## 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. N	/lanufactured a	nd cert	ified by	Bilton	Welding a	nd Ma	nufactu	ring Ltd.,	5815 -	- 37th Stree	t, Innis	fail, A	AB T4G	1S8				
2. N	Manufactured fo	or DPI	H Engine	eering In	c., 480 - 3	6th Av	⁄e. S.E.,	Calgary	, AB T	Name and add 2G 1W4			icturer)					
3. L	ocation of insta	allation	AltaGa	as, 1700	, 355 - 4th	Ave 5	SW, Cal	gary, AB	T2P 0	and address o J1 LSD: P	rincess	Gas	Plant					
4. T	(Name and address)  1. Type: Horizontal CO2 Still Column Vent Drum 14171 "  (Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.)																	
_		98.2 CRN)			В		38-05 R ing No.)	2 •		(	Nat'l Rd	No.1				20 (Year	06	
5. A	SME Code, Se		III, Div.	1 2004	Edition, 2	005 A	ddenda											
Items	s 6–11 incl. to b Shell (a) No.	e com	pleted f	or single	e wall ves	sels,	enda (dat iackets	of jacke				at exc	changers				per UG-120(d) chamber ve	
	Course(s)				Material			ness	Long. Joint (Cat. A)				Circun	n. Joint (Cat	Joint (Cat. A, B, & C)		<del>-  </del>	
No.	Diameter, in.				Spec./Grade or Type				Туре		Spot, None Eff.		Туре		ull, Spot, None   E			Time
1	72	10'-0"		SA-5	16-70N		0.375"	1/8"	1	Full	0.7		1	Full	.	0.7	None	$\longrightarrow$
																-		
		546 70h					,				516 70	NI.	اا		1	•		
7. F	leads: (a) <u>SA-</u>	107-010 )	N Mat'l Spec	. No., Gra	de or Type) (	н.т. —	Time & To	emp.)		(b) <u>SA-</u> :	516-70		Spec. No.,	Grade or Type	) (H.T. —	Time	& Temp.)	
	Thickness			Radius					Τ		Flat Diameter		Side to	Pressure	· · · ·	Ca		
	Location (Top, Bottom, Ends)	<del> </del>		Crown				Conical ex Angle		nispherical Radius			Convex	Concave	Туре		Category A Full, Spot, None	
(a)	Left End	0.313"	1/8"	-		2:1							-	×	N/A	Non		0.7
(b)	Right End	0.313"	1/8"			2:1								X	N/A	Nor	ne	
If ron	novable, bolts	used (c	iescribe	other f	etonina)	SA-	193-B7N	/I, SA-19	4-2HM	, 1 1/8", 20				<del>' , , , , , , , , , , , , , , , , , , ,</del>				
	Type of jacket								Ja			c. No.,	*	e, No.) escribe as oge				ekatch
9. N 10. I	MAWP 50 (intern) mpact test No	al) one	(external)	psi		mp.	250 (intern	al) (ent(s) impa	act tested			<del></del>	etal tem	np. <u>-20</u> temperatur		°F at	50	_ psi.
ltem	s 12 and 13 to									test								
12. 7	2. Tubesheet: [Stationary (Mat'l Spec. No.)] [Dia., In. (subject to press.)] (Nom. thk., in.) (Corr. Allow., in.) [Attachment (welded or bolted)]											bolted)]						
		Floating (	Mat'l Spec	c. No.)]		(Dia., i	n.)		(No	m. thk., in.)			(Corr. Allo	ow., in.)	-	{A	tachment)	
13.	Tubes:(Mat'l Sp	ec. No.,	Grade or T	ype)	. (0	D., in.)		<del>- (1)</del>	lom. thk	., in. or gauge	<del></del> -		(Num	ber)		[Тур	e (Straight or I	U)]
	<i>s 14–18 incl. to</i> Shell (a) No.												ngers.			<u>.·</u>	·	
Course(s) Material							Thickness Long. Joint (Cat. A)						Circum. Joint (Cat. A, B, & C) Heat Treatment					
No.	Diameter, in.			.) Spec	Spec./Grade or Type		Nom. Corr.		Туре					Full, Spot, None		Eff.	Temp.	Time
1						0.344"	0.344" 0"		SEAMLESS		0.85	1	Full	-ull		None		
	2.375"	, ,				316/SA403WP316		154" 0"		SEAMLES		0.85	1	Full		0.7	None	
2,3	2.375"	7' - 6"		SA312	TP316/SA403V	VP316	0.154			PENMILE	33	0.03					INOING	i
2,3 4					TP316/SA403V 12-TP316	VP316	0.344"	0"		SEAMLE		0.85	+	Full		0.7	None	
4	2.375" 2.375"	7' - 6" 1' - 0" 182-F3	16	SA-3			0.344"	0"		Į	:SS 182-F3	0.85	1		-	0.7	None	
4	2.375" 2.375" Heads: (a) SA-	7' - 6" 1' - 0" 182-F3	16	SA-3	12-TP316	(н.т. —	0.344" Time & T	0" emp.)	lu <sub>c</sub> -	SEAMLE (b) <u>SA-</u>	SS 182-F3	0.85 16 (Mat'l	1 Spec. No.,	Full	-	0.7 Time	None	
4	2.375"	7' - 6" 1' - 0" 182-F3	16 [Mat'l Spe	SA-3	12-TP316 de or Type)		0.344" Time & T	0"		SEAMLE	:SS 182-F3	0.85 16 (Mat'l	1 Spec. No.,	Full Grade or Type	-	0.7 Time	None & Temp.)	e Eff.
4	2.375" 2.375" Heads: (a) SA- Location (Top,	7' - 6" 1' - 0" 182-F3	16 Mat'l Spe	SA-3 c. No., Gra	12-TP316 de or Type) dius	(H.T. —	0.344" Time & T	0" emp.) Conical		SEAMLE (b) <u>SA-</u>	SS 182-F3 Fla	0.85 16 (Mat'l eter	Spec. No.,	Full Grade or Type Pressure	e) (H.T. —	0.7 Time	None & Temp.)	e Eff.

