## FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As required by the Provisions of the ASME Code Rules M&L JOB # 17357-1

	Manufactured by.		ATRICA A 1 TOWNER TO					
2.	Manufactured by.	MAI	NNING & LEWIS EN					
	Manufactured for	CLARK	DIL & REFIN	ING CORP	BLUE IC		E11.	
				(Nan	ne and address of Purch	ser)		
3.	Type HORIZ	Kind H	EAT EXCH, Vess 1, Jacketed, Heat Exch)	sel No. ( 5490	_) () N	atl. Bd. No2	2926 Yr. B	<sub>iilt.</sub> 1969
			single wall vessels (such					
4.	SHELL: Materia	SA-240	-304 T.S. 75	OOO Nom.	1875 in Spir.	062 in. Dia.	<u>2</u> F1. <u>5</u> In. Light	9 Ft 936 In
		(seina and t	spec. No.) (Fig. of F E	o ex phec will 1.2.				
٠.	(Wel-	ded, Dbl., Sing	gle, Lap, Butt) (Yes	or No) ' (Spot	or Complete)	(Yes or No)	iency Os g	lf riveted de- scribe seams fully on re-
	Girth_	GROO	<b>∀€</b> H.T. <u></u> ນດ	R.T	S POT Sectioned	No. No.	of Courses	fully on re- verse side of form
6.	HEADS: (a) Ma	terial	Т.	S	(b) Material		T'S	
						al Hemisoh		Side to Pressure Convex or Concave
	/10/			Radius	Ratio Apex As	igle Radiu	s Diameter	Convex or Concave)
	(b)							
	If removable, bolt	s used	(Material, Spec. No., T	S. Size. Number)	Other fastening		(Describe or Attach Sket	
7.	STAYBOLTS:			Attachment		Disak	(Describe of Attach Sket	cn)
			If hollow(Size of 1	Hole)	(Threaded, Welded)	(Horiz.	) (Vert.)	(Nominal)
	JACKET CLOSU	JRE:	(DESCRIBE AS OGEE &	WELD BAS 595	M. Ade	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
١.	Constructed for m	ax 7	psi. at max.	275	Min. temp. (when		Hydrostatic Preumatic or Test	
	allowable working	press.	psi. at max. t	temp. 213	F. less than -20°)	°F	. Combination Press	134 psi
1	ns 10 and 11 to be o	ompleted for	tube sections.	0 201	20.00		.60.	
•	TUBE SHEETS:	Stationary.	Material EA- 24	Kind & Spec No.)	Dia. 30, 25	ln. Tkns. !	1875 In. Attachm	ent Welded
		Floating.	Material		Dia	to m	. A 1	(Walded, Bolted (CLAMPED)
		_	_	(Kind & Spec. No.)	-1/1de	in. Ikns	In. Attachi	nent
1.	TURES Material	SA 249	O.D. 3/4	Y., Criti	LC Inche		112	
	TODES. MIRICINA	(Kind & Spec.	. No.)	In. I hickness	or Gag	: Number	Type_	(Straight or U)
ter	ns 12-15 incl. to be	completed fo	or inner chambers of jac	cketed vessels, or cl	nannels of heat exchar	gers.		
