FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

	certified by	AM THERN	MAL EQU			OZONE	PARK,	NEW YOR	KK 11416
2. Manufactured for	AMERIC	AN HOEC	HST CO	RP. CC	SS of manufacturer) VENTRY, ress of purchaser)	R.I.			
3. Location of installati	ion			(Nama a	nd address)	•	•	-	
4. Type HORIZ (Horiz. o	ONTAL rvert., tank)		6613 Mfgr's serial No.	,	(CRN)	B=6465	<u>-</u> S <u>T</u>	745 Id. No.)	1986 (Year built)
5. The chemical and p	hysical properties	s of all parts mee	t the requiremen	ts of material sp	ecifications of the	ASME Boiler an			
workmanship conform	to ASME Rules,	Section VIII, Divi	sion 1			90.)	Year		
Addenda	a (date)		Code Case No.			Spe	cial service per UG-1	20 (d)	
Items 6-11 incl. to be o	completed for sing	gle wall vessels, j	iackets of jacket	s of jacketed ve	ssels, or sheets of	heat exchanger	s.		
- · · · · - ·									1
6. Shell: SA-31 Mail. (Sr	6. Shell: SA-312 T-316 Mall (Spec. No., Grade))	Corr. Allow. (in.)		10" Diam. I.D. (ft. & in.)	(Len	8 2½ gth (Overall) (ft & in)
	ED DB			,		70		(assign (crossin) (it assi)	
	Long. (Dbl., Sngl.)		F	I.T. (Spot or Full)		Eff. (%)		H.T.	Temp. (°F)
•	ime		Girth	[Dbl., Sngl.)		R.T. (Spot,	Partial, or Full)		No. of Courses
8. Heads: (a) Matl	(90	ec. No., Grade)			(b) Matl		(Spec. No., Grade	1	
Location (Top.	Minimum	Corrosion	Crown	Knuckle	Elliptical	- Conical	Hemispherical	Flat	Side to Pressure
Bottom, Ends)	Thickness	Allowance :	Radius	Radius	Ratio	Apex Angle	Radius -	Diameter	(Convex or Concave)
(b)							32.		
If removable, bolts use	ed (describe other	r fastenings)					(Mall, Spec. No.,	Gr Sizo No \	
9. Type of Jacket		· ·				Proof Test	(ман. эрес. но.,		
10. Jacket Closure		(Describe as ogee &	k weld, bar, etc.)	If bar,	give dimensions _			If bolte	ed, describe or sketch.
11. MAWP							n less than -20°_		0F
			13	15		•			•
Hydro., pne	eu., or comb. test completed for tub		13	35	psi.				
Items 12 and 13 to be o	completed for tub	e sections			psi.		0		•
Items 12 and 13 to be of	completed for tub	ne sections T-316		.0			O Corr. Allow. (in.)		VELDED
Items 12 and 13 to be of 2. Tubesheets:	SA-240 onary Matl. (Spec. No.	be sections $\frac{T-316}{\text{Diag}}$	'] im. (in) (Subject to p	.0	psi		Corr. Allow. (in.)		VELDED
Items 12 and 13 to be of 2. Tubesheets: Statio	completed for tub	the sections $\frac{T-3}{\text{Dis}} \frac{16}{\text{Dis}}$ No., Gr.)	1 nm. (in) (Subject to p Diam. (in.) 3 / 4	oriessure)	psi. 3/4			ļ\\ Attac	VELDED
2. Tubesheets: Statio FI 13. Tubes: SA24	SA-240 conary Matl. (Spec. Note to a time the spec. Note the species that the	T - 3 16 Dia No., Gr.) No., Gr.) 16 r.)	im. (in) (Subject to p Diam. (in.) 3/4 OD (ir.)	oriessure)	psi. 3 / 4 Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or	<u>+</u>	Corr. Allow. (in.)	Attac	JELDED ch. (Welded, Bolted)
Items 12 and 13 to be of Station 2. Tubesheets: Statio FI 13. Tubes: SA24! Items 14-17 incl. to be	SA-240 conary Matl. (Spec. Note to a time the spec. Note the species that the	T - 3 16 Dia No., Gr.) No., Gr.) 16 r.)	im. (in) (Subject to p Diam. (in.) 3/4 OD (ir.)	oriessure)	psi. 3 / 4 Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or	<u>+</u>	Corr. Allow (in.) Corr. Allow (in.)	Attac	JELDED ch. (Welded, Bolted) Attach STRAIGHT
