1726
FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1



1. Manufactured and	d certifie	ed by HEN	RY TECHNOL	OGIES LIMITE	ED, 36 CRAIG S		ANTFORD, ON ss of manufacturer)		NADA N3T	5T6	
2. Manufactured for	TOI	ROMONT PRO	OCESS SYSTE	MS, 10121 Bar							
3. Location of install	ation	UNKNOWN			(Nan	ne and address of p			Land II Land		
4. Type:	VERTI	CAT	C250062A	(1/5)	1 0760 21	(Name and add	•	70	N/2		2005
		ert. tank)	(Mfgr's serial		(CRN)		(Drawing n		(Nat'l Bo		(Year built)
<ol><li>The chemical and VESSEL CODE. T</li></ol>								ND PRESSUR	2004 Editi	on	
to					15	518-5			Year -		
	A	Addenda (Date)				Case Nos.			Special Service	per UG	120(d)
6. Shell:	SA-	106B		3/8"		1/16"		16" OD			48"
	tl. (Spec /ILS PI	:. No., Grade)	Non NONE	n. Thk. (in.)	Co	orr. Allow. (in.) -		m. I.D. (ft. & in.)  TT		_	ı (overall) (ft. & in.)
Long.		d, Dbl., R	T. (Spot or Full)		H.T. Temp (°F)		Girth (Welded Sngl., Lap, E	, Dbl.,	R.T. (Spot, Pa or Full)		No. of Courses
8. Heads: (a) Matl.			SA-234	WPB		(b) Matl.		S	A-234 WPB		
		Minimum	(Spec No.,		IZ	Fig. e i	T 0	<del></del>	pec No., Grade)		0:1 + 5
Location (To Bottom, End		Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispheric Radius		r	Side to Pressure (Convex or Concave)
(a) TOP		0.3281"	1/16"	-	-	2:1	-	-	-		CONCAVE
(b) BOTTOM		0.3281"	1/16"		-	2:1	-	<u>-</u>			CONCAVE
If removable, bolts	used (	describe other	rastenings) <u>-</u>			(Mat	tl., Spec. No., Gr., S	izo No \			
9. MAWP			400			psi at max. ten		126, 110.)	250		°F
Min. design metal	temp.		-20	°Fa	at 400	psi. Www.	##, pneu., ########	# test pressur		44	.0 psi.
10. Nozzles, inspection	on and	safety valve op	enings:				·	·			
Purpose		Diam.				Nom.	Reinforcen	nent	How		
(Inlet, Outlet, Drain)	No.	or Size	Type	Ma <sup>s</sup>	i	Thk.	Matl.		Attached		Location
CONN	1	3,"	W.E.	SA-106 SA-234		SCH.80 SCH.80			WELDE		SIDE
CONN	1	2"	CPLG	SA-234		6000 LB			WELDE:	-	TOP SIDE
CONN	2	1-1/2"	CPLG	SA		6000 LB			WELDE		SIDE
CONN	2	1"	CPLG	SA	T t	6000 LB	-		WELDE		SIDE/BTM
CONN	1	1"	CPLG	SA		6000 LB	-		WELDE		ТОР
CONN	1	3/4"	CPLG	SA	105	6000 LB	_		WELDE	)	SIDE
	-	-	-	- 400		- [.			_		-
11. Supports: Skirt	<del></del>		.ugs			Other		<i>F</i>	Attached		OM/WELDED
12 Damada Masufa	•	es or no)	(No.	,	(No.)		(Describe)		.0	,	Where and how)
12. Remarks: Manufa	curer	s Partiai Data R	eports properly i	dentined and sig	ned by Commis	sionea inspectors	s nave been turnis	sned for the fo	niowing items	or the r	ероп:
				(Name of part,	item number. Mfgr	's name and identify	ving stamp)				;v
FOR CORROSIVE	SERV	ICE									
NO IMPACT TEST	REQU	JIRED AS PE	R UCS-66								
VESSEL MEETS R	T3 RE	QUIREMENT	8								
				CERTIFICA	TE OF SHOP	/ FIELD COMI	PLIANCE				
We certify that t	he stat	ements made ir	this report are o	correct and that	all details of desi	ign, material, con	struction, and wo	rkmanship of	this vessel cor	form to	o the
ASME Code for	Pressu	ıre Vessels, Se	ction VIII, Divisio	n 1. "U" Certific	ate of Authoriza	tion No.	29646	— expir	es Ju	ın-05-	2006
Date Feb. 2	5/0!	Co. Nam	e HENRY TE	CHNOLOGIES	LIMITED	5	Signed of N	chool,	wetri	L	
					facturer)	,			(Representative)		
				CERTIFICA	ATE OF SHOP	/ FIELD INSP	ECTION				
Vessel construct	•			OGIES LIMITE			STREET BRAN			IADA	N3R 7J1 .
_				by The National I	Board of Boiler a		sel Inspectors an	d the State or	Province of		
ONTARIO the component		and employ		onort on	Tak 2	T.S.S.A.		hat talkers.	ot of martines.		have inspected
the component of				•		, 2003	and state to a state to a	-	st of my knowle	•	
							n 1. By signing tni s Manufacturer's∃				
							loss of any kind a				
Date Feb.	5,0	Signed		Minan	rei	Commissi	ions	ON 33			
				(Authorized Inspe	ctor)		(Nat'l E	Board, (incl. end	lorsements) Stat	e, Prov.	and No.)



