

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

# 110377

1. Manufactured by CONTINENTAL BOILER WORKS, INC. ST. LOUIS, MISSOURI  
2. Manufactured for CLARK OIL & REFINING CORP. BLUE ISLAND, ILLINOIS  
3. Location of Installation BLUE ISLAND, ILLINOIS  
4. Type VERTICAL H-2519 6353-F 1802 (Year Built) 1979  
(Horiz. or vert. tank) (Mfg's Serial No.) (CRN) (Drawing No.) (Nat'l Brd 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 SUMMER '78 and Code Case Nos. \_\_\_\_\_  
(Year) (Date)

Special Service per UG-120(d) \_\_\_\_\_

Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: \_\_\_\_\_

6. Shell: Matl. SA240-T304 Nom. 1/4 in. Allow. \_\_\_\_\_ in. Diam. 48 in. Lgth. 6 ft 8 in.  
(Spec. No., Grade) Thk. in. (CRN) (Drawing No.) (Nat'l Brd No.)  
7. Seams: Long WELDED DBL BUTT R.T. SPOT Efficiency 85 % H.T. Temp. \_\_\_\_\_ F Time \_\_\_\_\_ hr  
(Welded, Dbl, Sngl, Lap, Butt) (Spot or Full)  
Girth WELDED, DBL BUTT R.T. SPOT No. of Courses 1  
(Welded, Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)  
8. Heads: (a) Material SA240-T304 (b) Material \_\_\_\_\_  
(Spec. No., Grade) (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) <u>ENDS</u>	<u>1/4"</u>		<u>42"</u>	<u>3"</u>					<u>CONCAVE</u>
(b) _____									

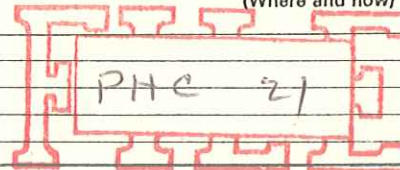
If removable, bolts used (describe other fastenings) \_\_\_\_\_

9. Constructed for max. allowable working pressure 15 psi at max. temp. 1000 F. Min. temp. (when less than -20 F) \_\_\_\_\_ F. Hydrostatic, pneumatic, or combination test pressure 22.5 psi.  
10. Safety Valve Outlets: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>NANHOLE</u>	<u>1</u>	<u>24"</u>	<u>150# S/O FLG</u>	<u>SA240-T304</u>	<u>.25</u>		<u>WELDED</u>	<u>SHELL</u>
<u>INLET/OUTLET</u>	<u>2</u>	<u>18"</u>	<u>150# S/O FLG</u>	<u>SA240-T304</u>	<u>.25</u>		<u>WELDED</u>	<u>MISC.</u>
<u>DRAIN</u>	<u>1</u>	<u>2"</u>	<u>150# S/O FLG</u>	<u>SA312-T304</u>	<u>.154</u>		<u>WELDED</u>	<u>HEAD</u>
<u>OVERFLOW</u>	<u>1</u>	<u>1"</u>	<u>150# S/O FLG</u>	<u>SA312-T304</u>	<u>.133</u>		<u>WELDED</u>	<u>SHELL</u>

12. Supports: Skirt NO Lugs \_\_\_\_\_ Legs 4 Other \_\_\_\_\_ Attached WELDED - BOTTOM  
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: DEMISTER KNOCK-OUT POT



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 AUG 31 1979 Signed CONTINENTAL BOILER WORKS, INC. by R. J. STINSON (Representative)

"U" Certificate of Authorization No. 27 expires APRIL 30, 1981

CERTIFICATE OF SHOP INSPECTION

Vessel made by CONTINENTAL BOILER WORKS, INC. at ST. LOUIS, MISSOURI  
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 \_\_\_\_\_ and employed by \_\_\_\_\_ have inspected the pressure vessel described in this Manufacturers' Data Report on 8-31 1979, 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 Orin Harding Date 8-31-79 Commissions NB 6163  
(Inspector) (Nat'l Board, State, Province and No.)