

# FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

As required by the Provisions of the ASME Code Rules and the National Board

1. Manufactured by FLINT STEEL CORPORATION, MEMPHIS, TENNESSEE #9157  
(Name and address of Manufacturer)

2. Manufactured for Harrie Distributors, Little Rock, ARK  
(Name and address of Purchaser)

3. Type Horizontal Kind Tank Vessel No. 29812 (Horis. or Vert.) (Tank, Jacketed, Heat Exch.)  
(Distr. Serial) (State & State No.) Nat'l Bd. No. 29812 Yr. Built 1953

Items 4, 9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of Heat Exchangers

4. SHELL: Material Case 1056 Gr. T. B. P. 73000 Thickness .51 in. Corrosion Allowance no in. Diam. 5 ft. Length 40 ft. in.  
(Kind and Spec. No.) (Fig. or F. B. & Lowest T. S.)

5. SEAMS: Long UW 52a dbl. butt S.R. no X.R. no Sectioned yes Efficiency 80 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted describe seams fully on reverse side of form

Girth UW 52a dbl. butt S.R. no X.R. no Sectioned yes No. of Courses 5

6. HEADS: (a) Material SA212 Gr. B P. 70000 T.S. 70000 (b) Material SA212 Gr. B P. 70000 T.S. 70000  
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter (Side to Pressure (Convex or Concave))

(a) end .43" min. (b) end .43" min. Concave  
Concave

If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. STAYBOLTS: \_\_\_\_\_ If hollow \_\_\_\_\_ Attachment \_\_\_\_\_ Pitch \_\_\_\_\_ Diam. \_\_\_\_\_  
(Material) (Size of Hole) (Threaded, Welded) (Horis.) (Vert.) (Nominal)

8. JACKET CLOSURE: \_\_\_\_\_  
(Describe as gage & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

9. Constructed for [Int.] x pressure of 250 psi. Max. Temp. 130 °F. Subzero -20 °F. Hydrostatic Test 375 psi.

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material \_\_\_\_\_ Diam. \_\_\_\_\_ in. Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)

Floating. Material \_\_\_\_\_ Diam. \_\_\_\_\_ in. Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
(Kind & Spec. No.)

11. TUBES: Material O.D. in. Thickness \_\_\_\_\_ inches or gage. Number \_\_\_\_\_ Type \_\_\_\_\_  
(Kind & Spec. No.) (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL: Material \_\_\_\_\_ T.S. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Corrosion Allowance \_\_\_\_\_ in. Diam. \_\_\_\_\_ ft. Length \_\_\_\_\_ ft. in.  
(Kind and Spec. No.) (Fig. or F. B. & Lowest T. S.)

13. SEAMS: Long \_\_\_\_\_ S.R. \_\_\_\_\_ X.R. \_\_\_\_\_ Sectioned \_\_\_\_\_ Efficiency \_\_\_\_\_ %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted describe seams fully on reverse side of form

Girth \_\_\_\_\_ S.R. \_\_\_\_\_ X.R. \_\_\_\_\_ Sectioned \_\_\_\_\_ No. of courses \_\_\_\_\_

14. Heads (a) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (c) Material \_\_\_\_\_ T.S. \_\_\_\_\_  
(Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter (Side to Pressure (Convex or Concave))

(a) Top, bottom, ends \_\_\_\_\_ (b) Channel \_\_\_\_\_ (c) Floating \_\_\_\_\_

If removable, bolts used (a) \_\_\_\_\_ (b) \_\_\_\_\_  
(Material, Spec. No., T.S., Size, Number)

(c) \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Describe or Attach Sketch)

15. Constructed for [Ext.] pressure of \_\_\_\_\_ psi. Max. Temp. \_\_\_\_\_ °F. Subzero \_\_\_\_\_ °F. Hydrostatic Test \_\_\_\_\_ psi.

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number 2 Size 2 inch Location in top of shell

17. NOZZLES: 

Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Liquid 2	1-2 1/2" x 1-3/4"	soup.	stee	3000#	no	welded
vapor 4	3-2 1/2" x 1-1/2"	soup.	stee	3000#	no	welded
gauge 3	1-1" x 2-3/4"	soup.	stee	3000#	no	welded

18. INSPECTION OPENINGS: Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

19. SUPPORTS: Skirt \_\_\_\_\_ Lug \_\_\_\_\_ Lug \_\_\_\_\_ Other \_\_\_\_\_ Attached \_\_\_\_\_  
(Yes or No) (Number) (Number) (Number) (Number)

20. REMARKS: Aboveground Liquefied Petroleum  
SO2 relief valve capacity 1950 ASME Code, Sec. VIII

(Over)

(Number)

(Number)

(Number)

(Number)

(Number)

(Number)

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels.

Date JUL 28 1953 19 Signed FLINT STEEL CORPORATION By  
(Manufacturer)

Certificate of Authorization Expires No. 72 DECEMBER 31, 1955

**CERTIFICATE OF SHOP INSPECTION**  
**B 2946**

Inspection Agency's Serial No. \_\_\_\_\_  
VESSEL MADE BY FLINT STEEL CORPORATION at MEMPHIS, TENNESSEE

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in NATIONAL  
Board No. 2451, and employed by OCEAN ACCIDENT & GUARANTEE CORP. of New York,

inspected internally and externally, the vessel described in this report on \_\_\_\_\_ 19\_\_\_\_\_, and certify that the  
statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measure-  
ments made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure Vessels.

Date JUL 28 1953 19\_\_\_\_\_  
[Signature] Commissions NATIONAL BOARD No. 2451  
Inspector's Signature State or Nat'l Bd. & Number

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE

OF \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_  
have compared the statements in this manufacturer's data report with the completed vessel, and certify that parts referred to as data  
items \_\_\_\_\_ were completed in the field in accordance with the requirements of the  
ASME Code for Unfired Pressure Vessels. The completed vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi.

Date \_\_\_\_\_ 19\_\_\_\_\_  
\_\_\_\_\_ Commissions \_\_\_\_\_  
Inspector's Signature State or Nat'l Bd. & Number