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

										••••••										
1.	Manufacture	d and c	ertified by	/		ELLETT INI	OUSTRIES L	TD. 1	1575 K	INGS	SWAY AV	ENUE	PORT COQU	ITLAM	BRITIS	H COLU	MBIA V3	C 4E5 C	ANAĐA	
2.	Manufactured	d for	Geneva N	Vitrogen	LLC - 1165	i North 160	0 West, Vine	yard, l	Utah 8	34057	(Name a 7 USA	ind adi	dress of Manu	facture	it)					
3.	Location of in						1600 West,			(Nan	ne and a	ddress	of Purchaser	)						<del>~~~</del>
1	Туре				-			, ,,	,,		(Name	and ad	•							
٦.	Type Horizontal (Horizontal, vertical, or sphere)							(Tani	Heat Exchanger (Tank, separator, jkt. vessel, heat exch., etc.)							43890 (Manufacturer's serial number)				
		<del></del>	965-1 Rev.B 71						9				2008							
5.	ASME Code,		(Drawing number) 2007 Edilion					(National Board number) none					(Year built)							
Iten 6.	ns 6 - 11 incl. to Shell: (a) Nu	o be co imber c	mpleted for	 or single s)	wall vesse	Edition and els, jackets Three	Addenda (da of jacketed v	ate)] /essels	s, she		heat exch Overall le	anger	de Case numb s, or chamber	er) · of mult	 lichamb	[S or vessel 19' - 1			UG-120	(d)]
F	Cour	se(s)				Material		_	Thic	knes	s	Long	. Joint (Cat. A	).	Circu	m. Joint		B. & C)	Heat T	reatment
No	o. Diameter Length				Spec/Grade or Type					Co	іт. Тур		II, Spot, None	Eff.	-	Full, S			Temp.	Time
1	22" O.D.	22" O.D. 8' - 0"		SA-240-304/			/L		3/16*	.062	25" 1.		Spot	0.85	1		Spot	0.85	-	
1	22" O.D.	6'	- 11 7/8"			SA-240-304	/L		3/16*	.062	25" 1	$\perp$	Spot	0.85	1	1 Spot 0.85 -				
<u> </u>	See Line 21	<u></u>		Щ.		<del>*</del>			-					<u> </u>	1	<u> </u>	Spot	0.85	•	_
7.	Heads: (a)					·					(b)			~~~~	*******	-				
										·····	I spec. number, grade or type) (H.T time & ter						.)			
	Bottom, E	` `		Corr			Elliptical Ratio		Conical Apex Angle		Hemispherical Radius		Flat Diameter	Side to f				Category A		1 54
(a)	-		-	-	-	-	- 1000	1.,,,,	-	<del>"</del>	- Ivaidi		Diameter	COII	VEX C	Concave	Type	rus, op	or none	Eff.
(b)	•		1 -	-	-	-	-	1	•	-	-			-			-	<del></del>	<del></del>	
f re	novable, bolts	used (	describe (	other fas	tening)		<del></del>	<del></del>					<u>-</u> -	I			<u> </u>			<u> </u>
	Type of jacket f bar, give din		ıs		-	·					Jacket		c. number, gra			as ogee				or sketch.
9.	MAWP 75	psig *		-		at max.	temp. 2	00°F					Min. design	metal t	emp.	-20		at at	75 ps	
10. 1	(Int	ernal)		(Exter	nal)	 No impac	(Inte t test require	emal)	LIHA-5		External)	JE-RS	·		· -			emperat	· · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	- Hydro., pneu.		mh tost	neacous		(Indicate y	es or no and	the co	ompoi			·····	d			***************************************		ompetat	_	<del>-</del>
	19010., pileu. 3 12 and 13 to	•		•		98 psig	Proc	of test	_				<del></del>				<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>			
2.	ubesheet SA	-				<del></del>		?" Fin.	· · ·				1/2" -/		0.06	<del></del>		1	Velded	
_		120	ationary (	material	spec. no.)	] [ 	Diameter (su	ubject	to pre	:55.)]	(No	minal	thickness)		(Corr. a	llow.)	· [Atta	chment (	welded o -	r bolted)]
3. 1	[Floatir ubes		erial spec 23 R6070		(Ann.)	(Díar	neter) 3/4'	н		(Nom	ninal thicl	,	.049") A/W **	Corr. al	•	 37		(Attacl	iment) Straight	
	(1	Materia	spec. no	., grade	or type)		(O.D.	.)			(Nob	ninal th	nickness)			nber)			raight or	U)]
	: 14 - 18 incl. to Shell: (a) Nu		mpleted fo f course(s		chambers (	of jacketed Two	vessels or cl	hannel			exchange erall leng					3' - 7	1/4"			
	Cours	e(s)	<del></del>	T		Material		T	Thick	ness		Long.	Joint (Cat. A)	1	Circur	n. Joint (		, & C)	Heat Tr	eatment
٧a.	Diameter	Diameter Length			Spec./Grade or Type				Nom.	Con		· · · · · · · · · · · · · · · · · · ·		Eff. Type Full, Sp					Time	
1	22" O.D.			\-240-304/L				.0625	5" 1 <sup>-</sup>		Spot	0.85	1	S	ool	0.85				
1	22" O.D.			<u> </u>	SA-240-304/L				1/4"	.0625* 1		-	Spot	0.85	.85 1 S <sub>I</sub>		pot	0.85	-	-
-			•	<u>L</u>		-			<u> </u>	-	<u> </u>	<u></u>		-	-	<u></u>	*	] -	<u> </u>	•
5. ł	leads:(a)					VL (H.T. —					(b)					40-304/L	<u> </u>	<u></u>		
	1 = = *** ***		•				T time and			-			(Material s				lype) (H.	~~~~		0.)
-	ļ		Thick	ness Corr.	Rad Crown						•	mispherical Flat		Side to P				Cate		
a)	Bottom, Ends)  Left End		0.1875		-	RISUCKIE	2:1	whex	Apex Angle		readiu	Radius Diame		Conv		oncave.	Туре	Full, Spot, Nane		Eff.
b)	Right End		0.1875		-	-	2:1		-	+			-	-		XXX		-		<del>  </del>
	ovable, bolts t		i		ening)			3-B8 C	CI.2. 3	1. /4"-1:	ONC x 8	1/4" In	studs, 48 pc	c/w !		i	nd S Stil	washore		
	,	-,-					077130	V-00 C	J1.Z, U	J-T - }	OIAO Y O	na iñ	, 51495, 40 PC	5, WW	JM-194	o auts a	เน จ.จัป	wasners		

