

No. 2406

REC'D NEW YORK

State if Report is also sent on the Machinery of the Vessel

34-115-1018

*July.*

July 1<sup>st</sup> 1918 Received at London Office

*Survey held at*

Date, First Survey *7<sup>th</sup> May 1917*

Last Survey *1<sup>st</sup> July* 191*8*

On the (State if Single, ~~Twin~~ or ~~Triple~~ Screw)

55. "SANTA OLIVIA" (Builder No. 444)

Rig Schooner (2 masts).

**TONNAGE under } 4475.02**  
**Tonnage Deck... }**

CLASS + 100 A.I. Shelter Dr  
Smith Rd

FEET.

Master *George A. Miles. U.S.N.R.F.*

Do. between Tonnage Dk. and 3rd, 4th, or Turning Dk. 1517.04

**Breadth** (*greatest moulded*)

33.75-

Year of Appointment }<sup>owne</sup>  
(2)

**Total under Upper Dk.** 5992.06

Depth, at middle of length from top of keel to top of 28.792

*Do. of Poop*

**Deduct** height of 'tween deck when this does not exceed 8ft.

Built at Philadelphia

When built 1918 Launched 12/1/18

By whom built. *Wm Cramp Sons 5-8 B6*

Owners United States of America

represented by  
Managers. United States Shipping Board

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

Residence Washington D.C.

Port belonging to *New York*

*Destined Voyage* .....

*If Surveyed while Building, Afloat, Or in Dry Dock* *Yes*

<b>TH</b> on	<b>Ft.</b>	<b>Ins.</b>	<b>BREADTH</b> —	<b>Ft.</b>	<b>Ins.</b>	<b>DEPTH, ACTUAL</b> —Top of Floors to top of Awn. or Shelter Dk. Beams	<b>Ft.</b>	<b>Ins.</b>	No. of Decks with flat laid	3
per Rule	404	6	Moulded . .	53	9	Do. do. Upper Deck Beams . . .	34 26	12 13	No. of Tiers of Beams	3

ns of Ship per Register,

Length 404.6 breadth 53.5 depth. (36.3 Upper Deck.

Moulded depth, ft. 36 ins. 9½ To Awning or Shelter Dk.

Round up of Uppermost } 13½ ins  
 Pl. Beam Actual

FRAMING	Inches	Inches	Inches	Inches	Inches	Inches
	in Ship	in Ship	in Ship	per Rule	per Rule	per Rule

Moulded depth, ft. 28 ins. 9 1/2 To Upper Dk.

