ASME

National Board Number: 2665

Mr. Representative: Noticy Date: April 2015

Authorized Inspector: Date: April 2015

PAGE /

-	A	s Requ	iired													iles, Secti		ılı, D	ivision	1	
Manufactured and certified by						Ilsung Coporation #74 Daejeong-Ro, Onsan-Eub, Ulju-Gun, Ulsan 689-892, Republic Korea.															
						(Name and address of Manufacturer)															
2. Manufactured for						SHELL CANADA ENERGY 400 4AVE. S.W., BOX 100, STATION M, CALGARY, ALBERTA T2P 0J4 (Name and address of Purchaser)															
3. Lo	catio	on of insta	allation				CAR	MON C	REEK	EXPANS	ION IN	PEACE	RIVE	R COM	PLEX, /	ALBERTA, C.	ANAD	Α			
и т	vna			Horiz	onta	(Name and address) I Heat Exchanger 14-HE-081 or sphere) (Tank, separator, jkt. vessol, heat exch., etc.) (Manufacturer's serial number)															
Iype Horizontal, vertical						or sphere)		-	(Tank, s	eparator, jk	it. ressel, heat exch., elo)					(Manufacturer's serial number)					
_			852.2			VF	P-SG07	-E115	70-001	Rev.9			fat-W	2065					2014		
F 40						0010 50	214	(National Board number)					(Year bull) N/A								
3, A	5, ASME Code, Section VIII, Div. 1				-	(Edition and	iate)]	(Code Case number)					[Special service per UG-120(d)]								
ltem	5 6-	-11 incl.	to be	comple	eted	for single.	wall ve	essels,	jackets	of jack	eted v	essels, si	iell o	f heat e	change	ers, or cham	iber o	f multi	chamber	vessels	
5. S	hell:	(a) Nu	mber	of cours	e(s)			3			(b) Ov	erall leng	ith _		65	36mm					
_		Co	urse(s)			T	Thic	kness		Long. Joint (Cat. A)			Cir	A, 8 &	L B & C) Heat		realment				
No.		Diamoter		Lengt	h	Spec/	Grade or	Туро	Nom. Corr		Туре	Full, Spo	i, None	a Ett,	Туре	Full, Spot, None		Elf.	Temp.	Timo	
2	1,1	D 1150mm	1	2200n	ım		516-70(17mm	1.5mm	1		Fuii 1.0		1	Full		1.0	-	-	
1_		D 1150mn	1	2136n	m	SA	SA516-70(*1)		17mm	1.5mm	1	Fuli		1.0	full Full		1.0		-	-	
_		(BLANK)																		<u></u>	
							_			Body FI	anges on	Shells	—г				***				
													+		T	80	olting \	Washer	T-		
	No. Type		(1)	CD		Flange Thk	Min Hu	b Thk	Material	How	Attache	d Locati	on	Num & S	ize	Bolting Material (D, D,thk)	Wash	er Material	
(BLA	NK)			-	-		-			1			\dashv								
																		0			
_																					
7. F	lead	ls: (a)					-					(b)									
				(Mat		pec. number, g Radio					Т.		Т			umber, grade or o Pressure	type) (H		nd temp.) tegory A		
	Location (Top, Bottom, Ends)			-	Corr.	-	Knuckla	Ellipt Rat		Conical Apex Angle		emispherical Radius	0	Flat liareelar	Convex	1	Type	T	Spot, None	EH.	
(a)		(BLANK)																			
(b)											工										
	_									Body Fl	anges on	Heads									
	T			T	П			22				Tia Ti				Во	hing				
	Location Type ID				OD	Min Heb T	ht 1	Material How Attached			Num & Si	za Bo	THE COLUMN THE PERSON TO SERVICE TO SERVICE THE PERSON THE PERSON TO SERVICE THE PERSON THE PERSON TO SERVICE THE PERSON TO SERVICE THE PERSON TO SERVICE		asher (D, thk)	Washa	er Material				
(a)	(BLANK)	1404	2 10	+	OD	Flange	11.5	all rico i		rateral	THOM PAGE	Cinco	ream et or		tray material	(05,	io, eso	1(03/10	n material	
(t)																				
8. 1	ype	of jacks	et _				N/A					acket clo	sure	-		(Describe as oge	N/A e and a	reld, bar,	eto.)		
	f ba	r, give o	imens	sions							N/A						4.2000		scribe or	sketch.	
9. N	đΑV	_	39kPa		F,V		nax, te	mp.	110°		110 (Exter		lin. d	lesign me	etal ten	np45°	<u>C</u>	at .	3639kP	<u>a</u> .	
10.	Imp	act test				(02) and no			JCS-66		Note(c) for bolt	ing m	naterial.	at tes	t temperatur	e of _		-45°C	— ·	
11.	Hyd	ro., 🚃	in or	COMM 1	est	pressure _		57	00kPa		_ Pro	of test _				-					
Iten	15 1	2 and 13	3 to b.	е сотр	leted	for tube :	section	S.													
	Items 12 and 13 to be complete 12. Tubesheet SA765-II+S31					20 520 225		0mm		73+10mm				1.5mm				WELDED			
	0.50	0.000FFF	[Sta	illonary (m	atertal	spec. no.ll	[Ola	(Diameter (subject to press.))			(Nominal thickness)				(Corr. adow.)			Mttach	nant (weldod	l or boited)	
			· IFI	leating (ma	terial	spec, no.)]	-	(Oia	meter)		(No	- omhal thickns	se)		(Co	rr. allow)			(Attachment	Ú	
	Tubes SA789-S318							19.05m	2000 H		7	1,63mm				1952			Straight		
(0.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.							(00)		(Nominal Phickoges)					-	Murcharl	-	Trea (Straight or III)				



