

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 UNION CARBIDE CORPORATION, LINDE DIVISION, THEODORE, ALABAMA UCAR 833
 2. Manufactured for _____
 3. Location of Installation NOT KNOWN - BUILT FOR STOCK
 4. Type VERTICAL TANK TMI500-C 1282 D-616466 AH 2433 (Year Built) 1980
(Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l. Bd. 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 1977 and Addenda to Winter, 1979 and Code Case Nos. 1670.
(Year) (Date)

Special Service per UG-120(d) Low Temperature Part ULT
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____
(Name of part, item number, Mfr's name and identifying stamp)

6. Shell: Matl. SA553-GR I MIN Thk. 339 in. Corr. Allow. _____ in. Diam. _____ ft 60.25 in. Length 8 ft 9.31 in.
(Spec. No., Grade) (Mfr's name and identifying stamp) (Date)
 7. Seams: Long. Welded, Sngl., Butt R.T. Full Efficiency 100 % H.T. Temp. _____ F Time _____ hr.
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial or Full)
 Girth Welded, Sngl., Butt R.T. Full No. of Courses 1
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial or Full)
 8. Heads: (a) Material SA-353 (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knockle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Spot. Process	Concave or Convex
<u>Top&Bottom</u>	<u>.321</u>				<u>2:1</u>				<u>Concave</u>

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

9. Constructed for max. allowable working pressure 250 psi at max. temp. +100° F. Min. temp. (when less than -20 F) -320° F. Hydrostatic, pneumatic, or combination test pressure H-429 psi.
 10. Safety Valve Outlets: Number 1 Size 1" Location Head
 11. Nozzles and Inspection Openings

Purpose (Inlet, Outlet, Drain)	No.	diam. or size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Outlet</u>	<u>3</u>	<u>1.0"</u>	<u>Pipe</u>	<u>SA312T-304</u>	<u>.250"</u>	<u>Nozzle</u>	<u>Weld</u>	<u>Head</u>
<u>Inlet/Outlet</u>	<u>2</u>	<u>1.5"</u>	<u>Pipe</u>	<u>SA312T-304</u>	<u>.400"</u>	<u>Nozzle</u>	<u>Weld</u>	<u>Head</u>
<u>Instrument</u>	<u>3</u>	<u>.75"</u>	<u>DrBarstock</u>	<u>SA479T-304</u>	<u>.25"</u>	<u>Nozzle</u>	<u>Weld</u>	<u>Head</u>

12. Supports: Skirt _____ Lugs _____ Legs _____ Other Straps Attached Welded to Shell
(Yes or No) (No.) (No.) (Describe) (Where and How)

13. Remarks: UT Examination of weld repairs per UW-51 (b). "for non-corrosive service" per UC-46 (a)
Service Restricted to Oper. Temp., Liq. Nitrogen -255°F; Liq. Oxygen -225°F; Liq. Argon -230°F

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 8/28/80 Signed UNION CARBIDE CORP., LINDE DIV by Elaine M. Lowrey
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 13617 expires October 10, 19 82

CERTIFICATE OF SHOP INSPECTION

Vessel made by Union Carbide Corp., Linde Division at Theodore, Alabama

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PA, IN, OH, and employed by Travelers Ind. have inspected the pressure vessel described in this Manufacturers' Data Report on August 28, 1980, 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 JC Seitzley Date 8/28/80 Commissions NB-6362, PA, WC-1728, & Ohio
(Inspector) (Nat'l. Board, State, Province and No.)