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

2.	Manufactured	for Hoech	st Celane	se P.O. B	ox 428 B	ishop, Te	жав 7834	3	10	78380
3.	Location of in	stallation	Hoechst C	elanese B	ishop T	exas nd address)		7	76	14
4. ·	Type Hor	izonal	s/o	909 (Mfgr's serial No.)	No	ICRNI	S/0 909 (Drawing)	None	(Nat'l Bd No l	1990 (Year built)
			operties of all pa ip conform to A		•	•		ASME Boiler and	d Pressure Ves	sel Code. The desig
	1989	idenda (date)	No	one	·		N/A	Special service per LIG	-120(d)	
ems (ngle wall vessels,		tad vassals or i	dielle of heat av	changers			
	hell: SA5			.500			3'-6"	. I.D. (fi & in.)	19	1-11 3/4"
, ,	ieams;S	Single	, in the second	NUM TAK. (M.)	Spot	Anow. (In.)	Olam	.85		None
, J			nng (Dbł. Sngil			R.T. (Spot or Full)		Eff. (%)		H.Y. Temp. (F)
	1	None Time		Single G	th (Dbl., Sngl.)		Spot B.T. (Spot, Partial, or Full)		No. of Courses
ь н	leads: (a) Mati	27/4				(b) Mat	37/4			
_			(Spec	No. Grade)		1 (5)	· · · · · · · · · · · · · · · · · · ·	(Spec	No. Grade)	
\perp	Location (Top, Bottom, Ends)	Minimum Thickness	Corresion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
)					· · · · · · · · · · · · · · · · · · ·					
11	removable bo	alts used (deec	ibe other fasten	ings)		<u> </u>	L	<u> </u>		1
	ype of Jacket .		·		 	Proof Tes	·	Gr., Size, No.)		
. Ja	ype of Jacket . icket Closure _	N/A (Describe	as ogee & weld, bar	r, etc.)	f bar, give dime	ensions	it		If bolte	
. Ja . M	AWP17	N/A (Describe O comb. test pres	ess ogee & weld, bai psi at ma	r, etc.)	f bar, give dime	ensions	it		If bolte	
. Ja . M H: ms 1.	AWP 17 ydro., pneu., or 2 and 13 to be cubesheets:	N/A (Describe Comb. test pres	psi at mass. 255 be sections	r, etc.)	f bar, give dime	ensions°F.	Min. design met		If bolte	
. Ja . M H: ms 1.	AWP 17 ydro., pneu., or 2 and 13 to be a ubesheets: S	N/A (Describe 0 comb. test prescompleted for type SA182-F30	psi at mass. 255 be sections 04	r, etc.) 15 ax. temp5	f bar, give dime	ensions °F psi.	Min. design met	al temp. 32	If bolte	_{of at} 28 <u>5</u> ps
. Ja Hy ns 1.	AWP17 ydro., pneu., or 2 and 13 to be cubesheets:S	O (Describe) Comb. test prescribed for tui, SA182-F3(Stationary Mail (Specificating M	psi at mass. 255 be sections 04 c No . Gr.)	r, etc.) ax. temp5 42 ¹¹ Diam (in) (Subject	f bar, give dime	orsions of of of psi. 3 11/16 Nom Thk (i	Min. design met	al temp. 32 O" Corr Allow (in) 1259	If bolte	Welded (ach (Welded, Bolted) Attach
. Ja Hv Hv Tu	AWP 17 ydro., pneu., or 2 and 13 to be cubesheets: Sheets: SA	O (Describe O (Des	psi at mass. 255 be sections 04 c No . Gr.)	r, etc.) ax. temp. 5 42 ¹¹ Diam (in) (Subject	f bar, give dime	oF. psi. 3 11/16 Nom Thk (i	Min. design met	al temp. 32 O" Corr Allow (in) 1259	If bolte	Welded (ach (Welded, Bolted)
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. Ja . M Hyms 1. Tu Tu Sh	AWP17 ydro., pneu., or 2 and 13 to be c ubesheets:S shees:SA	N/A (Describe O comb. test pres completed for ty, SA182-F3(talionary Mail (Special Special	psi at mass. 255 be sections 04 c No . Gr.) c No . Gr.)	A 211 Diam (in) (Subject	on to pressure) 750 OD (in) or channels of i	of. psi. 3 11/16 Nom Thk (i	Min. design met 11 n) . 065 Thk. (in or Gauge	Corr Allow (in) 1259 Number	If bolte	Welded lach (Welded, Bolted) Attach traight ype (Straight or "U")
