

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

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As required by the Provisions of the ASME Code Rules and the National Board, SECTION VIII, DIVISION 1.

1. Manufactured by RILEY BEARD, INC., SHREVEPORT, LOUISIANA
(Name and address of Manufacturer) SOUTHERN UNION GAS COMPANY
2. Manufactured for APPLIED ENGINEERING CO, ORANGEBURG, S.C. SHIP TO FLAGSTAFF, ARIZONA
(Name and address of Purchaser)
3. Type Horiz. Kind Tank Vessel No. 112365-01-2 Nat'l Bd. No. 28777 Yr. Built 1974
(Horiz. or Vert.) (Tank, Jacketed, Heat Exch.) (Mfrs. Serial) (State & State No.)

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. SHLL: Material SA-612-B T.S. 81,000# Nominal Thickness 13/16 Corrosion Allowance 0 in. Diam. 10 ft. 10-1/4 in. Length 122 ft. 6-1/2 in.
(Kind and Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (in. Allowance) (ft. in. Length ft. in.)
5. SHAMS: Long Dbl. Butt H.T. No R.T. Complete Sectioned No Efficiency 100 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No)
- Girth Dbl. Butt H.T. No R.T. Complete Sectioned No No. of Courses 17
6. HEADS: (a) Material SA-612-A T.S. 83,000# (b) Material _____ T.S. _____
* Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)
- (a) Ends 15/32" _____ 65,1347" Concave
- (b) _____
- If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

If riveted describe seams fully on reverse side of form

7. STAYBOLTS: _____ If hollow _____ Attachment _____ Pitch _____ X _____ Diam. _____
(Material) (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)
8. JACKET CLOSURE: _____
(Describe as ogee & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)
9. Constructed for max. allowable working press. 250 psi. at max. temp. 125 °F Min. temp. (when less than -20°) _____ °F
 Test Press. 375 psi. Hydrostatic Pneumatic or Combination

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. SHLL: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind and Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (in. Allowance) (ft. in. Length ft. in.)
13. SHAMS: Long Welded H.T. No R.T. Complete Sectioned No Efficiency _____ %
(Welded, Dbl., Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No)
- Girth _____ H.T. _____ R.T. _____ 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) _____ (c) _____
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

If riveted describe seams fully on reverse side of form

15. Constructed for max. allowable working press. _____ psi. at max. temp. _____ °F Min. temp. (when less than -20°) _____ °F
 Test Press. _____ psi. Hydrostatic Pneumatic or Combination
- Items below to be completed for all Vessels where applicable.

16. SAFETY VALVE OUTLETS: Number 2 Size 4" Location Top of tank in shell
17. NOZZLES:
- | Purpose (Inlet, Outlet, Drain) | Number | Diam. or Size | Type | Material | Thickness | Reinforcement Material | How Attached |
|--------------------------------|--------|----------------------|---------------------|------------|-----------|------------------------|--------------|
| Inlet (1) | 3" | 150# Slip on Flg. | SA-105 W/SA-106-B | SA-106-B | 13/16" | SA-612-B | Welded |
| Outlet (1) | 6" | 150# Weld Neck Flg. | SA-105 W/SA-106-B | SA-106-B | 13/16" | SA-612-B | Welded |
| Drain (2) | 3/4" | 6000# Cplgs. | F.S. | | | | Welded |
| (1) | 2" | 150# Weld Neck Flg. | SA-105 W/SA-106-B | | | | Welded |
| (2) | 2" | 150# Weld Neck Flgs. | SA-105 W/SA-106-B & | SA-234-WPB | | | Welded |
| (2) | 4" | 150# Weld Neck Flgs. | SA-181-I W/SA-106-B | SA-106-B | 13/16" | SA-612-B | Welded |
- * Head seams spot X-rayed Joint Eff. 85%

¹ If Postweld Heat-Treated ² List other internal or external pressures with coincident temperature when applicable

Purpose (Inlet, Outlet, Drain)	Number	Size or Pcs	Type	Material	Thickness	Reinforcement Material	How Attached
(1) 2-1/4"	Special Drilled Pad	Type Flg.				SA-516-70	Welded
(1) 3/4"	6000# Cplg.	F.S.	(1) 1/4"	(1) 3/4"	6000# Special Cplgs.	SA-105	Welded
(1) 1" Drilled & Tapped hole in manway cover							

18. INSPECTION: Manholes, No. 1 Size 18" Location 150# Pad Type SA-105
 OPENINGS: Handholes, No. _____ Size _____ Location Bottom of tank in shell
 Threaded, No. _____ Size _____ Location Ring 9

19. SUPPORTS: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
 (Yes or No) (Number) (Number) (Describe) (Where & How)

20. REMARKS: 130-1/4" I.D. x 133' 4-1/4" O.A. Length 89,715 W.G. Propane Storage Tank,
per Riley Beard, Inc. Dwg. Order No. 112365-01

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooler, etc. State contents of each part.)

We certify that the statements made in this report are correct and that all details of design, material construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1, 1971 Edition

Date 4-8 1974 Signed RILEY BEARD, INC. By W. Thomas
 Manufacturer

Certificate of Authorization Expires March 12, 1976

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY RILEY BEARD, INC. at SHREVEPORT, LOUISIANA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by COMMERCIAL UNION INSURANCE CO. of _____ have inspected the pressure vessel described in this manufacturer's data report on 4-8 1974, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-9 1974
W. G. Boubel Inspectors Signature
 Commissions N. B. COMM. 2660
 National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items _____ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 19.....
 _____ Inspectors Signature
 Commissions _____
 National Board, State, Province and No.