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L. I. W. NO. L-6694  
CARDOX NO. L-1565-W3

FORM U-1A MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS  
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by LEADER IRON WORKS, INC. Decatur, Illinois  
(Name and address of Manufacturer)

2. Manufactured for Cardox, Division of Chemetron Corporation Chicago, Illinois  
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (43437) (Mfrs. Serial) (State & State No.) Natl. Bd. No. 43481 Yr. Built 1968  
(Horiz. or Vert.)

4. SHELL: Matl. SA-515-70 FQ.T.S. 70,000 None 1/32 0 In. Diam. 6 Ft. 6 In. Length 21 Ft. 0 In.  
(Kind and Spec. No.) (Fig or F.B. & Spec. Min. T.S.) (Spot or Complete) Allow. (Yes or No) In. Cor.

5. SEAMS: Long Weld Dbl. H.T. No. X.R. Spot Sectioned No Efficiency 85 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

6. HEADS: (a) Material SA-515-70 T.S. 70,000 (b) Material T.S.  
Location (Top, bottom, ends) Thickness 8125 Min. Crown Radius Knuckle Radius Elliptical Ratio 2:1 Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave) Concave

If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

If riveted or brazed describe seams fully under remarks

7. Constructed for max. allowable working press. 363 psi. at max. temp. 650 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic Test Press. 550 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number \_\_\_\_\_ Size \_\_\_\_\_ Location Furn. & Applied in Field

9. NOZZLES: \* (continued on #12)

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>Coil Outlet &amp; Vent</u>	<u>2</u>	<u>1 1/2"</u>	<u>Pipe</u>	<u>SA-53</u>	<u>X-Hvy.</u>	<u>---</u>	<u>Welded</u>
	<u>5</u>	<u>1 3/8"</u>	<u>Pipe</u>	<u>SA-53</u>	<u>X-Hvy.</u>	<u>---</u>	<u>Welded</u>

10. INSPECTION Manholes, No. 1 Size 15" Location In Head

OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt No Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other (2) Lift Eyes Attached Screwed into pads  
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS:  
\* Outlet 1 1" Pipe SA-53 X-Hvy. -- Welded

24 Ton CO<sub>2</sub> Storage Tank,

Built to 1965 A. S. M. E. Code.

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.--State Contents)  
\* If post-weld heat-treated.  
\* List other internal or external pressures with coincident temperature when applicable.

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 Unfired Pressure Vessels.  
Date April 18 19 68 Signed LEADER IRON WORKS, INC. By Raymond C. Rose  
(Manufacturer)  
Certificate of Authorization Expires 12/31/70

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY LEADER IRON WORKS, INC. at Decatur, Illinois

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Illinois and employed by The Fidelity & Casualty Co. of New York of New York have inspected the pressure vessel described in this manufacturer's data report on April 18 1968 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 April 18 1968  
F. H. Meyers Inspectors Signature  
Commissions NB # 3673, PA # 1498 and OHIO  
Natl Board or State and No.