

E-7106

FORM U-1 N JFACTURER'S DATA REPORT FOR PRESS! (ESSELS As Required by the Provisions of the ASME Code Rules, Section vill, Division 1

98663

								<u> </u>							
1. M	anufactured an	d certific	ed by	онмѕт	DE, INC.,				, 4250 HWY 30	, ST. GAI	BRIEL, LA	70776			
2 M	anufactured fo	, MEL	AMINE	CHEMIC	ALS, DOI			es of Manufa LE, LOUI							_
	cation of insta		MELAI	MINE CH	EMICALS,			ress of Purch	aser) LOUISIANA						
			SNITAL					and address)	JANCER					E2010E	
4. Ty		HORIZO foriz., vert.,				(Т.			HANGER				(Mfg's seri	530195 ar No.)	
	·					530195		.,		839				1995	
_	(0	:RN)				(Drawing No	o.)	Rev.0		(Nat'l. Bd. l	No.)			(Year Built)	
- A	OME Code Cod		Distalan	. 1	992 EDIT	., 1993 A	ADD		NONE				NO	NE	
5. A	SME Code, Sec	LION VIII,	DIVISIO	· · ·		Addenda (date			Code Case No	D .		Sį	ecial Servic	e per UG-120(d)	
	6-11 incl. to be lell (a) No. of			ingle wall	vessels, ja 3	ckets of ja			s, shell of heat exc gth (ft & in.):		or chamber 6 13'8 7/8" ¹		nber ves	sels.	
	Course	(s)	-	N	laterial	Thick	uness		Long. Joint (Cat. A)		Circum.	Joint (Cat. A, B,	& C)	Heat Treat	tment
No.	Diameter, in.	Length	(ft &in.)	Spec./G	rade or Type	Nom.	Согт.	Туре	Full, Spot, None	Eff.	Туре Б	ıll, Spot, None	Eff.	Temp.	Time
2	29 1/4"ID	6′5 5	5/16"	SAS	16-70	.375	.062	2 1	SPOT	.85	1	FULL	1.0		
1	29 1/4"ID	0′10	1/4"	SAS	16-70	.375	.062	2 5	NONE	1.0	1	FULL	1.0	1150	45 MIN
													_		
7. He	ads: (a)		(Mat1	Spec. No., Gr	ede or Type) H.	T Tirne & To	emp.		(b)		(Mat'l Spec. N	o., Grade or Type		e & Temp.	
		Thic	kness	Ra	dius .	Ettionia al		Cartari	Hemiapherical	Flat	Side to Pressure		•		
	Location (Top, Bottom, Ends)	Min.	Согт.	Crown	Knuckle	Elliptical Ratio		Conical Apex Angle	Radius	Diameter	Convex	Concave	Туре	Full, Spot, None	Eff.
(a)															
(b)														•	
	pe of jacket par, give dimen NWP 250			psi	at max. ter	_{np.} 4	01		Jacket clos		metal temp	(Describe as or		olted, describe	or sketch.
-, ,,,,	(intern	ual)	(external)				emai)		emal)				_ `		
0. lm	pact test								R UCS-66(a) & er or no and the componen		nted)				
1. Hyd	Iro., pneu., or	comb. te	st press		375		Proof	test							
	2 and 13 to be				ns.			_							
2. Tu	besheet:		240-31		_		1/4		1 9/1			0625		WELDE	
	04040		ery (Mat'l S	pec. No.)	34 1/	Dia., In. (s	ubject to	o press.)	Nom. thi	C., IN.		llow., in.		Attachment (walded i	or ported)
_	SA240- Floating (Mat'l S				34 1/4 Die.,				1 9/16" Nom. thk., in.		.0625 orr. Allow., in.			WELDED Attachment	
3. Tu	hae:	SA	249-31	6L			3/4		1,	6 BWG.		686		STRAIGHT	г
3. Tu				Grade or Typ	,		O.D., i			thk., in. or ga	suge	Number		Type (Straight or	
		•			nbers of jac				els of heat exchang	gers.				•	
4. Sh		course(s):					verali len	gth (ft & in.):						
	Course(s)				eterial	Thick			Long. Joint (Cat. A)	- F44		loint (Cat. A, B, a		Heat Treati	
No.	Diameter, in.	Length (it & in.j	Spec./G	ade or Type	Nom.	Соп.	Туре	Full, Spot, None	Eff.	Type F	ull, Spot, None	Eff.	Temp.	Time
5. He	ads: (a)		/hAnt'l	Spec No. Gr	 ede or Type) H.	T. Time & Te	P(T) A		(b)		/Mat/1 Spec. N	o., Grade or Type		e & Terro	
	_	1		·		escuerca 10	J., 19.						, nm	-	
	Location (Top,		cness .	Rec		Elliptical		Conical	Hemispherical Radius	Flat				Category A Full, Spot, None	_ Eff.
(a)	Bottom, Ends)	Min.	Corr.	Crown	Knuckie	Retio	_	Apex Angle	Naceus	Diameter	Convex	Conceve	Туре		-
(b)							+								
lf rem	ovable, bolts u	sed (des	cribe oth	er fasteni	ng)		-		•	-	-				

(Mat'l Spec. No., Grade, size, No.)

