

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 Cyprus Specialty Steel Company, 1500 S. 7th St., Phoenix, AZ 85034
 2. Manufactured for Amerigas (e, g, not known)
 3. Location of Installation Phoenix, Arizona
 4. Type horizontal (Horiz. or vert. tank) (Mfg's Serial No.) 1394 (CRN) U-1 (Drawing No.) 188 (Nat'l Bld No.) (Year Built) 1980

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. none
 (Year) (Date)
 Special Service per UG-120(d) not applicable
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: none

6. Shell: Matl. SA-516-70 (Spec. No., Grade) Nom. Thk. 13/16 in. Allow. none in. Diam. 78 in. Lgth. 48 ft 0 in.

7. Seams: Long. welded Dbl. Butt (Welded, Dbl, Sngl, Lap, Butt) R.T. full Efficiency 100 % H.T. Temp. F Time hr
 Girth welded Dbl. Butt (Welded, Dbl, Sngl, Lap, Butt) R.T. partial No. of Courses 6
 (Spot, Partial, or Full)

8. Heads: (a) Material SA-516-70 (Spec. No., Grade) (b) Material SA-516-70 (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) end	.782	0			2:1				concave
(b) end	.782	0			2:1				concave

If removable, bolts used (describe other fastenings) none (Material, Spec. No., Gr., Size, No.)

9. Constructed for max. allowable working pressure 350 psi at max. temp. 650° F. Min. temp. (when less than -20 F) F. Hydrostatic ~~XXXXXX~~ test pressure 525 psi.

10. Safety Valve Outlets: Number 1 Size 1/2, 2" Location shell

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
vapor, fill, drain	7	2"	stub end	SA-106B	.218			
liq. aux.	1	1"	stub end	SA-106B	.179			
refrig.	2	1"	coupling	SA-105	.2175			
tank element	1	4"	flanged	SA-53B	.337	SA-516-70		
manway	1	11x15	elliptical	SA-106-C	1.00	SA-516-70	welded	Head a

12. Supports: Skirt no Lugs Legs Other saddles Attached shell, weld
 (Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: 78" I.D. x 48'-0 TL/TL liquid CO2 storage vessel "1G"
12,451 gals. capacity U.G. 22 items #2 and #4 not considered.
vessel to be tested in horizontal position

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 8-27-80 Signed Cyprus Specialty Steel Co. by Harold B. Barones (Manufacturer) (Representative)
 "U" Certificate of Authorization No. 4909 expires December 31, 1980

CERTIFICATE OF SHOP INSPECTION

Vessel made by Cyprus Specialty Steel Co. at Phoenix, Arizona
 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 Phoenix, Arizona and employed by H.S.B.I. & I. Co have inspected the pressure vessel described in this Manufacturers' Data Report on August 27 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 Fredrick Anderson (Inspector) Date 8/27/80 Commissions UB7586 (Nat'l Board, State, Province and No.)