Items 12 and 13 to be of Station 2. Tubesheets: Station 5. SA24: Items 14-17 incl. to be 14. Shell:	SA-240 conary Matl. (Spec. Note to a time the spec. Note the species that the	T - 3 16 Dia No., Gr.) Dia No., Gr.) 16 r.) ner chambers of j	im. (in) (Subject to p Diam. (in.) 3/4 OD (ir.)	or channels of	psi. 3 / 4 Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or	Gauge)	Corr. Allow (in.) Corr. Allow (in.)	Attac ———————————————————————————————————	JELDED ch. (Welded, Bolted) Attach STRAIGHT
Items 12 and 13 to be of Station 2. Tubesheets: Station Fig. SA24 Items 14-17 incl. to be 14. Shell:	SA-240 conary Matl. (Spec. No. loating Matl. (Spec. No. Gompleted for innerpolation to the completed for innerpolation to the complete for the complete	T - 3 16 Dia No., Gr.) Dia No., Gr.) 16 r.) ner chambers of j	Diam. (in.) (Subject to p Diam. (in.) 3 / 4 OD (ir acketed vessels	or channels of	Nom. Thk. (in.) Nom. Thk. (in.) Nom. Thk. (in. or heat exchangers	Gauge)	Corr. Allow. (in.) Corr. Allow (in.) 56 Number	Attac ———————————————————————————————————	Attach CTRAIGHT De (Straight or "U")
2. Tubesheets: Statio FI 13. Tubes: SA24 Items 14-17 incl. to be	SA-240 conary Matl. (Spec. No. 19 T - 3 Matl. (Spec. No. G completed for intermediate.)	T - 3 16 Dia No., Gr.) Dia No., Gr.) 16 r.) ner chambers of j	Diam. (in.) (Subject to p Diam. (in.) 3 / 4 OD (ir acketed vessels Nom. Thk. (i	or channels of	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heal exchangers Corr. Allow. (in.)	Gauge) Dia Eff. (%)	Corr. Allow. (in.) Corr. Allow (in.) 56 Number	Attac ———————————————————————————————————	Attach CTRAIGHT De (Straight or "U") gth (Overall) (ft & in)
2. Tubesheets: Statio FI 13. Tubes: SA24 Items 14-17 incl. to be	SA-240 completed for tub SA-240 conary Matl. (Spec. No. loating Matl. (Spec. No. 9 - T - 3 Matl. (Spec. No., Gra Long. (Dbl., Si Time SA-312	T - 3 16 Dia No., Gr.) Dia No., Gr.) 16 r.) ner chambers of j	Diam. (in.) (Subject to p Diam. (in.) 3 / 4 OD (ir acketed vessels Nom. Thk. (i	or channels of in.) .T. (Spotor Full)	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heal exchangers Corr. Allow. (in.)	Gauge) Dia Eff. (%) R.T. (Spo	Corr. Allow. (in.) Corr. Allow (in.) 5 () Number	Attac	Attach STRAIGHT De (Straight or "U") gth (Overall) (ft & in) mp. (°F)
Items 12 and 13 to be of Station 13. Tubes: SA24! Items 14-17 incl. to be 14. Shell:	SA-240 completed for tub SA-240 conary Matt. (Spec. No. Ioating Matt. (Spec. No. Grampleted for inr Matt. (Spec. No., Grampleted for inr Long. (Dbl., Si Time SA-312 (Spec. Minimum	T = 3 16 Dia T = 3 16 Dia No., Gr.) 16 r.) mer chambers of j ide) & SA = 2 c. No., Grade) Corrosion	Diam. (in.) Diam. (in.) Diam. (in.) 3 / 4 OD (ir acketed vessels Nom. Thk. (i	or channels of T. (Spot or Full) h (Dbl., Sngl.)	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heat exchangers Corr. Allow. (in.) (b) Matl. SA	Gauge) Eff. (%) R.T. (Spo	Corr. Allow. (in.) Corr. Allow (in.) 5 6 Number am. I.D. (ft. & in.) ot, Partial, or Full) T = 316 (Spec. No., Grade	Attac Attac Tyr Leng H.T. Te	Attach Attach CTRAIGHT De (Straight or "U") The (Overall) (ft & in) The (Overall) (ft & in) The (Overall) Side to Pressure