. Ja . M Hyms 1. Tu Tu Sh	AWP17 ydro., pneu., or 2 and 13 to be cubesheets:S ubesheets:S sheet:SA	N/A (Describe O comb. test pres completed for tul SA182-F3(talionary Mail (Spe- floating Mail (Spe- 789 Mail (Spe- 40-304 Mail (Spe- No, Graing Mail (Spe-	psi at mass. 255 be sections 04 c No . Gr.) c No . Gr.)	A 211 Diam (in) (Subject	n) .750 OD (in) or channels of /. Corr. A	of. of. psi. 3 11/16 Nom Thk (i	Min. design met 11 n) . 065 Thk. (in or Gauge	Corr Allow (in) 1259 Number	If bolte	Welded (Welded, Bolted) Attach traight ype (Straight or "U")
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. Ja Hive Mars 1. Tu Tu Sh Sea	AWP17 ydro., pneu., or 2 and 13 to be cubesheets:S sheet:SA 1-17 incl. to be cubesheet:SA 2-18 incl. to be cubesheet:SA 3-19 incl. to be cubesheet:SA	N/A (Describe O comb. test pres completed for type SA182-F3(tetionary Matt. (Spec 789 Matt. (Spec 789 Matt. (Spec 40-304 Matt. (Spec 40-304 Matt. (Spec 1 Spec 1 Spe	psi at mass. 255 be sections 04 cc No . Gr.) cc No . Gr.) psec No . Gr.)	A211 Diam (in) (Subject Girth (Subject)	(to pressure) 750 OD (in) or channels of A Corr. A Full	Nom Thk (i Nom Thk (i Nom Thk (ii Nom Thk	Min. design met ii in) . 065 Thk (in or Gauge	al temp32		Welded Attach traight ype (Straight or "U") 11 7/8"* Length (Overalliff & in) one H.* Temp. (F)
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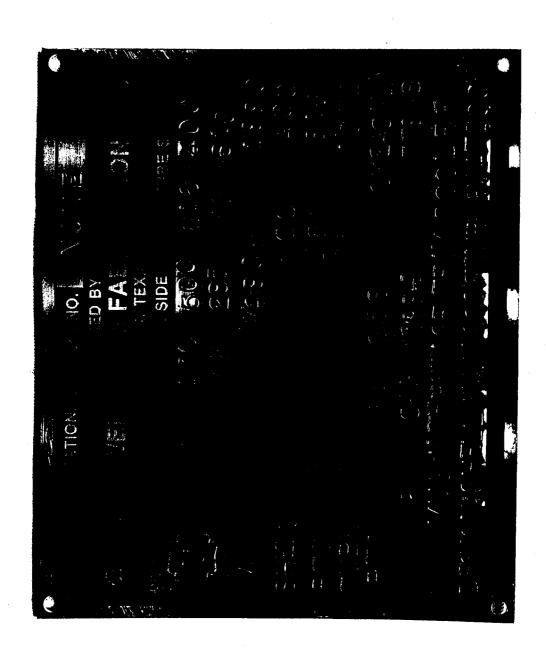
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D Water		14"150#	RFWN	SA240-304	.500	SA240-304	Welded	Channel
E Process	1	18"	Krwn	SA106-B	.500	SA516-70	Welded	Shell
G-Q Draws	11		DEIM	SA240-304	.500	SA240-304	Welded	Channel
R Vent	4.4	1"150#	RFWN	SA106-B	.437	····	Welded	Shell
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9 Supports: S	kies NO	 1.		2 Saddlas		01-11-1-1		
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certify that the	stateme	nts made in t	his report i	are correct and that all det	ails of design,	material, construction,	and workmanship	of this vessel co
	.000	rressure Vess	iels, Section	VIII, Division 1.				
Certificate of A	uthoriza	tion No	8938	expires	Sept. 6	19 92	I	_
10_6-29-	70	Co. name	<u>0'Neal</u>	's Welding & Fab	rication	Signed	7711	
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FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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			hst Celane				ехав 700		0_	711	
3. Loc	ation of in	stallation	Hoechst C	elanese j	Bishop T Name a	exas nd address)			76	17	
4. Тур	• Hor	izonal		909 (Mfgr's serial No.)		One ICANI	S/0 909 (Drawing)	None	(Nat'l Bri No I	1990 (Year built)	
								ASME Boiler an	nd Pressure Ve	ssel Code. The design	
		na workmansi	nip conform to A	ISME Hules, S	ection VIII, Di	vision 1	1909	Yra	1		
•	1989 **	denda (date)	No	One Code Case No			N/A	Special service per UG	i-120(d)		
ms 6-11	incl. to be o	completed for si	ingle wall vessels,	jackets of jacke	eted vessels, or .	shells of heat e	changers				
5. Shell	: <u>SA51</u>	6-70 Mail (Spec No. 6	Gradel	. 500 Nom Thk. (in	.) Core	125 Allow. (in.)	3'-6'	t n. l.D. (ft & in.)		(Length (Overall)(ft & in.)	
