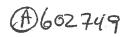
FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1



												_							
1. Ma	anufactured ar	d certified by	Alc	o Gas & Oi	l Produc	ction Equ	ipment	LTD.						a T6I	5S5 C	anada			
2. Ma	anufactured for	<u>Cana</u>	dian N	atural Reso	ources L	td. 2500.	855 - 2	St SW	Calgar	y, AB		3			_				
3. Lo	cation of insta	lation E	BEG, E	BC (LSD: a-	-3-K / 9	4-g-1)			(ivame	and add	dress of Pu	irchaser)						
		T ITTO	777.7.4.1	•			~~ ~~ ~ .			,	me and add	dress)							
4. Ty	pe:	VEK (Horiz., vert.,	TICAI or sohe					COL C jkt. vesse								2009-8			
		U-6638.		,	D 200	08-7860-				ii., 610.j		NT/A			(Manufac			umber)
		(CRN)	41		10-20		ing numbe		_		(Na	N/A ational B	oard n	umber	-		(Year	011 built)	
E AC	SME Code, Se	otion VIII. Die		2007 EDIT	וטאַ אַטּר			,	TAT/A		('		(TCAI	Dulity	
				[Edition	and Addend	da (date)]			N/A	(Code (Case No.)			N/A	[Special S	ervice per	UG-120	Vd)1	
Items	6 - 11 incl. to	be complete	d for sing	gle wall vessels	, jackets c	of jacketed v	essels, s	hell of hea	t exchan	gers, or	chamber of	f multi-cl	hambe	rvesse	els.			(-//	
6. She	el (a) Number o	f course(s):	2_			-		(b) Over	all length	(ft & in.)	: <u>28'-</u>	<u>-0" SN</u>	I/SM						
	Соц	ırse(s)			Material		Thi	ckness	L	ong. Joi	nt (Cat. A)		Circu	um. Joi	nt (Cat. A	B. & C)	He	at Trea	tment
No.	Diameter, in.	Leng	th		rade or Ty	/pe	Nom.		Type		oot, None	Eff.	-	т-	Spot, None		1		Time
1	16"OD	7'-6'	,	S	A-106B	0.843" 1/8" S N/A 100% 1 FULL 100% 1150°F 1HOU													
1_	16"OD	20'-€	5"	S.	A-106B		0.843"				√A	100%	1		ULL		6 115		HOUR
7. He	eads: (a)			T (1150°F) c. number, grade			temp.)		(b)	SA-5	16Gr.70 (Materia	MT (I	150 ⁰ mber, g	FFO	R 1 HO	UR) – time an	d temp.)		
L	ocation (Top,	Thick	ness	Rac	lius	Elliptical	Coni	ical	Hemispherical		Flat	T T		Pressure			Category A		
В	ottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex	Angle	Radius Dia		Diameter		vex					Spot, None	
(a)	TOP	0.803"	1/8"		N/A	2:1	N/	A	N/	Α .	N/A	N/	A	Cor	ncave 1	N/A	N/A		N/A
(b)	BOTTOM	0.803"	1/8"	N/A	N/A	2:1	N/	A	N/	A	N/A	N/	A	Cor	cave 1	N/A	N//	A	N/A
If rem	ovable, bolts i	sed (describ	e other f	astening)	N/A			11.0											
										(Mate	rial spec. n	umber,	grade,	size, n	umber)				
8. Ty	pe of jacket	N/A							Jacket	losure	N/A								
15	bar, give dime		N/A									1)	Descrit	oe as o	gee & we		•		
		_		DOT .		1.5	00=		·							if bolte	d, desc	ribe or	sketch.
9. M/	(ir	50 PSI itemal)	(exte	mal)	ax. temp.	(inte	,	150 (extern	nal)		Min. design		•		-20°F	at	13	50 PS	SI
10. ln	npact test	NO, CHA	RPY	IMPACT T	EST EX	EMPT I	PER UC	3-20(f),	FLAN	GES P	ER UCS	S-66(c))		at test ter	nperatur	e of		
			т	Tudunatatia	1776					ent(s) in	npact tested	d)							
11. H	ydro., pneu., o s 12 and 13 to	r comb. test he complete	press. F d for tube	<u> Yydrostatic</u>	175	55 PSIG	— Proof	test _N	/A										
		5 0 00111p1010	N/A	, , , , , , , , , , , , , , , , , , , ,		37/4													
12. 11	ubesheet:	Stationary (Ma		io)]	Diamete	N/A er (subject to p	I/ sage		(Nac	N/A		10	N/					<u>/A</u>	
	N/			N/A		er (acolect to l		/A	(1401)	ninal thick	•	(ÇOI	r. allow.	.)	Į,	Attachmen		d or boite	ed)]
_	[Floating (Mat'l S			(Diamet			(Nominal t		_	- (N/A Corr. allow.)			***************************************	- (N/ Attachmer			
13.Tu	bes:	N/	'A			N/A	•	,	7	V/A.	,,		N/A		٧,	WELL CHAIRE	., N/	A	
	(Mat'i S	pec. No., Grad	e or Type	, –	((O.D.)		(No	ominal th				(Numb			Пла		ight or	1 1\1
Items	14 - 18 incl. to	be complete	ed for In:	ner chambers o	of jacketed	vessels or	channels						(11011)	,		1.14	re (Otti	agra or	0/1
14. SI	hell (a) No. of	course(s):	1_(CO	IL)				(b) Overa	all length		3'-0'	,							
Course(s) Material								Thickness Lon							Circum. Joint (Cat. A, B, 8		& C) Heat Treatn		atment
No.	Diameter	Length		Spec./Grade or Type		1	lom.	Corr.					Type Full, Spo				Temp.	Time	
1	1.050"OD	3'-0"		SA-	312Tp.30)4		154"	0	S	N/A			N/A		-		1150F	
				(4							17/2		100	13/0	500		NA	LIJUE	1HR
15. H	leads: (a)	SA-105N	CL60	00 COUPL	ING (11	150°F FO	RIHO	OUR)	(b)	SA-10)5N CL6	000 C	OUP	LINC	3 (1150 i.TTime &	°F FO	RIF	OUR	
IL	ocation (Top,	Thick			Radius		otical	Conical	Hon	ispherio						remp.)	0		
Pottom Fodo)					Apex Ang	1		Diam	_	Conve	le to Pr	essure			Category A full, Spot, None				
(a)	END	CL6000	1/8"	N/A	N/		V/A	N/A		N/A	N.		N/A			N/A			Eff.
(b)	END	CL6000	1/8"	N/A	N/		J/A	N/A		N/A	N/		N/A	_		N/A	N		N/A N/A
M was	ovable bolte u												11/21			13//	IN/	Α	IN/A

