

**MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 (Alternate 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 by HENDERS BOILER AND TANK CO. 1340 CHANNEL AVE. MEMPHIS, TN 38113  
 2. Manufactured for FOSTER WHEELER CORP. 110 S. ORANGE AVE., LIVINGSTON, N.J. USA  
 3. Location of Installation 60 MM SCF/D SNG PLANT, PHILADELPHIA, PA  
 4. Type VERT 7139 --- D-7139 1807 (Year Built) 1977  
(Horiz or vert tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l Ord. No.)

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 1977 and Addenda to SUMMER '77 and Code Case Nos. --- H. D. WIMP  
(Year) (Date) (Inspector)

Special Service per UG-120(d) ----- PROCESS PLANTS DIVISION  
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been identified by the following items of the report: -----

6. Shell: Matl. SA516-70-PVQ Norm. Thk. 7/8 in. Corr. Allow. 1/8 in. Diam. 3 ft. 0 in. Length 8 ft. 10 in.  
(Spec. No., Grade) (Spot, Partial, or Full)

7. Seams: Long WDB R.T. SPOT Efficiency 85 % H.T. Temp. --- F Time --- hr.  
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial, or Full)

Girth WDB R.T. SPOT No. of Courses 2  
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial, or Full)

8. Heads: (a) Material SA516-70-PVQ (b) Material SA516-70-PVQ  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
TOP	13/16	1/8			2:1				CONVEX OR CONC
BOTTOM	13/16	1/8			2:1				CONVEX OR CONCAVE

If removable, bolts used (describe other fastenings) ---  
(Material, Spec. No., Gr., Size, No.)

9. Constructed for max. allowable working pressure F.V. 6543 psi at max. temp. 210 DEG. F. Min. temp. (when less than -20 F) --- F. Hydrostatic test pressure 814.5 psi.  
 10. Safety Valve Outlets: Number --- Size --- Location ---  
 11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
	1	18	RFSO	SA516-70	5/8	SA285-C	WELDED	SHELL
	2	8	RFSO	SA53B	SCH 80	SA285-C	WELDED	(1)SH, (1)HD.
	1	4	RFSO	SA53B	SCH 120	SA285-C	WELDED	HEAD
	2	1-1/2	LWN	SA105	300#	NONE	WELDED	SHELL
	2; 2	1; 3/4	CPLG	SA105	6000#	NONE	WELDED	SHELL

12. Supports: Skirt NO Lugs --- Legs 4 Other --- Attached SHELL, WELDED  
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: ITEM D-213(2-098-12); F.W. CONTRACT 15-1779; F.W. REQN. NO. 1776-1131-5  
F.W. P.O. NO. PP-17-115-1776; P.G.W. NO. 12-F-281; 801228-36790-1A

**CERTIFICATE OF 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.

Date 10/13/77 Signed HENDERS BOILER & TANK CO. by Chester Couch  
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 2379 expires JAN. 15, 19 80

**CERTIFICATE OF SHOP INSPECTION**

Vessel made by HENDERS BOILER & TANK CO. at MEMPHIS, TN

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NAT. BOARD and employed by COMMERCIAL UNION have inspected the pressure vessel described in this

Manufacturers' Data Report on 10-19, 1977, 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 the Manufacturers' 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.

Signed [Signature] Date 10-19-77 Commissions NB 7076  
(Inspector) (Nat'l Board, State, Province and No.)