200

FORM U-1 (Back)

Hydro., pneu., or		(extemal)		(ia	ntemal) NO	(external) PER UCS-	66(<u>s) 2. 11</u>	HA 51			
Hydro pneu or							<u>. </u>	(s) impact tested]			
riyaro., prica., or	comb. tes	t press.			Proof test	•					
Nozzles, inspecti	on, and sa	fety valve op	enings:								
				Ma	terial	Nozzle T	hickness		How A	ttached	
Purpose (Inlet, Outlet, Drain, etc.)	No.	Diarneter or Size	Flange Type	Nozzle	Flange	Nom.	Corr.	Reinforcement Material	Nozzie	Flange	Location (Insp. Oper
INLET	1	6"	LWN		SA105	1.06	.062	INHERENT		FPW	SHEL
OUTLET	1	3"	LWN		SA105	.810	.062	INHERENT		FPW	SHEL
VENT	1	1/2"	CPLG	SA105		6000#	.062	INHERENT		FPW	SHEL
DRAIN	1	3/4"	CPLG	SA 105		6000#	.062	INHERENT		FPW	SHEL
PRESSURE	1	1/2"	CPLG	SA105		6000#	.062	INHERENT		FPW	SHEL
- TESSURE		1/2	CPLG	3A 103		0000#	.002	HALICICIA	-	FFW	SILL
E REMARKS)	+										
	NO		2							SHELL	WELDED
Supports: Skirt	(Yes or no	Lugs	(No.)	Legs _	O	thers	(Descr		tached		and how)
Manufacturer's ((List the name o		m number, m	fg's. name	and identify	ing number)			ANT, SULPHUR,			e report:
		ITEM #6 (9 1/4" D	EI HE Y A		EI ANGE Y	3/8" THICK EXP	ANSION JOI	NT	_
Remarks:		11 EW #0 (CIENCY 85%	<u> </u>		
					M NO. E-7		D. NO.: 78				
					. 140. E-7	- OO P.C	J. 140 /				
-										•	
				CE	RTIFICATE (OF SHOP CO	MPLIANCE				
			_	(Manufactu		OF SHOP IN	SPECTION				•
the undersigned,	holding a	valid commis	sion issued					essel inspectors an	d/or the State	or Province o	f LA
d employed by				.S.B.I. & I.					ARTFORD, C		have inspec
e pressure vesse	described	in this Man	ufacturer's l	Data Report	on <u>3</u>	<u>-2</u> .1	9 95	, and state that, to	the best of m	y knowledge	and belief,
anufacturer has	constructe	d this press	ure vessel ii	n accordanc	e with ASM	IE Code, Sed	ction VIII, D	ivision 1. By signin	g this certifica	te neither the	Inspector
s employer make	s any wai	ranty, expres	ssed or imp	lied, concer	ning the pre	ssure vesse	described	in this Manufacture	er's Data Repo	ort. Furthermo	re, neither
spector nor his	employer s	hall be liable	in any ma	nner for an	y personal i	njury or pro	perty dama	ge or a loss of any	kind arising f	rom or conne	cted with
spection.			Ω	1	111	/					
te 2-2-	95	Signed C	Hale	N).	The	non	Comn	nissions N	B9849A	LA	922
				(Authoriz	ed (paperor)			(Nat'l Bo	ard incl. endorsemen	nt, State, Province	and No.)
				CERTIFIC	TE OF FIE	LD ASSEMB	LY COMPLIA	ANCE			
		te on this re	port are cor	rect and the	nt the field a	ssembly cor	struction of	fall parts of this ve	ssel conforms	with the real	irements o
e certify that the	statemen	CO OII LIND IT	5 551								
•											
SME Code, Secti	ion VIII, Di	vision 1.			Expires				. 19		,
SME Code, Secti	ion VIII, Di	vision 1.			Expires	·			, 19		<i>,</i> -
SME Code, Secti Certificate of Au	ion VIII, Di	vision 1.			Expires	·		Signer	, 19		-
SME Code, Secti Certificate of Au	ion VIII, Di	vision 1.			Expires (Assemble			Signed	, 19	(Representativ	, - c)
SME Code, Secti Certificate of Au	ion VIII, Di	vision 1.		CERTIFIC	(Assemble	n	I V ILIODEO		, 19	(Representativ	, - c)
SME Code, Secti Certificate of Au ate	ion VIII, Div	vision 1.			(Assemble	D ASSEMB		TION			
SME Code, Secti Certificate of Au ate	ion VIII, Div	vision 1.	ssion issued		(Assemble	D ASSEMB				-	
SME Code, Secti Certificate of Au ate the undersigned and employed by	ion VIII, Divithorization	vision 1. n No Name valid commi		d by the Nat	(Assemble	D ASSEMB	i Pressure \	FION /essel inspectors an	nd/or the State	or Province o	of
SME Code, Secti Certificate of Au ate the undersigned and employed by	ion VIII, Divithorization	vision 1. n No Name valid commi		d by the Nat	(Assemble	D ASSEMB	i Pressure \	TION	nd/or the State	or Province o	of
