## FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As required by the Provisions of the ASME Code Rules M&I, 10B #16371-1

	As required by the Provisions of the ASME Code Rules M&L JOB #16371-10
1.	Manufactured by MANNING & LEWIS ENG. CO., 675 RAHWAY AVE., UNION, N. J.  (Name and address of manufacturer)
2.	Manufactured for HERCULES INC. WILMINGTON, N.C.  (Name and address of Purchaser)
3.	Type HOR Kind K. Vessel No. (4840) ( Natl. Bd. No. 2566 Yr. Built 1967 (Horiz. or Vert.) (Tank, Jacketed, Heat Exch.) (Mfrs. Serial) (State & State No.)
Item	ns 4–9 inci. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers.
4.	SHELL: Material SA285-C (Kind and Spec. No.)  SHELL: Material SA285-C (Fig. or F.B. & Spec. Min. T.S.)  SHELL: Material SA285-C (Fig. or F.B. & Spec. Min. T.S.)  (Fig. or F.B. & Spec. Min. T.S.)
5.	SEAMS: Long DBL, BUTT H.T. NO X.R. NO Sectioned NO Efficiency 70 % If riveted describe seams fully on re-
6.	HEADS: (a) Material T.S. (b) Material T.S.
	Location Crown Knuckle Elliptical Conical Hemispherical Flat Side to Pressure (Top, bottom, ends) Thickness Radius Radius Ratio Apex Angle Radius Diameter (Convex or Concave)
	(b)
7.	(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)  STAYBOLTS: If hollow Attachment Pitch X Diam
	(Material) (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)  JACKET CLOSURE:
٥.	(Describe as ogee & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)
9.	Constructed for max.  allowable working press. 1 150 psi. at max. temp. 275 °F. less than -20°) °F. Combination Press. 375 psi.
	TUBE SHEETS: Stationary, Material ACAO TP304 Diam. 29.56 In Thickness 1.875 n. Attachment W
10.	TUBE SHEETS: Stationary. Material The Diam. 29 56 In. Thickness 1 17 In. Attachment (Welded, Bolted)
	Floating. Material Diam. In. Thickness In. Attachment (Kind & Spec. No.)
11.	TUBIES: Material O.D. 3/4 In. Thickness 16 Inches or Gage Number 668 Type (Straight or U)
Iten	ns 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.
12.	SHELL: Material T.S. SOCO Nominal Society of the Spectage of t
13.	SEAMS: Long Block BUTT HT NO YD SPOT Sectional NO Extract 85 or If giveted de-
	Girth BL. BUTT HT NO YD NO Sectioned NO No of sources 1
14.	HEADS: (a) Material T.S. 75000 (b) Material 84240 T.S. 75000 (c) Material T.S.
	Location Thickness Crown Regipes Radius Ratio Apex Angle Radius Diameter (Conver or Concave)  Top, bottom, ends 4
	Floating SATOR PROTECTION TO THE TOTAL TO THE TOTAL TO
	(b) (Material, Spec. No., T.S., Size, Number)  (c)Other fastening
	(Describe or Attach Sketch)
15.	Constructed for max.  allowable working press.  150  psi. at max. temp. 375  psi. at max. temp. 375  Pineumatic or Combination Press. 334  psi. 4 psi. 4 psi. 4 psi. 5 psi
Iten	ns below to be completed for all vessels where applicable.
	SAFETY VALVE OUTLETS: NumberSizeLocationNOZZLES:
	Purpose (Inlet, Outles Jimin) Number Diam. or Size Sype SA Material Thickness Reinforcement Attached
	089 1 1-1/2 W 5/80 W
18.	INSPECTION Manholes, No. Size Location  OPENINGS: Handholes, No. Size Location
19.	Threaded, No. Size Location
20.	REMARKS. 28-144 CRUDE MELTER HEATER WITH STEAM IN SHELL (Describe) (Where & How)
	AND DAT IN TUBES

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