As required by the Provisions of the ASME Code Rules, Section VIII, Division I	
Manufactured by Joseph Oat & Sons, Inc. Camden, New Jersey (Name and address of Manufacturer)	
2. Manufactured for Hercules, Inc. Wilmington, North Carolina 1043	86
3. Type Horiz. Kind Heat Exch. Vessel No. (2080-1) () Natl. Bd. No. 583 Yr. Built 1972 (Mfrs. Serial) (State & State No.	
ems 4-9 incl. to be completed for single wall vessels (such as air tanks); jackets of jacketed vessels; or shells of heat exchangers. Nominal 2/9 Corrosion / 1611	
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)	
Welded, Dbl., Single, Lap, Butt) (Yes or No) No. Spot Sectioned No. Efficiency 85 % (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot of Complete) (Yes or No)	re-
Girth DBW H.T. NO R.T. Spot Sectioned No No. of Courses 2 form. HEADS (a) Material T.S. (b) Material Conical Hemispherical Flat Side to Press (Convex or Conc.) (Top, bottom, ends) Thickness Radius	
(Top, bottom, ends) Thickness Radius Radius Ratio Apex Angle Radius Diameter (Convex or Conc.	ave)
If removable, bolts used (Material Spec No. T.S. Size Number) Other fastening	
If removable, bolts used(Material, Spec. No., T.S., Size, Number) Other fastening(Describe or Attach Sketch) (Other fastening(Describe or Attach Sketch)	<i>y</i>
72 Joseph Ont & Sons, Inc. Page 1	1)
Constructed for max. allowable working press 1 100 psi at max. temp. 650 °F. less than -20°) Hydrostatic Press 150	psi.
ems 10 and 11 to be completed for tube sections.	
(Kind & Spec. No.) (Subject to Pressure)	d olted)
Floating. (Material 1994, 1994 1995) SA249 TUBES: Material 7304 0.D. 3/4 19 In. Thickness 16 29 10 10 10 10 10 10 10 10 10 10 10 10 10	235 25
SA249 (Kind & Spec. No.)	
. TUBES: Material T304 O.D. 3/4 In. Thickness 16 Gage Number 799 Type Straight (Straight or U)	
ems 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. (Straight or U)	
2. SHELL Material SA240T204 TS 75000 Nominal Corrosion 2 1	144—
2. SHELL Material SA240T304 T.S. 75000 Thickness 1/4 In. Allowance In. Diam. 2 Ft.6 In. Length 2 Ft. 3. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficience 25 South Section Sectioned No Efficience 25 South Sectioned No Efficience 25 South Sectioned No Effic	<u> </u>
3. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 % [If riveted scribe serible s	unis
Girth Single H.T. No R.T. None Sectioned No No. of courses 2 form.	
4. HEADS (a) Material SA285GRC T.S. 55000 (b) Material Same T.S. (c) Material T.S.	
Location When Saray 17304 Crown Radius Ratio Apex Angle Radius Diameter (Convex or Control of State of Convex or Control of Control of Control of Control of Control of Convex or Control of	
b) Channel	
c) Floating	
If removable, bolts used (a) SA193 B7 32 3/4 10 UNC (b) Same	
(c)Other fastening	
(Describe or Attach Sketch)	
6. Constructed for max. allowable working press? 50 psi at max. temp. 300 °F. less than -20°) F. Computation Press 90.6	psi.
ems below to be completed for all vessels where applicable.	
. SAFETY VALVE OUTLETS: Number Size Location In Piping	
NOZZLES Purpose (Inlet, Reinforcement How	
A Material Attached	
A 1 24" Plt. SA240T304 3/8" None Welder	
B-C 2 6" Pipe SA312T304 SCH40 "	
B-C 2 6" Pipe SA312T304 SCH40 "	
B-C 2 6" Pipe SA312T304 SCH40 "	
B-C 2 6" Pipe SA312T304 SCH40 " " " SA53GRB STD. " " "	
B-C 2 6" Pipe SA312T304 SCH40 "	