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

=											
1.	Manufactured and	d certif	ied by <u>HENI</u>	RY TECHNOLO	OGIES LIMITE	D, 36 CRAIG S		ANTFORD, ON	TARIO CAN	ADA N3T 5T6	
2.	Manufactured for	<u>TO</u>	ROMONT PRO	OCESS SYSTE	MS, 10121 BA	RLOW TRAIL	N.E., CALGAI	RY, ALBERTA	T1Y 628	PLIC.	
3.	Location of instal	lation	UNKNOWN			(Nam	ne and address of p				
4	Typo:	VEDT	ICA I	C2500(2D)	\ (1 <b>~</b>	1.0750.31	(Name and add	•		21/4	2005
4.	Type: (H		vert. tank)	(Mfgr's serial		L9758.21 (CRN)	3	R200183B (Drawing n		N/A (Nat'l Bd. No.	2005 (Year built)
	The chemical and VESSEL CODE.								ID PRESSURE	2004 EDITION	•
	<b>VEGGEE</b> GGBE.		organ, comou douc	in and nonlinant	onip comonn to i	Nome Naico, Co	ction vin, Divisio			Year	
	to		Addenda (Date)		_		18-5 ase Nos.			pecial Service per U	0.40041
6.	Shell:			_	3/8"	Code C	1/16"	1	2-3/4" OD	pecial Service per U	48"
_	Ma	atl. (Spe	c. No., Grade)	Non	n. Thk. (in.)		rr. Allow. (in.)	Dia	m. I.D. (ft. & in.)		gth (overall) (ft. & in.)
1.		SMLS (Welde		NONE T. (Spot or Full)	100% Eff. (%)	H.T. Temp (°F)	Time (hr)	SGL BUT Girth (Welded	DN	SPOT R.T. (Spot, Partial,	No. of Courses
	Sng	gl., Lap,	Butt)			(sp ( . )		Sngl., Lap, E	Butt)	or Full)	110. 0. 000,000
8.	Heads: (a) Matl.			SA 234 (Spec No.,		***************************************	(b) Matl.	-	SA (Sn)	A 234 WPB ec No., Grade)	
	Location (To		Minimum	Corrosion	Crown	Knuckle	Elliptical	Conical	Hemispherical	l Flat	Side to Pressure
(;	Bottom, End a) TOP	ls)	Thickness 0.3281"	Allowance 1/16"	Radius	Radius	Ratio 2:1	Apex Angle	Radius	Diameter	(Convex or Concave)  CONCAVE
	b) BOTTON	Л	0.3281"	1/16"	-	-	2:1	-	-	-	CONCAVE
	If removable, bolts	sused	(describe other t	astenings) <u>-</u>							
۵	MAWP			400				tl., Spec. No., Gr., S np.		250	oŗ
	Min. design metal	femn			°F a	t 400	•	mp. ##, pneu., #######		250	' 140 psi
	. Nozzles, inspecti						poi: injust	, p.1100., 011	ar toot procoure		po.
	Purpose	1	Diam.	[			Nom.	Reinforcen	nent	How	
H	Inlet, Outlet, Drain) CONN.	No.	or Size	Type W.E.	Mat SA-106		SCH.80	Matl.		Attached WELDED	Location SIDE
F	CONN.	3	1-1/2"	CPLG.	SA 1		6000 LB	<del>-</del>		WELDED	SIDE/BTM
	CONN.	3	3/4"	CPLG.	SA 1		6000 LB			WELDED	SIDE
-	CONN.	1	3"	W.E.	SA-234	WPB	SCH.80	-		WELDED	ТОР
$\vdash$	-	-	-	-	-			-		-	<del>-</del>
-		1 -	-	-	<u>-</u>			-			-
	-		-	-	-		_			_	
11	. Supports: Skirt			ugs	Legs	-	Other	-	At	ttached <u>BOT</u>	TOM / WELDED
10	Decrease Many 6	٧.	es or no)	(No.)	•	(No.)		(Describe)			(Where and how)
12	. Remarks: Manufa	acturer	s Paniai Data K	eports properly i	dentified and sig	nea by Commiss	sionea inspectors	s nave been turnis	sned for the foi	lowing items of the	e report:
					(Name of part,	item number. Mfgr	s name and identify	ying stamp)			
	<u>O IMPACT TEST</u> OR CORROSIVE			R UCS-66			***************************************				
-	ESSEL MEETS F			`S			•				
_					CEDTIEICA	TE OF SHOP	/ FIELD COM	DIJANCE			
	We certify that	the sta	tements made ir	this report are o					rkmanshin of th	nis vessel conform	to the
				ction VIII, Divisio				29646	expire		5-2006
	Date Feb,	25/0	5 Co. Nam	e <u>HENRY TE</u> C	CHNOLOGIES	LIMITED		Signed Mi	Kushi	Distriction	ර
$\vdash$						facturer)			(F	Representative)	
	\/		1100	011 777 017 101			/ FIELD INSP				
	Vessel construc	,		RY TECHNOLO			nd Pressure Ves	36 CRAIG ST sel Inspectors an			·
	ONTARI		and employe		, monditional t		T. S. S. A	•	2 1/10 Oldito 01 1	.571100 01	have inspected
	•			acturer's Data R	·	eb 23.	2005	<del></del> ·		t of my knowledge	•
			•							ither the Inspector urthermore, neithe	
	Inspector nor hi	s empl	oyer shall be liab	•		•			•	onnected with this	
	Date <u>Feb.</u>	25,	Signed _		Mingon	ei	Commissi	ions	<u>ON 3</u>	<u> </u>	
					(Authorized Inspe-	ctor)		(Nat'l E	Board. (incl. endo	rsements) State, Pro	v. and No.)