							<b>~</b>	646
	OFFICE STATES	(Kind and S	C. T.S. <u>550C</u> Spec. No.) (Fig. or F.E	3. & Spec. Min. T.S.)	in. Allow.	In. Dio	G-Fr. Sin. Lath	1 e. 5 %
			T					
3,	SEAMS: Long	PH BUT	H.T	• R.T	Sectioned_	No EM	ciency 85° o	If giveted de-
3.	SEAMS: Long(Weld	Phi Bulled, Dhi, Sing	de, Lap, Butt) (Yes o	or No) 1 R.T. (Spot	or Complete)	No FM (Yes or No)	ciency 85 %	If fiveted de-
3.	Girth	DDI BUI	!H.TN	O R.T.	No Sectioned	No No	ciency 85 %	If riveted de- scribe seams fully on re- verse side of form
3.	Girth	DDI BUI	H.T. N.	C (b) Materia	Sectioned_ ISA 515.76T.S. 70	100 No	ciency 85 % of courses 1  1aterial T	If fiveted de-
). ).	HEADS: (a) Mai	terial SA-2	H.T. N. 155000 Crown Radius	C R.T. C (b) Materia Knuckle Eilig Radius Ra	Sectioned_ ISA 515.76T.S. 70	100 No	ciency 85 % of courses 1  1aterial T	If fiveted de-
	HEADS: (a) Mai Location Top, bottom, ends	terial SA:21 Thickness	H.T. N. 155000 Crown Radius	C (b) Materia	Sectioned_ 1 <b>SA</b> 515-76 <sub>T.S.</sub> 70	100 No	ciency 85 % of courses 1 faterial T Diameter (6	If riveted de- scribe seams fully on re- verse side of form
). (a) (b)	HEADS: (a) Mai	terial SA-2	H.T. No. 185-C T.S. 55000 Crown Radius	C R.T.  C (b) Materia  Knuckle Eilig Radius Ra	Sectioned_ ISA 515.76T.S. 70	100 No	ciency 85 % of courses 1  1aterial T	If riveted describe seams fully on reverse side of form  S.  Side to Pressure onvex or Concave)
3. 4. (b)	HEADS: (a) Mai Location Topy-posterm, ends Channel Floating	Thickness 5/16 1.812	H.T. N. A.S. C. T.S. 55000 Readius 24	C R.T. C (b) Materia Knuckle Eilig Radius Ra	Sectioned	100 No	ciency 85 % of courses 1 faterial T Diameter (6	If riveted describe seams fully on reverse side of form  S. Side to Pressure onvex or Concave;
3. 4. (a) (b)	HEADS: (a) Mai Location Topy-posterm, ends Channel Floating	Thickness 5/16 1.812 bolts used (	H.T. N.  BS-C T.S. 55000  Crown Radius 24  (a) 5A-193-B7-125  (Material, Sp.	O R.T.  G (b) Materia  Knuckle Eilig Radius Ra  Z 1/2	Sectioned	100 No	ciency 85 % of courses 1 faterial T Diameter (6	If riveted describe seams fully on reverse side of form  S. Side to Pressure onvex or Concave;
3, 4. (a) (b)	HEADS: (a) Mai Location Topy-posterm, ends Channel Floating	Thickness 5/16 1.812 bolts used (	H.T. N. A.S. C. T.S. 55000 Readius 24	C R.T. C (b) Materia Knuckle Eilig Radius Ra	Sectioned  Sectioned  Sectioned  Sectioned  Apex Angle  Apex Angle  Apex Angle  (b)	100 No	ciency 85 % of courses 1  Interial T Diameter (0	If riveted describe neams fully on reverse side of form  S. Side to Pressure convex or Concave;  CO MCAVE  FIAT
3. (a) (b) (c)	HEADS: (a) Mai  Location  Top, bottom, ends  Channel  Floating  If removable,	Thickness 5/1C 1.812 bolts used (	H.T. N.  BS-C T.S. 55000  Crown Radius 24  (a) 5A-193-B7-125  (Material, Sp.	C R.T. C (b) Materia Knuckle Eilig Radius Ra	Sectioned  Sectioned  Sectioned  Sectioned  Apex Angle  Apex Angle  Apex Angle  (b)	No N	ciency 85 % of courses 1 faterial T il Flat Diameter (0	If riveted describe neams fully on reverse side of form  S. Side to Pressure convex or Concave;  CO MCAVE  FIAT
3. (a) (b) (c)	HEADS: (a) Mai  Location  Top, bottom, ends Channel Floating If removable,	Thickness 5/1C 1.812 bolts used (	RS-C T.S.55000  Crown Radius 24  (a) SA-193-B7-125  (Material, Sp.	C R.T. C (b) Materia Knuckle Eilig Radius Ra 21/2 COOO 3/4-10 eec No., T.S., Size, N	Sectioned  1SA 515-70 T.S. 70  otical Conical Apex Angle  28 (b)  umber)  Othor	No N	of courses.  Interial T  If Diameter (0)  (Describe or Attac  Hydrostatic Preumatic or Test	If riveted describe neams fully on reverse side of form  S.  Side to Pressure convex or Convex o
