

# 87894

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**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 Vessel Technology Division of Sure Alloy Steel Corp., VTEC, FM 2011 South, Longview, TX 75603  
(Name and address of manufacturer)

2. Manufactured for S & B ENGINEERS & CONSTRUCTORS, LTD, 3535 SAGE ROAD, HOUSTON, TX 77056  
(Name and address of purchaser)

3. Location of installation TEXAS EASTMAN, HIGHWAY 149 & KODAK BLVD, LONGVIEW, TX 75603  
(Name and address)

4. Type Vertical 98-1120 N/A 98-1120 R3 544 1999  
(Horiz. or vert. tank) (Mfg'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  
Year

to 1996 N/A NONE  
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: SA312-304/304L EFW 1/4 0 18" OD 4'-8"  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: TYPE 1 SPOT .85 N/A N/A TYPE 1 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) Mat'l. SA182-F304/304L (b) Mat'l. SA240-304/304L  
(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)	TOP	1.5625	CL150	RF	SLIP-ON	FLG.	.....	.....	25"	.....
(b)	BOTTOM	.25	0	.....	.....	2:1	.....	.....	.....	CONV/CONC

If removable, bolts used (describe other fastenings) SEE U4 FORM  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 100 psi at max. temp. 400 ° F  
Min. design metal temp. -20 ° F at 100 psi. Hydro., ~~other~~, or ~~other~~ test pressure 150 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
LIQUID INLET	1	4" CL150	SO	SA182-304/304L	.237	.....	WELDED	.....
SPARE	1	3" CL150	SO	SA182-304/304L	.216	.....	WELDED	.....
LIQ. OUTLET	1	3" CL150	SO	SA182-304/304L	.216	.....	WELDED	.....
VENT	1	1.5" CL150	SO	SA182-304/304L	.145	.....	WELDED	.....

11. Supports: Skirt YES Lugs N/A Legs N/A Other NONE Attached WELDED TO HEAD  
(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 this report:  
N/A  
(Name of part, item number, Mfg's name and identifying stamp)

EXTERNAL PRESSURE 15 PSI @ 400 DEG. F  
IMPACTS EXEMPT PER UHA 51 (d) (1)  
ITEM NUMBER 123T-270, SEE ATTACHED U4 FORM

**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. 27,345 expires 03/20 02.  
Date July 24, 99 Co. Name Vessel Technology Division of Sure Alloy Steel Corp., VTEC Signed JJ Breslow  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Vessel Technology Division of Sure Alloy Steel Corp., VTEC at Longview, TX 75603  
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by HARTFORD STEAM BOILER I & I CO. HARTFORD, CT have inspected the component described in this Manufacturer's Data Report on 7-24-99, 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 7-24-99 Signed [Signature] Commissions NB104918 TX/346  
(Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)

4. Type:	Vertical	RECOVERED CATALYST TANK		98-1120
	(Horiz., vert., or sphere)	(Tank separator, heat exh., etc)		(Mfg's serial No.)
	N/A	98-1120 R3	544	1999
	(CRN)	(Drawing No.)	(Nat'l. Bd. No.)	(Year built)

Data Report Item Number		Remarks								
10	PRESSURE GAUGE	1	1 1/2"	CL150	SO	SA182-304/304L	.145	...	WELDED	...
	RECYCLE	1	1 1/2"	CL150	SO	SA182-304/304L	.145	...	WELDED	...
	TEMP. INSTRUMENT	1	1 1/2"	CL150	SO	SA182-304/304L	.145	...	WELDED	...
	SPARE	2	3"	CL150	SO	SA182-304/304L	.216	...	WELDED	...
	SIGHT GLASS	8	3"	CL150	STUD-OUT	SA182-304/304L	2.25	...	WELDED	...
8	TOP BODY FLANGE SHIPPED WITH A 18" CL 150 RF BLIND FLANGE SA182-304/304L , (16) 1 1/8" DIA. STUDS/NUTS SA193-B7/SA194-2H, THE VENT & PRESSURE GAUGE LISTED ABOVE ARE LOCATED IN THE BLIND FLANGE.									

Certificate of Authorization:	Type	U	No.	27,345	Expires	03/20	02
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Date July 24, 99 Name Vessel Technology Division of Sure Alloy Steel Corp., VTEC Signed gg Bredlove  
(Manufacturer) (Representative)

Date 7-24-99 Name [Signature] Commission NB104916 TX1346  
(Authorized Person) (Nat'l Board (incl. endorsements) State, Province and No.)