

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

1. Manufactured by AMF BEAIRD, INC., SHREVEPORT, LOUISIANA  
(Name and address of Manufacturer)

2. Manufactured for CARDOX CORPORATION, CHICAGO, ILLINOIS  
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (176744-3) (          ) Natl. Bd. No.          Yr. Built 1970  
(Horiz. or Vert.) (Mfr. Serial) (State & State No.)

4. SHELL: Matl. SA-515-70 T.S. 70,000# Nom. 1.082 Corr.           
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) Thk. In. Allow 0 In. Diam. 12 Ft. 6 In. Length 104 6-3/8 In.

5. SEAMS: Long Dbl. Butt H.T. Yes R.T. Complete Sectioned No Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth Dbl. Butt H.T. Yes R.T. Complete Sectioned No No. of Courses 14

6. HEADS: (a) Material SA-515-70 T.S. 70,000# (b) Material          T.S. \* See remarks  
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 .6351"                                     75.02" Concave

(b)                                                                        

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

7. Constructed for max. allowable working press. <sup>2</sup> 250 psi at max. temp. 150 °F. Min. temp. -20 °F. Hydrostatic Pneumatic or Test Press. 375 psi.  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

8. SAFETY OR RELIEF VALVE OUTLETS: Number 2 Size 2" Location Top of tank in shell

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
	(3)	3/4"	(1) 6000# Cplgs.		SA-105-II		Welded
	(5)	2"	3000# Cplgs.		SA-105-II		Welded
	(2)	4" (1) 6"	Sch. 80 Seamless Pipe Stubs		SA-106-B		Welded

10. INSPECTION Manholes, No. 1 Size 11" x 15" Location End of tank in head  
 OPENINGS: Handholes, No.          Size          Location           
 Threaded, No.          Size          Location         

11. SUPPORTS: Skirt          Lugs          Legs          Other (2) Saddles Attached Shipped loose  
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: 150" I.D. x 116' 10" O.A. Length 103,315 W.G. CO2 Storage Tank, per Beaird Dwg. Order 176744-01

If riveted or brazed describe seams fully under remarks.

\* Head seams spot X-rayed Joint Eff. 85%

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents. If postweld heat-treated. List other internal or external pressure's 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. 1968 Edition Div. 1

Date 11-6 1970 Signed AMF BEAIRD, INC. By *W. J. Thomas*  
(Manufacturer)

Certificate of Authorization Expires December 31, 1974

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY AMF BEAIRD, INC. at SHREVEPORT, LOUISIANA  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. B. and employed by EMPLOYERS COMMERCIAL UNION INSURANCE CO. of AMERICA have inspected the pressure vessel described in this manufacturer's data report on 11-6 1970 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 11-6 1970  
 Inspector's Signature *J. M. Bonnell* Commission          Nat'l Board or State and No.