3. (a) (b) (c)	Girth  HEADS: (a) Mai  Location  Top, bottom, ends  Channel  Floating  If removable,  Constructed for mallowable working	Thickness 5/16 1.812 bolts used (	H.T. N.  RS-C T.S. 55000  Crown Radius 24  (a) SA-193-B7- 125  (Material, Sp. 125)  (C)	C R.T. C (b) Materia Knuckle Eilig Radius Ra 2 1/2  COOO 3/4-10 sec No., T.S., Size, N	Sectioned	No N	ciency 85 % of courses 1  Interial T Diameter (0  30.25  (Describe or Attace Hydrostatic )	If riveted describe neams fully on reverse side of form  S.  Side to Pressure convex or Convex o
3. 4. (a) (b) (c)	HEADS: (a) Mai  Location  Top, bottom, ends Channel Floating If removable,  Constructed for mallowable working	Thickness 5/16 1.812 bolts used (  ax. press. 7	A.T. N. A.	C R.T. C (b) Materia Knuckle Eilig Radius Ra 2 1/2  COOO 3/4-10 sec No., T.S., Size, N	Sectioned  1SA 515-70 T.S. 70  otical Conical Apex Angle  28 (b)  umber)  Othor	No N	of courses.  Interial T  If Diameter (0)  (Describe or Attac  Hydrostatic Preumatic or Test	If riveted describe seams fully on reverse side of form  S. Side to Pressure convex or Concave)  CO ACAYE  FIAT
3. (a) (b) (c) 5.	HEADS: (a) Mai  Location  Top, bottom, ends Channel Floating If removable,  Constructed for mallowable working  allowable working  SAFETY VALVE	Thickness 5/16 1.812 bolts used (  ax. press. 7	A.T. N. A.	C R.T. C (b) Materia Knuckle Eilig Radius Ra 2 1/2  COOO 3/4-10 sec No., T.S., Size, N	Sectioned  1SA 515-70 T.S. 70  otical Conical Apex Angle  28 (b)  umber)  Othor	No N	of courses.  Interial T  If Diameter (0)  (Describe or Attac  Hydrostatic Preumatic or Test	If riveted describe seams fully on reverse side of form  S. Side to Pressure convex or Concave)  CO ACAYE  FIAT
3. 4. (a) (b) (c) 5.	Location  Location  Top, cottom, ends  Channel  Floating  If removable,  Constructed for mallowable working  s below to be comp	Thickness 5/16 1.812 bolts used (  ax. press. 7	A.T. N. A.	C R.T. C (b) Materia Knuckle Eilig Radius Ra 2 1/2  COOO 3/4-10 sec No., T.S., Size, N	Sectioned_ 1SA-518-70T.S. 70  Petical Conical Apex Angle  28 (b)  When the Min. temp. (when F. less than -20°)	No N	ciency 85 % of courses 1 faterial T  If Plat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination ) Press.	If riveted describe seams fully on reverse side of form  S. Side to Pressure convex or Concave)  CO ACAYE  FIAT
(a) (b) (c)	HEADS: (a) Mai  Location  Top, bottom, ends Channel Floating If removable,  Constructed for mallowable working  allowable working  SAFETY VALVE	Thickness 5/16 1.812 bolts used (  ax. press. 7	H.T. No. A.	C R.T. C (b) Materia Knuckle Ellig Radius Ra 2 1/2  COOO 3/4-10 sec No., T.S., Size, N  mp. 275 og	Sectioned_ 1SA-518-70T.S. 70  Petical Conical Apex Angle  28 (b)  When the Min. temp. (when F. less than -20°)	No N	decency 85 % of courses 1 faterial T  Plat Diameter (0 30,25  (Describe or Attac Hydrostatic Pneumatic or Combination   Press.	If riveted describe neams fully on reverse side of form  S.  Side to Pressure convex or Convex o
(a) (b) (c) 5.	Location  Location  Top, bottom, ends Channel Floating If removable,  Constructed for mallowable working  s below to be comp  SAFETY VALVE  NOZZLES: Purpose (Inlet, Outlet, Drain)	Thickness S/1C 1.812  bolts used (  ax. press. 7 pleted for all COUTLETS	RS-C T.S.5S000  Crown Radius 24  (a) SA-193-B7- /2S  (Material, Sp  (c)	C R.T. C (b) Materia Knuckle Ellig Radius Ra 2 1/2  COOO 3/4-10 ec No., T.S., Size, N  mp. 275 or	Sectioned_ 1SA-518-70T.S. 70  ptical Conical Apex Angle  28 (b)  Win. temp. (when F. less than -20°)  Size  Material	No No POCC (c) N Hemispherici Radius  r fastening F.	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe neams fully on reverse side of form  S. Side to Pressure convex or Concave;  CO MCAME  FIGAT  How  Attached
