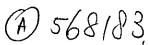
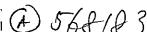
## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1



_														
•	Manufactured and certified by:						NATCO CANADA LTD. 9423 SHEPARD RD. SE_CALGARY, AB_T2H 2H3							
	Manufactu	(Name and address of manufacturer)  Manufactured for: CONOCO PHILLIPS CANADA 401 - 9 <sup>TH</sup> AVE SW, CALGARY, T2P 2H3 (Name and address of purchaser)												
3.	Location c	Location of installation: CONOCO PHILLIPS CANADA STOCK												
4.	Туре: _	ype: VERTICAL 8793-00 Horiz, or Vert. tank Mfr.'s Serial				J 4045.2 CRN	<u> </u>	(Namı 2018-193-0   1   Dwg. N		<del></del>	N/A Nat'i Bd. No.	2008 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, Division 1												
	to		'06				Year N/A N/A							
	,0	Addenda (date)					Code Case Nos.			Spe	cial Service per UG-120(d)			
6.	Shell SA 106B					0.688*	0.0625	5"	1' - 10 5/	/8*	7' - 6*			
		Mail (Spec No., Grad			ide) Nom. Thk		Corr, Allow.		Diam. I.D.		Length (overall)			
7.	Seams		S		<u> </u>		N/A		100% Eff. (%)	N/A		N/A		
			Long (welded, D		, Butt)		R.T (Spot or Full)	R.T (Spot or F曲) SPOT		H.T. Temp 70%	j. 1	Time (hr)		
			Girth (welded, Di		, Butt)		R.T. (Spot	t, or Full)		Eff (%)	No. of Gourses			
8.	Heads (a)	Mati		,	SA 516-70N			(b) Matt.		SA 516-70	1NI			
٥.				(9	Spec. No., Grade)	9)			<del></del>	(Spec No., Gr	rade)			
	Location Bottom, E		Minimum Thickness	Corrosio Allowano			Elliptical Ratio	Conical Apex Angle	Hemisph Radii		Side to Pressure or Conca			
a)	TOP		0.550"	0.0625		15   1100100	2:1 SE	When wilding	Ticken	us Diameter	CONCA'			
b)	вотто		0.550"	0.0625			2:1 SE				CONCA			
	If removal	ala holte u	sed (describe	ather facts	inaa\									
	II lettiovau	/le, Dons us	380 (describe	Other rasio	inings)				(Mat'l.	., Spec. No., Gr., Size, No.)				
_	*******	70r				100 OF		* *1		AA 0F				
9.	MAWP _	735 ps (internal)	Si (ex	xlernal)	at max, tem	np. 100 °F (internal)	(external)		ign metal terr	np. <u>-20 °</u> F a	il <u>735 psi</u>	-·		
	Hydro., pn		nb. test press		)3 psi			/						
	Mozzlas ir	espection c	and safety val	hio openine										
1			t, Outlet, Dra		No.	Diam. or	Type	Mati.	Nom.	Reinforcement	How Attached	Location		
				,		Size	77-		Thk.	Material	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	400000		
					ļ ļ									
	<u></u>				<del> </del> !			<del> </del> !	<del> </del>					
											<del>                                     </del>	+		
11.	Supports:	Skirt	YES (yes or no)	L	ugs NIL	Legs	NIL O	Other N/A (describe)		Attached BOTTOM I	HEAD WELDED	I.		
12.	Remarks:	Manufacti	,	Data Repor				•		en furnished for the follow		ort:		
						(Name of p	art, ilem number, M	Afgr.'s name and ident	ntifvina stamp)					
			SEPARATO			VOLI	.UME: 31.01 CL	<u>Ū.FT.</u>						
	<u>IMPACT I</u>	ESI EXEN	MPT PER UG	<u>-20(t)1-5 &amp;</u>	UCS-66(a(a	<u>))(c)</u>	FAB. DHC	G.: D-8793-03 P	HEV 2					
1														
								IOP COMPLIAN			The same			
"	Ve certify tha	t the stater	ments made i	n this repor	rt are correct	and that all detai	ils of design, m	naterial, constru	ction and wo	orkmanship of this vessel	conform to the ASM	E Code for		
۲	_				Jertificate of A	Authorization No.	11313	<u>/</u> ====================================	xpires <u>Septe</u>	ember 9, 2010	<del>-</del>			
D	Date: 150	ĒB H	9-08		Co. Name:	NAT	CO CANADA L	LTD.	Signe		Man -			
	(Manufacturer) Signed: (Representative)													
OEDTICIOATE OF CUCO MIGDEOTION														
CERTIFICATE OF SHOP INSPECTION														
l <sub>v</sub> ,	essel constr	ucted by:			NATCO C/	ANADA LTD.			at	CALGARY, ALB	FRTA			
1												*		
Al M	<u>(BSA</u> have 1anufacturer	e inspected has constru	d the componi ructed this pre	ient describ essure vess	oed in this Ma sel in accorda	anufacturer's Data ance with ASME (	ta Report on Code, Section	FFH 7 U 2 VIII, Division 1.	<u>/////////////////////////////////////</u>	nd/or the State or Provinc and state that, to the best this certificate neither the permore, neither the Inspe	of my knowledge an Inspector nor his en	nd belief, the nployer makes		
						ige of a loss of an						3) 2)(d)) De		
			0.0		' '	MIL	-			·	-12			
D.	ate <u>FEU</u>	T G YDI	الله Sigr	pned:	/Aidh	iz d Inspector	Comr	missions:	(N	ALBERTA	te State Flow and N	- 1		