Round up of Uppermost } 13 1/2 ins  
Dk. Beam, Actual .. }

FRAMING.				Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	PILLARS.				Inches. Size in Ship.	Inches. Spacing in Ship.	Inches. per Rule. Or as Approved.	Inches. per Rule. Or as Approved.	
Longitudinal Framing in separate sheet				Longitudinal						PILLARS, In 'tween Deck, size and spacing							
Angles, or Bars, amidships				7	3 1/2	44	7	3 1/2	44	" " Hold							Wide spaced pillar
Peaks				8 1/2	3 1/2	40	8 1/2	3 1/2	40	" Quarter, 'tween Dks.,							guides see app <sup>2</sup>
Way of Double Bottoms at Solid Floors										" in Hold							plan
" " at intermdt. Bkts.																	
of Frames from centre to centre amidships										KEELSONS AND STRINGERS.				Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.
" length to collision bulkhead										CENTRE LINE KEELSON, Vertical Plate above }							
of Frames from centre to centre in peaks				24			24			floors, Through Plate, or Intercostal Plate }							
SEED FRAME, Angles										" Rider Plate							
Way of Double bottoms at Solid Floors										" Flat Keel Plate Angles							
" " at intermdt. Bkts.										" Horizontal Plates on Floors							
ING, depth of girder				4 1/2	Peaks					" Angles or Bulb Angles							
IS, depth and thickness of Floor Plate }										SIDE KEELSONS, Number							
at mid-line for 1/2 length amidships				40 5/8	150 B		40 5/8	150 B		" Angles or Bulb Angles							
in way of Engine and Boiler spaces										" Plate above floors, for length							
thickness at the ends of vessel					36			36		" Intercostal Plate, for length							
depth at 1/2 the half-bdth. as per Rule										" Attached to outside plating with Angle							
height extended at the Bilges										BILGE KEELSON, Angles							
RS, in Cell Double Bottoms				45 x	40		45 x	40		" Intercostal Plate, for length							
state if flanged (top and bottom)				40			40			" Attached to outside plating with Angle							
spacing of Solid				54	Normal					SIDE STRINGERS, Number							
RE GIRDER, in Dbl.bottom,dpth.&thicknss				45 7/8 x	50	45 7/8 x	50			" Angle							
" Angles, Top				3 1/2	3 1/2	50	3 1/2	3 1/2	50	" Intercostal Plate, for lng.							
" " Bottom				5	5	56	5	5	56	" Attached to outside plating with Angle							
" " to Floors				5	5	44	5	5	44								
Brackets at intermdt. frmg.,wdth & thknss										Upper Deck Stringer Plates, }				54	54	54	54
GIRDERS, number and thickness				Two	40	Two	40			breadth and thickness				5 x 5 x	60	5 x 5 x	60
" state if-flanged (top & bottom)				40			40			" Angle on ditto							
Angles				3	3	40	3	3	40	" Tie Plates, fore and aft, outside Hatchways							
IN PLATE, depth (exclusive of flange) }				40 x	45	40 x	45			" Deck.* Steel, for full lng.					40		40
and thickness										" Wood Deck. Material & thickness							
Angles to outside plating				4	4	48	4	4	48	Upper Deck Stringer Plate, breadth and }				47	44	47	44
" to floors				6	3 1/2	40	6	3 1/2	40	thickness				3 1/2 x 3 1/2	48	3 1/2 x 3 1/2	48
Brackets at intermdt. frmg.,wdth & thknss										" Angles on ditto, No. the							
Height of Brackets above at bilge										" Tie Plates, outside Hatchways							
BOTTOM PLATING, breadth and }				43 x	50	43 x	50			" Deck.* Steel, for full lng.					36		36
thickness of Middle Line Strake				55. 70	85 70	55. 70	85 70			" Wood Deck. Material & thickness							
" thickness in Engine and Boiler space										Second Deck Stringer Plates, br'dth & thckn's				47	40	47	40
" " Remainder in Holds				40 -	36	40 -	36			" Angles on ditto, No.				3 1/2 x 3 1/2	48	3 1/2 x 3 1/2	48
S, Awng or Shltr Dk, Single Angle, }										" Tie Plates, outside Hatchways							
Bulb Angle, Plate, Tee Bulb or Channel }										" Deck.* Material and thickness Steel				34	4000		34
spacing										Third, Fourth & Fifth Deck Stringer Plate, }				def. tank			
S, Upper Deck, Single Angle, Bulb Angle, }										breadth and thickness }							
Plate, Tee Bulb or Channel										" Angles on ditto, No.							
spacing										" Tie Plates, outside Hatchways							
S, Second, Third & Fourth Deck, Single }										" Deck. Material and thickness							
Angle, Bulb Angle, Plate, Tee Bulb or Channel }										Poop Deck Stringer Plate, breadth & thickness							
Angles on upper edge										" Angles on ditto							
spacing										" Tie Plates							
S, Poop Deck, Angle, Bulb Angle, Plate, }										" Deck. Material and thickness							
Tee Bulb or Channel										Bridge Deck Stringer Plate, br'dth & thickness							
Angles on upper edge										" Angle on ditto							
spacing										" Tie Plates							
S, Bridge Deck, Angle, Bulb Angle, Plate, }										" Deck. Material and thickness							
Tee Bulb or Channel										Forecastle Deck Stringer Plate, b'dth & th'kns							
Angles on upper edge				7	3 1/2	38	7	3 1/2	38	" Angles on ditto				3 1/2 x 3 1/2 x	36	3 1/2 x 3 1/2 x	38
spacing										" Tie Plates							
				24			24			" Deck. Material and thickness Steel					36		36

