### UNTIL SUPER SEDEL NON DISCRETIONARY

DRIGINATOS: B. BOEDDEKER		DATE	: <u>2/8/89</u>
	<b>V.</b>	1 Nam V A Stell land M	***************************************
PRESSURE	VESSEL DESIGN &	INSPECTION SHEET	
Name of Vessel: Extractio	n Columns		
Contents: She	llside:	Tubeside:	
ype of Construction: FU	SION WELDED, ASME	CODE, STAMPED 1989 NON	N DISCRETIONA .
)rawing No. : - P&G - Fabricat	or Precision St		· ASSERTIONAL .
Material Specifications:  Shell Side: SA-240-304L  Tube, Jacket  or Coil Side:		P&G No. Plant Dept. Sherman Sherman Sherman Sherman Sherman Sherman	Eng.Div.No. 10872-1 10872-2 10872-3 10872-4 10872-5 10872-6
		Field Tests & In	<u>spections</u>
Shell Max. All. Press Max. All. Temp.		5 Yr. Internal	
Tubes. Max. All. Press. Jacket, Max. All. Temp. or Coil		Yr. Internal Yr. External	
NOTE: For all heat exchar the event of a char	ngers, the Fressur nge from the origi	re Vessel Group is to be inal operating condition	e notified in
COMMENTS:			
REVISION DATE:	SIGNATURE:	F.V	. NO

## FORM U.1A MARUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop-Febricated Vessels Only) As Resulted by the Provisions of the ASME Code Rules, Section VIII, Division 1

E.g. No. 22-C-14

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	Manufestures f						Name and subjects of p				
3.	Location of inv	L newalls	he Folo	er Coff	BR COM	pany. 400	West F.	<u>M. 1417.</u>	Sherman.	TX 7509	
4.	Type Verti	CA)	83	5-1 thru	8985 <u>-6</u>	(CRM)	43899-	O many Man I	2429 thru	2434 L 84. Rai	1989 (Mar to in)
<b>5</b> .	The chamissi VEGSIL CODE	and physic The design	igal proper pu construct	tiss of all tion, and wa	perte méé Akmanahip	n the requirer	nants of mate SME Aules, Bec	rial specificat tion VIII, Divi	lans of the A sign 1 1986	Edition	AND PRESSURE
	te _Addend	um A-8	7			O.	A Code Name		Minar	Bestel Gerrin per U	<b>0</b> 110(€)
			•		. 25		0	21-11-1/		_	-7-15/16"
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9.	Heads: (a) Mat	1,SAZ4	0 304	Hora Dia.	(Drade)		(D) Metti			es Ha. Codel	
	Leaston files Bottom, Endel	Minimen Thickness			Crown Regiva	Kritickle Redus	Eiliptical Ratio	Conisal Assax Angle	Hemispherical Redica	Flar Diameter	Sizia to Proseure (Convex or Concave)
101	Jon	.313			<i>y</i> =	- 4	2:1	**	*-	# <b>=</b>	Concave
(4)		.250			***	# #	***	25*		# C	
	if removable, be	b used (es	earlise other	r fastenings).	<del>,</del>			later Later Me .	Dir. Bra. Worl		
	MAWP 150	1				Pel •	t mex. temp	400			0
ν,	Min. design mati		-20	o# a1 .	150	-	0. 956 64-50 01 36 k	njų, test pieseui	• 241		pal.
10.	Nasiles, Interes		fety valve o	pánine)							<del></del>
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Se	e U.A	·				To the Day September 1			· · · · · · · · · · · · · · · · · · ·		
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12,	Ramarke: Man	ulsclurar's USTOMEX	Partial Data C. to in	Reports pro	ate va	ve between	ed by commission transis	tion and	both head	and sup	of following Items of poly bolts.
	Transiti	ممshel	11 .250	mm this	kness.	3 K. B.	SAZAO	304) N	me plate	per Code	Case 2051.
	Support	rings 3	3/8 pla	te SAZ	10_30	2. Custor	per to in		ety valve	s. Vess	el hydro-
	statical	ly test	ted in	horizon	lal po	sition at	241 psi	Sea U.			
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	form to the ASh	de Code 16	it Freigure V	remais, Bacti me <u>Prec</u>	ision	Stainless	Inc.	Sioned &	ough to	277700	100-
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	here inspected the component described in this Manufacturer's Date Reserving										
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1	mu kaswiestes	and bailef.	the Manul	lacturer her	egnetruch	est Appa bleaserid	vessel in ecco	A milw sanger	BME Code, Bar araba ta a bress	ition VIII, DA	rision 1. By signing
l	my knowledge	and bailef,	the Manul	lacturer her har his ambi	egnetruch over maki	n sua malleura eg apir blessrii	, expressor of	implied, sons	erning the press	Tile Assembly class	orlibed in this Manu-
l	my knowledge	end beilef, wither the Report, Fu	the Manul Inspector i Promienti	lecturer has nor his ampl naither the	eanstruct oyar maki Inapaator	nor his empicy n any warrenty nor his empicy	, expressor of	implied, sons	erning the press	Tile Assembly class	rision 1. By plening orlibed in this Manu- or property demaga or 1/1/5"