ey
104389
Yr. Built 1972
ls of heat exchangers.
Ft. 6 In. Length 12Ft. 0 In. 1885 % S-3123 % If riveted describe seams fully on reverse side of
2 form.
T.S. Flat Side to Pressure lameter (Convex or Concave)
etch)
Vert.) Diam. (Nominal)
atic Test Wiener Press 150 psi.
Attachment Welded (Welded, Bolted)
· Attachment
Type Straight (Straight or U)
6_In. Length 2 Ft. 0 In.
If riveted de-
verse side of
es form.
lat Side to Pressure meter (Convex or Concave)
3/8"
-
ibe or Attach Sketch)
Test Press 90.6 psi.
— In Piping —
orcement How sterial Attached
one Welded
<u> </u>
- Proj. 02603
when applicable.

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	Wat the description of the Manager Manager Went was the Manager Men
	Manufacture Hercules, Inc. Wilmington, North Car
SPECTION Manholes No	Size Lousies
PENINGS: Handholes, No.	Size Location. Size 1/2" E 1/2" Location Exp. Joint & Nozzles D&E
Threaded, No. 4	Size 3/4" & 1/2" Location EXP. JOINT & NOZZIES DE
	Lugs Legs Other Support Attached Shell V (Where & Ho
	Slurry Tank Flash Condenser constructed to Oat Dwg.
5218-2 and t	he 1971 ASME Code Section VIII.
	Faul mont No. E-10E1-2
	Equipment No. E-4051-3
(Brief description of purpose	e of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)
	le in this report are correct and that all details of design, material, construction, and workmanship
we certify that the statements made	ode for Pressure Vessels, Section VIII, Division I.
into vesser contour to the ASME Co	ode for Pressure vessers, Section vill, Division 1.
1972	Signed Joseph Oat & Sons, Inc. By Shalle Colores Cen
	(Manufacturer)
Certificate of Authorization Expire	es#18412/31/73
150	
	· 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1-1/16"	CERTIFICATE OF SHOP INSPECTION ?
VESSEL MADE BYJOSED	oh Oat & Sons, Inc. at Camden, New Jersey
I, the undersigned, holding a	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or
, the State or Province No.	J. and employed by Royal Globe Indemnity Company of
New York, N	No. You have inspected the pressure vessel described in this manufacturer's
data report on	1972, and state that to the best of my knowledge and belief, the manufac-
tuter has constitucted this pres	ssure vesser in accordance with the applicable sections of the Asme botter and Pressure vesser
	and a gradual college and the gradual SOCIAL and Gillian SAS
By signing this certificate in	neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the his manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable
	al injury or property damage or a loss of any kind arising from or connected with this inspection.
lest,	72
Date	Single
1 2 /	7/ 0.mc2 1 1 1 1 1 1 2 1 0 20 20 20 20 20 20 20 20 20 20 20 20 2
Inspectors Sign	Commissions
Inspectors sign	nature Nat'l Board, State, or Province and No.
	The second secon
	DEDMINICAME OF FIELD ACCEMBLY INCRECTION
	CERTIFICATE OF FIELD ASSEMBLY INSPECTION
. I, the undersigned, holding a	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or
the State or Province	and employed byof
3.00	have compared the statements in this manufacturer's data report
with the described pressure ves	ssel and state that parts referred to as data items,
not included in the certificate	e of shop inspection have been inspected by me and that to the best of my knowledge and belief ted and assembled this pressure vessel in accordance with the applicable sections of the ASME
Boiler and Pressure Vessel Co	ode. The described vessel was inspected and subjected to a hydrostatic test of psi.
Pur pleates this costificate	neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
	this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable
pressure vessel described in the	al injury or property damage or a loss of eny kind arising from or connected with this inspection.
pressure vessel described in the	at injuly of property dimage of a root of will and around from or commonted with the company
pressure vessel described in the in any manner for any persons	2 19 State Company Com
pressure vessel described in the	
pressure vessel described in the in any manner for any persons	Commissions
pressure vessel described in the in any manner for any persons	

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