2. Tubesheets: Statio 13. Tubes: SA24! 14. Shell:	SA-240 SA-312 SA-312 SA-312 SA-312 SA-312 SA-312 SA-312	T - 3 1 6 Dia T - 3 1 6 Dia No., Gr.) Dia No., Gr.) 1 6 r.) ner chambers of j nde) & SA - 2 ac. No., Grade) Corrosion Allowance	Diam. (in.) (Subject to p Diam. (in.) 3 / 4 OD (ir acketed vessels Nom. Thk. (i	or channels of T. (Spot or Full)	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heat exchangers Corr. Allow. (in.)	Gauge) Dia Eff. (%) R.T. (Spr	Corr. Allow. (in.) Corr. Allow (in.) 5 6 Number am. I.D. (ft. & in.) ot, Partial, or Full) T = 3 1 6 (Spec. No., Grade	Attace Cyp Leng H.T. Te	Attach Attach CTRAIGHT De (Straight or "U") The (Overall) (ft & in) The (Overall) (ft & in) The (Overall) (ft & in) The (Overall) (ft & in)
Items 12 and 13 to be of Station 13. Tubes: SA24! Items 14-17 incl. to be 14. Shell:	SA-240 completed for tub SA-240 conary Matt. (Spec. No. Ioating Matt. (Spec. No. Grampleted for inr Matt. (Spec. No., Grampleted for inr Long. (Dbl., Si Time SA-312 (Spec. Minimum	T = 3 16 Dia T = 3 16 Dia No., Gr.) 16 r.) mer chambers of j ide) & SA = 2 c. No., Grade) Corrosion	Diam. (in.) (Subject to product t	or channels of in.) T. (Spot or Full) h (Dbl., Sngl.) Knuckle Radius	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heat exchangers Corr. Allow. (in.) (b) Matl. SA	Gauge) Dia Eff. (%) R.T. (Spr. 240 Conical Apex Angle	Corr. Allow. (in.) Corr. Allow (in.) 5 6 Number am. I.D. (ft. & in.) ot, Partial, or Full) T = 316 (Spec. No., Grade	Attac Attac Tyr Leng H.T. Te	Attach Attach CTRAIGHT De (Straight or "U") The (Overall) (ft & in) The (Overall) (ft & in) The (Overall) Side to Pressure
Items 12 and 13 to be of	SA-240 completed for tub SA-240 conary Matt. (Spec. No. loating Matt. (Spec. No. Grampleted for inr Matt. (Spec. No., Grampleted for inr Matt. (Spec. No., Grampleted for inr Long. (Dbl., Sirine SA-312 (Spec. Minimum Thickness . 165 . 165	T - 3 16 Do. Gr.) No., Gr.) 16 r.) ner chambers of j ide) & SA - 2 ac. No., Grade) Corrosion Allowance O	Diam. (in.) Diam. (in.) Diam. (in.) 3 / 4 OD (ir acketed vessels Nom. Thk. (i	or channels of in.) T. (Spot or Full) h (Dbl., Sngl.) Knuckle Radius	Nom. Thk. (in.) Nom. Thk. (in.) Nom. Thk. (in. or heat exchangers Corr. Allow. (in.) (b) Matl. SA	Gauge) Eff. (%) R.T. (Spo	Corr. Allow. (in.) Corr. Allow (in.) 5 6 Number am. I.D. (ft. & in.) ot, Partial, or Full) T = 316 (Spec. No., Grade Hemispherical Radius	Attace C Typ Leng H.T. Te	Attach CTRAIGHT De (Straight or "U") The (Overall) (ft & in) The (OF) No. of Courses CONCAVE CONCAVE
Seams:	SA-240 completed for tub SA-240 conary Matt. (Spec. No. loating Matt. (Spec. No. Grampleted for inr Matt. (Spec. No., Grampleted for inr Matt. (Spec. No., Grampleted for inr Long. (Dbl., Sirine SA-312 (Spec. Minimum Thickness . 165 . 165	T = 3 1 6 Dia T	Diam. (in.) (Subject to product t	or channels of in.) T. (Spot or Full) h (Dbl., Sngl.) Knuckle Radius	Nom. Thk. (in.) Nom. Thk. (in.) 18 Nom. Thk. (in. or heat exchangers Corr. Allow. (in.) (b) Matl. SA Elliptical Ratio	Gauge) Dia Eff. (%) R.T. (Spr. Conical Apex Angle	Corr. Allow. (in.) Corr. Allow (in.) 5 6 Number am. I.D. (ft. & in.) ot, Partial, or Full) T = 316 (Spec. No., Grade Hemispherical Radius	Attace Attace Type Leng H.T. Te Diameter	Attach CTRAIGHT De (Straight or "U") The (Overall) (ft & in) The (OF) No. of Courses CONCAVE CONCAVE

