FORM U-1 MAI ACTURERS' DATA REPORT FOR PR'

RE VESSELS

104201

as required by the provisions of the ASME Code rules, Section vii., Division 1 JOB NO. 1. Manufactured and certified by MANNING & LEWIS ENGINEERING CO. 675 RAHWAY AV, UNION, NJ 07083 (name and address of manufacturer) CAPE INDUSTRIES, P.O. BOX 327, HIGHWAY 421, N.WILMINGTON N.C. (name and address of purchaser) CAPE INDUSTRIES, HIGHWAY 421 N. WILMINGTON, N.C. 28402 3. Location of installation _ 4. Type:_ 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction and workmanship conform to ASME Code, Section VIII, Division 1:_ (special service per UG-120(d)) (addenda (Date)) (Code Case no) Items 6-11 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers. SA51670 6. Shell:_ 7. Seams: DBL BUTT SPOT 85 DBL BUTT (RT(spot. partial, or full)) (no. of courses) (RT (spot or full)) (eff (%)) (HT temp. (*F)) (time) (girth (dbl., sngl.)) (b)_ 8. Heads: (a)_ (mat'l, (spec. no., grade)) (mat'l. (spec. no.. grade)) Elliptical Conical Hemispherical Minimum Corrosion Crown Knuckle Location (top. (convex or concave) Diameter Apex Angle Radius Radius Thickness Allowance Radius (a) (b) If removable, bolts used (describe other fastenings): _ Proof test:_ 9. Type of jacket: _ If bar, give dimensions: 10. Jacket closure: 700 _. Min design metal temp.: 20 at_300 300 _. Hydro., pneu. or comb. test pressure_ at max. temp._ (*F) Items 12 and 13 to be completed for tube sections. SA240316 31 1/8
(stationary mat¹ (spec. no. gr.) (dia (in.) (subject to pressure)) 3 1/4 (nom. Ihickness (in)) 12. Tubesheets: (attachment (welded, boiled)) (attachment) 13. Tubes: 5A213316/5A213 3173/4 STRAIGHT 600/170 (nom thickness (in-or-gauge)) Items 14-17 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers. 21 6 3/411 (dia 10 (ft & in)) 14. Shell: SA240316 3/4 (corr allow (in)) (mat'l (spec no gr !) (girth (dbl., sngl.)) (RT (spot. partial, or full)) DBL BUTT 85 GROOVE 15. Seams: (eff (%)) (HT temp. (*F)) (time) (RT (spot or full)) (long (dbl., sngl ii 16. Heads: (a) SA51670 (mat'l (spec no grade)) (mat'l (spec no . grade)) Side to Pressure Hemisoherical Knuckle Elliptical Conical Minimum Corrosion Crown Location (top. Diameter (convex or concave) Apex Angle Allowance Radius Radius Ratio bottom, ends) 411 ENDS (a) (b) If removable, bolts used (describe other fastenings): SA193 B7, 1 1/8"-8, 44

(mail. spec_no.gr. size. no.) _at max. temp. ____650 ____. Min design metal temp.: ____at ____at ______ at ______. Hydro., pneu. or comb. test pressive