Mit. Representative: DSUM Date: APR 10/30/HAuthorized Inspection Date: APR 18.30/S

FORM U-1 (Cont'd)

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County 1				_		aterial	This	méss		Overall length Long. Joint (Cat. A)							Hank	Treatment			
No.	Course(s) Diamoter Length			30	_	ade or Type	Nom.	Corr.	Type Full, Spot, N				Type					Heal Treatment Temp. Time			
1	1.D 1150mn	2	-			-)-S31803	15mm	0.0mm	1	_	Full	1,0	1		Fuil	-+	1.0	-	11116	
1	I.D 1150mn	_	1024mm 924mm		_			15mm	0.0mm	1		Full	1.0	1		Full	+	1.0		1	
+	(BLANK)		-seturi	SA240-S31803			- I Committee	Q.COTIFIT		1						\dashv	1.0				
	100000																				
			-						Body Fla	nges o	n Shells										
								1							Boltin Bolting	0	Washer				
No. Type I			10 00		Flange T	7k	Min Hub Thk	Material	How	Attached &		cation	Num & Stre			Material		(OD, ID, thk)		Washer Materia	
4 (•2) 1150		1150m			98mm		15mm	_(+6)	Single	, butt weld		End	60,1 1/8	-8UN×30	OL SA	SA320-L7M		58, 32, 6m		n ASTM-F436	
LAN	K)	-	+			_			_		+				\dashv		-		-		
	-	-	+			\dashv			+-		-+						+-				
					<u> </u>																
5. H	eads: (a)						CLAD(+1)		Ά		_ (b) _		SA	765-II+S	31803	CLAD(-1) -	H.T-I	N/A		
- 1		-				, grae	de or type) (H.	1	Lond	_			(Materia	spec, num			(H.T.				
	-Location (Top Bottom, End:		Thickness		-		Radius vn Knuckie	Elliptical Rallo	Conica Apex Ar		famispheric Radius		Flat Dameter	Side to P	1 -				legary A	- 1 - H	
+		-	-	lib.	Con.	Crov		-	-	-		_		Convex	Conca	-	ype	Fue,	Spát, Na	na Ett.	
(a)	End		_	nm(+12)	0.0mm		+		-	+		\rightarrow	358mm 358mm			-	_			+-	
61	End	1 80	1001	nm(*12)	O'OURIL								Somme				_	<u> </u>			
									Body Fi	inges o	n Heads										
			3													Boltin	_				
				ID	OĎ	1.	Flange Thik	Min Hub Th		laterial	How	Attached	Num & Si	dum & Siza Sottina		Material (6		asher ID, thk)	Wa	Washer Materi	
(a)	(BLANK)	Typo	1 10		- 00	1	Large Trix						THE IS OF			-	1 100,10,1				
(b)		1	1			1	-				-								7		
	AWP 96																				
7. Ir	ipact test				lind	cate	YES(Ch	HANNEL-/	(a) Impac	l lested	1		{	it test te	mperal						
7. Ir 8. F	pact test		टामचे	i. test p	lind	cate -	YES(C) yes or no and	HANNEL-/	(a) Impac	l lested	1		{	it test te	mperal						
7. Ir 8. F	ydro., m.c. ozzles, ins	n, or co	टामचे	i. test p	lind ressure y valve o	cate -	YES(C) yes or no and	HANNEL-V the compone 1500 kPa	(a) Impac	l lested	1			at test te	mperal			-4	5°C	·	