if removable, bolts used (describe other fastening) SA-193-B8M. SA-194-8M. 5/8". 12

(7/00)

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

				E		1 /Back			<b>655</b>	5178	2_
16. MAWP 225 (internal)	50 (extern	psi at r	nax. temp	. <u>250</u> (interna	ORM U- 250 (exte	O °F.	Min. de	sign metal temp.	-		-
17. Impact test NONE A	AS PER	UG-20(f)(1-5	)	<u></u>				at test tem	perature o	f 32	•F.
•		(Indicate )	es or no and	the compone	ent(s) impact	tested]			•		
18. Hydro., pneu., or con	nb. test	press.	YDRO - 33	38 PSI	Pi	roof test .					
19. Nozzles, inspection, a	nd, safe	ety valve ope	nings:								
	V			Mat	erial	Nozzie T	hickness		How A	ttached	
Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Nozzle	Flange	Nom.	Corr.	Reinforcement Material	Nozzle	Flange	Location (Insp. Open.)
N1, N5 - INLET, WATER OUT	2	NPS 3	CI, 150 RFWN	SA106B	SA105N	0.337"	1/8"	N1: SA-516-70N	UW-16.1(c)&(d)		SHELL
N2 - VAPOR OUT	1	NPS 6	Cl. 150 RFWN	SA106B	SA105N	0.432"	1/8"	SA-516-70N	UW-16.1(d)	CAT. C	SHELL
M1 - MANWAY	1	NPS 20	CI. 150 RFWN	SA106B	SA105N	0.375"	1/8"	N/A	UW-16.1(c)	CAT, C	HEAD
N3, N4, N6, N8A/B, N9, N10	7	NPS 2	CI. 150 RFWN	SA106B	SA105N	0.344"	1/8"	N3: SA-516-70N	UW-16.1(c)&(d)	CAT. C	SHELL
LIQ. IN, FUEL GAS, DRAIN											
BRIDLE, TI, TC	i										
N7A/B - HEAT COIL	2	NPS 2	CI. 150 RFWN	SA312TP316	SA182F316	0.344"	0"	N/A	UW-16.1(C)	CAT. C	SHELL
20. Supports: Skirt NO (Yes	1	ugs NO	lens	NO	Others	SADDLES	;	Attached _W	ELDED TO	SHELL	
21. Manufacturer's Partia the report: (List the n								ectors have been	furnished	for the fo	lowing items of
22. Remarks: CONST. DF	RAWING	B780-1 R0,	IMPACTS	EXEMPT I	PER UG-20	O(f)(1-5), R	T-1 PER L	IW-11(a) PER CLII	ENT REQU	EST	
PSV Verified by Owner	as per	UG-125, VOL	UME: 347	ft^3 (9.9 m	1^3)						
Item 14 represents a 2	" Stainle	ess Steel Hea	t Coil (N7A	√B) which i	s situated	inside the v	essel.				:
We certify that the state conform to the ASME Conform to the ASME Conformation of Authorization of Authoriza	ode for ation N	Pressure Ve	rt are cor essels, Sec	rect and t tion VIII, I	Division 1. opires <u>AU</u>	ails of de	sign, mat	<i>-711</i>	n, and wor		of this vessel
			(M	anufacturer)			- Oigilou	7/0/	(Represer	tative)	
i, the undersigned, hold of Alberta an	ıd empl	oyed by	ABSA	by the Na		ard of Boile	er and Pre	f Alberta		or the Sta	ite or Province
have inspected the pres	sure ve	essel describ	ed in this	Manufacti	urer's Data	Report o	$n \longrightarrow \lambda$	june 2 (, 2	006		, and
state that, to the best of VIII, Division 1. By signin vessel described in this personal injury or proper Date 2006 (2)	g this c Manufa erty dan	ertificate nei acturer's' Da	ther the Insta ta Report. ss of any I	spector no Furtherm	r his empl ore, neithe	oyer make er the Insp connected	s any war ector nor	ranty, expressed his employer sha inspection.	or implied, all be liable	concernin e in any m	g the pressure nanner for any
We certify that the state requirements of ASME	Code, S	ection VIII, D	ort are cor	rect and t		ld assemb norization	No	uction of all part			orms with the
Date	ivame		<u> </u>	(Assembler)		s	igned	<del> </del>	(Representa	tive)	
I, the undersigned, holding of of and state that parts refeinspected by me and to with the ASME Code, State of the continued the c	rred to the best	ployed by, has data item t of my know /III, Division	nave composed in the composition is a substitute of the composition in the composition is a substitute of the composition in the composition is a substitute of the composition in the composition is a substitute of the composition of the composition is a substitute of the composition of the co	by the Na pared the s belief, the scribed ve	statements Manufac ssel was i	s in this M turer has c	anufactur , not inclucton constructer	ssure Vessel Insper's Data Report ided in the certification and assembled cted to a hydrost	with the de cate of sho this pressi atic test of	escribed p p inspecti ure vessel	ressure vessel on, have been in accordance psi.
By signing this certificates described in this Manufates.								•			

\_ Commissions \_

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

injury or property damage or a loss of any kind arising from or connected with this inspection.

\_ Signed \_