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



Ι.	Manufactured and	d Certified	l by	Nat	co Canada	<u>Ltd. 9423 SI</u>	nepard Rd. S.	E. Calgary	, AB. T2H	2H3			
2	(Name and address of manufacturer) Yanufactured for CONOCO PHILLIPS CANADA 401 - 9 <sup>TH</sup> AVE SW, CALGARY, T2P 2H3												
3.	2 Yanufactured for CONOCO PHILLIPS CANADA 401 - 9 <sup>TH</sup> AVE SW, CALGARY, T2P 2H3 (Name and address of purchaser) CONOCO PHILLIPS CANADA STOCK												
4.	Type VEF	RTICAL		(Name and address) SEPARATOR 8793-03									
	(Horiz., V	ert., or Sphe	re)		(Tank, se	parator, heat ext	ı., etc.)	(Mfg's, serial no.)					
	<u>U 4045.2</u> (CRN)				<u>-8793-03 RE</u>		2008						
	,				(Drawing	(NO.)	(1)	lat'l Bd. No.		(Year built)	•		
Data	Purpose	No.	Size	Nozzl	Remarks es	М	at'i	Attach Thick-	ed Reinforc,	How	Where		
				Туре	Rate	Neck	Flg	ness	Material	Attached			
	INLET	NI	3"	RFWN/PIPE	CL300	SA 106B	SA 105N	0.600"	 CA 51/	UW 16.1(c)	SHELL		
	OUTLET	N2	3	RFWN/PIPE	CL300	SA 106B	SA 105N	0.600"	SA 516- 70N	UW 16.1(e)	TOP HEAD		
	LIQUID OUTLET	N3	2"	RFWN/PIPE	CL300	SA 106B	SA 105N	0.344"		UW 16.1(c)	SHELL		
	DRAIN	N4	2"	RFWN/PIPE	CL300	SA 106B	SA 105N	0.344"		UW 16.1(c)	BTM		
	HC LC	C1	2"	TOL	CL3000	SA 105N			**	UW 16.1(a)	HEAD SHELL		
—	HC LG	C2a/b	34"	TOL	CL6000	SA 105N				UW 16.1(a)	SHELL		
	Pl	C3	1/2"	TOL	CL6000	SA 105N				UW 16.1(a)	SHELL		
	TI	C4	3/4"	TOL	CL6000	SA 105N			**	UW 16.1(a)	SHELL		
	INSPECTION	C5a	2"	TOL	CL3000	SA 105N				UW 16.1(a)	TOP HEAD		
	INSPECTION	C5b	2"	TOL	CL3000	SA 105N				UW 16.1(a)	SHELL		
	PSV	C6	[ ½"	TOL	CL3000	SA 350		**	*** #	UW 16.1(a)	SHELL		
	III CO				G1 2000	LF2 CL1							
	HLSD ALT. HLSD	C7 C8	2"	TOL TOL	CL3000 CL3000	SA 105N SA 105N				UW 16.1(a)	SHELL		
	ALI. RESD	Co		TOL	C.L.3000	3A 103N				UW 16.1(a)	SHELL		
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Certificate of Authorization: Type: "U" No. 11.313 Expires: SEPT. 9, 2010.										maring from the second			
	FEB 20-	<u>-වරි</u>	Name	: Natco Canada Ltd. Signed:				- Miles					
_	seatan ra n	กกกก		(Manufacturer)						(Representative)			
Date: FFB Z 0 2008 Name: Commission (Natl. Board incl. endorsements, State.							State Pears and N						
				(Authority	e majoriti		(37411)				J. 1		
		Shop Order #:8793-03											

## MINNEY TO TO STATE THE STORY ASSESSMENT OF THE STANDARD OF THE CRN U 4045.2 TAC V-1010 HD/MATSIALSTIC VOICHE SOLD HA LIS STAIN SERIAL NO \_8779.5 -- 0.5 . T. BLT \_\_ 2003. CORR. ALL DOZE MDMT - 20, Fr. - 755 PSI 14.540 735 PSIO 100. P COANN ALGERTA CANAD 105% KPAC 38 90 1-20 Ca 5066KFA (31)



9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

February 19, 2008

Attention: Gary Foucault
NATCO CANADA LTD
CALGARY PURCHASES/MARVA
BOX 850 STN T
9423 SHEPARD ROAD SE
CALGARY, AB T2H 2H3

Re: Design registration

The design submission, tracking number 2008-00392, originally received on January 17, 2008 was surveyed and accepted for registration as follows:

CRN:

U4045.2

Accepted on: February 19, 2008

Reg Type:

New Design

Drawing No.: RD-8793-03 SHT 1 Rev 0 As Noted

Description

MAWP

Design Temperature

MDMT

Internal Pressure

5068 kPa

38 °C

-29°C

## The registration is conditional on your compliance with the following notes:

External nozzle fillet weld sizes detailed as 1/4" are revised to 3/8".

An acceptance letter and a copy of the stamped drawing will be sent to you.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3358 or fax (780) 437-7787 or e-mail Chomin@absa.ca.

Sincerely.

CHOMIN, DWIGHT, P. Eng.

Design Survey Engineer

8793-03