

BSCo. Order HA 11429 (#5) for United Petroleum Gas Co. Order B-3860  
**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 (UPG-543-30-E23)  
(Name and address of the purchaser)
3. Type Horizontal Unfired Pressure Vessel No. (BSCo. 845) (Nat'l Bd 644) Year built 1948  
(Horizontal or Vertical) (Mfr.' 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 312, 70,000 Rivets, stays, and braces Double Bevel Butt (Iron or steel) Double Bevel Butt  
(Brand and Lowest Tensile Strength)
7. SHELL PLATES: 96 in. Butt straps — in. Style of seams: Longitudinal Fusion Welded, U69 Girth Fusion Welded, U69  
(Outer Thickness) (Thickness) (Riveted, Forge Welded, Brazed, or Fusion Welded—Par. No.)
8. Diameter of rivet holes — in. Pitch of rivets X X 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: — in. Style of seams: Longitudinal — Girth — Length of section or course 8 ft. 10 9/16 in.  
(Thickness) (Riveted, Forge Welded, Brazed, or Fusion Welded—Par. No.)
11. HEADS: Elliptical or dished 764 in. Radius of dish Elliptical 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 Weldless	Area to be Stayed	Maximum Allowable Working Pressure
(a) F. H.						
(b) R. H.						
(c) Through						
(d) Diagonal and Gusset Stays						

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

15. SAFETY VALVE OUTLETS: No. — Size —
16. FUSIBLE PLUG (if used): No. — Diameter and material of filling — Location —
17. OUTLETS: No. 2 Size 2 1/2" Material of nozzle or reinforcement Forged Steel How attached Welded  
(Riveted, Welded, etc.)
18. DRAIN CONNECTION: 5 in. HAND HOLES OR SIGHT HOLES —  
(Size) M.H. Cover 25"OD, 2 3/16", 16 Bolt H 1/2" (Number, size, and location)
19. MANHOLES: 1 16" Die Top Reinforcement 96" Welded Pad  
(Number) (Size and location of each) (Riveted, Welded, etc.)
20. NONPRESSURE PARTS. (a) Supporting lugs — Supporting skirts — (b) Other nonpressure parts —  
(Number) (Kind and number)
- (c) Where and how attached —
21. Bursting pressure 1003 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 10, 1948 Signed Bethlehem Steel Company  
(Manufacturer)

Certificate of authorization expires Dec. 31, 1949.

E. J. Pennington  
(Inspector)

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

**CERTIFICATE OF SHOP INSPECTION**

Insurance Company's Serial Number T-165-48-13

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.

of Hartford, Conn inspected internally and externally, the vessel specified in this report, on January

27, 19 40, 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.

R. A. Eisen  
R. A. Eisen

N.B. 2420, N.Y. 1220, Pa. 1277  
Inspector for State or Boiler Insurance Company.