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



[illegible]



Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			WEIGHT REQ. BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.		
6458	1st Bower	70	3	11	stockless			52	5	0	0	63	3	0	Admiral	Run Seaboard Phil 10/5/18 Steam
6282	2nd "	69	1	4	"			53	7	2	0	63	3	0	Admiral	do Phil 29/3/18 Blallock
6410	3rd "	70	1	22	"			52	0	0	0	54	2	0	Admiral	do Phil 8/5/18 Steam
	Collective weight	210	2	9								180	0	0		
6459	Stream	34	1	4	stockless			31	16	1	0	21	3	17	Admiral	Run Seaboard Phil 10/5/18 Steam
6376	Kedge	9	0	7	2	0	36	11	4	2	31	7	2	0	Common	Babitt Phil 24/4/18 Steam

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.  
1st Bower Head 52.3.2. JS. 6458. Dropped 10/5/18 Stream Lead 25.2.14 JS. 6459. 10/5/18  
2nd " " 52.1.8. JS. 6282. " 28/3/18 Kedge " 9.0.17 JS. 6376 24/4/18  
3rd " " 53.2.15 JS. 6410 " 8/5/18

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and Size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Fathoms and Size per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Fathoms and size per Table 31.		Length.	Cir.
	Length.	Diam.	Stato-ry.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
590	300	1 1/2	9 1/8	12 1/2	827.2.37	794.0.12	270	3/4	stud	Bradley Phil 29/4/17 Broth		TOWLINE	130	6 1/2	73	120	5		
532	90	1 1/4	3 3/8	5 1/2	107.0.10	95.1.7	90	7/16	stud	Bradley Phil 10/1/17 Lonthis		HAWSERS & WARPS	90	3 1/2	26	180	2 1/2	0 8	
													90	3	18	180	2 1/2	0 7	
													90	2 3/4	15 1/2				
													90	2 1/2	12 1/2				
													6@ 120	7	manilla				

Boats Four (Four 25 ft. x 20 ft.) blood.  
Pumps, Number Two connected to suction - each held a hand pump in the back.  
Windlass is Steam by Amer. Eng. Co.  
Engine Room Skylights.—How constructed? Steel plate & angles. What arrangements for deadlights in bad weather? Steel flaps with bulbs up.  
Coal Bunker Openings.—How constructed? Steel plate & angles. How are lids secured? Bolt caps battens hatchway. Height above deck? 30" shells 12" upper.  
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Two 30" x 21" abreast deckhouse. Open Rails elsewhere.  
Ceiling in Holds, thickness and material. 2 1/2" Pine. Cargo Battens, thickness and material. 2" Pine.  
Cargo Hatchways.—How formed? Steel plate & angles. Hatches, If strong and efficient? Yes.  
State size No. 1 Hatch (Forward) 27'0" x 20'0" No. 2 Hatch 36' x 20' No. 3 Hatch 8'0" x 20'0" No. 4 Hatch 36' x 20' No. 5 27' x 20'  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch Webs only in the afters 35" 4 x 3 x 1/4 double angles.  
1001-5, 5 webs, 10 2 x 14, 7 webs 10 3 1 web. No. of Breasthooks Eleven No. of Crutches Deep floors.  
Bulwarks, height above deck and description. Open Rails. Main Rail and Stays, material and size.  
The foregoing is a correct description.  
Builder's Signature (here only) J. M. Levanp Son Ship Engineer Building Co. Surveyor's Signature R. D. Cairns & Son  
Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)  
M 30/4/16  
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 (overlaps)  
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory  
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes State results of tests Satisfactory  
General Remarks (State quality of workmanship, &c.) This Steel Single Screw Steamer has been built in accordance with the approved plans Secretary's letter of above date and in general conformity with the Rules for the class contemplated. Workmanship throughout good.  
This vessel is a sister vessel to the S.S. "Santa Rosa" & S.S. "Santa Paula" the same Builders No. 438 & 439. Pha. H.E. Rpt No. 2519 & 2557.  
All Double bottom, Peak & Deep tanks have been tested as required by the Rules with the varying heads of water as laid down therein.  
Wireless fitted  
Copies of approved midship section & profiles herewith & forging reports herewith.