3. (a) (b) (c) 5.	HEADS: (a) Mai Location Top, bottom, ends Channel Floating If removable,  Constructed for mallowable working allowable working The below to be comp SAFETY VALVE NOZZLES: Purpose (Inlet, Outlet, Drain)	Thickness 5/16 1.812 bolts used (  ax. press. 7 pleted for all	RS-C T.S. 55000  Crown Radius 24  (a) SA-193-B7-125  (Material, Sp. 125)  (C)	C R.T. C (b) Materia Knuckle Ellip Radius Ra 2 1/2  COOO 3/9-10 Hec No., T.S., Size, N  mp. 275 op  e. Type  FLANGEO	Sectioned  1SA-518-70T.S. 70  Polical Conical Apex Angle  28 (b)  Umber)  Othor  Min. temp. (when f. less than -2()°)  Size  Material  SA-53-8	No No POCC (c) N Hemispherica Radius  r fastening  F.  Thickness	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe neams fully on reverse side of form  S. Side to Pressure convex or Concave;  CO MCAVE  FIAT  How  Attached
3. (a) (b) (c) 5.	HEADS: (a) Mai Location Top, cottom, ends Channel Floating If removable,  Constructed for maillowable working allowable working The state of the sta	Thickness 5/12 1.812 bolts used (  ax. press. 7 pleted for all COUTLETS  Number	H.T. No.  RS-C T.S. 55000  Crown Radius 24  (a) SA-193-B7-125  (Material, Sp. 125)  (C)	C R.T. C (b) Materia Knuckle Ellig Radius Ra 21/2  COOO 3/4-10 sec No., T.S., Size, N  mp. 275 og c. Type  FLANGEO  "	Sectioned  Sectioned  SA 518-70T.S. 70  Deleat  Conical Apex Angle   28  (b)  Other  Min. temp. (when  F. less than -2(0°)  Size  Material  SA-53-8  SA-240-304	No N	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe neams fully on reverse side of form  S. Side to Pressure onvex or Concave;  CO MCAVE  FLAT  How  Attached  Walded
3. 4. (a) (b) (c) 5. ten	HEADS: (a) Mai Location Top, costem, ends Channel Floating If removable,  Constructed for maillowable working allowable working Toppose (Inlet, Outlet, Drain)  NOZZLES: Purpose (Inlet, Outlet, Drain)	Thickness 5/12 1.812 bolts used (  ax. press. 7 pleted for all COUTLETS  Number	H.T. No.  RS-C T.S. 55000  Crown Radius 24  (a) SA-193-B7-125  (Material, Sp. (c).  PS. psi. at max. te  vessels where applicable S: Number  Diam. or Size  6"-150 4 4"-150 4	C R.T. C (b) Materia Knuckle Rilling Radius Ra 21/2  COOO 3/4-10 eec No., T.S., Size, N  mp. 275 or  f. AMGEO  "	Sectioned_ 1SA-518-70T.S. 70 ptical Conical Apex Angle  28 (b) Other  Min. temp. (when F. less than -20°)  Size  Material  SA-53-8  SA-240-304  SA-3/2-304	No N	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe neams fully on reverse side of form  S. Side to Pressure onvex or Concave; CO MCAVE FEAT  How Attached  Walded  ""
(a) (b) (c) 5. ten	HEADS: (a) Mai Location Top, cottom, ends Channel Floating If removable,  Constructed for maillowable working allowable working The state of the sta	Thickness 5/12 1.812 bolts used (  ax. press. 7 pleted for all COUTLETS  Number	H.T. No. 185-C T.S. 55000  Crown Radius 24  (a) 5A-193-B7-125  (Material, Sp. 125)  (C) psi. at max. te vessels where applicable 5: Number Prize 1500 10"-1500 12"-1500 12"-1500 12"-1500 12"-1500 12"-1500 15"-15	C R.T. C (b) Materia Knuckle Rilling Radius Ra 21/2  COOO 3/4-10 eec No., T.S., Size, N  mp. 275 or  flambed	Sectioned_ 1SA-518-70T.S. 70 ptical Conical Apex Angle  28 (b) Other  Min. temp. (when F. less than -20°)  Size  Material  SA-53-8  SA-240-304  SA-312-304	No No POCI (c) No Hemispherici Radius  r fastening   Thickness  5/40  3/16  5/405  5/405	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe nearms fully on reverse side of form  S. Side to Pressure onvex or Concave; CO MCAVE FEAT  How Attached  WAYGO