7. Seam	15: <u>S</u>	ingle		Spc				.85		None	
	4.		ony (Dbl., Sngl.)		ı	R.Y. (Spot or Full)		Eff. (%)		H.T. Temp. (F)	
		Ione Time		Single	rth (Dbl., Sngl.)		Spot R.T.	Spot, Partial, or Full)		No. of Courses	
3. Head	s: (a) Mati,	N/A	(See	No., Grade)		(b) Ma	ti. <u>N/A</u>	·6	No . Grade)		
	etion (Top.	Minimum	Corrosion	Crown	Knuckie	Elliptical	Conical	Hemispherical	No. Grade)	Side to Pressure	
Bott	Iom, Ends)	Thickness	Allowance	Radius	Radius	Ratio	Apex Angle	Radius	Diameter	(Convex or Concave)	
(b)										ļ	
If rem	ovable bo	its used (deep	ribe other fasten	:\	<u> </u>	L	L	<u> </u>			
		N/A (Describe	as ogee & weld, ba	r, etc.)	f bar, give dime	ensions				d, describe or sketc	
Hydro.		(Describe	psi at ma	r, etc.)					If bolto		
Hydro. Ims 12 and	., pneu., or o d 13 to be co heets:	(Describe	psi at mass. 255 be sections 04	r, etc.)	00	°F. psi.	Min. design met		If bolte		
Hydro. ms 12 and	., pneu., or of 13 to be co	(Describe Comb. test pres completed for tui SA182-F3(ationary Mail (Sp	psi at mass. 255 be sections 04 lec No , Gr)	42 ¹¹	t to pressure)	°F. psi.	Min. design met	al temp. <u>32</u>	If bolte	_{oF at _} 28 <u>5ps</u> , Welded	
Hydro. <i>ms 12 and</i> Tubesi	., pneu., or of d 13 to be co	(Describe O comb. test pres completed for tui SA182-F3(alionary Matl (Special Control of the control of th	psi at mass. 255 be sections 04 pec No , Gr)	42 ¹¹ Diem (in.) (Subjec	t to pressure)	9 F. psi. 3 11/16 Nom Thk (Min. design met	al temp. 32 O'' Corr Allow (in) 1259	If bolte	Welded (Welded Bolted) Attach	
Hydro. ms 12 and Tubesi Tubes:	pneu., or d 13 to be co	(Describe	psi at ma ss. 255 be sections 04 nec No , Gr)	42 ¹¹ Diam (in) (Subjection)	t to pressure)	9 psi. 3 11/16 Nom Thk (Min. design met	al temp. 32 O'' Corr Allow (in) 1259	If bolte	Welded (Welded Bolted)	
Hydro. ms 12 and Tubesi Tubes:	n, pneu., or d 13 to be co	(Describe (Special Completed for in the Completed for i	psi at mass. 255 be sections 04 bec No . Gr) pec No . Gr)	A 211 Diam (in) (Subjective description (in) (Subjective descri	t to pressure) in.) .750 O 0 (in.) s or channels of I	Nom Thk (c	Min. design met	Off Corr Allow (in) Corr Allow (in) 1259 Number		Welded Attach traight ype (Straight or "U")	
Hydro. ms 12 and Tubesi Tubes: ms 14-17 Shell:	n pneu., or of d 13 to be conhects: Standard SA2	(Describe O comb. test pres completed for tui SA182-F3(alionary Mail (Special Special Spe	psi at mass. 255 be sections 04 bec No . Gr) pec No . Gr)	A 211 Diam (in) (Subjection (in)	t to pressure) in.) .750 O 0 (in.) s or channels of /	oF. psi. 3 11/16 Nom Thk (i	Min. design met	Off Corr Allow (in) Corr Allow (in) 1259 Number		Welded (Attach traight ype (Straight or "U")	
Hydro. ms 12 and Tubesi Tubes:	n pneu., or of d 13 to be conhects: Standard SA2	(Describe O comb. test pres completed for tui SA182-F3(ationary Matt (Special Total (Special Matt (Speci	psi at mass. 255 be sections 04 bec No . Gr) pec No . Gr)	A 211 Diam (in) (Subjective description (in) (Subjective descri	t to pressure) .750 00 (in) s or channels of t .0 Cert. At	Nom Thk (c	Min. design met	Off Corr Allow (in) Corr Allow (in) 1259 Number		Welded Attach traight ype (Straight or "U")	
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Hydro. ms 12 and Tubesi Tubes: Tubes: Shell: Seams:	n pneu., or de 13 to be conhects: SA incl. to be conserved SA24	(Describe (Describe (Describe (Describe (Describe (Describe (Describe (Describe (Special Special Speci	psi at mass. 255 be sections 04 lec No . Gr) c No . Gr) pec No . Gr) iner chambers of j	A211 Diam (in) (Subjective Vessels 1.00011 Nom This (in.)	t to pressure) 750 00 (in) s or channels of the correct Air (Dbl., Sngl.)	Nom Thk (in Nom Th	Min. design met	al temp. 32 O'' Corr Allow (in) 1259 Number		Welded Attach traight ype (Straight or "U") 11 7/8!* Length (Overall)(ft & in.)	