PSV 375psi 24915cfm.

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1.	Manufac	tured and	certifie	ed by <u>HEN</u> I	RY TECHNOLO	GIES LIMITE	D, 36 CRAIG S		RANTFORD, ON ess of manufacturer)	TARIO CAN	ADA N3T 5T6	
2.	Manufac	tured for	TOI	ROMONT PRO	OCESS SYSTEM	/S , 10121 BA			ARY, ALBERTA purchaser)	T1Y-6Z8		
3.	Location	of installa	tion	UNKNOWN				· · · · · · · · · · · · · · · · · · ·			EDE 21 CV. 19	the state of the s
						1_		(Name and a	ddress)			<del>-</del>
4.	Type: _			NTAL	C250062C(		L9799.21	3	R200183D		N/A	
5	The cher	•		ert. tank)	(Mfgr's serial	•	(CRN)	finations of the	Drawing no ASME BOILER AN	•	(Nat'l Bd. No.	) (Year built)
					on, and workmans		•			ID FRESSORE	2004 Edition	
				·g., ••··•	n, and nominate						Year	
1	to						15	18-5			_	
			P	Addenda (Date)			Code C	ase Nos.		Sp	ecial Service per U	G 120(d)
6.	Shell:			3 Gr B		3/8"		1/16"		2-3/4" OD.		26-1/2"
7	Seams:			c. No., Grade)		. Thk. (in.)	Co	rr. Allow. (in.)		m. I.D. (ft. & in.)		gth (overall) (ft. & in.)
1.	Seams.		ERW Welder		.T. (Spot or Full)	85% Eff. (%)	H.T. Temp (°F)	Time (hr)	SNGL BU Girth (Welded		NONE R.T. (Spot, Partial,	No. of Courses
			, Lap, I		. r. (opot or r dil)	Lii. (10)	n.r. remp(r)	Time (III)	Sngl., Lap, E		or Full)	No. or Courses
8.	Heads: (	a) Matl.			SA 516	-70		(b) Matl.		Sz	A 516-70	
					(Spec No., (			· · · · · · · · · · · · · · · · · · ·			c No., Grade)	
		cation (Top		Minimum	Corrosion	Crown	Knuckle	Elliptical	Conical	Hemispherical		Side to Pressure
(a		ttom, Ends END	5)	Thickness 0.2938"	Allowance 1/16"	Radius	Radius	Ratio 2:1	Apex Angle	Radius	Diameter	(Convex or Concave)
(b		END		0.2938"	1/16"	<del>-</del>		2:1	<del>                                     </del>	<u>-</u>		CONCAVE CONCAVE
			used (	describe other		DLTS : SA 193-	-B7 5/8"-111TN			<u> </u>	<u> </u>	CONCAVE
		210, 20110 ·	, 2002	40001120 01101	idotoimigo, <u>Bc</u>	DE13 . BR 175	-67, 376 -1101		iatl., Spec. No., Gr., S	ize, No.)		
9.	MAWP				400			psi at max. te		. ,	400	°F
ı	Min. desid	gn metal te	emp.		-20	°F a	t 400	psi. ####	###, pneu., ######	# test pressure		440 psi.
									, p,			, ps
<u> </u>	Purpo		i anu	safety valve op	T T			None I	Dainfaran			<del></del>
(In	let, Outle		No.	Diam. or Size	Туре	Mat	ı.	Nom. Thk.	Reinforcer Matl.	nent	How Attached	Location
	Handh	ole	1	11"	BOLT PAD	SA-516 (	Gr70 N	1-1/2"	_		WELDED	END
	CON	N.	2	2-1/2"	PIPE	SA-106	GR B	SCH.80	_		WELDED	SIDE/END
	CON		l	1-1/2"	CPLG	SA-10	)5N	6000LB	_		WELDED	SIDE
L_	CON	N.	3	3/4"	CPLG	SA-10		6000LB			WELDED	TOP/BOTTOM
11.	Supports	: Skirt			ugs	Legs		Other	-	Att	ached	-
			•	es or no)	(No.)		(No.)		(Describe)			(Where and how)
12.	Remarks	s: Manufac	cturer's	s Partial Data R	teports properly id	entified and sig	ned by Commiss	sioned Inspecto	rs have been furnis	shed for the follo	wing items of the	e report:
_											1.4.44	
	n conr				1)	Name of part, ite	m number. Mfgr	's name and ide	entifying stamp)			
		ROSIVE S										
				ER UCS-66			***************************************		******			
HE	ADS AI	RE HOT I	ORM	1ED								
					•	CERTIFICAT	TE OF SHOP	/ FIELD COM	IPLIANCE			
								-	nstruction, and wo	rkmanship of thi	s vessel conform	to the
	ASME	_ 1	、7		ction VIII, Division	1. "U" Certifica	ate of Authorizat	ion No.	29646		res Jun-	<u>05-2006</u> .
	Date )	95.SE	6/05	. Co. Nam	e <u>HENRY TEC</u>	HNOLOGIES	LIMITED		Signed	1eMal)	Direturi	(1)
<u> </u>						(Manufa				(Re	epresentative)	
						CERTIFICA	TE OF SHOP	/ FIELD INS	PECTION			
		constructe			RY TECHNOLO				36 CRAIG ST.	L		
		_		-		The National E	Board of Boiler a		essel Inspectors and	d the State or P	rovince of	
		ONTARIO		and employ			20/2	T. S. S.				have inspected
		•			facturer's Data Re	•	25/2/	105	<del></del>		of my knowledge	'
									on 1. By signing thi			
									nis Manufacturer's la loss of any kind a			
	Date	20%	7/1	S Signed	Ryland		m Romar				minected with this	mapection.
	Date	<u> </u>	<u>~10</u>	signed	( Jours	<u> </u>	WALLET	Commis	SIUIS	5/		

