

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 Tift Street Buffalo, NY 14220
(Name and address of purchaser)

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

4. Type: Horizontal TP-4304 - 6018-MQ-4306 121 2007
(Horiz. or vert. tank) (Mfg's serial No.) (CRT) (Drawing No.) (Mkt. 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, Div. 1 2004
 Year
 to 2005
Address (City) Code Book No. Special Service per DG-120 (g)

6. Shell SA-240 TP-304L .188 0 3' 5-5/8" 5' 7-7/8"
Matl (Spec. No., Grade) Min. THK (in.) Cor. Allow (in.) Diam., L.D. (E. & S.) Length (overall) (E. & S.)

7. Seams: Type 1 None 70 N/A - Type 1 None 1
Long (Welded, Dbl. Singl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Ovrh (Welded, Dbl. Singl., Lap, Butt) R.T. (Spot or Full) No. of Courses

8. Heads: (a) Matl SA-240 TP-304L (b) Matl 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	.125	0			2:1				Concave
(b)	Bottom	.125	0			2:1				Concave

If removable, bolts used (describe other fastenings) Sheet Spec. No., Grade, Size, No.

9. MAWP 25 15 psi at max temp. 220 220 °F
(internal) (external)
 Min. design metal temp. -20 °F at 25 psi Hydro. pneu., or comb. test press. 32.5 psi
(internal) (external)

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl	Nom. Thk	Reinforcement Material	How Attached	Location
Spare	1	1.5"	C150Ftg	SA-312 TP-304L	.1450	N/A	UW16.1Ⓢ	shell
Level	2	3"	C150Ftg	SA-312 TP-304L	.2160	N/A	UW16.1Ⓢ	head-shell
Liquid	1	4"	C150Ftg	SA-312 TP-304L	.2370	N/A	UW16.1Ⓢ	shell
Outlet	1	6"	C150Ftg	SA-312 TP-304L	.2800	SA-240 TP-304L	UW16.1Ⓢ	shell
Sight Glass	1	6"	studpad	SA-240 TP-304L	2.000	N/A	UW16.1Ⓢ	shell

11. Supports: Skirt Lugs Legs Others 2 saddle Attached Welded
(No. or % of 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:

(Name of part, item number, Mfg's name and identifying stamp)
 Impact Test Exempt Per UHA-51(d) UCS 66(c), Owner/User responsible for Pressure Relief Valve
 Cr seam 70% E. 2 Lifting Lugs welded to heads.

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. 32004 Expires 7-26, 2009
 Date 1/2/07 Co. Name Bota Welding, LLC Signed [Signature]
(Manufacturer)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Bota Welding, LLC at 402 - 56th Street, Niagara Falls, NY 14304
 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 HSB CT
 have inspected the component described in this Manufacturer's Data Report on 1/2/07, 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 1/2/07 Signed [Signature] Commissions NB11103ANY5078

