

**FORM U-1-A 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.

A-601537

1. Manufactured by TRINITY INDUSTRIES, INC.  
(Name and address of the manufacturer)

2. Manufactured for MOORE ENGINEERING CO PO BOX 746 WATERLOO, IOWA 50704  
(Name and address of the purchaser)

3. Type horiz Vessel No. (399504) (Mfr. Serial) (State & State No.) Nat'l. Bd. No. \_\_\_\_\_ Yr. Built 1973

4. SHELL: Mat'l. SA-612-B T.S. 81,000 Nom. (Kind and Spec. No.) (Fig. of F.B. & Spec. Min. T.S.) 6733 Corr. Allow. (Spot or Co. nplete) (Yes or No) 0 in. Diam. 9 ft. 0 in. Length 65 ft. 11.375 in.

5. SEAMS: Long DBL BUTT H.T. NO R.T. \*COMP Section NO Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Co. nplete) (Yes or No)

Girth DBL BUTT H.T. NO R.T. COMP Sectioned NO No. of Courses 6

6. HEADS: (a) Material SA-455-B T.S. 73,000 (b) Material SA-455-B T.S. 73,000

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) <u>END</u>	<u>.436</u> "					<u>54" i.s.</u>		<u>CONCAVE</u>
(b) <u>END</u>	<u>.436</u> "					<u>54" IS</u>		<u>CONCAVE</u>

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

7. Constructed for max. allowable working press. 250 psi. at max. temp. 125 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic } Test Press. 375 psi.  
 Pneumatic or }  
 Combination }

8. SAFETY OR RELIEF VALVE OUTLETS: Number 1 Size 4" Location SHELL TOP CTR LINE

9. NOZZLES:

Purpose, (Inlet Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>LIQ. OUT</u>		<u>"</u>	<u>CPLG</u>	<u>F.S.</u>	<u>6000#</u>		<u>WELDED</u>
<u>LEV GA</u>		<u>"</u>	<u>CPLG</u>	<u>F.S.</u>	<u>3000#</u>		<u>WELDED</u>
<u>FILL VAPOR</u>		<u>"</u>	<u>CPLG</u>	<u>F.S.</u>	<u>3000#</u>		<u>WELDED</u>
<u>THERMO</u>		<u>"</u>	<u>PIPE</u>	<u>C.S.</u>	<u>XXHVY</u>		<u>WELDED</u>
<u>LL &amp; PG</u>		<u>"</u>	<u>CPLG</u>	<u>F.S.</u>	<u>6000#</u>		<u>WELDED</u>
<u>ROTARY</u>		<u>"</u>	<u>CPLG</u>	<u>F.S.</u>	<u>3000#</u>		<u>WELDED</u>

10. INSPECTION Manholes, No. 1 Size 18" Location SHELL TOP CTR LINE

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

Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt NO Lugs (Number) \_\_\_\_\_ Legs (Number) \_\_\_\_\_ Other \_\_\_\_\_ Attached \_\_\_\_\_  
(Yes or No) (Describe) (Where & How)

12. REMARKS: 108"Ø 30,000WG. (LPG) BULK STORAGE TANK PER DWG # 601534-1 TANK TO BE USED IN NONCORROSIVE SERVICE

(Brief description of purpose of the vessel, as Air Tank, Water Tank, L.P.G., Etc. -State contents)  
 1 If postweld heat-treated.  
 2 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 the vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date JULY 10 19 73 Signed TRINITY INDUSTRIES, INC. (Manufacturer) By David J. ...

Certificate of Authorization Expires JAN. 7, 1974  
 \*HEADS ARE SPOT R.T.

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY TRINITY INDSTRITIES, INC. at AMARILLO, TEXAS

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspection and the State or Province of TEXAS and employed by COMMERCIAL UNION INS. CO. of BOSTON, MASS. have inspected the pressure vessel described in this manufacturer's data report on JULY 10 19 73, and state that to the best of my knowledge and belief the vessel was constructed 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, in connection with the vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable for any injury or property damage or a loss of any kind arising from or connected with his inspection.

Date JULY 10 19 73 Signature Ralph L. Long Inspector's Signature  
 Commission TEXAS