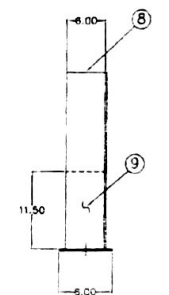
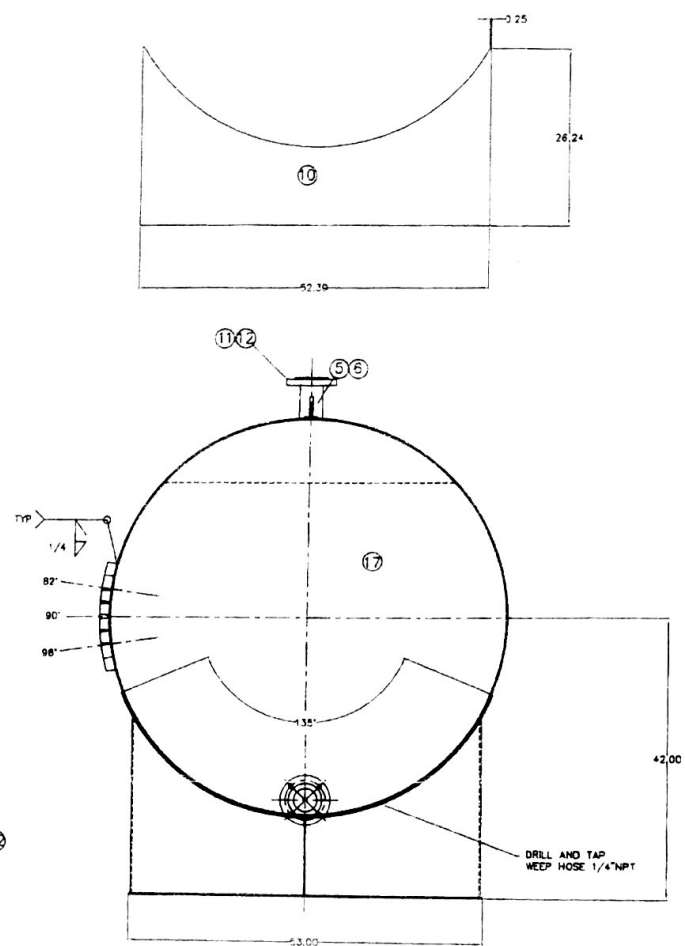
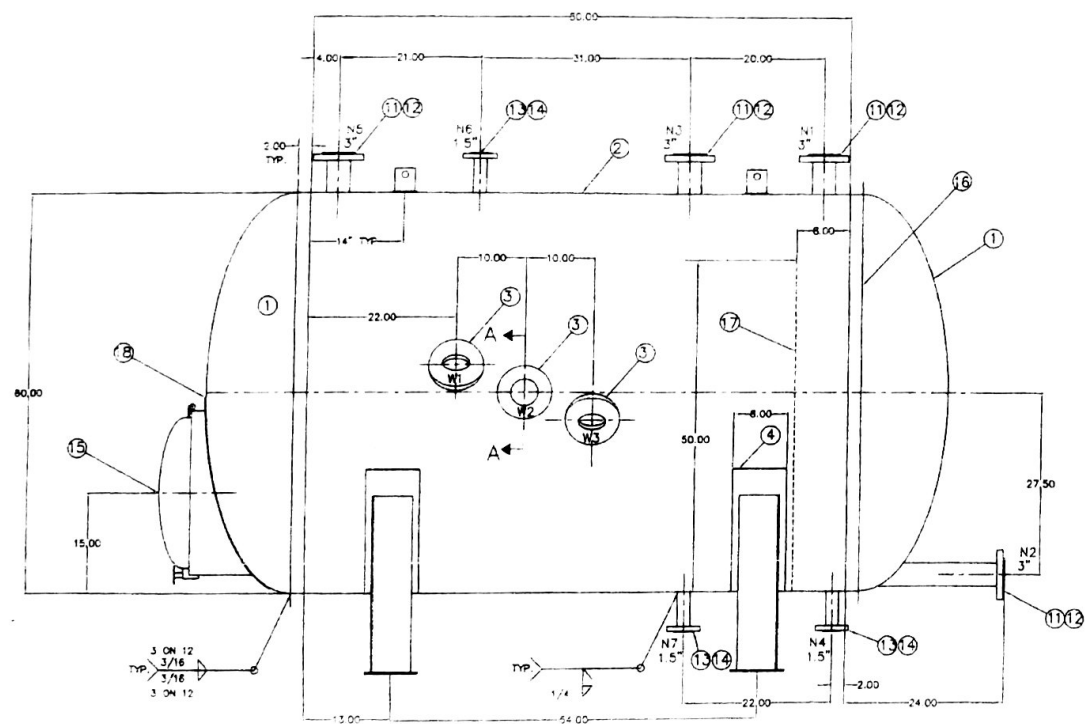
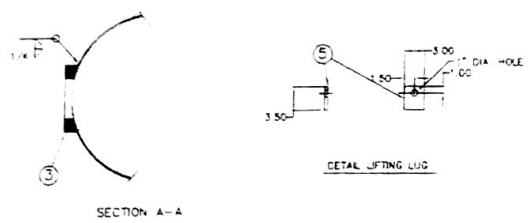