(Nat'l Beard, (incl. endorsements) State, Prov. and No.)
PSV 375 psi @ 4915CFW

11726

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop-Fabriciated Vessels Only)

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

				<u> </u>	LED EVO	MANGERG	DIC ON	ACE AND	DDOVEN	ADDOW O	K. 74013
1.	Manufactured a	nd certif	ied by	AIR COO	LEDEXC	HANGERS	(Name and address of n	E ACE AVE.	BRUKEN	ARROW, O	K. 74013
2.	Manufactured f	or	TOR	OMONT		РО ВОХ	5308 STN (Name and address of		CALGAR	Y,AB T2	C 3C6
•							UNKN	OWN			
3.	Location of ins	ianation			<del></del>		(Name and addr	ess)			
4.	TypeVI	ERTICA	<u>L</u>	050260		T1101.2		26-H2-1		272	2005
	(Ho	riz or vert., ta	nk)	(Mfgr's seria	l No.)	(CRN)	(Di	awing No.)	(Nat'i.	Bd. No.)	(Year built)
5.	The chemical	and phy	ysical prop	erties of all	parts meet	the requirer	ments of mate	rial specificat	tions of the AS	ME BOILER	AND PRESSURE
	VESSEL CODE	E. The de	esign, const	ruction, and v	vorkmanshi	p conform to	ASME Rules, S	ection VIII Divi	sion 1	200   Year	1
			A2003				NONE			NONE	
	to		ddenda (Date)	<u> </u>			Code Case Nos.			Special Service per UG	-120(d)
	e & Plug	SA	-516-70		.75"		0625"	4.	.375"		20.625"
6.	Shell:	Mall. (	Spec. No., Grade)		Nom. Thk. (in.	Con	r. Allow. (in.)	Diam.	1.D. (ft. & in.)	Length (	overall ) (ft. & in.)
7	Seams:SIN	GLE B	EVEL	NA	1	NA I	NA N	Α	NA	<u>NA</u>	
••		Long (Welde Sngt, Lap,		R.T. (Spot or Fu		f. (%) H.T. 1	Femp.(°F) Tim		irth (Welded, Dbl., Sngl., Lap, Butt)	R.T. (Spot, P	
8.	Heads: (a) Ma				16-70 o., Grade)		(b) Mati			-516-70 : No., Grade)	
		T					Elliptical	Conical	Hemispherical	Flat	Side to Pressure
	Location (Top, Bottom, Ends)	Minin		orresion owance	Crown Radius	Knuckle Radius	Ratio	Apex Angle	Radius	Diameter	(Convex or Concave)
(a)	TOP & BTN	1 .5	<u>" .c</u>	0625"	NA	NA	NA	NA	NA	4"	NA
(b)	1 50.750	<u> </u>	.0	625"	NA	NA	NA	NA	NA	4"	NA
i	f removable, bol	ts used (	describe oth	er fastenings)	)		<u></u>	W 0 0 - W	O. Circ No.		
					;	SERVICE:_	AC	(Matt., Spec. No.,		•0	
9.	MAWP			400	400		at max. temp		35	520	°F
	Min. design met			°F at			dro., <del>pneu., or co</del>				psi.
10.	Nozzies, inspec	tion and	Diam.	openings: 5	AFEIYR		Nom.	1	ELSEWHERE forcement	How	1 1
(In	let, Outlet, Drain)	No.	Or Size	Туре		Matl.	Thk.		Mati.	Attached	Location
11	WOUTLET	2	4"	PIPE		A-106B	XH		IAL & WELD		
-		2	.75"	RFWN CPLG		SA-105 SA-105	300# 3000#		IAL & WELD IAL & WELD	UW16.1(a	
$\vdash$			.13	CrLG	<u> </u>	37-103	3000#	141711210	EIL C WEED	- 0 11 10.11(1	"   — —
4.4	Cunnada, Skir	N	O Lugs	2	Legs	0Other	. NA	1 /	Attached	TUBESHEE!	I/WELDED
11.	Supports: Skir	(Yes o		(No.)		No.)	(Descri			(Where a	nd how)
12.	Remarks: Manuthe report: Co	ufacturer ONSTR	's Partial Da UCTED IN	ta Reports pr N CONFOR	MANCE	WITH APPI	ed by Commiss ENDIX 28, IM er, Migr's, name and iden	IPACI_EXE	ors have been fu EMPT PER U	mished for the G-20(f)(1)(b	following items of
	THE COLOR	7\C A 31	14 X	.625" OD	•		X 6' LONG		AIGHT TYPE	ì	
	TUBES:(37	<del></del>		OULDER	Λ .υ	00 141 44	A U LONG	5 5110	MOIII IIII		
	UT-ONE LO				PER HEA	AD PER	CUSTOME	R REQUES	T	·	
					CERT	IFICATE OF	SHOP COMPL	ANCE			
١,	We certify that t	he state	ments made	in this repor					nstruction, and v	workmanship o	of this vessel con-
			for Pressure	e Vessels, Şç	ection VIII, [	Division 1. "U"	Certificate of	Authorization N	$\mathfrak{D}_{-}^{7616}$	expires4	/30 .20 05
1	Date 3.17.	05_	Co. n	ameAll	COOLE	(Menulacturer)	IGERS, INC.	Signed S	germ (De	(Representative)	
П			ATR	COOLED		TIFICATE OF GERS, INC	SHOP INSPE	CTION	BROKEN	ARROW.	
	Vessel construct							d Pressure Ve			ate or Province of
'		KLAH			employed b	ONER	EACON AM	ERICA INS	URANCE CO	BOSTO	ON, MASS.
	nave inspected	the comp	onent descr			-	t on	3-17	, 20 <b>05</b>	_, and state th	nat, to the best of
								ordance with A	SME Code, Sec	ction VIII, Divis	sion 1. By signing
											bed in this Manu-
- 1		-					yer shall be liab	ole in any man	ner for any pers	ional injury or	property damage
- 1	or a loss of any	kind aris	•	Иι	ith this ins <b>b</b>	ection.	_	^	B.8432.4	OK. 166	
	Date	1-03	Signed		(Authori	zed Inspector)	с	ommissions 4	[Nat1 Board (inc	i, endorsements), State,	Prov. and No.

# FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM SYMBOL, SEE U-1(j) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1.	Manufactured	and cer	tified by		ViEX Ir	nc. 1201 Ni	cholson	Road	. Newmar	ket, Or	ntario,	Canada	. L3`	Y 9C3	1011 1	= <del>1 = 1 , = 1 , = 1</del>	·
	Manufactured					Naı <u>9stems,</u> 10	me and a 121 Bar	ddress Iow Tr	of manufac	turer) Calgary							
	Location of ins					(14	ame and	addres Unkno	s or purcha	ser)	, / tiper	ta, Oan	aua,	133 300	····-		
																/3	
4.	Type(H	loriz or ve	ert, or sph	ere)	_ <u></u>	<u>'late &amp; Frai</u> (Tank, sepai	<u>me Heat</u> rator, etc	LExch	anger		4.97 (Capaci	US gal				11-15	
	L9315.512	23			VX20-G	-400 Rev 0	1	••••		,	2005 2005			•	(Mfg's se	rial No.)	
_	(Citit)				(Dra	wing No.)					(Year i						
5.	ASME Code, S	Section '	VIII, Divi	sion 1	2001 Ed	ition, 03 Ac nd Addenda (	(data))		None Code Case	N- N							
6.	Shell: (a) no.	of cour	se(s):		n/a	ia riadenda i	(uate))	(b)	Overell le	:NO.) path (f	. O : \	. 0					
	Course				Material		kness		Long. Join								
No	Diameter, in	Length	(ft & in.)		Grade or Type		Corr	I	Full,Spo		Eff	Type		oint (Cat. A,			eatment
-	<del> </del> -	-				-+	_					- Type	L	i, Spot, None		Temp	Time
-	<del> </del>							-	+		<del>  -</del>		-  -		-		
_				-			-	-	<del> </del>			_			+	<del>-</del>	-
7.	Heads: (a)	SA51	6 Gr 70		н	T-No		(b)		SAS	16 Gr	70		HT-N		I	
					ype) (H.T.	- Time & Te	mp)	(~/ _	(N	lat'i Spe	c. No.,	Grade or	Туре	<u></u>	ne & Ten	np)	
	Location (Top, Bottom, Ends)	Thick Min.	Corr.		Radius	Elliptical	Con		Hemisphe	Flat	Diamete	Sic	de to	Pressure		Category /	<del></del>
(a)	Fixed head	2.25"	-	Crown	Knuckle	Ratio	Apex /	Angle	ical Radius		/8" x 44"	Conv		Concave	Туре	Full,Spot,N	lone Ef
(b)	Mobile head	1.50*	-	_	<del> </del>	-	+		_		/6" x 43.2	r   -			-		
l <b>é</b> en	moveble bette						<del></del>										
	emovable, bolts																
8.	Type of jacket			n/a	a			Jack	et closure		siaue, c	512 <b>e</b> , 140. <i>)</i>	n/a				
									0.000.0		(Des	cribe as	ogee	& weld, bar,	etc.)		
	ii bai, give uime	ensions,	it poite	ı, aesc	ribe or ski	etch				n/a							
9.	MAWP 400 (intern	al)	none	al) F	osi at max	. temp 25	0	- <del></del>	n/a °	F Min.	design	metal t	emp	20	°F;	at 400	psi.
10.	Impact test	<b>~</b> .,	No (I	mnact	test evem	uu) Laer roite	emai) ICS 667	e) ('C	xternai)				_				