SME Code, Secti Certificate of Au ate the undersigned and employed by	ion VIII, Divithorization	vision 1. Name valid commi	nufacturer'	by the Nat	(Assemble	LD ASSEMB	d Pressure \	FION /essel inspectors an	od/or the State of orts referred to	or Province o	ofs
SME Code, Secti Certificate of Au ate the undersigned and employed by ave compared the	, holding a	vision 1. No. Name valid commi	nufacturer'	d by the Nat s Data Repo	(Assemble ATE OF FIE cional Board ort with the certificate o	LD ASSEMB of Boiler and described pr	d Pressure \	rion /essel inspectors ar	od/or the State of orts referred to	or Province of as data item	of s ny knowled
SME Code, Section Certificate of Australia ate	, holding a	vision 1. No. Name valid commi	nnufacturer' , not incl	d by the Nat s Data Repo uded in the ssembled thi	(Assemble CATE OF FIE cional Board out with the certificate of	D ASSEMB of Boiler and described pr of shop inspe-	d Pressure \ essure vess ection, have	rion /essel Inspectors and state that particular inspected buth ASME Code, Sec.	od/or the State of orts referred to y me and to	as data item the best of n	s ny knowlec escribed ve
SME Code, Section Certificate of Australia ate	, holding a	vision 1. Name valid comminuts in this Marchas constru	nufacturer' , not incl cted and as	s Data Repo uded in the sembled thi	(Assemble CATE OF FIE cional Board ont with the certificate o	tD ASSEMB of Boiler and described pr if shop inspervessel in acc psi. By sig	d Pressure \ essure vess ection, have cordance wi	rion resel Inspectors and state that particular inspected in been inspected buth ASME Code, Secentificate neither the	of o	as data item the best of n sion 1. The de or his emplo	s ny knowlec escribed ve
SME Code, Section Certificate of Australia and Employed by the compared the compared the compared and belief, the Maras inspected and carranty, express	, holding a e statemen nufacturer d subjecte	vision 1. Name valid comminuts in this Mathematical to a hydrodied, concentrations of the concentration of the c	nufacturer' , not incl cted and as ostatic test	s Data Repo uded in the esembled thi	(Assemble CATE OF FIE cional Board out with the contificate of the pressure of the continue of	described professel in according to the professel in according the professel in this Month of the professel in the professe in the professel in the professel in the professel in the professel in the professe in the profe	essure vess ection, have cordance wi gning this c	rion /essel Inspectors and state that particular description of the ASME Code, Sector of the Code of	of of the State of of the state	e or Province of as data item the best of n sion 1. The do nor his emplo- sither the Ins	s ny knowlec escribed ve yer makes pector nor
nd employed by ave compared the nd belief, the Ma vas inspected an varranty, express	, holding a e statemen nufacturer d subjecte	vision 1. Name valid comminuts in this Mathematical to a hydrodied, concentrations of the concentration of the c	nufacturer' , not incl cted and as ostatic test	s Data Repo uded in the esembled thi	(Assemble CATE OF FIE cional Board out with the contificate of the pressure of the continue of	described professel in according to the professel in according the professel in this Month of the professel in the professe in the professel in the professel in the professel in the professel in the professe in the profe	essure vess ection, have cordance wi gning this c	rion resel Inspectors and state that particular inspected in been inspected buth ASME Code, Secentificate neither the	of of the State of of the state	e or Province of as data item the best of n sion 1. The do nor his emplo- sither the Ins	s ny knowlec escribed ver yer makes pector nor

