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

1. 1	Manufactured ar	nd certified b	y Tex	as Metal I	abricatio	n Co., A	Trinity	y indust			OOLD Ka			Iousto	n, TX 7	7270			
2. Manufactured for THE M.W. KELLOGG CO., HOUSTON, TEXAS (PHILLIPS SUMIKA POLYPROPYLENE CO.) (Name and address of Purchaser)																			
3. L	Location of insta	llation _	PASA	DENA ,TI	EXAS				(142110	and aux		TG IG 361	, .						
4. Type: Vertical Heat Exchanger (Tank, separator, jkt. vessel, heat exh.,								,								1995 ear built)			
	ASME Code, Se		_	Editio	on and Adde	nda (date)					Case No.		· -			rvice pe	r UG-120(d)		
	ns 6 - 11 incl. to Shell (a) No. of			gle wall vesse	ols, jackets o	of jacketed v	essels, s		at exchan all length		• • •	f multi-c -7 3/4		r vessel	s.				
	Cor	urse(s)			Material Thicknes				Long Joint (Cat. A)				Circum, Joint (Cat. A, B & C)				Heat Trea	atment	
No	1		. & in.)				Nom.					Eff.				Temp.	Time		
1	52"	10'-	0"	SA-516Gr.70)	1/2"	1/16	1			85%	1	S	pot	85%			
2		9' - 8			-516Gr.70		1/2"	1/16			pot	85%	1		pot	85%			
3	52"	3'-2'	7/8"	SA	516Gr.70)	1/2"	1/16		S	pot	85%	1	S	pot	85%			
7. F	Heads: (a) _		at'l Spec	. No Grade	or Type) H.T	Time & To	emp		(b) -		(Mat'l S	pec. No	o Grad	de or Tvr	pe) H.TTi	me & Te			
	Location (Top, Thickness			ec. No., Grade or Type) H.TTime & To			Conical				Flat			Side to Pressure		Category		Α .	
	Bottom, Ends)	Min.	Соп.	Crown	Knuckle	Ratio	_	Angle	Rad	dius	Diameter		nvex	Conc		e Full,	Spot, None	Eff.	
(a)																			
(b)				_					_										
	•	229 nternal) NO, CHA	(exte	mal) IMPACT		(inte	mai) PER UC)		Min. design		emp.	;	30	°Fat	302	psi.	
	Hydro., pneu., o	~	•			Pro	of test												
	tems 12 and 13 to be completed for tube sections. 2. Tubesheet: SA -266 - 2					52"	52"			4 1/4"			1/8"			Welded			
12. Tubesheet: SA -266 - 2 Stationary (Mat'l Spec. No)					Dia., in. (subject to press.)											achment (welded or bolted)			
Floating (Mat'l Spec. No.) Dia., in. 13.Tubes: SA214 ERW 1 1/4"							Nom. thi	c., in.	.110"	Corr. Allow., in.			8 <u>78</u>			stachment Straight			
	Mat'l 9	Spec. No., G	rada or T	īme.	0	.D., in.							Numb	or.		Type	(Straight or		
14									m. thk., i	-	ge		Numb	01		.,,,,	(U)	
	ns 14 - 18 incl. to Shell (a) No. of		ted for in				channels	of heat ex		s .	•	0 3/4		4' <u>-</u> 4 :	3/4"			U)	
	ns 14 - 18 incl. to Shell (a) No. of		ted for in				channels	of heat ex	xchanger all length	s. (ft & in.):	•		<u>* &1</u>	4 ' - 4 :	3/4" Joint (Cat.			U)	
	ns 14 - 18 incl. to Shell (a) No. of Cou	course(s):	TWO	ner chamber	s of jacketed	vessels or		of heat ex (b) Over	xchanger all length	s. (ft & in.):	<u>6' -</u>	Cat A)	° &1	4' - 4 :		A, B &			
