

**FORM U-1A 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 **Industrial Alloy Fabricators, Inc., Richmond, Va.**  
 2. Manufactured for **Philadelphia Gas Works**  
 3. Location of Installation **Philadelphia, Penn.**  
 4. Type **Vertical 30314-6** (Horiz. or vert. tank) (Mfg'r's Serial No.) (CRN) **D-1030E** **305** (Drawing No.) (Nat'l Brd No.) (Year Built) **1977**

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 and Addenda to **July 77** (Date) and Code Case Nos.

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

6. Shell: Matl. **SA106 Gr B** Nom. Thk. **.500** in. Allow. **.125** in. Diam. **24** in. Lgth. **7 ft 10 in.**  
 7. Seams: Long. **Welded Butt** (Welded, Dbl. Sngl. Lap, Butt) R.T. **Spot** Efficiency **85** % H.T. Temp. **-** F Time **-** hr  
 Girth **Welded Double** (Welded, Dbl. Sngl. Lap, Butt) R.T. **Spot** No. of Courses **1**  
 8. Heads: (a) Material **SA294 Gr WPB** (Spec. No., Grade) (b) Material **SA106** (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a)	<b>Bottom</b>	<b>.500</b>	<b>.125</b>	<b>-</b>	<b>-</b>	<b>2:1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Exterior</b>
(b)	<b>Top</b>	<b>2.750</b>	<b>.125</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>36"</b>	<b>Flat</b>

If removable, bolts used (describe other fastenings) **SA193 Gr B7; 1.5"; 24**  
**FV & 399** (Material, Spec. No., Gr. Size, No.)

9. Constructed for max. allowable working pressure **150** psi at max. temp. **815** F. Min. temp. (when less than -20 F) \_\_\_\_\_ F. Hydrostatic, pneumatic, or combination test pressure \_\_\_\_\_ 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
<b>In &amp; Outlet</b>	<b>2</b>	<b>6"</b>	<b>Seamless</b>	<b>SA106GrB</b>	<b>.432</b>	<b>None</b>	<b>Welded</b>	<b>Shell</b>
<b>Inot.</b>	<b>2</b>	<b>1 1/2"</b>	<b>Forged</b>	<b>SA106</b>	<b>.625</b>	<b>"</b>	<b>"</b>	<b>"</b>
<b>Drain</b>	<b>1</b>	<b>1 1/2"</b>	<b>"</b>	<b>"</b>	<b>.562</b>	<b>"</b>	<b>"</b>	<b>B. Hd.</b>
<b>Inot.</b>	<b>2</b>	<b>1"</b>	<b>"</b>	<b>"</b>	<b>.460</b>	<b>"</b>	<b>"</b>	<b>Shell</b>
<b>Inot.</b>	<b>2</b>	<b>3/4"</b>	<b>"</b>	<b>"</b>	<b>.343</b>	<b>"</b>	<b>"</b>	<b>Shell</b>

12. Supports: Skirt **No** (Yes or no) Lugs **-** (No.) Legs **3** (No.) Other **-** (Describe) Attached **Shell & welded** (Where and how)

13. Remarks: **Chemical process vessel for non-tothal service**

**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 **11/9/77** Signed **Indus. Alloy Fab., Inc.** by **W. R. Peterson** (Representative) **Mar. 80**  
 "U" Certificate of Authorization No. **6551** expires \_\_\_\_\_, 19 **80**

**CERTIFICATE OF SHOP INSPECTION**

Vessel made by **Indus. Alloy Fab., Inc.** at **Richmond, Va.**  
 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 **Ohio & Pa.** and employed **Nov 4 79** have inspected the pressure vessel described in this Manufacturers' Data Report on \_\_\_\_\_, 19\_\_\_\_, 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 **C. W. Brazz** (Inspector) Date **11/4/77** Commissions **NB 4750** (Nat'l Board, State, Province and No.)