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

			70 1	equired by	the From	3,0113 0	i uio A	JINE GOOD	, itu	100, 0001	011 4	111, 514	131011 1				
1. Mai	nufactured an	d certified	by Brow	vn Fintube Co	mpany, LP 1	2602 F.M.	529, Hou										
2. Mai	nufactured for	Hanove	er Compa	ny , 20602 81	st Street, Br	oken Arow	OK , 740	* NATION OF THE PARTY	Addres	ss of Manufactu	rer)						
w 20.000							4)	Name and Addre	ess of P	urchaser)			***************************************	***************************************			
3. Loc	ation of Instal	llation L	Jnknown					/Name	and Ad	ddroce)	700 DV			-			_
4. Typ	e. Hori-	zontal		Heat Excha	anger		06086-05	Paramatana M	allu Au	NA		Soo	Remarks	0	17692)	2006
7. 136		., or sphere)	(Tank s	eperator, jkt. vess			(Mfg's seri	and the state of t		(CRN)			wing No.)		t'l. Bd.		(Year Built)
5. ASI	ME Code, Se	ction VIII,	Div. 1	Edi	tion 2004			NA					NA	1			
			1.0		d Addenda (date			ode Case No.					cial Service p		d)		
Items	6-11 Incl. to b	e comple	eted for si	ngle wall vess	els, jackets o	of jacketed	vessels,	shell of heat	excha	angers, or c	hamb	er of mult	ti-chamber	vessels.			
6. She	ll (a) No. of	course(s)		Two	(2)	(l	o) Overall	length (ft &	in.):				29'- 9	1/2"			
100000	Cours	e(s)		Mater	rial	Thickr	1000	Long	loint	(Cat. A)		Circum	Joint (Cat.	A B&C		Heat Trea	atmont
No.	Diameter, in.		(ft & in.)			Nom.	Corr.	Туре		ull, Spot, Non	e Fff	Тур			a Fff		Time
1	10.750" 27'- 8 5/8"			Spec./Grade or Type SA-333 Gr. 6			0.0625"	NA NA	1.,	NA N				Full, Spot, None 1 */ Full 10		NA NA	NA
2	10.750"	3 5		SA-333			0.0625"	NA		NA	NA	B&C		/ Full	100	NA	NA
					-												
7 Hos	ids: (a)			NA / NA			(b)		-			NΔ	/NA		-		
7.1166	us. (a)	(N	lat'l Spec. No	o., Grade or Type)		emp	(0)			(Mat'i S	Spec. N		Type) H.T	Time & Ten	np		
Location (Top,		Thickness		Radius		Eliptical Conical		al Hemisp	Hemispherical			Side to P	ressure	Ca		tagory A	
В	ottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex A	Angle Ra	dius	us Diameter		Convex	Concave	е Туре		Full, Spot, None E	
(a)	NA	NA	NA	NA	NA	NA	N/	A NA	4	NA		NA	NA	NA		NA	NA
(b)									.,,								
If rem	ovable, bolts	used (des	scribe othe	er fastening)			-			NA /	NA						
	9.			3/					(Ma	at'l Spec. No., G		ize, No.)			-		
8. Typ	e of jacket			NA NA	١		J	acket closur	e				NA	١			
14.6												(Descr	ribe as ogee 8				
If ba	ar, give dimer	isions	****				N.	Α					I1	bolted, c	lescri	be or ske	tch.
9. MA	WP 14	40	NA	psi at m	ax. temp.	130		NA °F	N	/lin. design i	metal	temp.	-50	°F at		1440	psi.
	(inter	nal)	(external)		÷	(internal)	(6	external)					-00		-	1440	
10. lm	pact test No	o, on all m	naterial pe	er UG-20 (f).													
11 H	dro., pneu .,o	r-oomb to	et nroce		4075		licate yes or	no and the com	ponent(of test		d)						
	12 and 13 to			the coetions	1875	PSI			JI IESI	·			N	IA			
	besheet:	ne compi	SA-516 (20.000		4.0	000"		n	.0625*			\Mo	lded	
		Sta	tionary (Mat		Dia.	, in (subject to			thk., in.			Allow., in.		Attachn	-	elded or bolt	led)
		N/				NA		NA				NA				NA	
40 T			Spec. No.)			a., in.		Nom. thk			(Corr. Allow.,	in.		Att	achment	
13. Tu	Des:		1-214 ER			0.750" O.D., in.		Non	0.0				85		_	U	
Items	14 - 18 incl. to			inner chambe			or channe			in. or gauge ders			Numb	er		Type (Straig	int or U)
	ell (a) No. of				NA			Overall lengt						NA			
			T	Mater		Thister			Lates	(O-1 A)		0'					
Course(s) No. Diameter, in. Length (ft & in.)		Material Spec./Grade or Type		Nom. Corr.			Long. Joint (Cat. A) Type Full, Spot,				Joint (Cat. A, B & C		T				
NA	NA	Lengui	100	Spec./Grad N/		NA NA	NA	NA NA		NA	NA	Type NA		Spot, None NA	NA .	Temp.	Time
14/4	147		^	14/		100	IIA	ino	+	IAU	INA	INA		N/A	IVA	IVA	INA
						1											
15 11-	odo: (a)			NA / NA			n. v					NA	/ NA		I		
10. HE	ads: (a)	(M	at'l Spec. No	o., Grade or Type)	H.T Time & T	emp	(b)			(Mat'l S	Spec. N		r Type) H.T	Time & Ter	mp_		16-11-1
Location (Top.			Thickness		Radius		Eliptical Conical		Hemispherical			Side to Pressure				atagory A	
	ottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex A	Angle Rad	dius	Diameter	(Convex	Concave	Туре	Fu	ıll, Spot, N	one Eff
(a)	NA	NA	NA	NA	NA	NA	NA.	NA NA	١	NA		NA	NA	NA		NA	NA
(b)																	
f remo	vable, bolts	used (des	cribe othe	er fastening)						NΔ							

