THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY

MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

As Required by the Provisions of the A.S.M.E. Code Rules

1. Manufactured by Downingtown Iron Works. Downingtown, Pa. (Name and address of the manufacturer)

2. Manufactured for Phillips Petroleum Co. Detroit, Michigan. (Name and address of the purchaser)

3. Type Horizontal (Horizontal or Vertical) Unfired Pressure Vessel No. (1278 (Mfrs.' serial, or A.S.M.E. No.)) Nat. Bd. #534 ((State and State No.)) Year built 1940

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 8 ft. 0 O.D. in. (or width) Length over all 30 ft. 1-1/4 in. Height ft. in.

6. Stamps on shell plates F.H. 70,000 (Brand and lowest tensile strength) Rivets, stays and braces (Iron or Steel)

7. Shell Plates 27/32" (Outer) (Thickness) Butt straps in. (Thickness) Style of seams: Longitudinal Double Butt Fusion Welded Girth Double Butt Fusion Welded (Riveted, Forge Welded, Brazed, or Fusion Welded — Type of)

8. Diameter of rivet holes in. Pitch of rivets X X Efficiency of joint 90 %

9. Girth Joints (Single or double riveted) Diameter rivet holes in. Pitch of rivets in. No. of courses 3

10. Inner Shell (Thickness) in. Style of seams: Longitudinal Girth (Riveted, Forge Welded, Brazed, or Fusion Welded — Type of) Length of section or course ft. in.

11. Heads; flat or dished 1 (Thickness) in. Radius of dish 84" in. Side to pressure Concave. (Concave or convex)

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

12.

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

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

15. Safety Valve outlets: No. 2 Size 4"

16. Fusible Plug (if used): No. Diameter and material of filling 2- 1-1/2" Location

17. Outlets: No. 3 Size 1- 2" Material of nozzle or reinforcement How attached (Riveted, welded, etc.)

18. Drain connection (Size) in. Hand Holes or Sight Holes (Number, size and location)

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

20. Method of supporting vessel Concrete Cradles.

21. Burning pressure 1002 lb. per sq. in. Hydrostatic test 300 and 400 lb.

22. Constructed for pressure of 200 lb. per sq. in. Maximum stress in shell plate 13,900 lb. per sq. in.

Remarks: Propane Gas ASME U-69, Max. Operating Temp. 250 Deg. F. (Vessel to be used for air, gas, ammonia, etc.)
Temperature limited due to series #15 M.H. bolt flg.

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. Unfired Pressure Vessel Code.

Date Sept. 3 19 42 Signed Downingtown Iron Works. by C. H. Anway (Manufacturer)

Form 61 D.I.W. 40-843. P.P.Co. 79043. Drg. C-884. C.H.Anway.

CERTIFICATE OF SHOP INSPECTION

H.S.B. #87567

Insurance Company's Serial Number.....

VESSEL MADE BY Dtn. Iron Wks. at Downingtown

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.....

Sept. 3 1940, 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.

Inspector for State or Boiler Insurance Company.

Commission No.
Penna. No. 863
Nat. Bd. No. 753