FORM R-2 REPORT OF ALTERATION on accordance with provisions of the National Board Inspection Code 78663

I. Work performed by O	HMSTEDE, INC., ST. GABRIE			<u>-</u>	
42	250 HIGHWAY 30, ST. GABRIE	(name of alteration organiza FL. LOUISIANA 70776	tion)	(Form R)	No.)
			(address)	(P.O. No. Job No. etc.)	
2. Owner BORDEN CH	EMICAL		(name)		
DONALDSON	VILLE, LA				
3. Location of installation	BORDEN CHEMICAL		(address)		
	DONALDSONVILLE, LA		(name)		
4. Unit identification	EXCHANGER	Name of original mar	(address) nufacturer	UNKNOWN	
5 Td	(boiler, pressure vessel)				
5. Identifying nos.: Ul	NKNOWN (mfg serial no.)	(National Board No.)	(jurisdiction no.)	(other)	(year built)
6. NBIC Edition/Addenda		1998 ED		1999AD	
Original Code of Constr	action for Item	(edition) ASME/VIII/DIV I		(addenda) UNKNOWN	
_	-	(name / section / division)		(edition / addenda)	
Construction Code Used	I for Alteration Performed_	ASME/VIII		1998 ED / 1998 AD (edition / addenda)	
7. Description of work: RE	TUBED BUNDLE WITH (684)	3/4" OD 16 GA. 14'-0" LG SA7	89S31803 TUBES AND NEW 1 1 nental sheet, Form R-4, if necessary)		
PSI.			ID TUBE SEAL WELDS. HYDRO	TESTED SHELLSIDE AT	
	-				
•	tached are Manufacturer's P	artial Data Reports or Form		atic Pressure Test, if applied	*375 psi
	•	•			
·					
			_		
·					
O. Remarks: ITEM NO		e of part, item number, data report type P.O. NO.: 130109	, mfr's. name and identifying stamp)		_
9. Remarks: ITEM NO			, mfr's. name and identifying stamp)	,	
9. Remarks: ITEM NO			, mfr's. name and identifying stamp)	,	
P. Remarks: ITEM NO.			, mfr's. name and identifying stamp)	,	
). Remarks: ITEM NO			, mfr's. name and identifying stamp)	,	

Form R-2 (bæk)	,	· · · · · · · · · · · · · · · · · · ·	(Form R No.)

	DESIGN CERTIFIC	ATION		
I, ANTHONY J. BABIN	, certify that to the be	st of my knowledge and l	belief the statements i	n this report are correct
and that the Design Change described in this report	conforms to the National Board	Inspection Code.		
National Board "R" Certificate of Authorization No.		ex	xpires on 7	7/14 , 2003
Date11-7-00,	OHMSTEDE, INC., ST. GABRIEL F	PLANT Sign	ned sicking	Buch
	(name of design organization)		authori	(representative)
L DON JONES	ERTIFICATE OF DESIGN C	HANGE REVIEW	National Board of Boi	er and Pressure Vessel
Inspectors and certificate of competency issued by t		LA		and employed by
HSBI&I CO.		of	HARTFORD, CT.	
	n this sonort and state			have
reviewed the design change as described in complies with the applicable requirements of the Na By signing this certificate, neither the und the work described in this report. Furthern any personal injury, property damage or loss of any	ational Board Inspection Code. lersigned nor my employer nore, neither the undersign	makes any warrant ned nor my employer	ty, expressed or i	mplied, concerning
Date 10/4/00 . Signed .	Joseph (inspector)	Commissions N	(National Board (incl endors and jurisdiction, and no.)	SAS ements),
	CONSTRUCTION CERT	IFICATION		
I. ANTHONY J. BABIN		st of my knowledge and l	belief the statements i	n this report are correct
and that all material, construction, and workmanshi				in this report are contest
National Board "R" Certificate of Authorization No.		-		7/14 . 2003
	OHMSTEDE, INC., ST. GABRIEL F			sul
	(name of alteration organization)		(adiptorize	ed representative)
	CERTIFICATE OF INS	SPECTION		
1, Don Jones	, holding a valid Cor	nmission issued by The I	National Board of Boi	ler and Pressure Vessel
Inspectors and certificate of competency issued by the HSBI&I CO.	ne jurisdiction of of	LA HART	FORD, CT.	and employed by
inspected the work described in this report on	10/28		<u> </u>	of my knowledge and
belief this work complies with the applicable requir				,
By signing this certificate, neither the under		-	xpressed or implied	l, concerning
the work described in this report. Furtherm		•	•	
any personal injury, property damage or loss of any	,			
Date $11/8/00$, Signed S	(mspector)	Commissions (Na	utional Board (incl endorsement)	A 6 28
			,,,	

