FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS F-2100-20 As required by the Provisions of the ASME Code Rules Camden Copper Yorks, Canden, 'ew Jersey 1. Manufactured by _ #104105 2. Manufactured for Hercules, Inc., Milainaton, Delaware 3. Type Hortz. Kind Heat Exch. Vessel No. (7-373) 75 Natl. Bd. No. (Mirs. Serial) (State & State No. 507 Items 4-9 incl. to be completed for single wall vessels (such as air-tanks) -jackets of-jacketsd-vessels, or shells of heat exchangers. S. 75,000 Nominal Thickness 1/4n. Allowance Oln. Diam. 2 Ft.7 In. Length C Ft.1/16. 4. SHELL: Material SA240 316
(Kind and Spec. No.) T.S. If riveted de-5. SEAMS: Long Butt H.T. no X.R. spot Sectioned no Efficiency (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Yes or No) scribe seams fully on reform. none Sectioned no No. of Courses Girth no (b) Material
Elliptical Conical
Pario Apex Angle 6. HEADS (a) Material T.S.
Side to Pressure
(Convex or Concave) Knuckle Radius Crown Radius Hemispherical Radius Flat Location (Top, bottom, ends) Thickness Diameter See Tube Sheets Other fastening If removable, bolts used . (Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch) If hollow Attachment (Threaded, Welded) Pitch (Horiz.) X 7. STAYBOLTS: (Vert.) (Nominal) 8. JACKET CLOSURE: __ (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch) Hydrostatic psi at max. temp. 300 o F. less than -20°) 9. Constructed for max. 100 Pacumatic op Test 150 allowable working press2 F. Combination Press Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA240 316 (Kind & Spec. No.) Diam. 31 In. Thicknes 1-1/16. Attachment (Welde none Floating. Material Diam. _In. Thickness ___ In. Attachment (Kind & Spec. No.) Inches 1. TUBES: Material SAZ49 SOG.b. 3/4 In. Thickness 16 Type straight or Gage Number (Straight or U) Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. 12. SHELL Material SA285-C St. T.S. 55,000 Nominal Thickness 3/9n. Allowance Inf. Diam. 2 Ft. 14 In. Length 13. SEAMS: Long Butt H.T. no X.R. spot Sectioned no Efficiency. (Welded, Dbl., Single, Lap, Butt) (Yes or No)1 X.R. (Spot or Complete) scribe seams fully on reverse side of Girth Butt X.R. none Sectioned no No. of courses no H.T. 14. HEADS (a) Material (b) Material_ (c) Material Knuc kle Radius Elliptical Conical Hemispherical Flat Side to Pressure Thickness Diameter Apex Angle (a) Top, bottom, ends_ 911 x 6" r1bs 0 900 (b) Channel welded 30-3/4 flat (c) BRAMEN End 15" 30-3/4 If removable, bolts used (a) (b) St] SA19307. (Material, Spec. No., T.S., Size, Number) same as Other fastening . (Describe or Attach Sketch) Hydrostatic 15. Constructed for max. Min. temp. (when -Rosumatic or) Test allowable working press. 2 75 psi at max. temp. 300 °F. less than -20° 3. 113psi. F. "Combination" | Press Items below to be completed for all vessels where applicable. 16. SAFETY VALVE OUTLETS: Number elsewhere in system Location 17. NOZZLES Purpose (Inlet, Outlet, Drain) Reinforcement Material How Diam, or Size Type Number Material Thickness Attached A.B 2" 3 . s.0\$A538 Std. 4t none WALCO C 12x8" 14 D 14 4

FORM U-1 (back)

	** *				
18. INSPECTION	Manholes, No. none	Size	Location		
OPENINGS:	Handholes, No. none				
	Threaded, No. BONC	Size	Location		
9. SUPPORTS: S	Skirt No (Yes or No)	Lugs (Number)	Legs Number)	Other Saddles (Describe)	_ Attached Weld
O. REMARKS:	This vessel is	an oxidizer	after condens	er for non-le	thal servi
The el	hell of this ves	sel is anuinn	ed with an ex	nansion joint	of flange
Ine S	lued heads design	ned and fahri	cated per cod	e case 1177-5	
Tons	nderside of the	voceal chall	te poutoned w	ith a longitu	dinal
9111	ng jacket fabric	estad from 12"	20 74V2-36 C	achon steel c	hannel.
-neat1	nd larker tantit	aced How ar	20011-11-00 6		
		wassel as Alement Africa			
(Bri	ef description of purpose of the	vessel, as Air Tank, Aite	r Cooler, Jacketed Cooker	, etc. State contents of ea	ch part.)
of this vessel co	at the statements made in tonform to the ASME Code fo	r Unfired Pressure Vesse	els.		
Date April	17 19.67	Signed Canden Co	pper Works	By Phillip	Dunn
Certificate o	f Authorization Expires	12/31/67			
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a I		CERTIFICATE OF	SHOP INSPECTION	Í	
	L MADE BY Camden				Jersey
VESSE	L MADE BY Ganden	cobbet storks	at		
I, the	e undersigned, holding a valid te of New Jersey	commission issued by the	National Board of Boiler	and Pressure Vessel Insp	ectors and/or
the Sta	Hattford, Conn.				
			e inspected the pressure	vessel described in this r	nanufacturer's
data re turer h	port onas constructed this pressure	ressel in accordance with	state that to the best of the applicable sections o	my knowledge and belief, I the ASME Boiler and Pro	the manufac- essure Vessel
· · · pressur	signing this certificate neither te vessel described in this ma manner for any personal inju	nufacturer's data report. For ry or property damage or a	urthermore, neither the In	spector nor his employer s	shall be liable
Date _	///:	<u> 2</u> 19 67			
31		1			
	Ill Inc	Commis	ssions hB-29	07	
	Inspectors Signature		Nat'l	Board or State and No.	
	300 STO 8	#			
	*				
	CERT	IFICATE OF FIELD	ASSEMBLY INSPE	CTION	
I, th	e undersigned, holding a valid	I commission issued by the	National Board of Boile	r and Pressure Vessel Ins	pectors and/or
the Sta	te of				10
	9	hav	e compared the stateme	nts in this manufacturer	s data report
with th	e described pressure vessel ar	d state that parts referred t	o as data items		,
not inc	cluded in the certificate of s	hop inspection have been	inspected by me and the	it to the best of my knowle	dge and belief
80 80	nufacturer has constructed an				
	and Pressure Vessel Code. Th				
pressu	signing this certificate neithe re vessel described in this na manner for any personal inju	anufacturer's data report. F	urthermore, neither the In	spector nor his employer	shall be liable
Date		19			•
		Commi	ssions		
	Inspector's Signatur		Nat'	Board or State and No.	