

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 **E-4403-2R**

1. Manufactured and certified by JOSEPH OAT CORP 2500 BROADWAY CAMDEN N.J.
(Name and address of manufacturer)

2. Manufactured for CAPE IND. INC. WILMINGTON N.C.
(Name and address of purchaser)

3. Location of installation SAME
(Name and address)

4. Type HORIZ. 8275-3 — 9825 2802 1991
(Horiz. or vert., tank) (Mfg's serial No.) (CRN) (Drawing) (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

Addenda (date)

Code Case No.

Special service per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: SA-516-70 .625 .0625 48.75 240"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) (Length Overall) (ft & in.)

7. Seams: DBL. SPOT 85 —
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)

— DBL SPOT 2
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. — (Spec. No., Grade) (b) Matl. — (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)	—	—	—	—	—	—	—	—	—	—
(b)	—	—	—	—	—	—	—	—	—	—

If removable, bolts used (describe other fastenings) —

(Matl., Spec. No., Gr., Size, No.)

9. Type of Jacket SEE REMARKS Proof Test —

10. Jacket Closure — If bar, give dimensions — If bolted, describe or sketch —
(Describe as ogee & weld, bar, etc.)

11. MAWP 300 psi at max. temp. 700 °F. Min. design metal temp. 60 °F at 300 psi
Hydro., pneu., or comb. test press. 475 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SA-240-316 48.75 2 1/2 NONE - TUBE 1/16 - SHELL WELDED
Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Welded, Bolted)

— — — — — —
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach.

13. Tubes: SA-213-316 1" 14 1093 STRAIGHT
Matl. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (in. or Gauge) Number Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: SA-240-316 .250 NONE 49.5" 15.875 - REAR
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.)

15. Seams: DBL SPOT 85 —
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)

— SNGL. NONE 1 - EACH END
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

16. Heads: (a) Matl. SA-105 (Spec. No., Grade) (b) Matl. SA-105 (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)	<u>END</u>	<u>3.25</u>	<u>NONE</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>55.125</u>	<u>FLAT</u>
(b)	<u>END</u>	<u>3.25</u>	<u>NONE</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>55.125</u>	<u>FLAT</u>

If removable, bolts used (describe other fastenings) SA-193-B7 3/4 92 SA-194-2H 3/4 184 EACH END
(Matl., Spec. No., Gr., Size, No.)

17. MAWP 100 psi at max. temp. 650 °F. Min. design metal temp. 15 °F at 100 psi.
Hydro., pneu., or comb. test press. 170 psi.

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
IN	1	10"	PIPE/FLG	SA-106B/SA-105	.500	SA-516-70	WELDED	SHELL
OUT	1	10"	" "	" "	.844	"	"	"
IN/OUT	2	10"	PIPE/FLG	SA-240/SA-105 316	.375	SELF	"	CHANNEL
VENT	2	3/4	CPLG.	SA-105	3000"	SELF	"	SHELL
DRAIN	1	1	"	"	"	"	"	"
IN	2	1	PIPE/FLG	SA-106B/SA-105	.250	"	"	JACKET
DRAIN	2	3/4	CPLG.	SA-105	3000"	"	"	JACKET
VENT/DRAIN	2	3/4	"	SA-182F 316	3000"	"	"	CHANNEL

19. Supports: Skirt NO Lugs - Legs - Other SADDLE Attached WELDED TO SHELL
 (Yes or no) (No.) (No.) (Describe) (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NONE
 (Name of part, item number, mfr's. name and identifying stamp)

VESSEL IS A CRUDE STILL REBOILER UG 46.4
EACH CHANNEL COVER HAS A 2:1 ELIP HEAD (48" OD 3.02 MIN THK SA-516-70)
WELDED TO IT. THIS IS A STEAM JACKET - MAWP/MOMT - 150 PSI / -20 @ 150 PSI
DESIGN TEMP - 400°F - HYDRO TEST PRESSURE 225 PSI

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. 184 expires 12/12, 19 91
 Date 4-2-91 Co. name JOSEPH DAT CORP. Signed [Signature]
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by JOSEPH DAT CORP. at 2500 BROADWAY CAMDEN N.J.

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 PA and employed by H.S.B.I. + I.Co.

of HARTFORD, CONN. have inspected the pressure vessel described in this Manufacturer's Data Report on APRIL 2, 19 91, 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 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 APRIL 2, 1991 Signed [Signature] Commissions NB 10517 PA 2560
 (Authorized Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 ____
 Date _____ Co. name _____ Signed _____
 (Assembler that certified and constructed field assembly) (By Representative)

CERTIFICATE OF FIELD ASSEMBLY 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 _____ and employed by _____

of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. 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 _____ Signed _____ Commissions _____
 (Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov., and No.)