(Material spec. number, grade, size, number)

## Form U-1 (Back)

16. MAWP 165 psio **			<b></b>	at may tamp	FORM O-1 (Dack		Nin de	usian motal tanan	70°E	nt d	INC		
16. MAWP 165 psig ** (Internal)			FV ernal)	· · · · · · · · · · · · · · · · · · ·		550.°F	IVAN. OE	sign metal temp.	-20°F	at	65 psig / FV .		
17. Impact test		{⊏X::		(Internal) (External) No impact test required per UHA-51(d)(1)(a), UNF-65. at test temperature of									
18. Hydro., pneu., or cor		•	e	[Indicate yes or no and 215 psig Proof		act tested		•					
19. Nozzies, inspection, a	nd sa	·		1	<del></del>	· · · · · · · · · · · · · · · · · · ·			F				
Purpose		Diameter	Flange		erial	<del></del>	hickness	Reinforcement		ttached	Location		
(Intet, Outlet, Drain, etc.)	<del> </del>	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	ļ	(Insp. Open.)		
Water Inlet/Outlet	2	8*		SA-312-TP304/L Smls	SA-182-F304/L	0.322*	0.0625"	SA-240-304/L	welded		-		
Gas Inlet	1	8"	·	SA-312-TP304/L Smls	SA-182-F304/L	0.322*	0.0625"	SA-240-304/L	welded	welded	•		
Gas Outlet	1	8"		SA-312-TP304/L Smls	SA-182-F304/L	0.322°	0.0625*	SA-240-304/L	welded	welded	-		
Drain/Pressure Indicator	5	1/2"	CPLG	-	SA-182-F304/L	3000#	0.0625			welded	-		
Temperature Indicator	2	3/4"	CPLG	-	SA-182-F304/L	3000#	0.0625"	<del>-</del>	-	welded	-		
·		-	-	- '	*	<u> </u>	-	-	-	-			
*	•	- :	-	•	•	<u> </u>	- 1	-	<u> </u>	-	-		
20. Supports: Skirt	No		Lugs	- Legs	- Others		2 Saddles	Attached		Welded	to shell		
(Yes or no) (Number) (Describe) (Where and how)  1. Manufacturer's Partial Data Reports properly identified and signed by Commissioned inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):  Bellow Exp. Joint, c/w stub ends, item 101, manufactured by Badger Industries, model no. 22-8LP-W5, mfg's S/N: 24096-A001. U-2A & U-4 attached.													
				**				5005					
22. Remarks * 9. MAWP:											<del></del>		
The Code required pres													
operating conditions and													
OWNER/USER per UG	125.	No inspecti	on opening	required per UG-46(a).	22" O.D. Cooler Conde	nser. Item	No.: E-610	), (size = 22" od x 24' - 1	0 1/2" app	rox. over	3ll)		
We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.  U Certificate of Authorization Number 2901 Expires 2008.12.30  Date 2008.7.31 Name ELLETT INDUSTRIES LTD. Signed (Representative)  CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of BC and employed by British Columbia Safety Authority (BCSA) of British Columbia have inspected the pressure vessel described in this Manufacturer's Data Report on 2008.7.31 , and state that, to the best of my knowledge and belief, the Manufacturer's Data Report on 2008.7.31 , and state that, to the best of my knowledge and belief, the Manufacturer's Data Report on inspector or his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his her employer shall be liable in any manner for any personal injury or property damage to a logs of any kind arising from or connected with this inspection.  Date 2008.7.31 Signed Commissions N.B. 13124 A, N / BC# 82 [National Board (Incl. endorsements), State, Province, and Number]  CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE  We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number Expires  Oate Name (Representative)													
of of and state that parts refer inspected by me and to the with the ASME BOLLER And the hydrostatic test of implied, concerning the parts.	red to he be AND I	and em	ems owledge ar VESSEL (	d by the National Board , ha id belief, the Manufactu CODE, Section VIII, Divi	ive compared the state rer has constructed an sion1. The described v By signing this certifica a Report, Furthermore	ments in t d assemblessel was te neither the	his Manufa , not ed this pre inspected the Inspect	icturer's Data Report will included in the certificat sure vessel in accorda and subjected to a elor nor his employer mar nor his/her employer	h the des e of shop nce	inspection	n, have been		
shall be liable in andy ma			sonat injury	or property damage or	·	•	r connecte	d with this inspection.			1		
Date	Sig	ned			Commi	ssions					1		

[National Board (incl. endorsements), State, Province, and Number]

(Authorized Inspector)