

LANCASTER IRON WORKS, Inc.

LANCASTER, PA.

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 LANCASTER IRON WORKS, Inc., LANCASTER, PA.

2. Manufactured for **Salem Engineering (Canada) Limited Toronto, Canada**  
(Name and address of the purchaser)
3. Type **Horizontal** Unfired Pressure Vessel No. (**05-48-28**) **Matl B4 1R25** Year built **1948**  
(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 **8 ft 10 in** I.D. Length over all **67 ft 0 1/2 in** Height **10 ft 4 in**  
(or width)
6. Stamps on shell plates **Firebox 70000 SA-315-44 Grade B** Rivets, stays and braces  
(Brand and lowest tensile strength) (Iron or Steel)
7. Shell Plates **31/64** in. Butt straps **31/64** in. Style of seams: Longitudinal **Fusion Weld DB** Girth **With Backing Strips**  
(Plate) (Thickness) (Thickness) (Riveted, Forge Welded, Braze, or Fusion Welded—Par. No.)
8. Diameter of rivet holes **31/64** in. Pitch of rivets **X X** Efficiency of joint **80** %
9. Girth Joints **6** Diameter rivet holes **31/64** in. Pitch of rivets **X X** No. of courses **6**  
(Single or double rivets)
10. Inset Shell **31/64** in. Style of seams: Longitudinal **Fusion Weld DB** Girth **With Backing Strips** Length of section or course **10 ft 4 in**  
(Thickness) (Riveted, Forge Welded, Braze, or Fusion Welded—Par. No.)
11. Heads **31/64** in. Radius of dish **D/4** in. Side to pressure **Concave**  
(Thickness) (Concave or convex)
12. Removable, belts used **None** or method of fastening **None**  
(Number and size) (Describe or sketch)

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

13. Stay bolts **31/64** in. If hollow **31/64** in. 14. Maximum pitch **X X** Diameter **31/64** in.  
(Iron or Steel) (Size of hole) (Horizontal) (Vertical) (Over the threads)
15. Safety Valve outlets: No. **1** Size **1 1/2** in.
16. Fusible Plug (if used): No. **101-1/4** Diameter and material of filling **102-1/2** Location **Top**
17. Outlets: No. **103/4** Six **22** Material of nozzle or reinforcement **Steel** How attached **Fusion Welded**  
(Riveted, welded, etc.)
18. Drain connection **1 1/2** in. Hand Holes or Sight Holes **None**  
(Size) (Number, size and location)
19. Manholes: **1** **18** Dia. in Shell on Top Reinforcement **Fusion Welded**  
(Number) (Size and location of each) (Riveted, welded, etc.)
20. Non-pressure Parts: (a) Supporting lugs **None** Supporting skirts **None** (b) Other nonpressure parts **None**  
(Number) (Kind and number)
- (c) Where and how attached **Supports not furnished**

21. Bursting pressure **1018.48** psi Hydrostatic test **400** lb. 2 1/2" Constructed for pressure of **200** psi Factor of safety **5.06**  
**Propane Tank Constructed Under Para. U-69 Max. Temp. 250°F**

Remarks: **Certificate of Authorization Expires December 31, 1949**  
(Vessel to be used for air, gas, ammonia, etc.)  
**(Manhole Cover Plate Description on Other Side)**

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.

By **4** **1948** LANCASTER IRON WORKS, Inc. by **Donald W. Sweet**