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

16. MAWP	1440 (interna	THE PERSON NAMED IN COLUMN	NA (osi at max. temp). 130 (intern		°F M	in. design	metal temp.	-50 °F	at	1440 psi.
				gs. F. No. on all	dinieca:	ials per UG-20 (f).						
				3		ndicate yes or no and the	component(s)	impact tested	i)			
18. Hydro., pneu	.,or -60	emb. test pre	ess	1	875 PSI		Proof test		A second control of the second control of th	NA		-
19. Nozzles, insp	ection	n, and safet	y valve ope	nings:						_		
Purpose (Inlet,		Diameter	Flange		Materi	22.22		hickness	Reinforcement	How A	Location	
Outlet, Drain, etc.	No.	or Size	Туре	Nozzle	е	Flange	Nom.	corr.	Material	Nozzle	Flange	(Insp. Open.)
Inlet/Outlet	2	8"-600#	RFWN	SA-420-W	VPL6	SA-350 LF2	0.500"	0.0625*	Self	NA	Welded	To Tee
									- 1) F 1353 - 10	ļ	ļ	
										-	-	
							-			-		
							-	-	161	 	 	
0. Supports: Sk	irt		Lugs	NA Le	egs NA	Others	(0) (Attached	<u> </u>	01-11-0-14	
o. Supports. Or		No (es or No.)	Luga	NA Le	egs NA			Brackets escribe)	Allacited	10	Shell & Mo (Where and H	
Surface Per Exc	hang	er: 1000.2	Sq. Ft. F	ull radiograph or	n shellside bu	420 WPL6. * UT- utt welds capable of BAE PT tube to	f radiograpl	ny.	lds			
Drawing No. 06	086-0	5-1 C,P,	N,GA									
					CERTIFIC	ATE OF SHOP CO	OMPLIANC	E				
U Certificate o		orization No	o	tion VIII, Division	116 Brown Fintul	634 be Company, LP ufacturer)		Exp	ires November Signed R	E. H.	20 sentitive)	106 ~
					CERTIFIC	ATE OF SHOP IN	SPECTION					
I, the undersig	ned, t	nolding a va	lid commiss	sion issued by T	he National	Board of Boiler and	Pressure \		pectors and the State	e or Province	e o <u>f</u> 7	ΓX
and employed				HSB (1 10	of	,	Hartford, CT.		inspected	
				facturer's Data		1-19		1	state that, to the bes			
employer mak	es an	y warranty,	expressed in any man	or implied, conc ner for any pers	terning the prosonal injury of Authorized Inspec	ressure vessel description of the control of the co	or a loss of Co	s Manufact any kind a ommission	signing this certificaturer's Data Report. rising from or conness (Nat'l Board incl.	Furthermore cted with thi	e, neither the s Inspection	e Inspector
Mo cortify the	the	tatamanta a	n this ross						is vessel conforms v	with the reco	iromonto of	ACME
Code, Section U Certificate of	VIII, I	Division 1.		t are correct arr	u mai me nei	id assembly consu	uction of all	Exp		vitir trie requ	ilements of	ASIVIE
Date		Nam	e						Signed			
					(Man	ufacturer)				(Repre	sentitive)	
				CER	RTIFICATE O	F FIELD ASSEME	BLY COMPI	LIANCE			2 = 30	
I, the undersig		nolding a va	lid commiss	sion issued by T	he National	Board of Boiler and	d Pressure \ of	essel Insp	pectors and the State	e or Province	e of	
		statements	in this Man	ufacturer's Data	Report with	the described pres	sure vessel	and state	that the parts refere	d to as the d	ata items	
			, not incl	uded in the cert	tificate of sho	p inspection, have	been inspe	cted by me	and by the best of	my knowled	ge	
and belief, the was inspected									e, Section VIII, divisi ctor nor his employe			essel
			personal in				rising from o		e, neither the Inspected with this inspections		employer sh	all
1		3111			(Authorized Inspe	ector)			(Nat'l Board incl.	endorsement, S	State, Province	and No.)