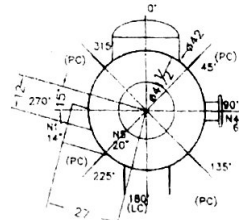
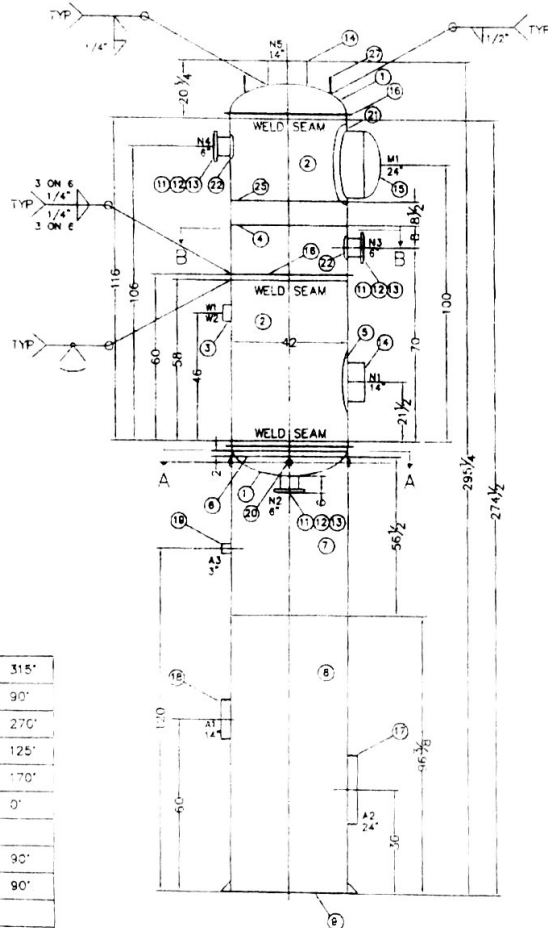


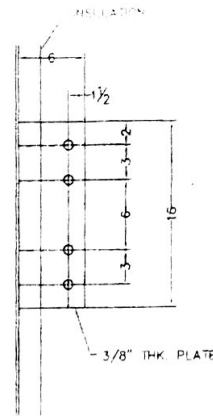
SECTION A-A



SECTION B-B

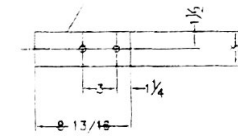


NOZZ	SERVICE	SIZE	RATING	TYPE	REMARKS	DEGREE
A1	FIRE PROTECTION	3"	ATMG	PLAIN		315°
A2	SKIRT ACCESS	24"	ATMG	PLAIN		90°
N1	SKIRT PENETRATION FOR N2	14"	ATMG	PLAIN		270°
N4	SIGHTGLASS 4" VIEW	NA		WP		125°
N5	SIGHTGLASS 4" VIEW	NA		WP		170°
N7	MANWAY W/RINGE	24"				0°
N8	VAPOR INLET	14"		BW	TO TW-4104	
N9	UPPER CLIP	6"	150#	LJ	FR TP-4105	90°
N3	LOWER CLIP	6"	150#	LJ	FR TP-4105	90°
N2	LIQUID RETURN	6"	150#	LJ	TO PC-4104	
N7	VAPOR INLET	14"		BW	FR ET-4104	
NOZZ	SERVICE	SIZE	RATING	TYPE	REMARKS	DEGREE

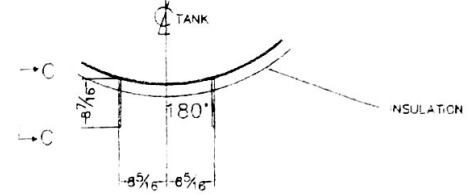


PLATFORM SUPPORT CLIP
7 PCS REQ'D (24)

CLIP #	ELEVATION	ANGLE
PC-7	?"	?"
PC-6	?"	?"
PC-5	?"	?"
PC-4	?"	?"
PC-3	?"	?"
PC-2	?"	?"
PC-1	?"	?"
CLIP #	ELEVATION	ANGLE



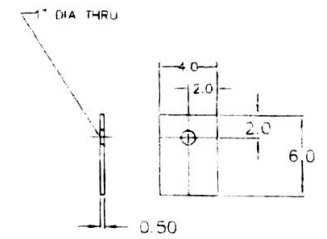
SECTION C-C



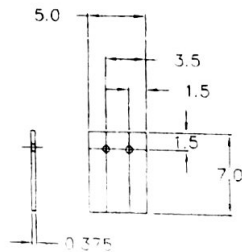
LADDER SUPPORT CLIP
4 SETS REQ'D (23)

CLIP #	ELEVATION	ANGLE
LC-4	?"	?"
LC-3	?"	?"
LC-2	?"	?"
LC-1	?"	?"
CLIP #	ELEVATION	ANGLE

DESIGN PRESS	75/175 (psig)
DESIGN TEMP	250 (F)
OPERATING PRESS	12/26 (psig)
OPERATING TEMP	203 (F)
MMT	-20 DEG. F
CORROSION ALLOWANCE	NONE
HYDRAULIC TEST PRESSURE	97.5 PS



(27) LIFT LUG



(26) FIRE PROTECTION CLIP

CLIP #	ELEVATION	ANGLE
FP-8	244-1/2"	315°
FP-7	244-1/2"	225°
FP-6	244-1/2"	135°
FP-5	244-1/2"	45°
FP-4	272-1/2"	315°
FP-3	272-1/2"	225°
FP-2	272-1/2"	135°
FP-1	272-1/2"	45°

NOTES.

