

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

1-2

1. Manufactured and certified by HAPPY DIVISION, THERMA TECH., INC. 5500 E. INDEPENDENCE TULSA, OKLA. 74115
(Name and address of manufacturer)

2. Manufactured for Becon Construction Co. 5400 Westheimer Ct. Houston, Texas 77056
(Name and address of purchaser)

3. Location of installation Amoco/Anschutz Ranch East Nitrogen Plant Evanston, Wyoming
(Name and address)

4. Type HORIZ. 4425-1-1J --- 4425-1-20 2304 1986
(Horizontal or vertical tank) (Mfg. serial No.) (CRN) (Drawing No.) (Net. Bol. 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 1983
Year

to 12-31-84 ----- -----
Expiry Date Code Case No. Special Service per UG 120(d)

* 6. Wrapper: Matl. (Spec. No. Grade) Nom. Thk. (in.) Corr. Allow. (in.) Width Length (overall) (ft. & in.)

7. Seams Welded No --- Welded No ---
Long (Welded Dbl. Spig. Lap Butt) R.T. (Spot or Full) EN (%) H.T. Temp. (F) Time (hr) Girth (Welded Dbl. Spig. Lap Butt) R.T. (Spot Partial or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70 (b) Matl. SA-516-70
(Spec. No. Grade) (Spec. No. Grade)

Location (Top Bottom Ends)	Minimum Thickness	Corrosion Allowance	Max. Span	Flat Dimension	Safe to Pressure (Welds or Corrosion)
(a) T&P Sht.					Flat
(b) End Block					Flat

If removable, bolts used (describe other fastenings) -----
(Matl. Spec. No. Gr. Size No.)

9. MAWP 260 psi at max. temp. 200 °F
 Min temp. (when less than -20°F) ----- °F. Hydro. 390 psi

10. Nozzles, inspection and safety valve openings: **** All Noz. Pipe SA-106-B**

Purpose (Inlet Outlet Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
INLET	2	6" 150#	RF WN	SA-105	Sch 80	NONE	WELDED	HEADER
OUTLET	2	3" 150#	RF WN	SA-105	Sch XH	NONE	WELDED	HEADER
						NONE	WELDED	HEADER
						NONE	WELDED	HEADER

11. Supports: Skirt No Lugs 4 Legs --- Other --- Attached Welded to Tube Sheet
(Yes or no) (No) (No) (Describe) (Where and how)

12. Remarks: Box Header at Tube Ends 4 Row, 4 Pass, Tube Material: SA-214
Qty. 266 O.D. 1" x .075M x 48'-0" Long.

*See Attached U-4 Form

BECHTEL
157

Unit Service: Refrigerant Condenser Item No. G8-2901-9

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. <u>10,491</u> expires <u>May 11, 1986</u> .	
Date <u>3-14-86</u>	Co. name <u>HAPPY DIVISION, THERMA TECH., INC.</u> Signed <u>[Signature]</u>
CERTIFICATE OF SHOP INSPECTION	
Vessel constructed by <u>HAPPY DIVISION, THERMA TECHNOLOGY, INC. TULSA, OKLAHOMA</u>	
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 <u>OKLAHOMA</u> and employed by <u>COMMERCIAL UNION INSURANCE CO.</u>	
have inspected the component described in this Manufacturer's Data Report on <u>3-18</u> , 19 <u>86</u> , 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 <u>3-23-86</u> Signed <u>[Signature]</u> Commissions <u>71B-8741 OK-267</u>	<small>(Authorized Inspector) (National Board and State, Province and No.)</small>

2-2

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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(Name and address of manufacturer)

2. Manufactured for Becon Construction Co. 5400 Westheimer Ct. Houston, Texas 77056
(Name and address of purchaser)

3. Location of installation Amoco/Anschutz Ranch East Nitrogen Plant Evanston, Wyoming
(Name and address)

4. Type HORIZ. 4425-1-1J --- 4425-1-20 2304 1986
(Material Code) (Designation) (ASME Code) (Year Code)

Data Report
Item Number Remarks

LOCATION	Matl.	Nom. Thk.	Corr. All.	Width	Length
* WRAPPER					
INLET	SA-516-70	5/8"	.0625"	5 3/4"	14'-8 3/4"
RETURN	SA-516-70	1/2"	.0625"	3 3/4"	14'-8 3/4"

T&P Sht.	Min. Thk.	Corr. All.	Max. Span	Flat Dim.	Side To Press
INLET	1"	.0625"	8 7/8"	10" x 14'-8 3/4"	Flat
RETURN	1"	.0625"	9 1/8"	10" x 14'-8 3/4"	Flat

END BLOCK	Min. Thk.	Corr. All.	Max. Span	Flat Dim.	Side To Press
INLET	5/8"	.0625"	6 1/8"	5 7/8" x 8 1/2"	Flat
RETURN	1/2"	.0625"	4 1/8"	3 7/8" x 8 3/4"	Flat

**RECEIVED
157**

Item No. G8-2901-1J

Date 3-14-86 Co. name HAPPY DIVISION, THERMA TECH. Signed [Signature]
Date 4-23-86 Signed [Signature] Commissioned MB-8741 OK-267
(Authorized Signature) (Name, Title, and No.)