The Surveyor should state the Number of Report and Name of any Sister Vessel. Santa Paula & Santa Rosa  
Plans to be forwarded with F.E. Report showing vessel as built. Phil. Rpt 2557 & 2519.  
Freeboard Fee \$50.00  
The amount of Entry Fee \$25.00  
Special Survey Fee \$427.00  
Travelling Expenses, Agent \$7.50  
New York expenses \$11.00  
State whether the Vessel has been built under Special Survey Yes  
I am of opinion this Vessel should be Classed +100 R.1. Shell 30" longitudinal (Feminy).  
With, or without Freeboard, as condition of Class With 7-18  
Fees applied for, July 8, 1918  
Received by me, 22/7/18  
Certificate to be sent to Philadelphia Date of issue 13/2/1918  
Wm. Ashmull & R. D. Cairns  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JUL 16 1918  
Character assigned +100 R.1  
notes- A.C.P. Shell 30" wflr  
Exp. to 2 + LmC 6.18  
Long. frames Fitted for oil fuel 6.18 3" above 150°F  
Elec. Lt. F.H.B.  
J.D.  
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S/s. Santa Olivia

005301-005306-0063 2/2

W. Cramp &amp; Sons. S. F. B. Co. No. 444.

P.L. Rpt. No.

## PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.						
		In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.	Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.				
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.		Spang.	Inches.	Number.	Diameter Inches.	
Framing of $\frac{1}{4}$ L & $\frac{1}{4}$ R																				
Frames in Bridge 'tween Decks ...																				
Frames from Uppermost Continuous Deck																				
Framing from Awning, Shelter or Upper Deck to Margin Plate.		No. 1	6	3 1/2	40	6	3 1/2	36	6	3 1/2	40	6	3 1/2	36	7/8	5 1/4	54	5	7/8	
		" 2	6	3 1/2	40	6	3 1/2	36	6	3 1/2	40	6	3 1/2	36	7/8	5 1/4	54	5	7/8	
		" 3	6	3 1/2	40	6	3 1/2	36	6	3 1/2	40	6	3 1/2	36	"	"	5 1/4	5	7/8	
		" 4	7	3 1/2	40	7	3 1/2	36	7	3 1/2	40	7	3 1/2	36	"	"	5 1/4	5	7/8	
		" 5	8	3 1/2	42	8	3 1/2	38	8	3 1/2	42	8	3 1/2	38	"	"	4 3/8 for 8 Rivets	6	7/8	
		" 6	8	3 1/2	42	8	3 1/2	38	8	3 1/2	42	8	3 1/2	38	"	"	4 3/8 " 8 "	6	7/8	
		" 7	8	3 1/2	46	8	3 1/2	42	8	3 1/2	46	8	3 1/2	42	"	"	3 1/2 " 8 "	7	7/8	
		" 8	8	3 1/2	50	8	3 1/2	46	8	3 1/2	50	8	3 1/2	46	"	"	3 1/2 " 8 "	7	7/8	
		" 9	9	3 1/2	46	9	3 1/2	42	9	3 1/2	46	9	3 1/2	42	"	"	3 1/2 " 8 "	8	7/8	
		" 10	9	3 1/2	50	9	3 1/2	46	9	3 1/2	50	9	3 1/2	46	"	"	3 1/2 " 8 "	8	7/8	
		" 11	7	3 1/2	38	7	3 1/2	38	7	3 1/2	38	7	3 1/2	38	"	"	4 3/8 " 8 "	6	7/8	
		" 12	9	3 1/2	43 1/2	in deep tank														
" 13	9	3 1/2	43 1/2																	
" 14	9	3 1/2	50																	
" 15	9	3 1/2	50																	
" 16	9	3 1/2	54																	
Spacing of Longitudinal Frames		Amidships			30			30												
		At Ends			21			21												
Double Bottoms		Tank Top Longitudinals			6 3 40 1/2			6 3 36			6 3 40 1/2			6 3 36			7/8 4 3/8		50 - Boiler Space	
A, L or R		Bottom			7 3 1/2 40			7 3 1/2 36			7 3 1/2 40			7 3 1/2 36			7/8 5 1/4		3 1/2 for 4 Rivets each side of floor	
Spacing of Longitudinals		Amidships			30			30												
		At Ends			21			21												
Transverses.																				
Shelter In Bridge 'tween Decks		Depth and Thickness		14		38	14		38	14		38	14		38					
		Face Angles		4	3 1/2	44	4	3 1/2	44	4	3 1/2	44	4	3 1/2	44					
		Lugs to Shell*		3 1/2	3 1/2	38	3 1/2	3 1/2	38	3 1/2	3 1/2	38	3 1/2	3 1/2	38	7/8	4 3/8	liners fitted		
In Awning, Shelter or Upper 'tween Decks.		Depth and Thickness		16 1/2		40	16 1/2		40	16 1/2		40	16 1/2		40					
		Face Angles		5	3 1/2	44	5	3 1/2	44	5	3 1/2	44	5	3 1/2	44					
		Lugs to Shell*		3 1/2	3 1/2	40	3 1/2	3 1/2	40	3 1/2	3 1/2	40	3 1/2	3 1/2	40	7/8	4 3/8	liners fitted		
In Hold.		Depth and Thickness		20 1/2		50	20 1/2		50	20 1/2		50	20 1/2		50					
		Face Angles		7	3 1/2	54	7	3 1/2	54	7	3 1/2	54	7	3 1/2	54					
		Lugs to Shell*		6	6	46	6	6	46	6	6	46	6	6	46					
Brackets		Chops		7	3 1/2	44	7	3 1/2	44	7	3 1/2	44	7	3 1/2	44	7/8	4 3/8	liners fitted		
Spacing of Transverse Frames					9'-0"			9'-0"												
		* State if joggled or liners.																		
Longitudinal Beams of		Bridge Deck												Spacing.						
A, L or R		Angon Shlter.Dk.			6 3 37 1/2			6 3 36			6 3 37 1/2			6 3 36			39		Transverse	
		Upper			6 3 37 1/2			6 3 34			6 3 37 1/2			6 3 34			39		Beams.	
		Second			6 3 44			6 3 40			6 3 44			6 3 40			39			
		Third																		