	Impact test	(inc	licate yes	or no ar	nd the comp	conent(s) imp	pact teste	ed)	<del></del>	at t	est ten	peratur	e of		n/a		°F.
11.	Hydro., pneu., c	or comb	. test pre	ss		520 p	sig		Proof t	est	n/	<u>'a</u>					
	Nozzles, inspec																<del></del>
	Purpose		Diam		Flange		terial		Nozzle Thi	kness	T -			16	<del></del>		
(inle	t,Outlet,Drain, etc		or S	ze	Туре	Nozzle	Flang	je		Corr.		nforceme Material	nt	How At Nozzle	tached Flange		ation Open.)
	Hot Side Inlet	F2			cl300flg	SA106B	SA105		0.154"	None				Welded	Welded		-
	Hot Side Outlet	F3			cl300flg	SA106B	SA105		0.154"	None		-		Welded	Welded	<del>                                     </del>	
L	Cold Side Inlet	F4				SA106B	N/a		0.218"	None				Welded		1	
L`	Dold Side Odliet	F1	2" N	-1		SA106B	N/a	0	0.218"	None				Welded		1	
13.	Supports: Skirt	No	L	ıgsl	No	Legs	No	Oth	ers	Foot		^				<del></del>	J
		(yes or	no)		(No.)	(	No.)			Describ	e)			hed <u>Bolted</u> V	thank and		
14.	Manufacturer's	Partial I	Data Rep	orts p	roperly ide	entified and	signed	by Co	mmission	ed Ins	ectors	have b	een	furnished t	for the fo	ollowina it	ems of
the r	eport: (List the	name o	f part, ite	m nun	nber, mfgʻ	's. name ar	nd identi	ifying r	number.)						- •	· · · · · · · · · · · · · · · · · · ·	<del></del> VI
				··········													
																	<del></del>
15.	Remarks: <u>1) Tr</u>	nis heat	exchang	e cons	ists of 31	gasketed I	neat tran	nsfer p	lates which	h are	clampe	d betwe	en f	ixed & mal	hile hear	te by tio	odo.
(2) F	leat transfer pla	te mate	<u>rial – 98</u>	9mm x	242mm \$	SA240-304	(3) Hea	ting su	urface is 6	2.4 ft <sup>2</sup>	(4) Insi	ection (	oner	ninge are n	ot appli	able (E)	008
relie	f devices per U	G-125 a	re the re	sponsi	bility of th	e user. (6)	Volume	per ci	rcuit is 0	328 ft <sup>3</sup>	(7) Bo	th circui	ite h	ovo como	desi	able (5)	Sarety
						CERTIFICA	TE OF	CHOD	COMPL	ANIOF							
We d	certify that the sorm to the ASM	tatemer	nts made	in this	report an	e correct a	nd that a	all date	ails of des	ign, ma	aterial,	constru	ction	n. and work	manshi	n of this v	lesse
	orm to the ASMI Certificate of Au				essels, Se	ection VIII, 32,743	Division	1.		•		/	/	•			
Date	1016 (16	05	Nan			ViEX Inc	^			Dia	_ expir	e\$ <del>( )</del> ))	7	August	7, 2007		
	φ.		14411			(Manufactur				Signed		NIL	Y P	epresentativ	e)		
Signe		d Individu	.al\			-							<b>'</b> '	, · · · · · · · · · · · · · · ·	-,		
	n emile	. BRUVIOL	1 <b>4</b> ()														- 1



