

**ASME Order HA 11489 (#9) for United Petroleum Co. Order B-5868**  
**FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS**  
 As Required by the Provisions of the A.S.M.E. Code Rules

*Council Bluffs*

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-550-20-112)**  
(Name and address of the purchaser)
  3. Type **Horizontal** Unfired Pressure Vessel No. (**BSQO, 858**) (**Nat'l Bd 656**) 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 **87** ft. **0 1/2** in. Height **-** ft. **-** in.  
**Grade "B" P.B.**  
(or width)
  6. STAMPS on shell plates **SA 212, 70,000** Rivets, stays, and braces **-**  
(Brand and Lowest Tensile Strength)
  7. SHELL PLATES **3/8** in. Butt straps **3/8** in. Style of seams: Longitudinal **Double Bevel Butt Fusion Welded, U69** Girth **Double Bevel Butt Fusion Welded, U69**  
(Outer Thickness) (Thickness) (Riveted, Forge Welded, Braised, or Fusion Welded—Par. No.)
  8. Diameter of rivet holes **3/8** in. Pitch of rivets **X** Efficiency of joint **80** %
  9. GIRTH JOINTS **3/8** in. Diameter rivet holes **3/8** in. Pitch of rivets **X** No. of courses **7**  
(Single or double riveted)
  10. INNER SHELL **3/8** in. Style of seams: Longitudinal **-** Girth **-** Length of section or course **8** ft. **10 9/16** in.  
(Thickness) (Riveted, Forge Welded, Braised, or Fusion Welded—Par. No.)
  11. HEADS: **Concave** or dished **77** 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<br>Weldless | Area to be<br>Stayed | Maximum<br>Allowable<br>Working Pressure |
|-------------------------------|-----|------|----------|-----------------------|----------------------|--|
| 12. (a) F. H.                 | -   | -    | -        | -                     | -                    | -  |
| (b) R. H.                     | -   | -    | -        | -                     | -                    | -  |
| (c) Through                   | -   | -    | -        | -                     | -                    | -  |
| (d) Diagonal and Gusset Stays | -   | -    | -        | -                     | -                    | -  |

13. STAY BOLTS: **-** If hollow **-** 14. Maximum pitch **-** Diameter **-** 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"** Material of nozzle or reinforcement **Forged Steel** How attached **Welded**  
(Riveted, Welded, etc.)
18. DRAIN CONNECTION **3** in. HAND HOLES OR SIGHT HOLES **-**  
(Size) (Number, size, and location)
19. MANHOLES: **1** **18" Dia 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.**

Manufactured by Bethlehem Steel Company, Bethlehem, Pa.

Manufactured for Commonwealth Gas Co., Commonwealth, Pa.

Inspected by R. A. Hazen on February 19, 1938

Inspected at Hartford, Conn.

### CERTIFICATE OF SHOP INSPECTION

Insurance Company's Serial Number T-165-48-26

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

I, R. A. Hazen, 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 February

19, 1938, and certify that the statements made on this report are correct, corresponding with the mill test report 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. Hazen*  
**R. A. Hazen**

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