

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

CAT NO. 3132

JOB NO. 4-1222

1. Manufactured and Certified by Manchester TX 1201 N. GARY AVE. LUBBOCK, TX 79415
 2. Manufactured for STOCK
 3. Location of Installation Not Known
 4. Type VERT. SAME AS N.B. 3132 487700 (Yr. Built) 1991
 (HORIZ. OR VERT. TANK) (Mfg's Serial No.) (CRN) Drawing No. (Nat'l Bld. 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 1989 and Addenda to 1990
 and Code Case Nos. Special Services N/A (Year) (Date)
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of
 the report N/A

6. Shell: Matl. SA455 .250 N/A 3' 6" OD 7' 9"
 Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr Allow (in.) Diam. (ft. & in.) Shell Length (ft. & in.)
 7. Seams: Welded SINGLE Butt. N/A 70% N/A N/A Welded Single Butt N/A 1
 Long (Welded, Dbl., Sngl., Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr.) Girth (Welded Sngl. Butt) R.T. (Spot or Full) No. of Courses
 8. Heads: (a) Material SA455 (Spec. No., Grade) (b) Material _____ (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemisphere Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	<u>2 ENDS</u>	<u>.211</u>	<u>N/A</u>	<u>—</u>	<u>—</u>	<u>2:1</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Concave</u>
(b)						<u>2:1</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Concave</u>

If removable, bolts used (describe other fastenings) N/A
 (Material Spec. No., Gr., Size, No.)

9. Max. Allowable Working Pressure 150 psi at max. temp. 650 °F
 Min. Design Metal temp. -20 °F @ 150 psi HYDROSTATIC test pressure 225 psi
EXEMPT PER UG-20(f)

10. Nozzles, Inspection, and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Pressure Relief</u>	<u>1</u>	<u>2"</u>	<u>FORG</u>	<u>SA181-70</u>	<u>3000 #</u>	<u>Inherent</u>	<u>Fusion Weld</u>	
<u>INLET-OUTLET</u>	<u>2</u>	<u>3"</u>	<u>FORG</u>	<u>SA181-70</u>	<u>3000 #</u>	<u>Inherent</u>	<u>Fusion Weld</u>	
<u>INLET-OUTLET</u>	<u>1</u>	<u>1/2"</u>	<u>FORG</u>	<u>SA181-70</u>	<u>3000 #</u>	<u>Inherent</u>	<u>Fusion Weld</u>	
<u>INLET-OUTLET</u>	<u>1</u>	<u>1/4"</u>	<u>FORG</u>	<u>SA181-70</u>	<u>3000 #</u>	<u>Inherent</u>	<u>Fusion Weld</u>	
<u>INSPECTION</u>	<u>1</u>	<u>11X15</u>	<u>MANWAY</u>	<u>SA106C</u>	<u>.75</u>	<u>Inherent</u>	<u>Fusion Weld</u>	<u>SHELL</u>
<u>DRAIN</u>	<u>1</u>	<u>3/4"</u>	<u>FORG</u>	<u>SA181-70</u>	<u>3000 #</u>	<u>Inherent</u>	<u>Fusion Weld</u>	
							<u>Fusion Weld</u>	
							<u>Fusion Weld</u>	

11. Supports: Skirt YES Lugs 2 Legs 0 Other N/A Attached Fusion Weld HEAD
 (No.) (No.)

12. Remarks: FOR AIR CONSTRUCTED UNDER THE PROVISIONS OF UG 90 C-2
*Canadian Approvals: Drawing No. CR-42-150 CRN # H9071.213456789

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 9-9-91 Signed Manchester TX By Roger Farrow
 ("U" Certificate of Authorization No. 3139 (Manufacturer) expires 1-30-94 (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel made by Manchester TX at 1201 N. GARY AVE. LUBBOCK, TX 79415

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TEXAS and employed by HARTFORD STEAM BOILER INS. CO. have inspected the pressure vessel described in this Manufacturers' Data Report on 8-21 19 91, 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 a loss of any kind arising from or connected with this inspection.

Signed Kenneth Green Date 9-9-91 Commissions UB 9922, TX 1183
 (Inspector) (Nat'l Board, State, Province and No.)