N/A (Mat'l Spec. No., Grade, size, No.)

16. MAWP	1350 (intern		350 PSI at max (external)	r. temp150°]	F150°F	_ Mir	ı. design m	etal temp	0°F at	13 <u>50</u>	<u>PSI</u>		
17. Impact test	•	•		D(1)					test temperature	of			
18. Hydro., pne			PI VOITO STRITO			onent(s) im	pact tested	(A	1)60=	74	9		
19. Nozzles, in:	pection,	and safety	valve openings:					<u> </u>			11 12 1 2 1		
Purpose (inlet, Diameter Flange				Mate	erial	Nozzle T	hickness	Reinforcement	How Atta	ched	Location		
Outlet, Drain, e	ic.) No.	or Size	Type	Nozzle	Flange	Nom. Corr.			Nozzle	Flance	⊣ 1		
GAS INLE	т 1	ייצ	CL 900 REWN	SA-106B					IDV 16 1(a)				
GAS OUTL		3"							1				
		111				1					Location (Insp.Open) I SHELL I Top Head SHELL SHELL SHELL SHELL SHELL SHELL And how) CA d		
PSV			per units of the property of the per per per per per per per per per pe										
OIL OUTL		I ii				1	1/8"	N/A	UW16.1(a)	N/A	SHELL		
GLYCOL O		Ι**	TOL	SA-105N	N/A	CL6000	1/8"	N/A	UW16.1(a)	N/A	SHELL		
TEMP IN		3/4"	TOL	SA-105N	N/A	CL6000	1/8"	N/A	UW16.1(a)	N/A	SHELL		
PRESS IN		1/2"	TOL	SA-105N	N/A	CL6000	1/8"	N/A	UW16.1(a)	N/A	SHELL		
20. Supports: 5	Skirt	Yes	Luas	NO Legs	NO Othe	rs		ΔΗ		9			
(1)													
22. Remarks: 1	יד חבי	D T TWY 1	I/a) /NO DT ON	COT /IDDDOT	POTED DI HOI	OYTONITE.	I DOGI	TION					
						165-01-0	01/001 E	₹0					
SOLD	O 201	1-8165-	OI / SEE ATTAC	CHED U4 DATA F	REPORT					n 5	2. 0. 32		
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 14259													
			(Authorized inspector)			(Na	at'l Board Incl. endor	rsement, State,	Province and	i No.)		
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 Code, Section VIII, Division 1. U Certificate of Authorization No													
					FIELD ACCULA				auve)				
and employe have compa	i, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province of and employed by												
expressed o	implied,	concerning	the pressure vessel of										
	be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.												
	,		_	,ge e, loud of a			. verti tillə İl	epecial.			_		
Date		Signe		Authorized Inspector)	Comm	issions	/Newton	el In al	4 Otal: 5		19		
				nomonzeu mspector)			(Nati Boa	rd incl. endorsemen	t, State, Provinc	e and No.)			