DESIGN DATA

CODE	ASME VIII DIV. 1 STAMPED AND REGISTERED
SPECIFIC GRAVITY / CONTENTS	0.98
DESIGN PRESS.	75 / 7.5 (psig)
DESIGN TEMP.	300 (°F)
OPERATING PRESS.	40 (psig)
OPERATING TEMP.	150 (°F)
MDMT.	-20 DEG. F
CORROSION ALLOWANCE	NONE
HYDRAULIC TEST PRESSURE	97.5 PSI



N3	SIGHT GLASS 4" VIEW			W/PAD	
N2	SIGHT GLASS 4" VIEW			W/PAD	
N1	SIGHT GLASS 4" VIEW			W/PAD	
N7	MANWAY	24"			
N7	OUTLET TO COVER	1.5"	150#	RFSC	TO PC-4108
N6	VENT TO COLUMN	1.5"	150#	RFSC	TO TW-4102
N5	LIQUID INLET	3"	150#	RFSC	FR EP-4108
N4	FUSEL OIL OUTLET	1.5"	150#	RFSC	TO PC-4109
N3	INTERFACE TRANS	3"	150#	RFSC	LT-024
N2	LEVEL TRANS. CONN.	3"	150#	RFSC	LT-026
N1	LEVEL TRANS. CONN.	3"	150#	RFSC	LT-026
N022	SERVICE	SIZE	RATING	TYPE	REMARKS

- NOTES
- 1) ALL BOLT HOLES TO STRADDLE NATURAL CENTERLINES UNLESS NOTED OTHERWISE.
 - 2) ALL STAINLESS STEEL TO BE L GRADE AND CERTIFIED.
 - 3) FOR ALL INTERIOR AND EXTERIOR SURFACES SEE THERMAL KINETICS CLEANING AND BLASTING SPEC. GF-1.B.C. CLASS 1.
 - 4) ALL TOLERANCES PER ASME PRESSURE VESSEL CODE (LATEST EDITION, SECTION VIII, DIVISION 1.)
 - 5) WIND BC MPH, EXP. C WF = 1.0
 - 6) ALL FILLET WELDS TO BE 3/16" UNLESS NOTED

AS BUILT DRAWING

BOTA WELDING

Customer: THERMAL KINETICS

EQUIPMENT TP-4108 FABRICATION

Customer Job Number: E018-MQ-4110

Sheet: 1 of 1

DESIGNED BY	DATE	DESCRIPTION	SIZE	Drawing Scale	Plot Scale
DRAWN BY: MJS	10/12/78				
CHECKED BY:					
INSTR. APPR:					
PIPED APPR:					

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
 2. Manufactured for: Thermal Kinetics Systems, LLC 667 Tift Street Buffalo, NY 14220
 3. Location of installation: Unknown
 4. Type: Horizontal TP-4108 6018-MQ-4110 112 2007
(Name and address of purchaser)
(Name and address of manufacturer)
(Name and address)
(Horiz. or vert. tank) (Mfg's serial no.) (CRN) (Drawing No.) (Next Ed. 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 2004
(ASME Code) Year

6. Shell SA-240 TP-304L .25 0 5' 11-1/2" 6' 7-7/8"
(Mat'l Spec. No. Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diag. L.D. (R & H) Length (overall) (R & H)
 7. Seams: Type 1 None 70 N/A Type 1 None 1
Long. (Welded, Dnt. Engr'd., Lap. Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Orth. (Welded, Dnt. Engr'd., Lap. Butt) R.T. (Spot or Full) 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) Right	.1875	0			2:1				Concave
(b) Left	.1875	0			2:1				Concave

If removable, bolts used (describe other fastenings)

9. MAWP 75 15 300 300 °F
(internal) (external) psl at max temp. (internal) (external)
 Min. design metal temp. -20 °F at 75 psl. Hydro. pneu., or comb. test press. 97.5 psl

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
Vent	3	2"	CI150Flg	SA-312 TP-304L	.1450	N/A	UW16.1⊙	shell
Level & Spare	4	3"	CI150Flg	SA-312 TP-304L	.2160	N/A	UW16.1⊙	head-shell
Manway	1	24.6875		SA-240 TP-316	.2500	SA-240 TP-304L	UW16.1⊙	head

11. Supports: Skirt Yes Lugs No Legs No Others 2 saddle Attached Welded
(Yes or No) (No) (No) (Name) (Name)

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 #10, Betts Industries Inc, ser# 9566-052
(Name of part, item number, Mfg's name and drawing, tag number)

Impact Test Exempt Per UHA-51(d) UCS 66(c), Owner/User responsible for Pressure Relief Valve
 Cir seam 70% E. 2 Lifting Lugs welded to shell.

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 1-28 2009
 Date 1/19/07 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 1/19/07 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 1/19/07 Signed [Signature] Commissions NB11103 ANY 5078
(National Board Inc. endorsement) State, Prov. and No.