A622253

## FORM U-1A MAN FACTURER'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 certified by Kootenay Industries Ltd. 5982-86 Ave. S.E. Calgary, AB T2C 4L7  (Name and address of Manufacturer)																	
2. Manufa	ctured for		<u>.</u>	Shell Canada 400-4 Ave. S.W. Calgary, AB T2P 0J4 (Name and address of Purchaser)													
3 Location of installation Peace River, AB SW 21-85-18 W5M																	
							(Nam			me and addn	ne and address)			N/A	v	2012	
4. Type	(Horiz ocy	(Mfg.'s serial No.)				V8559.2 (CRN)			12-079-A REV.0 (Drawing No.)			~	(Natl. Bd. No	.)	(Year Built)		
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL  CODE. The design, construction, and workmanship conform to ASME Rules Section VIII, Div. 1																	
											Year N/A						
to		Adde				_		2714 Code Case No.						Special Service	per UG-120		
6. Shell:	5			0"			.125"			'-0"			32'- (Length o				
. Matl. (Spec. No., Grade)					Nominal Thickne			,			(Inner Diameter)  TYPE 1			F	FULL	· 100%	4
( Seams: Type 1 Fund 1999 1991 1991 1991 1991 1991 1991 19										No. of courses							
8. Heads:	(a) Material			SA	-516-70	)N		(b) Material					SA	4-516-70N			
	leads: (a) Material				(Spec. No., Grade) Corrosion Crown			Knuckle Elliptical			Conic	Hemispherical				Side to Pressure	
I	Location (Top Bottom, Ends)	Thick	ness	Allo	wance 125"	Radiu		Radius		Ratio 2:1	Apex Ar	ngle	Radius				x or Concave) NCAVE
(a)	END END	0.43	375" 375"		125"	·				2:1						CO	NCAVE
If removable holts used (describe other fastering)																	
(Mart Spec. No., Grade, Size, No.)  N/A at max. temp. 200°F N/A																	
9. MAWP 50 PSIG N/A at max. temp. 200 F (Internal) (External) (External)											al)						
Min. desig	n metal temp		-49°F		at	50 F	SIG	H	lydro	, <del>pneu., or o</del>	omb. test pr	essure _	75 PSIG	i	Proof te	st	N/A
10. Nozzle	es, inspection,	and safety	y valve op	ening	s:								1				
	pose tlet, Drain)	No.	Diame or Siz			ie	Material			Nozzle T	Reinforcement Material	Reinforcement Attachme		nt Details Location			
(mier, Oc	uot, Dianiy		0, 5,2	. 5.20			Nozzie Flange			Flange	Nom.	Corr.			Nozzle Flange		(Insp. Open.)
			SEE		ATTAC	HED	\$	UPPLE	MEN	ITARY	FORM	U-4					
			L				3.00		NIO.	Othe	ır	SADDLE	S Atta	ache	ed .	BTM WE	LDED
11. Suppo		(Yes or			(N	NO umber)		1)	Numb	er)	**	(Describe)	+			(Where and	i how)
12. Remai	rks: Manufa	acturer's	Partial D	ata	Reports	properly	iden	tified an	id s	igned by C	ommission	ed Inspect	ors have been	n f	urnished for	the follow	wing
items of the report(Name of part, item number, Manufacturer's. name and identifying stamp)																	
VOL. 17	758.8 Cu. F	t. (49.8	Cu. M.)		QUA A	OMMA	NIA T	ANK	F	RADIOGRA	APHY AS	PER PA	RA UW-11(	a)_	\ //OE\		r
IMPACT	TEST EXI	EMPT A	SPER	UCS	3-66 CL	rve D	(Head	ds & St	nells	s), UCS-66	8(g) Fig. 8	34.1	(SWEET S	<u>EK</u>	VICE) Au 8-3/4" Shr	ls & 16-Nut	s. 1-10°CL150
MANUF Blind Flan	ACTURE L ge c/w 12-7/8"	NAVVIN <u>2.8</u> Studs	NG# 12- 24-Nuts <u>, 1</u>	079- -24°C	L150 Blir	.∠ 1-2° id Flang	CE300 e c/w 2	0-1 1/4" S	ange tuds	& 40-Nuts. S	A-193-B7M	& SA-194-	300 Blind Flang 2HM				
						- (	CERTIF	FICATE (	OF S	HOP/FIELD	COMPLIAN	IÇE					O de fee
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 Number 38,258 Expires February 11, 2015																	
Date (	Sept.	12/1	2 co. i	Name	•	Koot	enay	Industr	ies	Ltd.	;	Signed	1/	Z	u 96	<u>Z</u>	
	Jan.	176737					CERT	(Manufact	,	SHOP/FIELD	INSPECTI	ON	1	(	Representat	ive)	
Vessel co	onstructed by	ı		ł	Cootena				0, 0		at		82-86 Ave. S.	E.	Calgary, Al	3	
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																	
Alberta and employed by ABSA have inspected the component described in this Manufacturer's Data																	
Report on September 13th, 2012 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate, neither the Inspector nor his employer makes any warranty,																	
voccal in	accordance	with AS	SME Co	de S	ection 1	VIII, Di sel de	vision adina	1. Bys d in thi	signi is M	ing this cert tanufacture	mcate, nei r's Data∃	tner the Ir Report. Fi	ispector nor hi urthermore, ne	s e eith	imployer ma er the Inspe	ctor nor h	S
employer	shall be liab	le in any	manner	for a	any pers	onal ini	ury or	property	y da	mage or a	oss of an	y kind aris	ing from or co	nne	ected with th	is inspect	ion.
	+ 13, 20		Signed			$\stackrel{\bigstar}{=}$						ommissions	1446	7 A	ndorsement, Sta	<u> AB-4</u>	116

## FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

						e Ava e E	Colo	on AP T2C	41.7				
Manufactured and ce					(Name a	and Address of	Manufactu		<u> </u>	•			
2. Manufactured for	•		Shell	Canada 400	)- 4 Ave. S.W	. Calgan	/, AB	T2P 0J4		•			
3. Location of installatio	n ·			`Peace River	, AB SW 21	i-85-18 W	5M						
				,		(Name and Ad	12-079HS						
4. Type	(Horiz., v	ert., or sphere)		AQI (Te	ank, separator, heat	exh., etc.)		(Mig's,Serial No.)					
\	/8559.	2			12-079-A Rev	.0		. N		2012 'ear built)			
	(CRN)		-	•	(Drawing No.)			(Nati E	id. No.)		ear built)		
•				•									
10. Nozzles, inspection,	and saf	ety valve openi	ngs continued			T		<u> </u>		Datalla	T		
Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Туре	Mate Nozzle	erial Flange	Nozzie Th	Corr.	Reinforcement Material	Attachment Nozzle	Flange	Location (Insp. Open.)		
INLET	1	2" CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.53*	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
VAPOR RECOVERY	1	1 ½" CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.56"	1/8"	INHERENT	UW-16.1(c)	N/A	SHELL		
MAKE UP GAS	1	1 ½" CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.56"	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
SPARE	1	3" CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.62"	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
PSV 1	1	3" CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.62'	1/8"	INHERENT	UW-16.1(c)	N/A	SHELL		
PT	1	2"CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.53"	1/8"	INHERENT	UW-16.1(c)	N/A	SHELL		
LT .	2	2*CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.53"	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
VENTILATION	1	10" CL150	RFLWN	SA-350-LF2 CL.1	N/A	1.0"	1/8"	INHERENT	UW-16.1(c)	N/A	SHELL		
SPARE	1	2*CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.53"	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
PROCESS FEED	.1	2°CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.53"	1/8"	INHERENT	UW-16.1(c)	N/A	SHELL		
PSV 2	1	3*CL300	RFLWN	SA-350-LF2 CL.1	N/A	0.62*	1/8*	INHERENT	UW-16.1(c)	N/A	SHELL		
MW c/w BLIND & DAVIT	1	24" CL150	RFLWN	SA-350-LF2 CL.1	N/A	1.12*	1/8"	INHERENT	UW-16.1(c)	N/A	HEAD		
								*					
	· .					<u></u>	1			•			
Certificate of Authorization	on: 7	Гуре	"U"	No	). 	38,258		Expîres .	February	11, 2015			
Date Sept. 1 Date Sept 13,	2/1	2 Name			idustries Ltd.			Signed	Lacy	JJ ntative)			
-1					(Manufacturer) .					A :	0 1111		
Date Sept 13,	201	2 Name		(Authorized Inspector	)		Co	mmissions //	1467H Board incl. endorsem	ent, State, Pro	5 - 4/6 vince and No.)		

	CERTIFIED BY
	LOOKENED ()
MAWE	9 <u>50</u> <u>PSIAT</u> 200
MDM1	1 <u>-49</u> °FAT <u>50</u> PSI
SERIAL NO 12-	070HS <sub>YEAR BUILT</sub> 2012
GRN <u>V8559.2</u> (	(A) 622253
VESSEL TYPE	AQUA AMMONTA TANK
SHELL SA-516	2-70N
THICKNESS V-100	
	LGARY, CANADA Ph: 403-720-2722

Job#12-079