

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. 4425-1-1H --- 4425-1-20 2303 1986
(Type or size tank) (Mfg. serial No.) (R.R.) (Drawing No.) (Bar) (Rt. No.) (Year)

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 ----- -----
Address (Date) Code Case No. Special Service per UG-120(d)

* 6. Wrapper: ----- ----- ----- ----- ----- ----- ----- ----- ----- -----
Matl (Spec No Grade) Nom Thk (in) Cor Allow (in) Width Length (overall) (L x B x H)

7. Seams: Welded No --- --- --- --- --- --- --- ---
Long (Welded Dbl Spig Lap Butt) R T (Spot or Full) EW (Fl) HT Temp (F) Tens (No) Corth (Welded Dbl Spig Lap Butt) R T (Spot 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	Support Pressure or Category of Fastener
(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
 Min. temp. (when less than -20°F) ----- °F. Hydro. 390

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.

SECRET
1-87

*See Attached U-4 Form

Unit Service: Refrigerant Condenser Item No. G8-2901-8

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. 10.491 expires May 11, 1986
 Date 3-14-86 Co. name HAPPY DIVISION, THERMA TECH., INC. Signed Jerry Cash
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by HAPPY DIVISION, THERMA TECHNOLOGY, INC., TULSA, OKLAHOMA
 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 OKLAHOMA and employed by COMMERCIAL UNION INSURANCE CO.
 have inspected the component described in this Manufacturer's Data Report on 4-27, 1986, 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 4-23-86 Signed Donald Mayford Commissions 978-8741 OK-267
(Authorizing Inspector) (National Board (incl. endorsements) State Print and No.)

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

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. 4425-1-1H --- 4425-1-20 2303 1986
(Material, form, etc.) (Rating, serial No.) (CRN) (Design) (Part or No.) (Year built)

Date Report
Item Number
Remarks

LOCATION						
* WRAPPER	Matl.	Nom. Thk.	Corr. All.	Wdth.	Lgth.	
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 Shr.	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
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Item No. G8-2901-8

Date 3-14-86 Co. name HAPPY DIVISION, THERMA-TECH. Signed [Signature]
Date 4-23-86 Signed [Signature] Commissioned NO-8741 OK-267
(Authorised Inspector) (Must Record Unit endorsement, Date, Place, and No.)