#### **FARRIS PRESSURE MANAGEMENT**

# EDMONTON FACILITY INSPECTION TEST REPORT

11726

CUSTOMER:		ORDER#:	SE#:		MetalTag:				
Toromont		419324	419324-	-5	PSV-104				
PO: PON185956		<b>)</b>	39						
FO.   FOR 100330									
TYPE:	VALVE SIZE:		ORIFICE	Fact	orySerial #:		CRN#:		
27DA33-M20 - GAS	1"MNPTx	1"FNPT	D	482	2900-22-KE		OG038	6.9C	
SPRING:							1		
SERVICE:									
SERVICE: GAS	Stam	pSymbol:	UV NB						
CAPACITY: 859 SCFM			ą				•		
Set Pressure BackPressure	<u>Diff</u>		<u>ldDiff</u>	<u>I</u>	emp. Corr.		<u>Temperature</u>		
375 PSIG 0	PSIG 375	PSIG	375 PS	ig [	0	PSIG	60	F	
2586 KPAG 0	KPAG 2586	KPAG	2586 KP	AG	0	KPAG	16	С	
	<del></del>								
MATERIAL/HEAT NUMBER ASSIGNMEN	r:					٠,			
MTR'S REQUIRED	Body a10	Nozzi	3		InspectionF	kequired	IBy	<u> </u>	
WITNESS TEST REQUIRED	Bonnet C13	Dis	10821						
PERFORMANCE TEST DATA:	7.								
Test Fluid V Air	Final Test Pressure		er B.D.R. Setting	j:		1	_ Notches		
☐ Waters	375 PSIG	Low	er B.D.R. Setting		tix	<u> </u>	_ Notches		
☐ Air Over Water	2586 KPAG	Sho	p Test Gauges U	lsed:	1. <u>7D</u>	2	116		
BackPressure TEST:								~~	
AND THE PROPERTY CONTRACTOR OF THE PROPERTY OF	licable, (Open Bonnet	/ Cap Design)							
	PSIG Air	, emp 2 ee g.,,							
SEAT TIGHTNESS TEST: API-527  Test Fluid Reg'd At	Leak Tes	t Pressure	338_psig_2	233	KPAG				
Test Fluid Reg'd At		e Leakage							
Waters 95% Of Set Pre	ssure LeakRat	te: <b>9</b>	B.P.M.	Final	Inspection / T	echTest	ed: Tim		
☐ Air Over Water					DateC	omplete	d: May	120/05	
- A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A									
	FOR WIT	NECC TE	STING ON	v					
	FOR WIT	nego ie:	STING ONL	. 1					
Tested By:		r	Date:						
		<u></u>			· 0.70-7			•	
Customer Witness:		<u> </u>	Farris Witness:	:				<del></del>	



### CONSTRUCTION DATA REPORT FOR PIPING SYSTEMS

In accordance with the provisions of the Safety Codes Act

Shop Construction  $\boxtimes$ ; Field Construction  $\square$ ; Final Data Report  $\boxtimes$ ; Partial Data Report  $\square$  (from one ABSA-authorized Contractor to another ABSA-authorized Contractor).

#### Complete both sides of this Form

1.	Constructed By:	Toromont Process S	Systems Division	Of Toromont In	dustries Owner	r's Job	No: <u>11726</u>	
	j	(Name of ABSA aut	horized primary contra	actor or subcontract	tor)			
		10121 Barlow Trail						
	. A 11	No. AOD 14	•	dress)	Expiry Date:	Decen	nber 12 2005	5
	Alberta Quality P	rogram No. AQP- <u>14</u>	03(3)		Expiry Date:	DOUGH	1001 12 2000	
2.	Constructed For:			me As Above	-1\			
		(	Name of primary contract		above)			
			Sa	me As Above				
	· · ·			dress)				
	Alberta Quality F	Program No. AQP nary contractor undertakes sor	-		Expiry Date:			
	(Required when the prin	nary contractor undertakes sor	ne/all of the quality funct	ions, e.g., Mat'l suppl	ly, NDE, PWHT, Ti	e-in, fabric	cation, hydro test,	final assembly
	etc.)							
3.	Owner: Hus	sky Energy Inc. 707	8th Avenue S.W.	Calgary Alber	rta T2P 3G7			
			(Name and address)					
		LSD :	100\13-29-38-02	W5M				
		<del></del>	(Location of installation	)				
	Alberta Quality I	Program No. AQP			Expiry Date:			
	(Required when the ow	ner undertakes some/all of th	e quality functions, e.g.,	Mat'l supply, NDE,	PWHT, Tie-in, fabri	cation, hy	dro test, final ass	embly etc.)
4.	Piping Design A	lberta Registration N	o.: PP					3.
	_			(Re	equired if aggregate p	oiping volu	me is over 0.5m	(*) }
5.	WP No.: WP-49	6.2 ; Company: <u>T</u>	oromont Process	Systems	_;Owner's wi	r 140. (1	(Alberta Reg	istration No.)
	(Alberta Re	egistration No.)		Owner's WPS	No(s) (If used	D•	(Alberta Reg	istration 140.)
	WPS No(s). used	1: WP # 1,5,0		Owner 5 WIB	110(5). (11 4500	·)·		
6	. Code: AS	ME B31.1 Non Boil	er External Piping	;□;	ASME B3	31.1 Bo	iler Externa	l Piping 🗆
	AS	ME B31.3 ⊠ - Servi	ce category: Norm	al⊠, D⊠, M[	□, High Pressu	re □;	B31.5 □;	B31.9 □.