	w		FORM	U-1 (back)			Sec. 201	
3. Nozzles, irspection and	andety valve of	penings:			Nom.	Reinforcement Material	How Attached	Location
3. Nozzles, inspection and	Salety varia		Type	Mat'l	Thickness		WELDED	SHELL
ournes unlet.	Number	Dia di Sizo		SA106 B	.438	SA51670	WELDED	EX.JT.
outlet drain, etc 1	2	14-300#	FLG	SA105	3000#		WELDED	EX.JT.
INLET/OUTLET	1	3/4 NPT	SCR	SA105	3000#		TAPPED	T.S.
VENT	1	1 NPT	SCR	SALUS		7.	IACLIES	
DRAIN		1/4 NPT	SCR				WELDED	CHAN
- VENT/DRAIN	20			1	1.375		WELDED	CHAN
	1-	6-600#	FLG	SA182316	3000#			CHAN
INLET/OUTLET	2	3/4 NPT	SCR	5A182316	- 11		WELDED	Canan
VENT	1	1 NPT	SCR	5A182316	3000#			
DRAIN	1	T INT			1			
DRAIN		-						
			1					
						WEIL	DED TO SHE	IL
			^	Other -		Attached_	wnere and	how)
19. Supports: Skirt NO 20. Remarks: Manufact following items of the same state of th	urers' Partial Da he report:			name of part item	number mir's	name and identifying s	ER LIQUOR	
10110 14119		HTTM Game	THERMI	NOT 99 TO	THE SIL	F EXP. JOIN	T	
32-240 METH IN THE TUBE	ANOL PREHE	ATER WILL	III OD X	1/2" (NO)	1) TK. 13	51		
32-240 METH IN THE TUBE EXEMPT FROM	S. SHELL S	IDE DED I	K 20 (f), UCS	66a, UnA	J.L		
IN THE TUBE EXEMPT FROM DESIGN FACI	CHARPY IM	PACT PER	DER UV	111 & 12	=1			
DECTON FACT	OR FOR SMI	S SCELLON	LIK					1
DESTON 1110				TE OF SHOP	COMPLIANC	E	atruction and W	orkmanship of this
	10 - 2	CI	ERTIFICA	and that all C	details of des	sign, material, con	Struction	
DESIGN FACT	mants made	in this report a	re correct	and that an	ision 1.		. /	./
We certify that the st	ACME Code I	or Pressure Ve	ssels. Sec	NDCH 31	1995		Ilen X	ruly
vessel conform to the	ASIME ODD	1574	_expires!	CTMEERTNO	COMPAN	YSigne	ed	resentative
"U" Certificate of Au	thorization MA	NNING & L	EWIS EN	CINETACTORIO				
We certify that the stavessel conform to the "U" Certificate of Au Date 06-09-4	Name	=,		ngilototo.	DINSPECTIO	ON	TRETON	NEW JERSEY
Vessel constructed in the undersigned. In the undersigned in the unit of the u			CERTIFIC	ATE OF SHO	DAMA		at_UNION,	A The state of DIOA
Vessel constructed to	100 MATTAIC	C LEWIS	ENGINE	ERING CO.	11.21.12	and Pressure Ves	sel Inspectors a	ind the state of F
Vaccel constructed l	DyMAININITING	3 4 22:00 195	ued by Th	e National Bo	ard of Boiler	NCE COMPANI	ES	- Dati
Vesser consigned.	iolding a valid c	ommission	KEMPE	R NATIONA	T TAPOTA	wessel d	escribed in this	Manufacturers Date
Vessel constructed I I, the undersigned to ince of NEW JE	RSEYand er	mployed by	GROVE	I, IL have in	spected the	pressure vesser	e manufacturer	Manufacturers' Data has constructed thi
I, the undersigned to ince of NEW JE		otom	that	to the best o	f my knowle	dge and belief. In	5	
Report on <u>06</u> - pressure vessel in By signing this cer	-09 19_	92_, and s	tate mai.	un Division	1.		aliad concerning	g the pressure vess
Report on 66 - pressure vessel in	accordance with	h ASME Code.	Section	lavor makes	any warranty	, expressed or im	u be liable in ar	y manner for any pe
pressure vessel III	accord	the inspector n	or his emi	Dioyei makes	ospector nor	his employer sha	II De Habio	
By signing this cer	(Ilicate forms D	ata Report, Fu	rthermore.	neither the	onnected wi	th this inspection	1097: N.T	705
By signing this cer described in the M sonal injury or pro	anutacturers of	or a loss of any	y kind aris	sing from or c	Comi	nissions N.B.8	ed uncl endorsemen	nts) state, prov. and no.)
sonal injury or pro	perty ar	Samles	5,//					
5-09-9	Signed	Auth	norided Inspe	6.00	DOCUMENT OF	th this inspection hissions MB, 8 Natl E	dy topics	n VIII. Division 1 of t
8		CER	TIFICATE	OF FIELD AS	SEMBLI CO	with the requirer	nents of Sectio	n VIII. DIVISION 1 OF
<u>.</u>		- anatruction	of all par	ts of this ves	sel contorms	munity (1)		
in ify that th	e field assembl	y construction	:					
O > SOILER AI	ND PRESSURE	VESSEL CODE	avnit	res	19	 S	signed	(representative)
4 4 0 Millicate 0	ND PRESSURE	no	expii			anlul	,igi	(representative)
· · · ·	Name	(2558)	nbler that cer	rified and constru	icted field asser	110141		
- 5 5		143301		C OF FIELD	ASSEMBLY	INSPECTION	v-seel Inspecto	this Manufacturers'
1. F. C. C. T. C. C. C. T. C.		CE	RTIFICAL	E OF Tites	Board of Bo	iler and Pressure	A62261 III20001-	
Y dersigne	. Laiding a val	id commission	issued by	the National	000.2		ato in	this Manufacturers'
dersigne	d, holding a ran	id commission d employed by			h	ave compared the	statements	, not included in
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30Z	CAN SERVICE CONTRACTOR	ura vessel and	state that	t parts referre	0 10 d5 data	of my knowledg	e and belief, th	a manufacture inspe
N T T S vith the	described press	Sure vesser and	spected by	y me and tha	t to the bes	items t of my knowledg	n 1. The describ	e manufacturer has ned vessel was inspe- erning the pressure v
TONU te of st	nop inspection.	nave been ma	in accord	ance with AS	ME Code, Se	SCHOOL ALL DIVISION		
山 「 M te of si	sembled this pr	ressure vesser	0000.0	psi.		. amaracead o	r implied, conce	erning the pressure v
N I A lected	sembled this pi to a hydrostatic	test of	ar oar his	employer ma	kes any warr	anty, expressed o	shall be liable	erning the pressure v in any manner for an
· L 回 jected	certificate neith	ner the inspect	or nor ms	ore neither t	he inspector	nor his employer	stion	
T # O 19 tills	1 -144000	s' Data Report	. Furtherm	IOIG. HOILING		d with this inspec	Allon.	
- · M 1:- 1h	e Manufacturer.	3 3 -		ariging from	or connecte	U Titter		and a
G C d in th	e Manufacturer	ge or a loss of	any kind	arising from	or connecte	ommissions	tat'l. Bd. (incl. endor	n any manner for an
CO C d in th	oroperty damag	ge or a loss of	l any kind	arising from	or connecte	d with this inspec	rat'l. Bd. (incl. endor	sements) state, prov. and n