(a) (b) (c) ten (6.	Location  Location  Top, costem, ends  Channel  Floating  If removable,  Constructed for mallowable working  allowable working  SAFETY VALVE  NOZZLES:  Purpose (Inlet, Outlet, Drain)  NOZCET  OUTCET  UENT	Thickness 5/12 1.812 bolts used (  ax. press. 7 pleted for all COUTLETS  Number	H.T.   No.	C R.T. C (b) Materia Knuckle Ellig Radius Ra 21/2  COOO 3/4-10 ec No., T.S., Size, N  mp. 275 of c. Type  FLANGED  " " " " " " " " " " " " " " " " " "	Sectioned_ 1SA-518-70T.S. 70 ptical Conical Apex Angle  28 (b) Other  Min. temp. (when F. less than -20°)  Size  Material  SA-53-8  SA-240-304  SA-3/2-304	No N	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe seams fully on reverse side of form  S. Side to Pressure Convex or Concave; COMCAVE  FI-AT  How Attached  Walded  "" ""
(a) (b) (c) ten	HEADS: (a) Mai  Location  Top, bottom, ends  Channel  Floating  If removable,  Constructed for mallowable working  allowable working  SAFETY VALVE  NOZZLES:  Purpose (Inlet, Outlet, Drain)  /N-OUT	Thickness 5/12 1.812 bolts used (  ax. press. 7 pleted for all COUTLETS  Number	H.T. No. 185-C T.S. 55000  Crown Radius 24  (a) 5A-193-B7-125  (Material, Sp. 125)  (C) psi. at max. te vessels where applicable 5: Number Prize 1500 10"-1500 12"-1500 12"-1500 12"-1500 12"-1500 12"-1500 15"-15	C R.T. C (b) Materia Knuckle Rilling Radius Ra 21/2  COOO 3/4-10 eec No., T.S., Size, N  mp. 275 or  flambed	Sectioned  Sectioned  Sectioned  Sectioned  Sectioned  Sectioned  Sectioned  Conical Apex Angle  Sectioned  Conical Apex Angle  Sectioned  S	No No POCI (c) No Hemispherici Radius  r fastening   Thickness  5/40  3/16  5/405  5/405	of courses.  Interial Tat Diameter (0  30.25  (Describe or Attac Hydrostatic Pneumatic or Test Combination) Press.  Location.	If riveted describe nearms fully on reverse side of form  S. Side to Pressure onvex or Concave; CO MCAVE FEAT  How Attached  WAYGO

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ADD	Winnoles, No.		_Size	Location_	et i estiga tagasta		
OPENINGS:	Handholes, No		Size	Location		<del></del>	
	Threaded, No.	1-11	.Size	Location_			WELDES
SUPPORTS:	Skirt	Luce		1 2			CHRII
	(Yes or No)		(Number)	Logs 2 (Number)		Attached	(Where & Ho
REMARKS:	29- 120 CONT	DENSER	WITH	ACETONE	IN THE S	HELL AND	WATER
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(Brief des	cription of purpose of	the vessel, a	as Air Tenk,	After Cooler, Jacke	ed Cooker, etc. S	tate contents of e	ech part.)
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we cermy tha his vessel con	it the statements made inform to the ASME Co	in this repor	t are correct	and that all details	of design, materia	il, construction, a	ind workmansh
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c	19 69	_ Signed!	MANNING & L	EWIS ENG. CO.	By	177340	rle
tificate of Aut	horization Expires	DEC.	31 1970	UFACTURER	• ", "		
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VESSI	EL MADE BYM	ANNING & I	LEWIS ENG.	CO	UNION,	N. J. and the	1
-	the undersigned, holdin	g a valid comn	nission issued l	y the National Board	of Boiler and Press		rs and/or
	ate or Province NA'L	Bd. and	employed by		IAL UNION INSU	ure Vessel Inspecto	
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