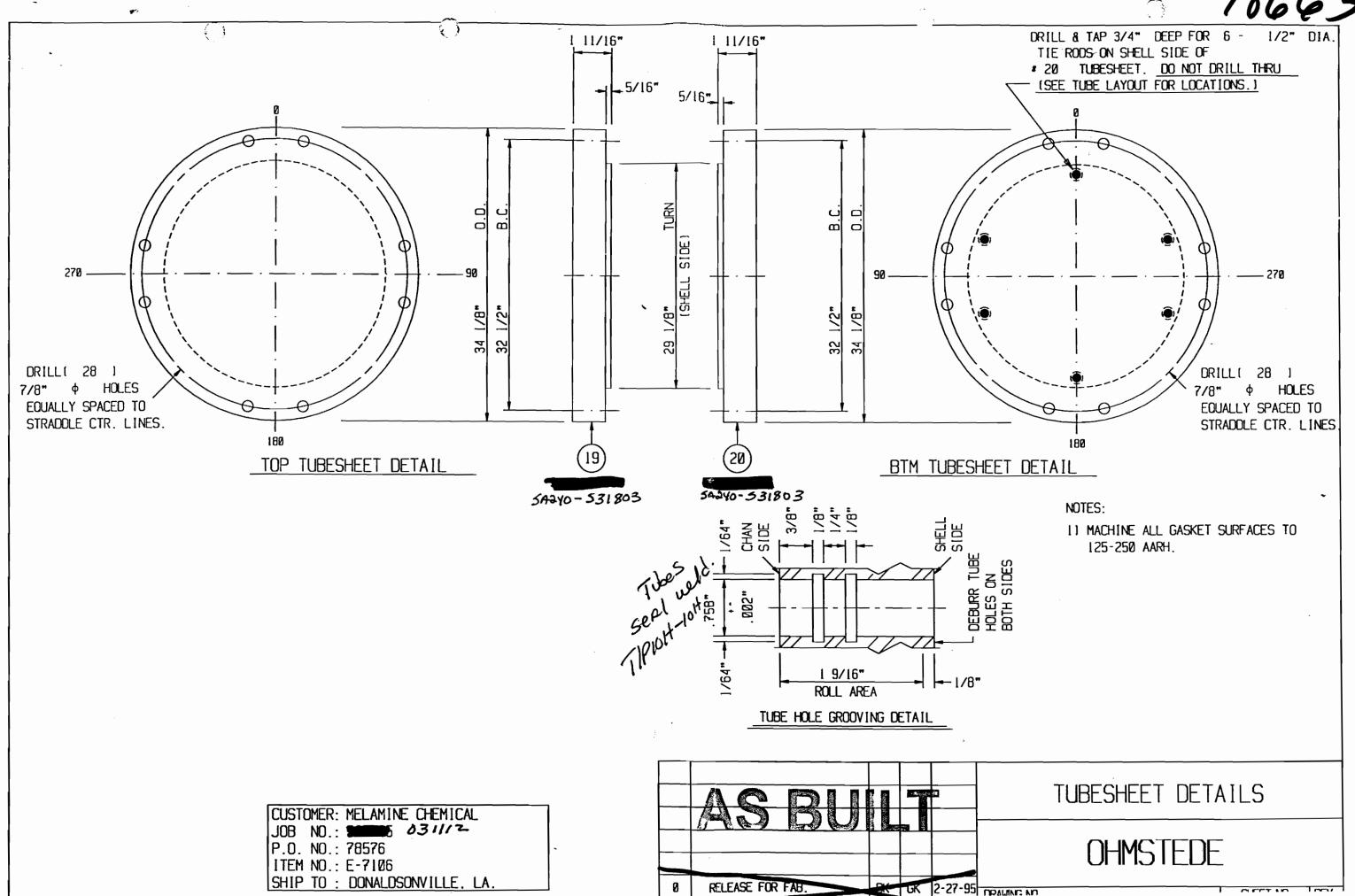
FORM U-1A MA

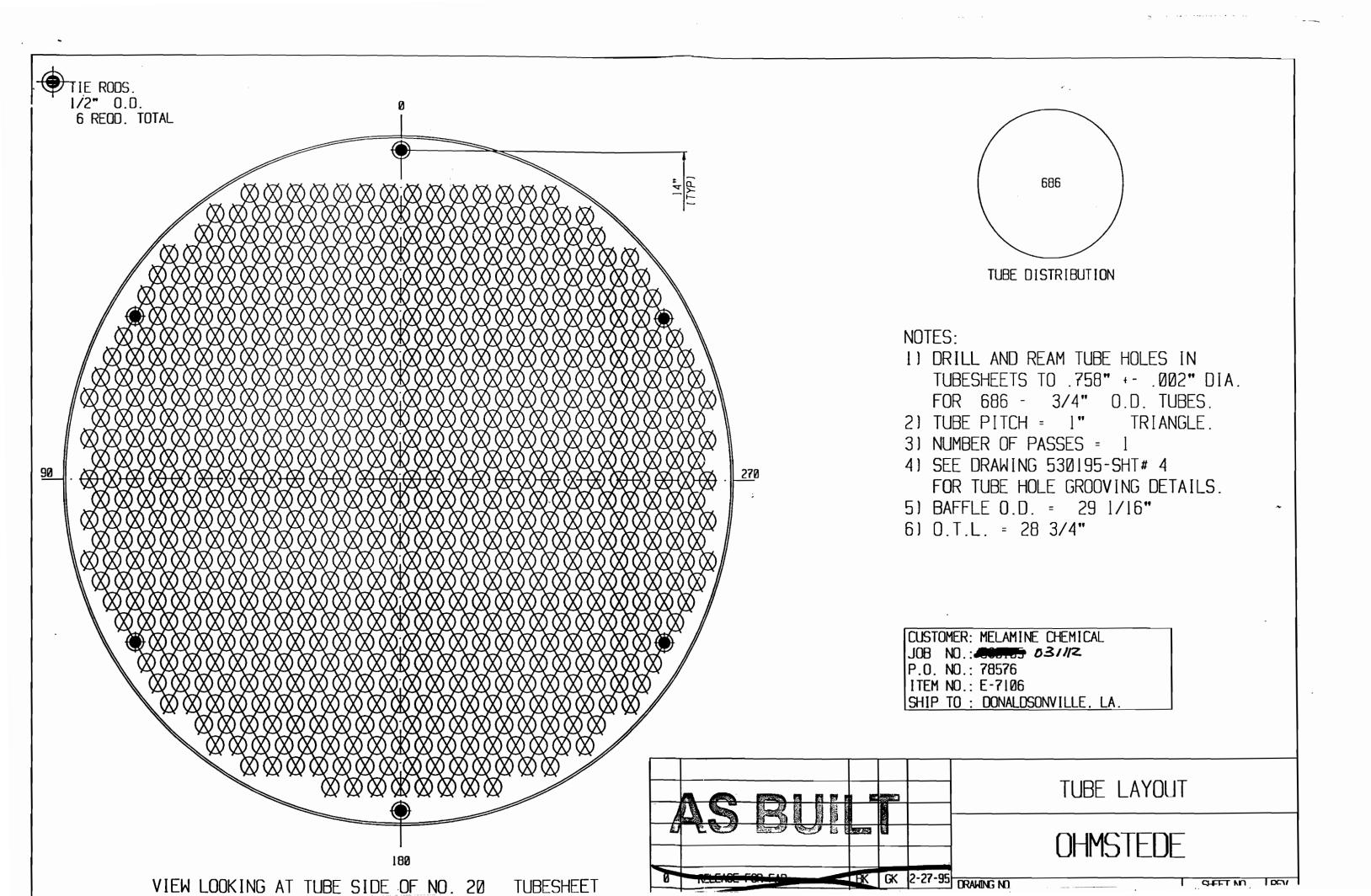
'ACTURER'S DATA REPORT FOR PRESSI (Alternative Form) ingle Chamber, Completely Shop-Fabrica (essels@nly)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