7. Ir 8. F 9. N	pact test	pection	omb	i. test p	lind	cate -	YES(C) yes or no and	HANNEL-V the compone 1500 kPa	NO1) ni(s) Impac	Pro	oof test		Rein	it test te	mperal	ure of_		-4	5°C		
7. In 3. F 9. N	ydro., proceedings of the proceedings of the proceedings of the proceeding of the pr	pection	omb	i, test p	lind ressure y valve (Diameter or Size	oper	YES(C)- yes or no and 2 nings:	the compone 500 kPa	AOI) ni(s) Impac	Pro	I DOF test Nozzle T	hickness	Rein	t test to	mperal A	ure of	Dotal	-4	Loc Unsp.	atlon	
7. In B. F 9. N	ydro., mec ozzles, ins Purpose let, Outlet, Dra HELL SIDE	pection ain, etc.) INLET	n, an	i, test p	lind ressure y valve of Diameter	oper	YES(Chares or no and 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HANNEL-/ the compone 500 kPa Ma Nozzle	AO1) Int(s) Impac	Pro	Nozzle T	hickness Córr.	Rein N	torcement	A No	ttachmant	Dotal	-4	Loc Unsp.	cation Open.)	
7. In B. F 9. N	ydro., proceedings of the proceedings of the proceedings of the proceeding of the pr	pection ain, etc.) INLET	n, an	i. test p	Indiressure y valve (Diameter or Size DN 150	oper	YES(C)- yes or no and 2 nings:	Mozzle SASS3-6	AO1) Int(s) Impac	Pro	Nozzle T Nom. 5.09mm	hickness Corr. 3.0mr	Rein M	torcement	A No.	ttachmant	Detail Flar	-4	Loc Unsp.	cation Open.)	
7. In 88. H 99. N	ydro., med ozzles, ins Purpose let, Outlet, Dra HELL SIDE (UBE SIDE (pection als, etc.) INLET OUTLET	n, an	No.	Valve of Diameter or Size	oper	YES(Chyes or no and 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Max Nozzle SA333-6 SA333-6	NO1) Ini(s) Impac	Pro	Nozzle T Nom. 5.09mm	hickness Cerr. 3.0mr	Rein N SA5	torcement laterial 16-70(+1)	A No	trachment zzie 4)	Flas	-4	Loc Unsp.	cation Open.)	
7. In 188. H	ydro., met ozzles, ins Purpose kt. Outlet, Dra HELL SIDE (UBE SIDE (pection ale, etc.) INLET DUTLET INLET	and i, an	No.	valve of Diameter or Size DN 150 DN 600	oper	YES(Chyes or no and 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Manuel -/ the compone 1500 kPa Manuel Nozzie SA333-6 SA333-6 (+6)	(-6)	Pro	Nozzle T Nom. 5.09mm 5.09mm	Corr. 3.0mr	Rein N SA5	torcement lateral 16-70(+1) 16-70(+1)	A No.	ttachment zzla 4)	Dotal Flas	-4	Loc Unsp.	cation Open.)	
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National Board Number: 2065

