

(A) 523021

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

- 1. Manufactured and certified by: NATCO CANADA LTD. 9423 SHEPARD RD. SE. CALGARY, AB T2H 1X6
(Name and address of manufacturer)
- 2. Manufactured for: CONOCO PHILLIPS CANADA 401 - 9TH AVE SW, CALGARY, AB T2P 3C5
(Name and address of purchaser)
- 3. Location of installation: SHERMAN LSD: 06 - 03 - 02 - 12 W6M
(Name and address)
- 4. Type: VERTICAL Mr.'s Serial No. 8345-55 Dwg. No. RD-8345-55 REV 0 Year built 2005
Horiz. or Vert. tank

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 2004 Year

6. Shell SA 106B Addenda (date) N/A Code Case Nos. N/A Special Service per UG-120(g) N/A
Matl. (Spec. No., Grade) SA 106B Nom. Thk. (in.) 0.375" Corr. Allow. (in.) 1' - 3 1/4" Diam. I.D. (ft & in.) 5' - 0"
Length (overall) (ft & in.)

7. Seams S R.T. (Spot, Eff. (%) or Full) N/A Eff. (%) 100% H.T. Temp. (°F) 1150°F Time (hr) 1 HR
TYPE 1 R.T. (Spot, Eff. (%) or Full) FULL 100%
Grth (welded, Dbl., Sing., Lap, Butt) Grth (welded, Dbl., Sing., Lap, Butt)

8. Heads (a) Matl. SA 516-70N (b) Matl. SA 516-70N (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Diameter	Side to Pressure (Convex or Concave)
a) TOP	0.2500"	0.125"			2:1 SE				CONCAVE
b) BOTTOM	0.2500"	0.125"			2:1 SE				CONCAVE

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

9. MAWP 255 (internal) psi at max. temp. 200 (internal) °F. Min. design metal temp. -20 °F at 255 psi.
Hydro., pneu., or comb. test pressure 332 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Material	How Attached	Location

11. Supports: Skirt YES (yes or no) Lugs NIL (no.) Legs NIL (no.) Other N/A (describe) Attached BOTTOM HEAD - WELDED (where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

(Name of part, item number, Mfg.'s name and identifying stamp)
FLASH SEPARATOR (TAG: V-410)
IMPACT TEST EXEMPT PER UG-200(f)-5
FAB. DRG.: D-8345-55 REV 1
VOLUME: 7.35 C.U.F.T.

CERTIFICATE OF SHOP COMPLIANCE

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. 11313 Expires SEPT. 9, 2007

Date: AUG 30 2005 Co. Name: Natco Canada Ltd. (Manufacturer) Signed: [Signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by: Natco Canada Ltd. at Calgary, Alberta

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 AUG 30 2005, 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, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall 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.

Date AUG 30 2005 Signed: [Signature] (Authorized Inspector) Commissions: AB 540 (Nat'l Board incl. endorsements, State, Prov. and No.)

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A 523021

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

1. Manufactured and Certified by Natco Canada Ltd. 9423 Shepard Rd. S.E. Calgary. AB. T2C 1E2

(Name and address of manufacturer)

Manufactured for CONOCO PHILLIPS CANADA 401 - 9TH AVE SW, CALGARY, AB T2P 3C5

(Name and address of purchaser)

3. Location of Installation SHERMAN LSD: 06 - 03 - 62 - 12 W6M

(Name and address)

4. Type VERTICAL

(Horiz., Vert., or Sphere)

T3495.2

RD-8345-55_REV 0

(Drawing No.)

FLASH SEPARATOR

(Tank, separator, heat exch., etc.)

8345-55

(Mfg's. serial no.)

2005

(Year built)

Data Report Item Number	Purpose	No.	Size	Type	Nozzles	Rate	Remarks			Thick-ness	Reinforc. Material	How Attached	Where
							Neck	Mat'l	Fig				
	GLYCOL INLET	N1	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	GLYCOL OUTLET	N2	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	GAS OUTLET	N3	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	TOP HEAD	
	PSV	N4	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	INSPECTION	N5a-b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	LC-410	N6a-b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	LSHH-410	N7a-b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	LG-411	N8a	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	LG-411	N8b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	PI-410	N9	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	TI-410	N10	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	SKIMMER/HC OUT	N11	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	VESSEL DRAIN	N12	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	BTM HEAD	
	LSLL-410	N13a-b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	
	LG-410	N14a-b	2"	PIPE/RFWN	150#	SA 106B	SA 106B	SA 105N	0.344"	--	UW 16.1(c)	SHELL	

Certificate of Authorization: Type: "U" No. 11.313 Expires: SEPT. 9 2007.

Date: AUG 30 2005 Name: Natco Canada Ltd (Manufacturer) Signed: AKS (Representative)

Name: [Signature] Commission AB 40

Name: [Signature] (Authorized Inspector)

(Nat'l. Board incl. endorsements, State, Prov. and No.)

Shop Order #: 8345-55