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

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



1. Manufactured a	ind certified by	Alco Gas & Oil I	Production Equip					Γ6E 5S5 Can	ıada			
2. Manufactured fo	or Connd	ion Motural Passaur	aaa T +4 2500 951		Name and addr							
c. wandactired it	Canau	ian Natural Resource	ces Ltd 2500, 85:		algary AB] ne and address							
3. Location of insta	allation	BEG, BC (LSD: a-	3-K/94-g-1)				aser)					
,	VED	TICAL	(Name and address) 3PH GLYCOL CONTACTOR 2009-8009-01									
4. Type:		rt., or sphere)		tor, heat exh., etc.)	2009-8009-01							
	U-6638.23	, - ,						(Mfg's serial No	•			
	(CRN)	71		0-01/001/002 awing No.)	RI		N/A		20			
. Nozzles, in		afety valve openings:	(5)	awiig No./		(Nati	ional Board Numbe	r)	(Year bu	iilt)		
Purpose (Inlet,	Diameter	Flange	Mate	Nozzle Thi	ckness	Reinforcement	How Attached		Location			
Outlet, Drain, etc.)	No. or Size	Type	Nozzie	Flange		Corr.	Material	Nozzie	Flange	(Insp. Open)		
LEVEL CONT	1 2"	TOL	SA-105N	N/A	CL6000	1/8"	N/A	UW16.1(a)	N/A			
LC / INSP	1 2.375"	TOL	SA-105N	N/A	CL6000		N/A	UW16.1(a)	N/A	SHELL		
Water Out	1 1"	COUPLING	SA-105N	N/A	CL6000		N/A	UW16.1(a)	N/A	TOP HD		
Chimney TD	1 1"	TOL	SA-105N	N/A	10	1/8"	N/A	UW16.1(a)		SHELL		
GLYCOL IN	1 1"	TOL	SA-105N	N/A	i i	1/8"	N/A	UW16.1(a)	N/A N/A	SHELL		
INSPECTION	1 1.900"	TOL	SA-105N	N/A	CL6000		N/A	UW 16.1(a)	N/A	SHELL		
LEVEL GAGE	1	TOL	SA-105N	N/A		1/8"	N/A	UW16.1(a)	N/A N/A	SHELL		
Tray Drains	8 1/2"	TOL	SA-105N	N/A		1/8"	N/A	UW16.1(a)		1		
EOUALIZER	1 1"	TOL	SA-105N	N/A	CL6000		N/A	UW16.1(a)	N/A	SHELL		
					CLOOO	1/8	IV/A	10 W 16. R(a)	N/A	SHELL		
			(9.0						-			
						-		 		-		
***************************************	i i									-		
								10		<u> </u>		
						_				1		
				-								
										 		
										 		
				<u> </u>								
					-			10				
	ļl.	1		1								
Data Rep Item Nun				Rema	rks		19					
									······			
<u>, , , , , , , , , , , , , , , , , , , </u>												
Certificate of Autho	orization:	Type U	No. <u>14259</u> Expires <u>OCTOBER 7</u>									
Date <u>2/16/201</u>			Oil Production E		-	Signed	1.1		**			
Date 172-	16-11		(manufacturer			_	ABZU	(representative))			
06-	10-11	INE		norized Inspector)	Con	nmission		l. endorsement, s	state, provinc	e and no.)		