TRANSTECH ENERGY

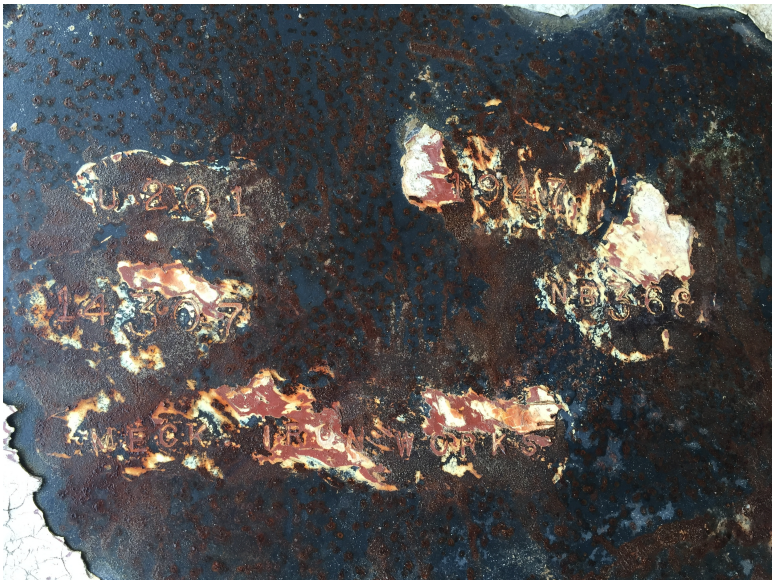
6,000-Gallon Storage Vessel

Rocky Mount, NC

VESSEL SPECIFICATIONS

Manufacturer	Year	Capacity (Liquid Gallons)	PSI	Serial Number/ National Board Number
Meck Iron Works	1947	6,000	200	14307/ 368

The vessel listed is ASME certified and was manufactured by Meck Iron Works. This steel vessel is 60- inches in diameter and 40-foot in length with elliptical heads.



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MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

As Required by the Provisions of the A. S. M. E. Code Rules and National Board

1. Manufactured by Mecklenburg Iron Works, Inc., Charlotte, N. C. (Name and address of the manufacturer)

2. Manufactured for Rulane Gas Company, Charlotte, N. C. (Name and address of the purchaser)

3. Type Horizontal (Horizontal or Vertical) Unfired Pressure Vessel No. (14307 (Mfrs.' serial, or A.S.M.E. No.)) (368 (State and State No.)) Year built 1947

4. Have mill test reports been checked on all the plates entering this unfired pressure vessel Yes

Do the chemical and physical properties of all plates meet the requirements of the Code Yes

5. Shell or Drums: No. 1 Diameter (or width) ft. 60 in. Length over-all 40 ft. 0 in. Height ft. in.

6. Stamps on shell plates 55,000 (Brand and Lowest Tensile Strength) Rivets, stays, and braces (Iron or steel)

7. Shell Plates 9/16 (Outer Thickness) in. Butt straps (Thickness) in. Style of seams: Longitudinal Fusion Welded (Riveted, Forge Welded, Brazed, or Fusion Welded—Par. No.) Girth Fusion Welded U-20

8. Diameter of rivet holes in. Pitch of rivets ×× Efficiency of joint 80 %

9. Girth Joints (Single or double riveted) Diameter rivet holes in. Pitch of rivets in. No. of courses 5

10. Inner Shell (Thickness) in. Style of seams: Longitudinal (Riveted, Forge Welded, Brazed, or Fusion Welded—Par. No.) Girth Length of section or course 8 ft. 0 in.

11. Heads: Flg. or dished 15/16 (Thickness) in. Radius of dish 60 in. Side to pressure Concave (Concave or convex)

If removable, bolts used (Number and size) or method of fastening (Describe or sketch)

	STAYS	No.	Size	Net Area	Welded or Weldless	Area to be Braced	Maximum Allowable Working Pressure
12.	(a) F. H.						
	(b) R. H.						
	(c) Through						
	(d) Diagonal and Gusset Stays						

13. Staybolts (Iron or Steel) If hollow (Size of hole) 14. Maximum pitch (Horizontal) × (Vertical) Diameter (Over the threads) in

15. Safety Valve outlets: No. Size

16. Fusible Plug (if used): No. 2 - 3/4 Diameter and material of filling Couplings Location Head

17. Outlets: No. 10 Size 6 -2" 4 - 1" Material of nozzle or reinforcement Couplings How attached Welded 3/8" (Riveted, Welded, etc.)

18. Drain connection 2-2" (Size) in. Hand Holes or Sight Holes None (Number, size, and location)

19. Manholes: None (Number) (Size and location of each) Reinforcement (Riveted, Welded, etc.)

20. Nonpressure Parts. (a) Supporting lugs (Number) Supporting skirts (b) Other nonpressure parts (Kind and number)

(c) Where and how attached None

21. Bursting pressure 1051.5 psi Hydrostatic test 400 lb 22. Constructed for pressure of 200 psi Factor of safety 5.1

Remarks: PROPANE GAS (Vessel to be used for air, gas, ammonia, etc.)

We certify the above data to be correct and that all details of material, construction, and workmanship on this unfired pressure vessel conform to the A.S.M.E. Code for Unfired Pressure Vessels.

Date 4/26 19 47 Signed Mecklenburg Iron Works, Inc. (Manufacturer) by C. A. Smith

CERTIFICATE OF SHOP INSPECTION

Insurance Company's Serial Number 406

VESSEL MADE BY Meck. Iron Works, Inc. Charlotte, N. C.

I, the undersigned, holding a certificate of competency as an inspector of steam boilers in THE STATE OF North Carolina, and employed by the Carolina Casualty Insurance Co. of Burlington, N. C., inspected internally and externally, the vessel specified in this report, on May 6, 1947

19 , and certify that the statements made on this report are correct, corresponding with the mill test reports of material as furnished by the builders, and measurements made of the vessel when completed; and that this vessel is constructed in accordance with the A.S.M.E. Code Rules for the Construction of Unfired Pressure Vessels.

Richard K. Kemp

Inspector for State or Boiler Insurance Company.