14.	ns 14 - 18 incl. to Shell (a) No. of Cou	course(s):	TWO	ner chambers	of jacketed	ype		(b) Over	all length	s. (ft & in.):	: <u>6' -</u>	Cat. A) None	° &1	4' - 4 :	Joint (Cat.	A, B &	C) Heat Tr	eatment	
14. No.	ns 14 - 18 incl. to Shell (a) No. of Cou Diameter, in.	course(s): urse(s) Length (ft. &	TWO	ner chambers	Material	ype		(b) Over Thickne	kchanger all length ess Corr.	s. (ft & in.):	: <u>6' -</u> ong Joint (C	Cat. A) None	* <u>&1</u>	4' - 4 :	Joint (Cat. ull, Spot, N	A, B &	C) Heat Tr	eatment	
No. 2	ns 14 - 18 incl. to Shell (a) No. of Cou Diameter, in.	urse(s) Length (ft. 8	TWO	Spec.	Material /Grade or Ty a-516Gr.70	ype	7	(b) Over Thickne	kchanger all length ess Corr.	s. (ft & in.):	eng Joint (C Full, Spot, Spo	None	Eff. 85%	4' - 4 : Circum, Type Fi	Joint (Cat. ull, Spot, N Spot	A, B & some it	C) Heat Tr Eff. Temp.	eatment	
No. 2	ns 14 - 18 incl. to Shell (a) No. of Cot Diarneter, in. 52" Heads: (a)	course(s): urse(s) Length (ft. 8 8' - 5 9/	TWO k in.) 16"	ner chambers	Material /Grade or Ty -516Gr.70	ype)	7 9mp	(b) Oven Thicknetelom.	all length ess Corr. 1/16"	s. (ft & in.):	eng Joint (C Full, Spot, Spo	Cat. A) None t	Eff. 85%	Circum, Type Fi	Joint (Cat. ull, Spot, N Spot	A, B & some it	C) Heat Tr off. Temp.	eatment Time	
14. S	ns 14 - 18 incl. to Shell (a) No. of Cot Diarneter, in.	course(s): urse(s) Length (ft. 8 8' - 5 9/	TWO	Spec.	Material /Grade or Ty -516Gr.70 or Type) H.T. Radius	ype)Time & Te	7	(b) Over Thickne	cchanger all length ess Corr. 1/16**	s. (ft & in.):	eng Joint (C Full, Spot, Spo	None t	Eff. 85%	Circum, Type Fi	Joint (Cat. ull, Spot, N Spot	A, B & stone i 8:	C) Heat Tr Eff. Temp.	eatment Time	
14. No. 2	ns 14 - 18 incl. to Shell (a) No. of Cot Diameter, in. 52" Heads: (a) Location (Top,	course(s): urse(s) Length (ft. & 8' - 5 9/	TWO k in.) 16" arl Speckness	Spec. SA	Material /Grade or Ty -516Gr.70 or Type) H.T. Radius	ype)Time & Te	7	of heat ex (b) Over Thicknesson.	cchanger all length ess Corr. 1/16**	s. (ft & in.): Lo Type 1	eng Joint (C Full, Spot, Spo (Mat'l S	None t	Eff. 85%	Circum, Type Fi	Joint (Cat. ull, Spot, N Spot	A, B & stone i 8:	C) Heat Tr ff. Temp. 5% —	eatment Time	
14. S	ns 14 - 18 incl. to Shell (a) No. of Cot Diarneter, in. 52" Heads: (a) Location (Top, Bottom, Ends)	urse(s): Length (ft. 8 8' - 5 9/	ted for in TWO in in.) 16" at'l Speckness Corr.	Spec. SA	Material /Grade or Ty -516Gr.70 or Type) H.T. Radius	ype)Time & Te	7	of heat expension of heat expe	cchanger all length ess Corr. 1/16**	s. (ft & in.): Lo Type 1	eng Joint (C Full, Spot, Spo (Mat'l S	Dat. A) None t	Eff. 85%	Circum, Type Fi	Joint (Cat. ull, Spot, N Spot	A, B & stone i 8:	C) Heat Tr ff. Temp. 5% —— mp Category / , Spot, None	eatment Time	