Mir. Representative: CS 12/7 Date: HR 17/2015

Authorized Inspector: Date: APt-18, 2015

FORM U-1 (Cont'd)

PAGE 3

	CERTIFICATE OF SHOP O	OMPLIANCE	
We certify that the statements in this repo	ort are correct and that all details of	design, material, construction, an	d workmanship of this vessel
conform to the ASME BOILER AND PRESS	SURE VESSEL CODE, Section VIII, Di	vision 1.	
U Certificate of Authorization Number	32,997 Expires DEC. 04,	2016 C N GIM	-fu
U Certificate of Authorization Number Date #k.19/2015 Name	ILSUNG CORPORATION.	Signed	767
	(Manufacturer)		(Representative)
	CERTIFICATE OF SHOP I	NSPECTION	***
I, the undersigned, holding a valid commi-	ssion issued by the National Board of	f Boiler and Pressure Vessel Insp	pectors and the employed by
HSB Glob	oal Standards	of H	artford CT.
have inspected the pressure vessel described	I in this Manufacturer's Data Report on	Apr. 18.20t	, and
state that, to the best of my knowledge and	I belief, the Manufacturer has construc	ted this pressure vessel in accorda	ince with ASME BOILER AND
PRESSURE VESSEL CODE, Section VIII, Divi			
or implied, concerning the pressure vessel d		어느님이 어느로 있는 어느리는 그들이 되어 되어 되었다면 하는데 하다면서 어느 아니다는데 얼마나 나를 했다.	일하나 하면 그런 얼마님이 되었다면 할 때까지 그 그래? 나라 하다 하다 하다 그 그래? 함께 하는 그
be liable in any manner for any personal inju	y or property damage or a loss of any	kind ansing from or connected with	this inspection.
Date Apr. 18.2015 Signed S.JANG	Commi	ssions NB#14	14 12(A,N)
			(incl. endomementa))
E and the Anna Anna Anna Anna Anna Anna Anna Ann	CERTIFICATE OF FIELD ASSEM		
We certify that the statements in this report a			
of ASME BOILER AND PRESSURE VESSEL CODE,	Section VIII, Division 1. U Certificate of Authoriz	ation NumberE	xpires
Date Name	(Assembler)	Signed	presentative)
	(Assembler)	(Re	presentative)
	CERTIFICATE OF FIELD ASSEM	BLY INSPECTION	
I, the undersigned, holding a valid comm	ission issued by the National Board	of Boiler and Pressure Vessel	Inspectors and employed by
1	have compared the statements in this	Manufacturer's Data Report with	the described pressure vessel
and state that parts referred to as data iter	ns -	, not included in the certificate	of shop inspection, have been
inspected by me and to the best of my kno	wledge and belief, the Manufacturer ha	s constructed and assembled this	pressure vessel in accordance
with the ASME BOILER AND PRESSURE			
hydrostatic test of By s			
implied, concerning the pressure vessel do	escribed in this Manufacturer's Data F	eport. Furthermore, neither the In	spector nor his/her employer
shall be liable in any manner for any person	hal injury or property damage or a loss	of any kind arising from or conne	cted with this inspection.
Date Signed		Commissions	
	(Authorized Inspector)	[National 8	oard (incl. endorsements))