This form (E00108) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Form U-1 (Back)

Purpose nles, Outlet, Drain, etc.)	No.	Diam. or Size	Туре	Mati.	Nom. Thk.	Reinforcement Mati.	How Attached	Location
INLET	ำ	2	S.O.F	SA-182			WELDED	BONNET
OUTLET		2	S.O.F	"			**	11
DRAIN	_	3//	CPLG	11			11	BONNET
INLET	1	13	S.O.F.	11			ŧ;	SHELL
OUTLET		11	S.O.F.	. 11			11	11
VENT	┪	3/2	CPLG.	11			11	11
DRAIN		3/4	CPLG.	SA-182			WELDED	SHELL
DIATIN		5/ ,						
						·		
Supports:	Skirt	Lugs	LegsO	ther <u>SADDLI</u> (Describe)	$\overline{\mathrm{CS}}$ Attached .	SHELL &	WELDED (Where and how)	
· UN	IT T	O BE US	SED AS A	HEAT EXCHAN	NGER			-
					-			
			-	ERTIFICATE OF SH				of this years! as
					etails of desigr	, material, construction	s, and work manship of	or this vesser cor
rm to the ASM	E Code f	or Pressure V	essels, Section VII	I, Division 1.	Διια 10	(10	1882	green to the second
" Certificate o	f Autho	ization No	VAM TUE	RMAL EQUIP	T.TD	. 10	The hour	utous
te J	_			(manuracturer)			(Representative)	1
	I	ZAM THE	DMAT FOIL	CERTIFICATE OF S	HOP INSPECT	OZONE PARK,	NEW YORK	
ssel constructe						d Pressure Vessel Inspe		te or Province o
the undersigne	d, holdi	ng a valid co	and employ	red by COMMERC	IAL UNI	ON CO.	ctors and/or the oto	
NI	EW YO	ORK	and employ	ed by		ected the pressure vessel	described in this Ma	nufacturer's Dat
port on	-22	·H	. 19	, and state that, to		knowledge and belief,		
	accorda	nce with ASI				ificate neither the Inspe		
tv evoressed	or impli	ed concernin	na the pressure ves	sel described in the l	Manufacturer's	Data Report, Furthern	nore, neither the Insp	ector nor his en
ver shall he lia	ble in ar	v manner for	r apy personal in u	y of perty damag	e or a loss, ofa	py kind arising from or	connected with this	Inspection.
8-12		Signed	Monald	Thinge!	NB6053	DESIGNS STAIL	COMMISSINIA	# 33111
			κ)	Authorized Inspector	AL	<u>so commissio</u>	And Feddre Bah. Biblind about	V6.)
				FICATE OF FIELD A			ONN.	
certify that t	he field	assembly cor	nstruction of all p	arts of this vessel con	forms with the	requirements of Section	n VIII, Division 1 of	the ASME Boile
d Pressure Ves								
J" Certificate o	f Autho	rization No		expires		, 19		
ite		Co. nai	me(Assembler	that certified and constructed field		_ Signed	(By Representative)	
			CEPTI	FICATE OF FIFE D	ASSEMBLY IN	ISPECTION		
the undersigne	ed, hold	ing a valid c	ommission issued	by the National Boar	rd of Boiler an	d Pressure Vessel Inspe	ctors and/or the Sta	te or Province
				and empl				
			of			compared the stateme		
th the describe	d pressu	re vessel and	state that parts ref	erred to as data items	3			ot included in th
rtificate of sho	p inspe	ction, have be	een inspected by n	ne and that, to the be	st of my know	ledge and belief, the Ma	nutacturer has const	ructed and asser
ed this pressur	e vessel	in accordance	e with ASME Cod	e, Section VIII, Divis	sion 1. The des	cribed vessel was inspec	ted and subjected to	a nyorostatic te
	_psi. By	signing this o	ertificate neither t	he Inspector nor his o	employer make	es any warranty, express	ea or implied, conce	ming the pressu
							4	
						or his employer shall be	liable in any manne	r for any person
				rthermore, neither the om or connected with	h this Inspectio	or his employer shall be	e liable in any manne	r for any person

(12/82)