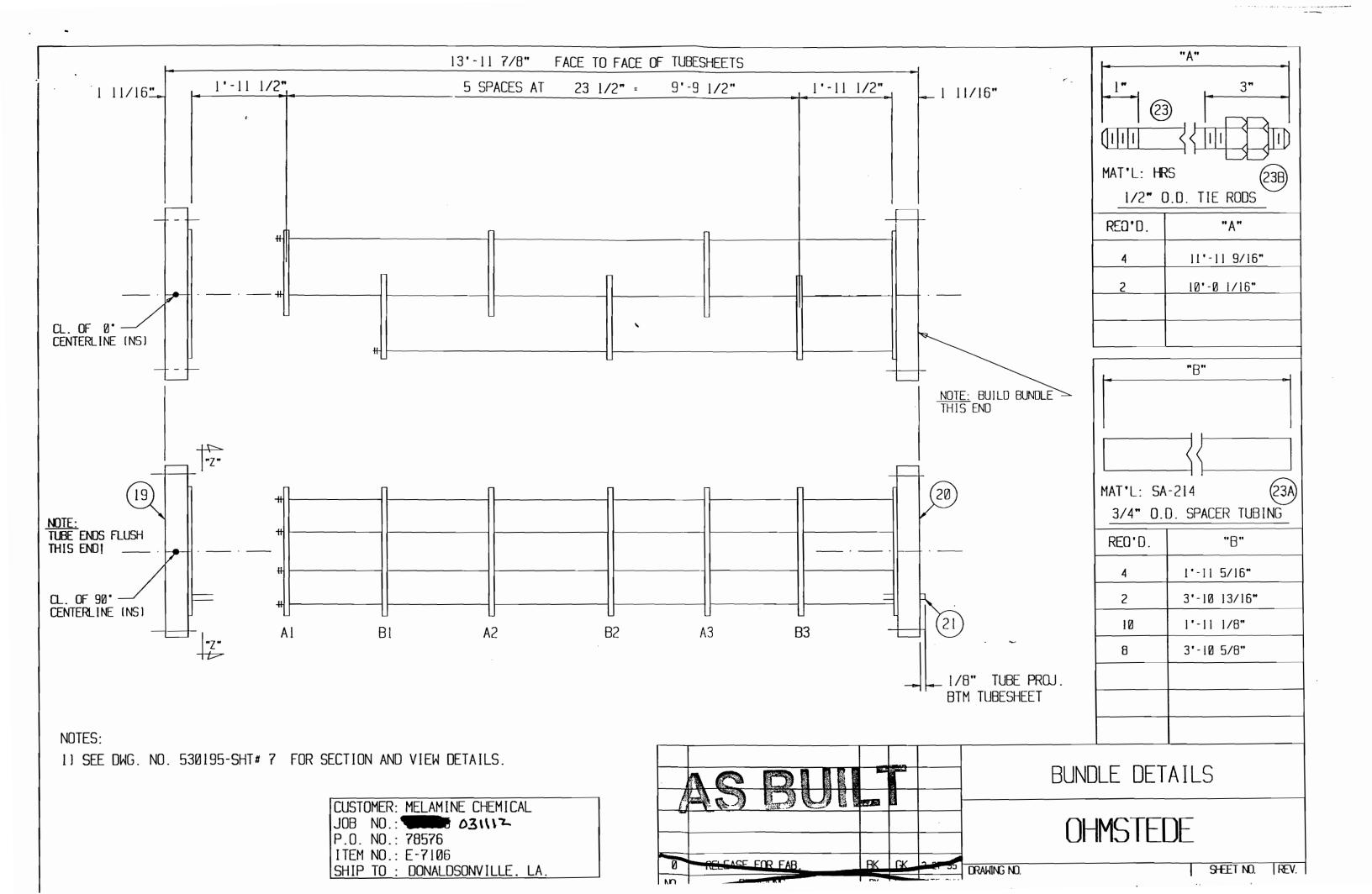
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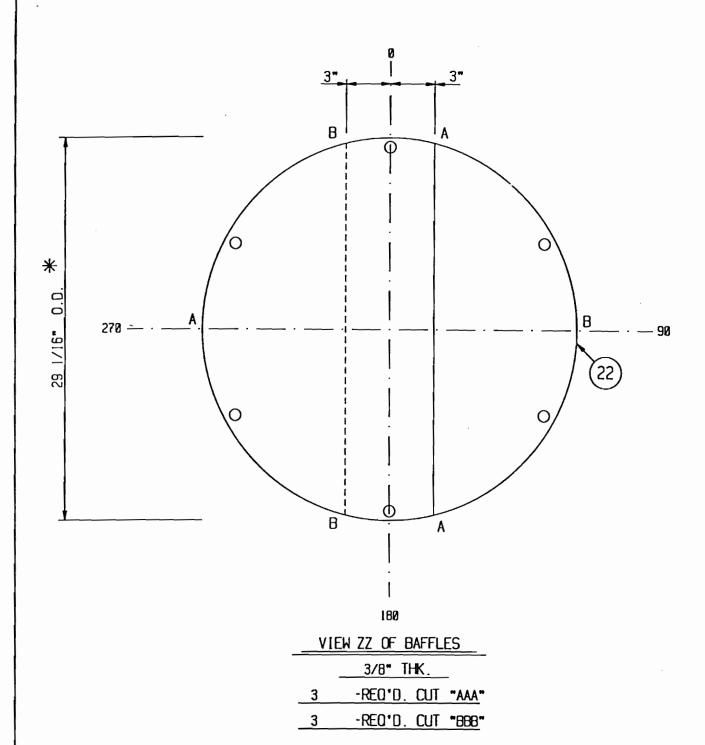
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	1 0 Trest		_