				RER'S DATA						
1. Manufactured and sertific	d by Precisi	on S	tainle	ss. Inc.	501 N.	Belo	rest,	Springfield	1, MO 65	802
2. Manufastured for Pro					(Name o	7 10 10 10 10 1	NEW CONTRACT OF P	F		
3. Location of installation						,	•	harman. T	75090	
4. Tvos Ventical	SEPA, HOT		5-1 thru		i n	438	99-D	2429 thru 24		1989
Data Report	Puroce	No.	Dia. or Siza	Type	Mat. M	emerks	Non. Thk.	Reif.	How Attached	Location
1tem #10	Acitator	1	12"	Pipe	SA240	304L	.375		. Weld	- LOVER TO THE
TISH TISH	Soare	3	3"	Pipe	SA312	304L	Sch 40	West .	We]d_	
	Trans	2	311	Pine	SA312	304	Sch 40		We)d	
	Lev sudict	1.1.	211	Pine	SA312	M	Sch 40.	==	, Me)d	
	Spare	1.	7"	Pipe	SA312	3041	Sch 40	**	Weld	
	Source	2	<b>411</b>	Pipe	<u> </u>	M	Sch 40.	***	Weld	
	Inlet		<u> Dil</u>	Pipe	.SA240	304	Sch 40	54240 1/4	' Weld	
	_Out.let	_1	6"	Pipe	24540	3011	Sch 40.		. wid	
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cons 1 - 5 - 59 co. nems Precision Stainless, Inc. stance Daylo

6-8-89

### in accordance with provisions of the National Board Inspection Code

1. Work performed by	Paul Mueller Compa	ny (name of alteration orga	nivotion)		
			inzation)	(Form R No.)	
1600 W. Phelps, PO E	Box 828, Springfield, M	(address)	· · · · · · · · · · · · · · · · · · ·		
2. Owner FOLGERS	COFFEE COMPANY	, ,			
rondino	002122 00.22.	(name)			
300 F.M. HWY 1417	WEST SHERMAN TX				
		(address)			
<ol><li>Location of installation</li></ol>	on <u>SAME AS ABO</u>	VE (name)			
		(address)			
<ol> <li>Unit identification *</li> </ol>	SEE REMARKS (boiler, pressure vessel)	Name of original ma	inufacturer	*SEE REMARKS	
5. Identifying nos.: *	SEE REMARKS	*SEE REMARKS		235290-7 THRU -12	*SEE REMARKS
0 NDIO E 111 - 14 Lilian	(mfg serial no.)	(National Board No.)	(jurisdiction		(year built)
6. NBIC Edition/Adden	da: 1998 A98		Originai	Construction Code: *SEE REMA	
7. Description of work:	DATH MITELIED CO	ΜΟΛΝΎ ΤΟ ΡΕΜΟΊΕ Ε	TO SMITTING OT	incl. edi ACEY LINE BLIND ON THE L	tion and addenda)
	(use supple	mental sheet, Form R-4, if necess	sary)		
				D, 12" A-105 LAP JOINT FLAN	
SCH 40 304/304L VA	ANSTONE NOZZLE A	SSEMBLY. HYDROSTA	ATICALLY T	EST VESSEL AFTER REWORK	AT 256 PSI.
				Pressure test, if applied	1 256 P
_					
8. Replacement Parts.	Attached are Manufact	turer's Partial Data Report wing items of this report:	s or Form R-3	s's properly	
	completed for the folio	wing items of this report.			
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	4				**************************************
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	(name of p	art, item number, data report type,	, mfr's. name and	identifying stamp)	
9. Remarks: CUSTON	, .				WERE
9. Remarks: CUSTON	MER REQUESTS ALT	ERATIONS TO BE MAD	E UPON SIX	CONE ASSEMBLIES, WHICH	WERE VUFACTURER
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#### TIONAL BOARD INSPECTION C E

Form R-2 (back)	
	(Form R No.)
DESIGN CERTIFICATION  I. Aunt D. Jope John, certify that to the best of my knowledge and belief the statements in this and that the Design Change described in this report conforms to the National Board Inspection Code.	report are correct
National Board "R" Certificate of Authorization No. 2957 expires on OCT, 27  Date 11/5/99, 19 99 Paul Mueller Company Signed Rusul 1  (name of design organization) (authorization)	20 01 D. Consulative)
CERTIFICATE OF DESIGN CHANGE REVIEW  I Frank   Nolding a valid Commission issued by The National Board of Boiler and Prinspectors and certificate of competency issued by the jurisdiction of   Nissouvi   a    reviewed the design change as described in this report and state that to the best of my knowledge and belief such a complies with the applicable requirements of the National Board Inspection Code.  By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, con the work described in this report. Furthermore neither the undersigned nor my employer shall be liable in any mannany personal injury, property damage or loss of any kind arising from or connected with this inspection.  Date   -5   19   9   Signed   Manual Commissions   No   No    (National Board (incl. en and jurisdiction, and no.)	nd employed by have change cerning her for
CONSTRUCTION CERTIFICATION  I, Russell D. Cycles Construction, and workmanship on this Alteration conforms to the National Board Inspection Construction.	eport are correct
National Board "R" Certificate of Authorization No. 2957 expires on OCT, 27	20 01
Date // 5 , 19 99 Paul Mueller Company Signed Runsle T (name of Alteration organization)	d representative)
CERTIFICATE OF INSPECTION	··
Frank Humak , holding a valid Commission issued by The National Board of Boiler and Pres	employed by have lowledge and rning for

R29601.1

# NON DISCRETIONARY UNTIL SUPER SEDED

