

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by Ryan Industries, 4800 Allmond Avenue, Louisville, Ky. 40214
(Name and address of manufacturer)
 2. Manufactured for SKE-COR Leasing, Box FF, Tulsa, Oklahoma 74112
(Name and address of purchaser)
 3. Location of installation Prestco Inc., 5550 East Admiral Place, Tulsa, Oklahoma 74115
(Name and address)
 4. Type Vert. Vessel No. 6971 ID-700147B 6971 Year Built 1978
(Horiz or vert tank) (Mfg's Serial No.) (CRN) (Drawing) (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 1977 and Addenda to Latest
and Code Case Nos N/A (Year) (Date)
 Special service per UG 170(d) Low Temperature (Cryogenic)
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
N/A
N/A
 (Name of part item number, mfg's name and identifying stamp)

Items 6-11 incl to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell Matl. SA240-T304 S/S Nom. Thk. .264 in. Corr. Allow. 0 in. Diam. 36 in. Lgth. 11 ft 4 1/2 in.
(Spec No., Grade) (in. Diam) (in. Lgth)
 7. Seams:
 Longitudinal Butt R.T. RT-2 Efficiency 100 % H.T. Temp N/A F Time N/A Girth Butt R.T. RT-2 No. of Courses 1
(Dbl. ~~XXX~~) (Full or Partial) (XXX or Full) (XXX or Full) (XXX or Full)

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 12-8-78 Signed Ryan Industries by William P. Landers, Jr.
(Manufacturer) (Representative)
 "U" Certificate of Authorization No. 7109 expires 30 March, 1979

CERTIFICATE OF SHOP INSPECTION

Vessel made by Ryan Industries at 4800 Allmond Avenue, Louisville, Ky. 40214

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 Kentucky and employed by Commercial Union Ins. Co. of Boston, Mass. have

inspected the pressure vessel described in this Manufacturers' Data Report on 11-19, 11-29, 12-8, 1978, 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.

Date 12-21-78 Signed [Signature] Commissions NB 5536
(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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 _____ Signed _____ by _____
(Manufacturer) (Representative)

"U" Certificate of Authorization No. _____ expires _____, 19____

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have

compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

The described vessel was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this 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.

Date _____ Signed _____ Commissions _____
(Authorized Inspector) (Nat'l Board, State, Province and No.)

FORM U-1 (BACK)

8. Heads: (a) Material SA240-T304 S/S (Spec. No., Grade) (b) Material SA240-T304 S/S (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	Top	.262	0	N/A	N/A	2:1
(b)	Bottom	.262	0	N/A	N/A	2:1

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	N/A	N/A	N/A	Concave
(b)	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) _____

(Material, Spec. No., Gr., Size, No.)

9. Type of Jacket N/A Proof Test N/A

10. Jacket Closure N/A If bolted, describe or sketch. _____
(Describe as open & weld bar, etc.) If bar, give dimensions N/A

11. 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 497 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary - Material _____ (Spec. No., Gr.) Diam _____ in. Thk. _____ in. Allow. _____ in.
Attachment _____ (Welded, Bolted) Floating - Material _____ (Spec. No., Gr.) Diam _____ in. Thk. _____ in. Allow. _____ in.

13. Tubes: Material _____ (Spec. No., Gr.) O.D. _____ in. Thk. _____ in. or Ga. No. _____ Type _____ (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: Material _____ (Spec. No., Gr.) Nom. Thk. _____ in. Allow. _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.

15. Seams: Longitudinal _____ R.T. _____ (Spot or Full) Efficiency _____ % H.T. Temp _____ F Time _____ Girth _____ R.T. _____ (Spot, Partial or Full) No. of courses _____

16. Heads: (a) Material _____ (Spec. No., Grade) (b) Material _____ (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)				
(b)				

If removable, bolts used (describe other fastenings) _____

(Material, Spec. No., Gr., Size, No.)

17. Constructed for max. allowable working pressure _____ psi at max temp. _____ F. Min. temp. (when less than -20 F) _____ F.
Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number 1 Size 1" Location Vent Line

19. Nozzles: 1/4" Hydro 1 .750 Bar SA479-T304 .105 N/A Welded

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Instrument	2	.625	Bar	SA479-T304	.1175	N/A	Welded
Instrument	1	.875	Bar	SA479-T304	.2425	N/A	Welded
Fill	2	2.500	Bar	SA479-T304	.680	N/A	Welded
Vent Liq. Draw	2	1.500	Bar	SA479-T304	.1800	N/A	Welded
2" Hydro	1	2.375	Pipe	SA312-T304	.154	N/A	Welded

20. Inspection Openings: Manholes No. _____ Size _____ Location _____
Handholes No. _____ Size _____ Location _____
Threaded No. _____ Size _____ Location _____

21. Supports: Skirt _____ Lugs _____ (Yes or no) Legs _____ (No.) Other Straps Attached Welded on tank centerline (Where and how)

22. Remarks: Data for 1-575 gal. gross vacuum jacketed cryogenic storage vessel at 250 psia. Stainless steel non-corrosive service. Code stamp inner vessel only. Item #11 plus full vacuum and static head.