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Hydro. ms 12 and Tubes: Tubes: Seams: Localid Bottom	incl. to be c SA24 Sir Non (a) Matl. on (Top. b. Ends)	(Describe	psi at mass. 255 be sections 04 bec No . Gr.) pec No . Gr.) pec No . Gr.) pec No . Gr.) pec No . Gr.) cong (Dbl. Sngl I (Spec. No . Corrosion Allowance	A211 Diam (in) (Subjection (S	t to pressure) 100 100 100 100 100 100 100 1	Nom Thk (control of the state o	Min. design met	al temp. 32 Off Corr Allow (in) Corr Allow (in) 1259 Number ID (fi & in) 100 Eff.(x) pot, Partial, or Fulli (Spec No. Grain Radius PC S Size. No.)	State	Welded Welded Attach traight ype (Straight or "U") 11 7/8!* Length (Overall)(ft & in.) One HY Temp. (F) 1 No of Courses Side to Pressure (Convex or Concave)	
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18. Nozzles, Inc	spection	arid Safety Vi	sive Openir	ngs				
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1 da	_ 5		RFWN	SA106-B	.500	SA516-70	Welded	Shell
a rio e e	T_{1}	18"		SA240-304	.500	SA240-304	Welded	Channel
Water		14"150#	RFWN	SA106-B	.500	SA516-70	Welded	Shell
E Process	1	18"]	SA240-304	.500	SA240-304	Welded	Channel
G-Q Draws	11	4"150#	RFWN	SA106-B	.437		Welded	Shell
R Vent	1	1"150#	RFWN	SA106-B	.250	· · · · · · · · · · · · · · · · · · ·	Welded	Shell
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19 Supports:	Shirt No	QLugs		2 Saddles	L	Shell-Welded		<u> </u>
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20 Remarks, Ma	nulaci	ter's Passas C) D					
items of the c		Event	from d	ts properly identified and a	igned by Com	missioned Inspectors h	ave been furnished	for the following
	eport _		trom T	mpact tests per l	JCS DO-A	ome and identifying stamp)		
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				gned for full vac	Oum of	מחס		
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	•			CERTIFICATE OF SHO	OP COMPLIA	NCE		
Ne certify that the	stateme	ents made in	this report	are correct and that all det	ails of design,	material, construction,	and workmanship	of this vessel cor
OTH TO THE ASME	Code to	r Pressure Ves	sels, Sectio	n VIII, Division 1.				
'U" Certificate of	Authoriz	ration No. $-\frac{1}{2}$	8938	expires	Sept. 6	19. 92		,
Date 6-29-	70	Co. name	0'Nea	l's Welding & Fab	rication	Signed	77/1	To
				(Manufacturer)		· / /~	(Representative)	
essel constructed t	_{ру} <u>О' И</u>	<u>eal's We</u>	lding d	CERTIFICATE OF SHOE Fabrication, In	C. F	M 624 Robstow		
, the undersigned,	holging	a valid com	mission iss	ued by the National Board	of Boiler and	Pressure Vessel Inspect		
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Men 2	1 1991	named for an		Thurty or property degrees	مو دودولو	kind arising from or co	nnected with this	Inspection.
		-digned	السيدير	[Authorized Inspector]	Comr	nissions	Board, State, Province and	A4- 1
							r sharo, State, Province and	NO.1
	/		CEF	RTIFICATE OF FIELD ASS	EMBLY COM	PLIANCE		
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nd Pressure Vessel G	zode.							
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