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp <sup>o</sup> F	Test Press. PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A. IN	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. <sup>0</sup> F	R.T. %	Other NDE
Dwg # 11726-101 Rev 1												
4"-HG-INLET-1-C31	GAS	375	250	413	AIR	SA-106-B	.0625	4" STD 3" STD	SA-105N 300#	60	5	VISUAL
4"-HG-V1-1-C31	GAS	375	250	413	AIR	SA-106-B	.0625	5" STD 4" STD 1" XH	SA-105N 300# SA-105N 3000# NPT	60 / NA	5/NA	VISUAL
4"-HG-V2-1-C31	GAS	375	250	413	AIR	SA-106-B	.0625	4" STD 3" STD 2" STD 1" XH	SA-105N 300# SA-105N 3000# NPT	60 / NA	5/NA	VISUAL
3"-HG-V3-1-C31	GAS	375	250	413	AÏR	SA-106-B	.0625	2" STD	SA-105N 300#	60	5	VISUAL
3"-HG-V3-C31	GAS	375	250	413	AIR	SA-106-B	.0625	3" STD	SA-105N 300#	60	5	VISUAL
3"-HG-OUTLET-C31 4"-HG-E1-2-C31 3"-HG-E1-2-C31	GAS	375	250	413	AIR	SA-106-B	.0625	4" STD 3" STD 1" XH	SA-105N 300# SA-105N 3000# NPT	60 / NA	5/NA	VISUAL
2"-HG-C1-1-C31	GAS	375	250	413	AIR	SA-106-B	.0625	4" STD 2" STD	SA-105N 300#	60	5	VISUAL
1"-HL-V1-1-C31	Hydrocarbons	375	250	413	AIR	SA-106-B	.0625	l"XH	SA-105N 3000# NPT	N/A	N/A	VISUAI
1½ "-L-E2-2-C31 1½ "-L-V2-2-C31	LUBE OIL	375	250	413	AIR	SA-106-B	.0625	1½ "XH 1"XH	SA-105N 300# SW SA-105N 3000# NPT	60 / N/A	N/A	VISUAI
			-								<u> </u>	

Partial Data Reports, properly identified and certified by ABSA-authorized contractors, as listed below are attached to and form part of this Data Report

No.	Line No.	Spool No.	Drg. No. (with Rev. No.)	Contractor (Name)	AQP No.	Expiry date
-						
-						
-						
-						
-						
-				*		
-						

Remarks: Provide additional comments including noting any code work that was not performed by the ABSAauthorized contractor(s) supplying this document as a Partial Data Report but which must be completed by another ABSA-authorized contractor who assumes overall responsibility for conformance with the Safety Codes Act & Regulations and applicable ASME Codes, and who assures that all required code work is completed prior to putting the piping system into service. Endorse certificate 'A' or 'B' A. CERTIFICATE OF COMPLIANCE B. CERTIFICATE OF COMPLIANCE Signed by the subcontractor when supplying this certificate as a Signed by the primary contractor when supplying this certificate as a Partial Data Report Final Data Report We certify that the statements in this Data Report are We certify that the statements in this Data correct and that materials, construction and Report are correct and that piping job no. 11726 workmanship of the piping fabrication conform to the described in this Data Report was constructed in registered quality system and the applicable Piping accordance with the Province of Alberta Safety code(s). Codes Act and Regulations, and applicable Date: ASME Piping Code(s). Subcontractor Date: July 6 2005 Toromont Process Systems **Primary Contractor** Print Authorized Representative's Name Rob Power This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor Print Authorized Representative's Name Signature CERTIFICATE OF INSPECTION I, the undersigned, employed by Globol have inspected the piping job no. 11726 described in this Construction Data Report and state that, to the best of my knowledge and belief, the Contractor has constructed this piping in accordance with the applicable Sections of the ASME Piping Codes and Province of Alberta Safety Codes Act and Regulations. Date: July 6 2005 Date: Dean Labbe Sign.: Name: ABSA Safety Codes Officer Print Owner's Inspector's Name Owner's Inspector's Signature (BOILER EXTERNAL PIPING ONLY)