

BS30. Order HA 11429 (4 5) for United Petroleum Gas Co. Order B-6868  
**FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS**  
 As Required by the Provisions of the A.S.M.E. Code Rules

1. Manufactured by Bethlehem Steel Company, Bethlehem, Pa.  
 (Name and address of the manufacturer)

2. Manufactured for Council Bluffs Gas Co., Council Bluffs, Iowa (URC-539-30-883)  
 (Name and address of the purchaser)

3. Type HORIZONTAL Unfired Pressure Vessel No. (BS30-1014) (Nat'l. Bd. 777.) Year built 1948  
 (Horizontal or Vertical) (Mfrs. 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. Length over-all 67 ft. 0 1/2 in. Height - ft. - in.  
 Grade "B" F.B. (or width)

6. STAMPS on shell plates SA 212A 70,000 Rivets, stays, and braces -  
 (Brand and Lowest Tensile Strength)

7. SHELL PLATES: 3/16 in. Butt straps 7/16 in. Style of seams: Longitudinal Double Bevel Butt (Iron or steel) Girth Double Bevel Butt  
 (Outer Thickness) (Thickness) (Riveted, Forge Welded, Braised, or Fusion Welded—Par. No.)

8. Diameter of rivet holes - in. Pitch of rivets X in. Efficiency of joint 80 %

9. GIRTH JOINTS: Diameter rivet holes - in. Pitch of rivets - in. No. of courses 7  
 (Single or double riveted)

10. INNER SHELL: 7/16 in. Style of seams: Longitudinal - Girth - Length of section or course 8 ft. 7 1/16  
 (Thickness) (Riveted, Forge Welded, Braised, or Fusion Welded—Par. No.)

11. HEADS: Concave or dished 77 in. Radius of dish Elliptical Side to pressure Concave  
 (Thickness) (Describe or sketch) (Concave or convex)

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

STAYS	No.	Size	Net Area	Welded in		Minimum Allowable Working Pressure
				Area to be	Area to be	
(a) R. H.						
(b) R. H.						
(c) Through						
(d) Diagonal and Gusset Stays						

13. STAY BOLTS: If hollow - (Iron or Steel) (Size of hole) 14. Maximum pitch - (Horizontal) (Vertical) (Diagonal) (Threads)

15. SAFETY VALVE outlets: No. - Size -

16. FUSIBLE PLUG (if used): No. - Diameter and material of filling - Location -

17. OUTLETS: No. 2 Size 3/4 in. Material of nozzle or reinforcement Forged Steel How attached Welded  
 (Riveted, Welded, etc.)

18. DRAIN CONNECTION: 3 (Size) HAND HOLES OR STOW HOLES - (Number, size, and location)

19. MANHOLES: 1 (Number) 10" Dia TOP (Size and location of each) Reinforcement 96" Welded Pad  
 (Riveted, Welded, etc.)

20. NONPRESSURE PARTS: (a) Supporting lugs - (Number) Supporting skirts - (b) Other nonpressure parts - (Clad and number)  
 (c) Where and how attached -

21. Bursting pressure 1000 psi Hydrostatic test 400 lb 22. Constructed for pressure of 200 psi Factor of safety 5

Remarks: Vessel to be used for propane storage.  
 (Vessel to be used for air, gas, ammonia, etc.)  
Hammer tested at 300 lbs.

We certify the above data to be correct and that all details of material, construction, and workmanship on this unfired pressure vessel conform to the A.S.M.E. Code for Unfired Pressure Vessels.

Date September 29 48 Signed Bethlehem Steel Company (Manufacturer) by R. J. Pennington  
 Certificate of authorization expires Dec. 31, 1949. R. J. Pennington

As required by the provisions of the A.S.M.E. Code Rules

CERTIFICATE OF SHOP INSPECTION

Insurance Company's Serial Number I-165-48-148

VESEL MADE BY Bethlehem Steel Co. at Bethlehem, Pa.

I, the undersigned, holding a certificate of competency as an inspector of steam boilers in THE STATE OF Pennsylvania and employed by the Travelers Indemnity Co.

Hartford, Conn. inspected internally and externally, the vessel specified in this report, on June

11, 1938, 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.

*E. A. Mason*  
E. A. Mason

N.E. 2420, N.Y. 1380, Pa. 1277  
Inspector for State or Boiler Insurance Company.