

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

Exhibit # 8.2

A#: 441749

1. Manufactured and certified by Chadco Canada Ltd. Box 24, Halkirk, AB T0C 1M0  
(Name and address of Manufacturer)
2. Manufactured for Chadco Canada Ltd., Box 24, Halkirk, AB T0C 1M0  
(Name and address of address of purchaser)
3. Location of installation Resale  
(Name and address)
4. Type Vertical Sep. V-98309 N-0684.21 CCV-24V-148 Rev.2 N/A 1998  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd No) (Year Built)
5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conforms to ASME Rules, Section VIII, Division 1 1995  
to 1997 N/A N/A  
Addenda (Date) Code Case Nos. Special Service per UG-120(d)
6. Shell: SA-516-70N 1.125" .125" 24" O.D. 8' 0" s/s  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams Type 1 Full 100% N/A N/A Type 1 Spot 1  
Long. (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr) Girth (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses
8. Heads: (a) Material SA-516-70N (b) Material SA-516-70N  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure Convex to Concave
(a)	Top	1.065	.125"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	Bottom	1.079	.125"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings)

N/A

(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 1480 psi at max. temp 100° F  
Min. design metal temp. -20° F at 1480 psi. Hydro., pneu., or comb. test pressure 2220 psi.

10. Nozzels, inspection and safety valve opening:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Materials	How Attached	Location
Gas Inlet	1	3" 600#	RFWN	SA-105/SA-106-B	0.600	SA-516-70N	UW16(f-1) & (h)	Shell
Gas Outlet	1	3" 600#	RFWN	SA-105/SA-106-B	0.600	SA-516-70N	UW16(f-1) & (h)	Top Head
HLSD	1	3" 600#	RFWN	SA-105/SA-106-B	0.600	SA-516-70N	UW16(f-1) & (h)	Shell
P.S.V.	1	2" 600#	RFWN	SA-105/SA-106-B	0.436	N/A	UW16(c) & (h)	Shell

11. Supports: Skirt Yes Lugs No Legs No Other Baseplate Attached Welded to Skirt  
(yes or no) (No.) (No.) Describe (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)

Construction Drawing: V-98309 Vessel is Impact Test Exempt per UCS-66g  
Capacity: 24.8 Cu Ft. Continued on U-4 Supplementary Sheet

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 # 29,202 expires Sept. 24, 1999

Date October 8, 1998

Co. Name Chadco Canada Ltd.

Signed

(Manufacturer)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Chadco Canada Ltd. at Halkirk, Alberta, Canada

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 Alberta Boilers Safety Association

have inspected the component described in this Manufacturer's Data Report on October 8, 1998 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 October 8, 1998

Signed [Signature]

Commissions Alberta 084

A#: 441749

Certificate of Authorization	Type	<u>U</u>	No	<u>29,202</u>	Expires	<u>Sept. 24</u>	<u>19</u>	<u>99</u>
Date	<u>October 8, 1998</u>	Name	<u>Chadco Canada Ltd.</u> (Manufacturer)		Signed	<u><i>Tim Padd</i></u> (Representative)		
Date	<u>October 8, 1998</u>	Name	<u><i>Dennis Scorsone</i></u> (Authorized Inspector)		Commission	<u>Alberta 084</u> (Nat'l board incl. endorsement State, Province and No.)		