

**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

- Manufactured by Downingtawn Iron Works, Downingtawn, Pa.  
(Name and address of the manufacturer)
- Manufactured for Hendel Petroleum Co., New London, Conn.  
(Name and address of the purchaser)
- Type Horizontal Unfired Pressure Vessel No. (D. I. W. #1889) (N. B. #1147) Year built 1944  
(Horizontal or Vertical) (Mfr.' serial or A.S.M.E. No.) (State and State No.)
- 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
- SHELL OR DRUMS: No. 1 Diameter 6 ft. 0 in. <sup>0</sup>/<sub>D</sub> Length over all 50 ft. 1-1/4 in. Height      ft.      in.  
(or width)
- STAMPS on shell plates 70000 T. B. S-55 Rivets, stays and braces.  
(Brand and lowest tensile strength)
- SHELL PLATES 55/64 in. Butt straps      in. Style of seams: Double butt (Iron or Steel) Double butt  
(Outer) (Thickness) (Thickness) (Riveted, Forge Welded, Brazed, or Fusion Welded - Par. No.)
- Diameter of rivet holes      in. Pitch of rivets X X Efficiency of joint 80 %  
Double butt fusion
- GIRTH JOINTS Welded Diameter rivet holes      in. Pitch of rivets      in. No. of courses 6  
(Single or double riveted)
- INNER SHELL      in. Style of seams: Longitudinal Girth      Length of section or course      ft.      in.  
(Thickness) (Riveted, Forge Welded, Brazed, or Fusion Welded - Par. No.)
- HEADS: ~~MCX~~ 1 in. Radius of dish 84 in. Side to pressure Concave  
(Thickness) (Concave or convex)

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

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

- STAY BOLTS      If hollow      14. Maximum pitch X X Diameter      in.  
(Iron or Steel) (Size of hole) (Horizontal) (Vertical) (Over the heads)
- SAFETY VALVE outlets: No. 2 Size 4"
- FUSIBLE PLUG (if used): No.      Diameter and material of filling:      Location:
- OUTLETS: No. 7 Size 3", 1-1/2", 1" & 3/4" Material of nozzle or reinforcement Steel How attached Welded  
(Riveted, welded, etc.)
- DRAIN CONNECTION      in. HAND HOLES OR SIGHT HOLES       
(Size) (Number, size and location)
- MANHOLES: 1 18" dia. in shell Reinforcement       
(Number) (Size and location of each) (Riveted, welded, etc.)
- Method of supporting vessel 2- concrete cradles
- Bursting pressure 1009 lb. per sq. in. Hydrostatic test 300# Hammer Test, Then 400 lb.
- Constructed for pressure of 200# lb. per sq. in. Maximum stress in shell plate 13713 lb. per sq. in.

Remarks: Propane gas storage tank, constructed A.S.M.E. PAR. U-69, 200# W.P.  
(Vessel to be used for air, gas, ammonia, etc.)  
Max. Operating Temp. 250 deg. Fahr.

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 JUN 30 1944 Signed Downingtawn Iron Works by M. R. Matusan  
(Manufacturer)  
 Form No. D. I. W. #43-389 Purch. Order #      Drwg. C-984 M. R. Matusan

**CERTIFICATE OF SHOP INSPECTION**

Insurance Company's Serial Number H.S.D.# 781

VESSEL MADE BY Downingtown Iron Works, 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

JUN 30 1944

1944, 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. Boiler Code Rules for the Construction of Unfired Pressure Vessels.

*C. H. Robson*  
Inspector for State of Boiler Insurance Company.

C.H. Robson

Commission No.  
Nat. Bd. No. 15983  
Penna. No.