RR 1026.10

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

16. MAWP	30:	5	7.5 p	si at max. temp.	302		_ °F N	/lin. design	metal temp3	<u>0</u> %Fa	302	psi.
	(intern	ai)	(external)		(internal)	(external)						
17. Impact test	NO,	CHARF	Y IMPACT	EST EXEMP		CS-66(b) or no and the com						
18. Hydro., pned		_b	ress. 473	(II	Proof test		ponent(s) in	paci lesion	J)			
,			valve openings:		PIOOI LESI							
Purpose (inlet,		Diameter			Mater	ial	Alemaie :	Thickness	Deinforcest	How At		Lassias
Outlet, Drain, et			Flange Type	Non			Nom.		Reinforcement	Nozzle		Location
					Nozzie Flange			Corr.	Material	t range		(Insp.Open)
Inlet	1	24"	CL300WN			SA105	.688"	1/16"	Not Required	Welded	Welded	End
Outlet	1	24"	CL300WN			SA105	.688"	1/16"	SA-516Gr.70	Welded	Welded	
Outlet	1	3"	CL300WN			SA105	.300"	1/16"	Not Required	Welded	Welded	End
Inlet/outlet		10"	CL150WN			SA105	.500"	1/16"	SA-516Gr.70	Welded	Welded	
Handhole	1	12"	CL300WN		SMLS	SA105	.500"	1/16"	SA-516Gr.70	Welded	Welded	
Handhole	1	6"	CL150LW1			SA105	7/8"	1/16"	Not Required		Welded	
misc.	4	1"	CL300LW1	N			9/16"	1/16"	Not Required		Welded	<u> </u>
20. Supports: S	kirt _		Lugs	4	Legs	Othe	ers		Att	ached	Side We	elded
		(Yes or N	•	(No.)		(No.)		(Descrit	•		(Where and	l How)
21. Manufacture	r's Part	ial Data Re	ports properly ide	ntified and signed by	y Commissi	oned inspectors ha	ave been fun	nished for t	he following items of	the report:		
(List the nan	ne of pa	rt, item nu	mber, mfg's. name	and identifying num	nber)							
22. Remarks: F	XPA	N.JOIN	Γ. (2) F&F HI	D 66"O.D. X	52"I.D.	X 7/16" MIN	I. THK. V	V/ 1 1/2	" I.C.R. & 1" O	.C.R1 1/2	"S.F.@ FI	.G.
			(2) 1 001 111				.,					
DO #6	014 0	2D1 C2	10.01	TEN # 1_41_500	07	_		-				
<u>P.O.</u> # 6	<u> </u>	<u> 2D1-C2</u>	10-01, 11	EM # 1-41-500	07							
						FICATE OF S				1		
						details of design	n, material,	construct	ion, and workman	ship of this ve	essel confor	n to
the ASME C	ode fo	r Pressure		on Vill, Division 1,	,			0.00	6	//	- ·	
U Certificate	of Aut	horization	No. <u>1</u>	844			Expires	3/30			97 /	_
				••					\mathcal{V} .	1. //	11	~
Date 8/1	0/95		Name Texas	s Metal Fabrica	ation Co	A Trinity Ind	lustries C	0.	Signed / C/	My MA	$\mathcal{G}_{\wedge }$	
Duto <u>0/1</u>	0,,,0	_			(Manufa					Represe	ntative)	
						CATE OF SH	OP INSPI	ECTION				
I the undersion	ed ho	lding a vali	id commission is						rsand the State or	Province of	ブ	>
and employed				20405	INS.				of Hav⊆		have ins	pected
	•			turer's Data Repo			95	and state	that, to the best o			
						•			igning this certifica			
									rer's Data Report.			
	•				-		/		arising from or cor			
nor his employ	er sna	ii de iladie	in any mapher	for any personal i	injury or pr	openy damagex	DI ALIOSS OF	any kiria	ansing irom or cor	nected with	ilis irispectic	т.
Date 8-//	_94	5 6	-nod (14)		1 h tu	191/19/	/ Commissio	ne	TX 14	145		
Date O	- 1	3(gned <u>U//</u>	(Authorized Ins	norder)	~~ /	0011111115510		it'i Board incl. ende	moment Ct	ato Province	and No)
				_ <u>` </u>	<u> </u>			<u> </u>		Jisemeni, Su	ALE, FIOVINCE	and No.)
				CERTIFICA	ATE OF F	IELD ASSEM	BLY COM	/IPLIAN	CE			
We certify that	the sta	atements	on this reportare	correct and that t	the field ass	sembly construct	tionofall pa	rtsof this	vessel conforms w	ith the require	ements of AS	SME
Code, Section						•	•				7	
U Certificate o			No.			Expires				. 19		
										_ ,	_	
Date		Nan	16				Sign	ed				
		_ '''		(Ass	embler)				(Represe	ntative)		
						ELD ASSEMB	LY INSPI	ECTION				
1.		olding a v	alid commission	-				/essel ins	pectors and the S	ate or Provin	ce of _	
and employed	•	statement	s in this Manufa	cturer's Data Rep	ort with the	described pres	sure vessel	_ of and state	that parts referre	d to as data i	tems	
			n	ot included in the	certificate	of shop inspectio	n, have be	en inspec	ted by me and to	he best of m	y knowledge	•
and belief, the	Manu	facturer h							ode, Section VIII, I		_	
			to a hydrostatic		•				Inspector nor his e			
			•						re, neither the Ins		•	•
1 '									ted with this inspec		p 7 - 0	
	,				J	•	•					
Date		Signe	d			Commi	ecione					

(Nat'l Board incl. endorsement, State, Province and No.)

(Authorized Inspector)

