

**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

1. Manufactured and certified by TOMCO EQUIPMENT CO. PVF DEPT., 3340 Rosebud Rd., SNELLVILLE, GA, Mail: LOGANVILLE, GA 30052  
(Name and address of manufacturer)

2. Manufactured for STOCK  
(Name and address of purchaser)

3. Location of installation UNKNOWN  
(Name and address)

4. Type HORIZONTAL 97516 --- REMARKS 5637 1997  
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (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 1995  
 to 1996 NONE  
Addenda (Date) Code Case Nos. Special Services per UG-120(d)

6. Shell: SA612\*\*\* .362 0 3'-6" 7'-3 1/4"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: WLD.DBL.BUTT FULL 100% --- --- WLD.DBL.BUTT SPOT 1  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) 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. SA516,70\*\*\* (b) Matl. SA516,70\*\*\*  
(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)	END	.4245	0			2:1				CONCAVE
(b)	END	.4245	0			2:1				CONCAVE

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

9. MAWP 350 psi at max. temp. 200 °F  
 Min. design metal temp. -50 °F at 350 psi. Hydro. ~~XXXXXX~~ test pressure in HORZ position @ 525 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inspection	1	12"x16"	Manway	SA516,70 NORM	1.5"	INHERENT	UW16.1(i)	SHELL
Safety	1	1"	Nozzle	SA312, TP304	S80	INHERENT	UW16.1(i)	
Process	2	1/2"	Nozzle	SA312, TP304	S80	INHERENT	UW16.1(i)	
Process	2	1"	Nozzle	SA312, TP304	S80	INHERENT	UW16.1(i)	
Process	1	1"	Nozzle	SA312, TP304	S80	INHERENT	UW16.1(d)	
Process	1	1 1/2"	Cpg	SA105	3k	INHERENT	UW16.1(d)	
Process	2	1 1/2"	Nozzle	SA312, TP304	S80	INHERENT	UW16.1(i)	

11. Supports: Skirt NO Lugs (2) Legs (0) Other 2 Saddles/Pads Attached Welded to Shell  
(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: ITEM #10 MANWAY RING L.A. BOILER WORKS, INC LABW PART# 18742  
(Name of part, item number, Mfr's. name and identifying stamp)

2.5-TON CO2 STORAGE VESSEL FOR NON-CORROSIVE SERVICE. \*\*\* Normalized Material.

IMPACT EXEMPT PER UCS-66(a,b)& UHA-51(d).

JOINT EFF. PER UW-11(a)(5)(b).

D.O.T. SPEC MC331.

DRAWING NO H42-2.5D-2 R#12 WITH ENG CHANGE 022 FOR HEADS.

<b>CERTIFICATE OF SHOP COMPLIANCE</b>	
We certify that the statements made in this report are correct and that all the 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>16868</u> expires <u>8/10</u> , 19 <u>99</u> .	
Date <u>10-31-97</u>	Co. name <u>TOMCO EQUIPMENT CO. PVF DEPT.</u> Signed <u>[Signature]</u>
<b>CERTIFICATE OF SHOP INSPECTION</b>	
Vessel constructed by <u>TOMCO EQUIPMENT CO. PVF DEPT.</u> at <u>SNELLVILLE, GA</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>Georgia</u> and employed by <u>Commercial Union Insurance Co. of Boston, MA.</u>	
have inspected the component described in this Manufacturer's Data Report on <u>10-31</u> , 19 <u>97</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>10-31-97</u>	Signed <u>[Signature]</u> Commissions <u>NB 11257 B" CA 360</u>
<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

V-5973

1. Manufactured and certified by Los Angeles Boiler Works Inc. 707 North 20th Street Blackwell, OK 74631  
 (Name and address of Manufacturer)
2. Manufactured for Stock  
 (Name and address of Purchaser)
3. Location of installation Unknown  
 (Name and address of Purchaser)
4. Type: Manhole Ring (Name and address) 18720 thru 18759  
 (Description of vessel part (shell, two-piece head, tube bundle)) (Mfg's serial No.)  
B-2777 (CRN) 1997  
 (Nat'l. Bd. No.) (Drawing No.) (Drawing prepared by) (Year built)
5. ASME Code, Section VIII, Div. 1 1995 Ed. 1995 Add.  
 Edition and Addenda (date) Code Case No. Special Service per UG-120(d)
6. Shell (a) No. of course(s): 1 (b) Overall length (ft & in.): 0' 6"

Course(s) No.	Diameter, in.		Length (ft & in.)	Material		Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
	Full	Spot, None		Spec./Grade or Type	Nom.	Corr.	Type	Full	Spot, None	Eff.	Type	Full	Spot, None	Eff.	Temp.
1	17"		0'6"	SA516-70N	1 1/2	-	DB	Full	100	N/A	--	--	1150°	90 Min	

7. Heads: (a) N/A (b) N/A  
 (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp
- | Location (Top, Bottom, Ends) | Thickness |       | Radius |         | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Pressure |         | Category A |      |            |      |
|------------------------------|-----------|-------|--------|---------|------------------|--------------------|----------------------|---------------|------------------|---------|------------|------|------------|------|
|                              | Min.      | Corr. | Crown  | Knuckle |                  |                    |                      |               | Convex           | Concave | Type       | Full | Spot, None | Eff. |
| (a)                          |           |       |        |         |                  |                    |                      |               |                  |         |            |      |            |      |
| (b)                          |           |       |        |         |                  |                    |                      |               |                  |         |            |      |            |      |
- If removable, bolts used (describe other fastening) --

8. MAWP -- -- psi at max. temp. -- -- (Mat'l Spec. No., Grade, Size, No.)  
 (internal) (external) (internal) (external) °F Min. design metal temp. -- °F at -- psi.
9. Impact test At -50°F

10. Hydro., pneu., or comb. test press. -- Proof test --  
 (Indicate yes or no and the component(s) impact tested)
11. Nozzles, inspection, and safety valve openings:

Purpose (inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	

12. Supports: Skirt -- Lugs -- Legs -- Others -- Attached --  
 (Yes or No) (No.) (No.) (Describe) (Where and How)

13. Remarks No design functions performed. Certified to material & workmanship only. The weld procedure used on items has been qualified in the PWHT condition. Hydro Test performed. Heat # Bethlehem 821T05050 C32419 SA516-70 Normalized.

**CERTIFICATE OF SHOP/FIELD COMPLIANCE**

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 721 Expires March 30 19 98  
 Date 3/14/97 Name Los Angeles Boiler Works Inc. Signed Randall H. Schall  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of OK and employed by Delta Lloyds Insurance Company of Houston, TX have inspected the pressure vessel part described in this Manufacturer's Data Report on 3-17, 19 97, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part 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 part 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 3-17-97 Signed D. M. B. [Signature] Commissions OK 679  
 (Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)