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.

## PARTICULARS

NOTE:—This slip to be posted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

(in feet and tenths). When the Poop 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 should appear in the Register Book) 28<sup>th</sup> (Stl) Shelter 8<sup>th</sup> (Stl).

Official No. 216438

Wishes Hall KQII

How are the surfaces preserved from oxidation? Inside Cement, Bitumastic & Paint

State if Machinery is fitted aft No.

Outside Paint

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. Cellular. 3<sup>rd</sup>.

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	134	436.5	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,	22.25	101	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	189.5	671	Other tanks, if fitted,		
Total capacity of double bottom		1208.5	(If necessary, furnish further information by sketch.)		

\* 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.

Yes.

Order for Special Survey No. 112

Date 2/12/16

No. 4444 in builder's yard.

DATES OF SURVEYS held while building

1917 May 7, 11, 14, 29, June 16, 19, 25, 29, July 15, 20, 27, 31, Aug. 7, 13, 20, 24, 28, 30, 31, Sep. 7, 10, 12, 14, 19, 21, 24, Oct. 2, 3, 5, 17, 19, 23, Nov. 1, 7, 12, 26, 28, Dec. 5, 7, 10, 11, 12, 15, 20, 21, 24, 26, 28, 1918 Jan. 8, 9, 12, 21, 22, 30, Feb. 4, 6, 14, 30, 28, Mar. 6, 20, 29, April 5, 10, 17, 23, 30, May 3, 9, 28, June 11, 13, 17, 18, 21, 24, 28, 30, July 1.

Total No. of Visits 83

Surveyor's Signature

R. D. Cairns