- ALL BOLT HOLES TO STRADDLE NATURAL CENTERLINES UNLESS NOTED OTHERWISE.
- ALL STAINLESS STEEL TO BE 1 GRADE AND CERTIFIED.
- FOR ALL INTERIOR AND EXTERIOR SURFACES SEE THERMAL KINETICS CLEANING AND BLASTING SPEC. (E=1.0 CLASS)
- ALL TOLERANCES PER ASME PRESSURE VESSEL CODE LATEST EDITION, SECTION VII, DIVISION 1.
- WIND 80 MPH, EXP. C WF = 1.0
- ALL FILLET WELDS 1/16" UNLESS NOTED.

AS BUILT DRAWING

(PC) PLATFORM CLIP
(LC) LADDER CLIP
(FP) FIRE PROTECTION CLIP

BOTA WELDING	
Customer: THERMAL KINETICS	
Job: TP-4104 FABRICATION	
Drawn By: HUE	Checked By: HUE
Date: 11-6-08	Scale: Plot Scale
Customer Order Number: 6318-MO-4106	

200

20

2007

FD-404

X

X

X

X

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Bota Welding, LLC 402 - 56th Street, Niagara Falls, NY 14304
(Name and address of manufacturer)

2. Manufactured for: Thermal Kinetics Systems, LLC 667 Tiftt Street Buffalo, NT 14220
(Name and address of purchaser)

3. Location of installation: Unknown
(Name and address)

4. Type: Vertical TP-4104 6018-MQ-4106 108 2007
(Type or vertical tank) (Mfg's serial No.) (CRN) (Drawing No.) (Mat'l. 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, Div. 1
 to 2005 to 2004
(ASME Code) (Year)

6. Shell: SA-240 TP-304L .25 0 3' 5-1/2" 9' 7-7/8"
(Material No. Grade) (Wall Thickness (in.)) (Cor. Allow. (in.)) (Diam. (ft. in. & fr.)) (Length Overall (ft. in. & fr.))

7. Seams: Type 1 None 70 N/A Type 1 None 2
(Type - Method, DR, Land, Tap, Flare) (N.T. (Spot or Full)) (EP (in.)) (H.T. Temp. (°F)) (Time (hr)) (Cath. Welded DR, Eng. Tap, Flare) (N.T. (Spot, EP, or Full)) (No. of Courses)

8. Heads: (a) Mat'l SA-240 TP-304L (b) Mat'l SA-240 TP-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	.1875	0			2:1				Concave
(b) BOTTOM	.1875	0			2:1				Concave

If removable, bolts used (describe other fastenings)

9. MAWP 75 15 psi at max temp. 250 250 °F
(Part Spec. No., Stock Size, etc.) (external) (internal) (external)
 Min. design metal temp. -20 °F at 75 psi. Hydro. pneu., or comb. test press. 97.5 psi
(internal) (external)

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk	Reinforcement Material	How Attached	Location
Level	2	4"	stud-pad	SA-240 TP-304L	1.437	N/A	UW16.1©	shell
CIP & Return	3	6"	CI150Flg	SA-312 TP-304L	.2800	SA240typ304L	UW16.1©	shell-head
Inlet	1	14"	W.E	SA-312 TP-304L	.3750	SA240typ304L	UW16.1©	shell
Manway	1	24.687"	W.E	SA-240 TP-304L	.2500	SA240typ304L	UW16.1©	shell
Inlet	1	14"	W.E	SA-312 TP-304L	.3750	N/A	UW16.1©	head

11. Supports: Skirt YES Lugs NO Legs NO Others Attached Welded
(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 the report:
Manway (Model B324LC-10), Betts Industries ser # 9566-053
(Name of part, item number, Mfg. name and identifying number)

Impact Test Exempt Per UHA-51(d)&(g) UCS 66(c). Owner/User responsible for Pressure Relief Valve
(1)1/4"SA240 stiffener rings welded to shell(2) welded to heads.Cir seam 70% E. 2 Lifting Lugs welded to head for lifting empty ONLY.

CERTIFICATE OF SHOP/FIELD 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. 72,004 Expires 7-26-2009
 Date 2/14/07 Co Name Bota Welding, LLC Signed [Signature]
(Manufacturer) (Inspector)

CERTIFICATE OF SHOP/FIELD 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 New York and employed by Bota Welding, LLC at 402 - 56th Street, Niagara Falls, NY 14304
HSB CT
 have inspected the component described in this Manufacturer's Data Report on 2/14/07 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 2/14/07 Signed [Signature] Commissions NB-1103ANY5078
(Inspector) (National Board and endorsements) State, New York and No.