

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 Markle Manufacturing Company, Amarillo, Texas.
 2. Manufactured for The Ortloff Corporation, Midland, Texas
 3. Location of installation La Grange, Texas.
 4. Type Vertical P-6040 N.A. 80-49-7546-01:02 494 (Year Built) 1981
 (Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l Bld 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
1980 and Addenda to June 30, 1980 and Code Case Nos. N.A.
 (Year) (Date)

Special Service per UG-120(d) N.A.

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 Nom. Thk. 2-9/16 in. Corr. Allow. 1/16 in. Diam. 72 I.D. in. Lgth. 8 ft 0 in.
 (Spec. No., Grade)
 7. Seams: Long Double Butt R.T. Full Efficiency 100 % H.T. Temp. 1140 F Time 3 hr
 (Welded, Dbl, Sngl, Lap, Butt) (Spot or Full)
 Girth Double Butt R.T. Full No. of Courses 1
 (Welded, Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)
 8. Heads: (a) Material SA-516-70 (b) Material SA-516-70
 (Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Flat Diam.	Side to Pressure (Concave or Convex)
(a) Top	<u>2.5"</u>	<u>.0625</u>				<u>2:1</u>				<u>Concave</u>
(b) Bottom	<u>2.5"</u>	<u>.0625</u>				<u>2:1</u>				<u>Concave</u>

If removable, bolts used (describe other fastenings):

9. Constructed for max. allowable working pressure 1164 (Material, Spec. No., Gr., Size, No.)
 less than -20 F F. Min. temp. (when
 F. Hydrostatic, pneumatic or combination test pressure 1791 psi at max. temp. 200 psi.

10. Safety Valve Outlets: Number None Size Location See UG 125 Note 34

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Manway</u>	<u>1</u>	<u>18"</u>	<u>Pipe</u>	<u>SA-106-B</u>	<u>.937</u>	<u>SA-516-70</u>	<u>Welded</u>	<u>in shell</u>
<u>Inlet</u>	<u>1</u>	<u>16"</u>	<u>"</u>	<u>"</u>	<u>.843</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>Outlet</u>	<u>1</u>	<u>16"</u>	<u>"</u>	<u>"</u>	<u>.843</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>Drain</u>	<u>1</u>	<u>2"</u>	<u>"</u>	<u>"</u>	<u>.343</u>	<u>None</u>	<u>"</u>	<u>"</u>
<u>L.C.</u>	<u>2</u>	<u>1-1/2"</u>	<u>Cplg.</u>	<u>SA-105</u>	<u>6,000#</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>L.S.</u>	<u>2</u>	<u>1"</u>	<u>"</u>	<u>"</u>	<u>6,000#</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>L.G.</u>	<u>2</u>	<u>3/4"</u>	<u>"</u>	<u>"</u>	<u>6,000#</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>T.I.</u>	<u>1</u>	<u>1"</u>	<u>"</u>	<u>"</u>	<u>6,000#</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>P.I.</u>	<u>1</u>	<u>3/4"</u>	<u>"</u>	<u>"</u>	<u>6,000#</u>	<u>"</u>	<u>"</u>	<u>"</u>

12. Supports: Skirt Yes Lugs Yes Legs Yes Other Yes Attached Welded to bottom head.
 (Yes or No) (No) (No) (Describe) (Where and how)

13. Remarks: 72" I.D. x 8'-0" Seam-Seam Treated Gas Scrubber, Item 32-502 per Markle
Mfg. Co. Dwg. No. 80-49-7546-01:02.

Vessel tested in vertical 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 5-7-81 Signed Markle Manufacturing Co. by R.C. Mincy
 (Manufacturer) (Representative) Asst. Gen. Mgr.

"U" Certificate of Authorization No. 11,240 expires August 14, 19 81

CERTIFICATE OF SHOP INSPECTION

Vessel made by Markle Manufacturing Co. at Amarillo, Texas

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 Texas and employed by H.S.B.I.&I. have inspected the pressure vessel

described in this Manufacturers' Data Report on May 7, 19 81, 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 [Signature] Date 5-7-81 Commissions N. B. 8429
 (Inspector) (Nat'l Board, State, Province and No.)