

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
 (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

SHEET I OF II

1. Manufactured by Riley Beard, Incorporated Shreveport, LA
 2. Manufactured for Cardox (Div. of Chemetron Corp.) Countryside, IL
 3. Location of installation Same Laporte, TX
 4. Type Horiz. Tank 168887-01-1 168887-01-A 52802 (Year Built) 1980
(Horiz or vert tank) (Mfr's Serial No) (CRN) (Drawing No.) (Natl Brd No.)
 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1977 and Addenda to Summer 1979 and Code Case Nos. N/A
(Year) (Date)

*As Indicated in the Shop Inspector's Log.

Special Service per UG-120(d) N/A

Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

(Name of part, item number, Mfr's name and identifying stamp)

6. Shell: Matl. SA-612 Nom. Thk 5/16 in. Corr. Allow. 0 in. Diam. 12 ft. 6-3/4 I.D. Length 103 ft. 4-3/4 in.
(Spec No. Grade) (Spot, Partial, or Full)

7. Seams: Long. Welded Dbl. Butt R.T. Full Efficiency 100 % H.T. Temp. 1000 ° F Time 57 Mins.
(Welded, Dbl, Sngl, Lap, Butt) (Spot or Full) (Max)

Girth Welded Dbl. Butt R.T. Full No. of Courses 14
(Welded Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)

8 Heads: (a) Material SA-612 (b) Material _____
(Spec No. Grade) (Spec No. Grade)

Head seams full x-rayed Joint Eff. 100% (Spec No. Grade)

| Location (Top Bottom Ends) | Min Thk | Corr Allow | Crown Radius | Knuckle Radius | Ellipse Ratio | Conical Apex Angle | Hemishp Radius | Flat Diam | Side to Pressure (Convex or Concave) |
|----------------------------|---------|------------|--------------|----------------|---------------|--------------------|----------------|-----------|--------------------------------------|
| Ends | .455" | 0" | | | | | 75.388" | | Concave |

If removable, bolts used (describe other fastenings) _____

(Material, Spec No., Gr., Size, No)

9 Constructed for max. allowable working pressure 250 psi at max. temp. 150 ° F. Min temp (where applicable) -20 ° F. Hydrostatic, pneumatic, or other test pressure 375 psi

10 Safety Valve Outlets: Number 3 Size 2" Location Top in shell

11 Nozzles and Inspection Openings:

| Purpose (Inlet Outlet Drain) | No | Diam or Size | Type | Matl | Nom Thk | Reinforcement Matl | How Attached | Location |
|------------------------------|-----|--------------|-------------------------------|----------|---------|--------------------|--------------|----------|
| Manway | (1) | 18" | 300# LWN | SA-105 | 1-1/2" | SA-515-70 | Welded | Head |
| Spare | (3) | 4" | 300# WN SA-105 w/Sch. 80 Pipe | SA-106-B | | SA-515-70 | Welded | Shell |
| Fill | (1) | 3" | 300# WN SA-105 w/Sch. 80 Pipe | SA-106-B | | SA-515-70 | Welded | Shell |
| Out | (3) | 4" | 300# WN SA-105 w/Sch. 80 Pipe | SA-106-B | | SA-515-70 | Welded | Shell |
| Equal | (1) | 4" | 300# WN SA-105 w/Sch. 80 Pipe | SA-106-B | | SA-515-70 | Welded | Shell |
| See Form U-4 Attached | | | | | | | | |

Pump Liquid

12 Supports Skirt No Lugs _____ Legs _____ Other (2) Saddles Attached Shipped Loose
(Yes or No) (In) (No) (Describe) (Where and how)

13 Remarks 150-3/4" I.D. x 115' - 9-1/2" O.A. Length 103,428 W.G. CO2 Storage Tank

CERTIFICATE OF COMPLIANCE

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

Date 5/12/80 Signed Riley Beard, Incorporated by R. J. McCarney
(Manufacturer) (Representative)

U Certificate of Authorization No 11,840 expires March 12, 1982

CERTIFICATE OF SHOP INSPECTION

Vessel made by Riley Beard, Incorporated at Shreveport, LA

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Commercial Union Ins. Co. of Boston MA have inspected the pressure vessel described in this Manufacturers Data Report on 4/29, 1980, and state that, to the best of my knowledge and belief the

Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty expressed or implied concerning the pressure vessel described in the Manufacturers Data Report. Furthermore neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of life, and arising from or connected with this inspection

Signed [Signature] Date _____ Commission No. N.B. COM. 7457

FORM U-4 MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET SHEET II OF II
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by Riley Beard Inc., Shreveport, Louisiana
(Name and address of manufacturer)

2. Manufactured for Cardox (Div. of Chemetron Corporation) Countryside, IL
(Name and address of purchaser)

3. Location of installation Same Laporte, TX
(Name and address)

4. Type Horiz. Tank Vessel Number 168887-01-1 168887-01-A 52802
Horiz. Vert Tank, etc. Mfg. serial CNR Desig Natl. Bd. No.

Year Built 1980

Data Report
Item Number

Remarks

11. Nozzles and Inspection Openings:

| Purpose (Inlet, Outlet, Drain) | No | Diam or Size | Type | Matt | Nom Thk | Reinforcement Mett. | How Attached | Location |
|-----------------------------------|-----|-----------------|-------------|--------|------------|------------------------|-----------------|----------|
| Safety | (3) | 2" | Spec. Cplg. | SA-105 | 3000# | | Welded | Shell |
| Vapor | (4) | 2" | Spec. Cplg. | SA-105 | 3000# | | Welded | Shell |
| Vapor | (2) | 1" | Spec. Cplg. | SA-105 | 3000# | | Welded | Shell |
| Liquid | (1) | 1" | Spec. Cplg. | SA-105 | 3000# | | Welded | Shell |
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Date 5/12/80 RILEY BEARD, INC. Signed R. J. McHenry
Manufacturer

Date 5-14-80
 Authorized Inspector's Signature Gene E. Mahone Commissions N.B. COMM. 7457
Natl. Board, State, Province and No.