

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

PO 15852 1/3

1. Manufactured and certified by SUPERIOR WELDING COMPANY, 900 EAST DIVISION, DECATUR, ILLINOIS 62526  
(Name and address of manufacturer)
2. Manufactured for H & R INDUSTRIES, 30553 SOUTH DIXIE HIGHWAY, BEECHER, ILLINOIS 60401  
(Name and address of purchaser)
3. Location of installation H & R INDUSTRIES, 30553 SOUTH DIXIE HIGHWAY, BEECHER, ILLINOIS 60401  
(Name and address)
4. Type HORIZONTAL 91-0063-01 --- L91-0063-A Rev 1 6709 1992  
(Horiz. or vert., tank) (Mfg.'s serial No.) (CRM) (Drawing No.) (Nat'l. Bd. No.) (Year built)
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 1989  
Year

TO "90" --- ---  
Address (Dist.) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-612 NORMALIZED .699" NONE 78" ID T.L. to T.L. 32'-4"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: DBL. BUTT WELDED FULL 100% --- --- DBL. BUTT WELDED SPOT 3  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) EM. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses
8. Heads: (a) Matl. SA-612 NORMALIZED (b) Matl. SA-612 NORMALIZED  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) RT. END	.683"	NONE	---	---	2:1	---	---	---	CONCAVE
(b) LT. END	.683"	NONE	---	---	2:1	---	---	---	CONCAVE

If removable, bolts used (describe other fastenings) ---  
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 350 psi at max. temp. 100 °F  
 Min. design metal temp. \*-40 °F at 350 psi. Hydro., pneu., or comb. test pressure 525 HORIZONTAL psi.

10. Nozzles, inspection and safety valve openings: SAFETY VALVE OUTLETS IN EXT. PIPING BY OTHERS

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
				SEE U-4 FORM				

11. Supports: Skirt NO Lugs 2 Legs --- Other --- Attached TOP OF SHELL, WELDED  
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's 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, Mfg.'s name and identifying stamp)

\*EXEMPTED FROM IMPACTED TEST PER FIG. UCS-66 CURVE D, UG-84, UHA-51(a) and UCS 66.1 FOR MANWAY LOCATED IN TOP HEAD SEE PARTIAL DATA U-2A LOS ANGELES BOILER WORKS, INC. SERIAL 16141 Use and Contents of Vessel is CO2 Storage

CERTIFICATE OF SHOP 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. "U" Certificate of Authorization No. <u>1900</u> expires <u>8-26</u> , 19 <u>92</u> .													
Date <u>2-6-92</u>	Co. name <u>SUPERIOR WELDING COMPANY</u> Signed <u>Bobby Frady</u>												
<table border="1"> <thead> <tr> <th colspan="2">CERTIFICATE OF SHOP INSPECTION</th> </tr> </thead> <tbody> <tr> <td colspan="2">Vessel constructed by <u>SUPERIOR WELDING COMPANY</u> at <u>DECATUR, ILLINOIS</u></td> </tr> <tr> <td colspan="2">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 <u>ILLINOIS</u> and employed by <u>Kemper National Insurance Companies</u></td> </tr> <tr> <td colspan="2">have inspected the component described in this Manufacturer's Data Report on <u>2-6</u>, 19 <u>92</u>, 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 this Manufacturer's 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.</td> </tr> <tr> <td>Date <u>2-6-92</u></td> <td>Signed <u>[Signature]</u> Commissions <u>NO 929 11/208</u></td> </tr> <tr> <td></td> <td><small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small></td> </tr> </tbody> </table>		CERTIFICATE OF SHOP INSPECTION		Vessel constructed by <u>SUPERIOR WELDING COMPANY</u> at <u>DECATUR, ILLINOIS</u>		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 <u>ILLINOIS</u> and employed by <u>Kemper National Insurance Companies</u>		have inspected the component described in this Manufacturer's Data Report on <u>2-6</u> , 19 <u>92</u> , 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 this Manufacturer's 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 <u>2-6-92</u>	Signed <u>[Signature]</u> Commissions <u>NO 929 11/208</u>		<small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small>
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have inspected the component described in this Manufacturer's Data Report on <u>2-6</u> , 19 <u>92</u> , 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 this Manufacturer's 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.													
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	<small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small>												



FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

NS4709

1. Manufactured and certified by Los Angeles Boiler Works Inc. 707 North 20th St., Blackwell OK 74631

2. Manufactured for Stock

3. Location of installation Unknown 16138 thru 16155

4. Type (18 alike) B-2777 1991

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to ASME Rules, Section VIII, Division 1 1989

1990 Addends (date) Code Case No. Special Service per UG-120(d)

6. (a) Drawing prepared by Los Angeles Boiler Works Inc (b) Description of part inspected 12 X 16 X 1 1/2 X 6 Ring

7. Postweld heat treatment: Temp. 1650 °F Time 1 hr. 30 min.

8. Shell: SA-516-70 1 1/2" 0' 6" 1

9. Seams: DBL Butt Full 100

10. Heads: (a) Matl. N/A (b) Matl. N/A

Table with 10 columns: Location (Top, Bottom, Ends), Minimum Thickness, Corrosion Allowance, Crown Radius, Knuckle Radius, Elliptical Ratio, Conical Apex Angle, Hemispherical Radius, Flat Diameter, Side to Pressure (Convex or Concave). Rows (a) and (b) are empty.

If removable, bolts used (describe other fastenings)

11. MAWP psi at max. temp. °F. Min. design metal temp. °F at psi. Hydro., pneu., or comb. test press. psi in the position.

12. Nozzles and Inspection Openings:

Table with 10 columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diam. or Size, Type, Matl., Nom. Thk., Reinforcement Matl., How Attached, Location. All rows are empty.

13. Supports: Skirt Lugs Legs Other Attached

14. Remarks: No Desihn Functions performed. Certified to Material & Workmanship only. The Weld Procedure used on these items has been qualified in the PWHT Condition. No Hydro Test performed.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 721 expires March 30, 1992. Date 10-23-91 Co. name Los Angeles Boiler Works Inc. Signed [Signature]

CERTIFICATE OF SHOP INSPECTION

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 Oklahoma and employed by Delta Lloyds Insurance Company of Houston, TX have inspected the pressure vessel part described in this Manufacturer's Data Report on 10-24, 1991, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part of a pressure vessel in accordance with the 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 part described in the Manufacturer's 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 10-24, 1991 Signed [Signature] Commissions [Signature]