1. N	<i>M</i> anufa	ctured and	certific	∍d by <u>HIGH</u>	ILAND FABRI	CATORS, INC.			RESERVE, LO		1	A	
							•		ress of manufactur	er)		18/	/ 7
2. r	vanuta ,	ctured for	Bor	den Chemical,	Inc., Melamine	Crystal Divisio			ille, LA 70346			46	
3. L	ocatio	n of installa	ation	Borden Chen	nical Inc. Mels	amine Crystal D	•	e and address of River Rd HW	VY. 18 West, Don	aldsonville I A	70346		
			2	Borden Chen	1101, 11101, 171010	annie Crystai D	11131011, 37041	(Name and		alusonvine, Err	70340		
4. 1	Гуре:	90° redu	cing m	nitered elbow	02027	,	-		02027		81		2000
		(Hor	iz. or v	ert. tank)	(Mfgr's seria	el No.)	(CRN)		(Drawing	no.)	(Nat'l Bd. No	D.)	ear built)
					•	•	•		ASME BOILER A	ND PRESSURE			
٧	ESSEL	CODE. T	he des	ign, constructio	n, and workman	ship conform to /	ASME Rules, Se	ection VIII, Divi	sion 1		1998		
to	1			1999							Year		
			A	ddenda (Date)		_	Code (Case Nos.		Spec	ial Service per l	UG 120(d)	
6. 5	Shell:	S	A-240	Ty 316L		.375		.125	1	31/4" x 291/4"	•	4 1/8" < 24 9) 16"
•				No., Grade)	_ Non	n. Thk. (in.)	Co	rr. Allow. (in.)		m. I.D. (ft. & in.)			
7. \$	Seams:		Type 1	1	Spot	.85	-	-	Type 1		Spot	, ,	5
		Long.	Welde	ed, Dbl., R.1	T. (Spot or Full)	Eff. (%)	H.T. Temp (F)	Time (hr)	Girth (Welde	d, Dы., R.	.T. (Spot, Partia	l, No. o	Courses
		Sngi	., Lap,	Butt)					Sngl., Lap,	Butt)	or Full)		
8. H	Heads:	(a) Matl.			-			(b) Mati			-		
					(Spec No.,						pec No., Grade)		
		ocation (To ottom, End		Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to F (Convex or	
(a)	_	-							1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	-
(b)		-									-		
lf	remov	able, bolts	used (describe other f	astenings) -								
								(Ma	atl., Spec. No., Gr.,	Size, No.)			
9. N	MAWP				15			psi at max. t	emp		400		°F
M	lin. des	ign metal	temp.		20	°Fa	t15	psi. Hyd	dro., pwee , or ###	🖚. test pressure		20	psi.
10.	Nozzie:	s, inspectio	on and	safety valve ope	enings:								
	Purp			Diam.				Nom.	Reinforce	ment	How	T	-
(Inl	et, Out	et, Drain)	No.	or Size	Туре	Ma	ti.	Thk.	Matl.		Attached	Loc	ition
											-		
					 							 	
11. \$	Suppor	ts: Skirt		No L	ugs -	Legs	-	Other	-	Atta	ached		
				es or no)	(No.	•	(No.)	_	(Describe			(Whe e and	how)
12. F	Remark	s: Manufa	cturer	s Partial Data R	eports properly i	identified and sig	ned by Commis	sioned Inspect	ors have been furn	shed for the follo	wing items of th	e report:	
_													
U	l=atoot	ad in the s		1iti O			-		lentifying stamp)	I-i-t Flance on	4 20111:		
									150# SA-105 Lap ring elbow. Impac				
), UHA-5			nameter notes t	511 a 32/2 DOILE	choic located at	citas of reduc	ing croow. Impac	t exempt per oc	23-00(a), OC:5-	-00(.0):	
=	0 00(0), 01111-3	1(0)(1)	,(u)									
							IFICATE OF						
								•	al, construction, an				
	_					II, Division 1. "U	" Certificate of A			expires	2/11	, _2001	· -
	L	ate9	/7/200	00 Co. Nam	ie <u>HIGHLANI</u>	D FABRICATO (Manufa		s	igned M	Al Barres	uppo		
						•				(Reples	entative)		
1	\/	-lt	-44		IV-1-1 4 F-1-		TIFICATE OF	SHOP INSP	ECTION	D I.A			
		el constru			Highland Fab	,	· at	and Dressure \	Vessel Inspectors a	Reserve, LA	Province of		· ·
	1, 110	Louisiar		and employe		by The Hadonal			surance Company		TOVINGE OF	have inspe	ected
	the c				ufacturer's Data	Report on	9/7	, 200		that, to the best of	of my knowledge		
		•				·	ASME Code, S		sion 1. By signing				
			-		•	- ·			s Manufacturer's D	•		•	r*
	nor h	is employe	er shall	be liable in any	manner for any	personal injury	or property dama	age or a loss of	any kind arising fro	om or connected	with this inspec	tion.	
	Date	9/7	/2000	Signed	Frank	1.3%	live	Commis	ssions	NB 1211	4A LA 1383	3	
					1	(Authorized Inspe	ecteri		(Nat'l Bo	ard (incl. endors	ements) State	Prov. and Nr.	









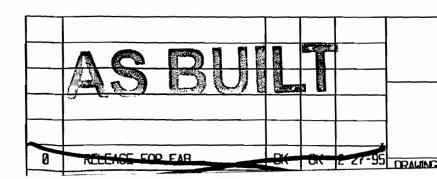
NOTES:

- 1) DRILL TUBE HOLES IN BAFFLES 25/32" DIA. & DEBURR.
- 2) DRILL TIE ROD HOLES 9/16" DIA. SEE TUBE LAYOUT FOR LOCATION.
- 31 RADIUS ALL CORNERS ON BAFFLE CUTS.
- * 4) CHECK SHELL I.D. BEFORE MACHINING BAFFLE O.D.
 - 5) MACHINE O.D. OF BAFFLES TO 250 RMS.

CUSTOMER: MELAMINE CHEMICAL JOB NO.: 03///2_ P.O. NO.: 78576

ITEM NO.: E-7106

SHIP TO : DONALDSONVILLE, LA



BAFFLE DETAILS

OHMSTEDE