

**THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY**  
**MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS**  
**Form No. U-1 As Required by the Provisions of the A.S.M.E. Code Rules**

1. Manufactured by Downingtown Iron Works, Inc., Downingtown, Pa.  
(Name and address of the manufacturer)  
 2. Manufactured for Phillips Petroleum Co., For Artistic Wire Products, Inc., East Hampton, Conn.  
(Name and address of the purchaser)  
 3. Type Horizontal Unfired Pressure Vessel No. 2787 H.S. 3048 Year built 1946  
(Horizontal or Vertical) Mfr's serial or A.S.M.E. No. (State and State No.)  
 4. Have mill test reports been checked on all the plates entering this unfired pressure vessel Yes

Do the chemical and physical properties of all plates meet the requirements of the Code Yes

5. SHELL OR DRUMS: No. 1 Diameter 7 ft 10 in. I.D. Length over all 51 ft 3 in. Height 3 ft 0 in. m.  
(for width)  
 6. STAMPS ON shell plates SA-312 F.B. Rivets, stays and braces Fusion welded (Iron or Steel) Fusion welded  
(Enameled and lowest tensile strength)  
 7. SHELL PLATES 0.40" Butt straps in. Style of seams: Longitudinal Par. U-69 Par. U-69  
(Outer) (Thickness) (Thickness) Riveted, Forge Welded, Brazed, or Fusion Welded - Par. No.)  
 8. Diameter of rivet holes in. Pitch of rivets X X Efficiency of joint 60 %  
 9. GIRTS JOINTS in. Diameter rivet holes in. Pitch of rivets in. No. of courses 5  
(Single or double riveted)  
 10. INNER SHELL in. Style of seams: Longitudinal Girth in. Length of section or course ft. in.  
(Thickness) (Riveted, Forge Welded, Brazed, or Fusion Welded - Par. No.)  
 11. HEADS: Concave 678 in. Radius of dish Ratio 2:1 in. Side to pressure Concave  
(Thickness) (Concave or convex)

If removable, bolts used or method of fastening (Details or sketch)  
(Number and size)

STAYS	No.	Size	Net Area	Welded or Weldless	Area to be Stayed	Maximum Allowable Working Pressure
12. (a) F. H.						
(b) R. H.						
(c) Through						
(d) Diagonal and Gusset Stays						

13. STAY BOLTS If hollow (Size of hole) 14. Maximum pitch X Diameter in.  
(Iron or Steel) (Horizontal) (Vertical) (Over the threads)

15. SAFETY VALVE outlets: No. 2 Size 4"

16. FUSIBLE PLUG (if used): No. 2", 1-1/2", 1", 3/4" Location in shell

17. OUTLETS: No. 7 Size 2-1/2" Material of nozzle or reinforcement Steel How attached Welded  
(Riveted, welded, etc.)

18. DRAIN CONNECTION 2 IN. HAND HOLES OR SIGHT HOLES in shell  
(Size) (Number, size and location)

19. MANHOLES: 1 18" dia. in shell Reinforcement Welded  
(Number) (Size and location of each) (Riveted, welded, etc.)

20. NONPRESSURE PARTS: (a) Supporting lugs Number Supporting skirts (b) Other nonpressure parts Kind and number:  
 (c) Where and how attached none - tank supported by 2- concrete cradles.

21. Bursting pressure 1000 psi Hydrostatic test 300 & 400 22. Constructed for pressure of 200 psi Factor of safety 5.00

Remarks: Tank used for storage of propane gas., max. oper. temp. 650 deg. F.  
(Vessel to be used for air, gas, ammonia, etc.)

We certify the above data to be correct and that all details of material and construction and workmanship on this unfired pressure vessel conform to the A. S. M. E. Code for Unfired Pressure Vessels.  
 Date SEP 3 - 1946 Signed Downingtown Iron Works, Inc. W. F. Keenan  
 Form No. 541 D Printed in U.S.A. DIV #48-10 P.O. 78-3291-91 DRG/B-2478

**CERTIFICATE OF SHOP INSPECTION**

Insurance Company's Serial Number **H. S. S. # 1974**

VESSEL MADE BY **Downingtow Iron Works, Inc., Downingtown, Pa.**

I, the undersigned, holding a certificate of competency as an inspector of steam boilers in **THE STATE OF PENNA.** and employed by **THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY**

of **HARTFORD, CONN.** inspected internally and externally, the vessel specified in this report, on

**March 17 1947** 19 and certify that the statements made on this report are correct, corresponding with the mill test reports of material as furnished by the builders, and measurements made of the vessel when completed; and that this vessel is constructed in accordance with the A. S. M. E. Code Rules for the Construction of Unfired Pressure Vessels.

*A. Gallagher*  
Inspector

Commission No. **Hat. B. S. 1837**