



# TRANSTECH ENERGY

## 12,000-Gallon Storage Vessel Rocky Mount, NC

### VESSEL SPECIFICATIONS

Manufacturer	Year	Capacity (Liquid Gallons)	PSI	Serial Number/ National Board Number
Masonite	1977	12,000	250	ST-2801/ 538

The vessel listed is ASME certified and was manufactured by Masonite. This steel vessel is 9-foot in diameter and 28-foot in length with hemispherical heads. The heads are constructed from SA-455-B steel and are .4375" thick. The shell is constructed from SA-612-B steel and is .6733" thick.



**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

1. Manufactured by MASONITE CORPORATION-TANK DIVISION, Vicksburg, MS  
 2. Manufactured for \_\_\_\_\_  
 3. Location of Installation \_\_\_\_\_  
 4. Type HORIZ. ST-2801 12M12 538 (Year Built) 1977  
(Horiz. or vert. tank) (Mfr'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 1974 and Addenda to 1977 and Code Case Nos. \_\_\_\_\_  
(Year) (Date)  
 Special Service per UG-120(d) \_\_\_\_\_  
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: \_\_\_\_\_  
 6. Shell: Matl. SA-612-B Nom. Thk. .6733" Corr. Allow \_\_\_\_\_ in. Diam. 108" in. Lgth. 19 ft 0 in.  
(Spec. No., Grade)  
 7. Seams: Long Welded Dbl. Butt Full Efficiency 100 % H.T. Temp. \_\_\_\_\_ F Time \_\_\_\_\_ hr  
(Welded Dbl. Singl. Lap, Butt) (Spot or Full)  
 Girth Welded Dbl. Butt R.T. Full No. of Courses 2  
(Welded Dbl. Singl. Lap, Butt) (Spot, Partial, or Full)  
 8. Heads: (a) Material SA-455-B (b) Material \_\_\_\_\_  
(Spec. No., Grade) (Spec. No., Grade)  

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow	Crown Radius	Knuckle Radius	Edge Ratio	Conical Apex Angle	Hemish. Radius	Flat Dam	Side to Pressure (Convex or Con-ave)
(a) <u>Ends</u>	<u>.4375"</u>						<u>54"</u>		<u>Concave</u>
(b) _____									

 If removable, bolts used (describe other fastenings) \_\_\_\_\_  
 9. Constructed for max. allowable working pressure 250 psi at max. temp. 125 F. Min. temp. (when less than -20 F) \_\_\_\_\_  
(Material, Spec. No., Gr. Size, No.)  
Hydrostatic, pneumatic, or combination test pressure \_\_\_\_\_ psi.  
 10. Safety Valve Outlets: Number 2 Size 2" Location Top of Vessel  
 11. Nozzles and Inspection Openings \_\_\_\_\_ and \_\_\_\_\_  

Purpose (Exit, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
	<u>1</u>	<u>3.00"</u>	<u>Cplg.</u>	<u>SA-105-2</u>	<u>.53"</u>	<u>Inherent</u>	<u>Welded</u>	
	<u>5</u>	<u>2.50"</u>	<u>"</u>	<u>"</u>	<u>.53"</u>	<u>"</u>	<u>"</u>	
	<u>5</u>	<u>2.00"</u>	<u>"</u>	<u>"</u>	<u>.40"</u>	<u>"</u>	<u>"</u>	
	<u>1</u>	<u>1.00"</u>	<u>"</u>	<u>"</u>	<u>.30"</u>	<u>"</u>	<u>"</u>	
	<u>1</u>	<u>.25"</u>	<u>"</u>	<u>"</u>	<u>.25"</u>	<u>"</u>	<u>"</u>	
	<u>1</u>	<u>.50"</u>	<u>Thermowell</u>		<u>.375"</u>	<u>"</u>	<u>"</u>	
	<u>1</u>	<u>12" X 16"</u>	<u>Ellip. Manway</u>					

 12. Supports: Skirt No Lugs 1 Legs \_\_\_\_\_ Other 1 Bracket Attached Welded To Head  
(Yes or No) (No.) (No.) (Describe) (Where and how)  
 13. Remarks: 12,000 W.G. Capacity LP Gas Storage Tank  
108" I.D. X 28'-0" O.A.L.  
ASME CODE: PARA: UW-12 (a) & UW-51

**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 10/15/77 Signed MASONITE CORP. - TANK DIV. by Bob J. Oglesby  
Manufacturer  
 "U" Certificate of Authorization No. 987 expires December 31, 1977

**CERTIFICATE OF SHOP INSPECTION**

Vessel made by MASONITE CORP. - TANK DIV. at Vicksburg, MS  
 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 ARKANSAS and employed by ARMSTRONG-PETCO, have inspected the pressure vessel described in this Manufacturers' Data Report on SEPTEMBER 10 19 77 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 the inspection.  
 Signed R. J. ... Date 10/10/77 Commissions NB 4465 Pa. W 2218  
(Inspector) (Nat'l Board, State, Province and No.)