

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. 74119  
(Name and address of manufacturer)  
2. Manufactured for Becon Construction Company 5400 Westheimer Court Houston, Texas 77056  
(Name and address of purchaser)  
3. Location of installation Amoco Production Company Anschutz Ranch East Evanston, Wyoming  
(Name and address)  
4. Type HORIZ. 4425-3-1A --- 4425-3-20 2323 1986  
(HORIZ. or vert. tank) (Mfg. serial No.) (E.H.N.) (Drawing No.) (Nat'l. 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, Division 1 1983  
Year  
to 12-31-84  
Addenda (Date) Code Case Nos. 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. Sngl., Lap, Burt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Sngl., Lap, Burt) R.T. (Spot, Partial or Full) No. of Courses  
8. Heads: (a) Matl. SA-516-70 (Spec. No., Grade) (b) Matl. SA-516-70 (Spec. No., Grade)

|       | Location (Top Bottom Ends) | Minimum Thickness | Corrosion Allowance | Max. Span | Flat Dimension | Same to Pressure or Cover or Connection |
|-------|----------------------------|-------------------|---------------------|-----------|----------------|---|
| * (a) | T&P Sht.                   |                   |                     |           |                | Flat                                    |
| * (b) | End Block                  |                   |                     |           |                | Flat                                    |

If removable, bolts used (describe other fastenings) \_\_\_\_\_

(Matl., Spec. No., Gr., Size, No.)

9. MAWP 100 psi at max. temp. 310 °F  
Min. temp. (when less than -20°F) --- °F. Hydro. 150 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   | 10" 150#      | RF WN | SA-105 | Sch XH    | NONE                | WELDED       | HEADER   |
| OUTLET                       | 2   | 10" 150#      | RF WN | SA-105 | Sch XH    | NONE                | WELDED       | HEADER   |
| Vent/Drain                   | 1/1 | 3/4"          | Cplg. | SA-105 | 6000#     | NONE                | WELDED       | HEADER   |
| Cust. Conn.                  | 8   | 3/4"          | Cplg. | SA-105 | 6000#     | 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, 2 Pass, Tube Material: SA-214  
Qty. 202 O.D. 1 1/2" x .075" M x 32'-0" Long.

\*See attached U-4 Form

RECEIVED

157

Unit Service: Heat Pump 1st Stage Intercooler

Item No. G8-401

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, 1989  
Date 6-5-84 Co. name HAPPY DIVISION, THERMA TECH., INC. Signed \_\_\_\_\_  
(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 6-5, 19 84, 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 6-5-84 Signature Alex Q. Stend Commissions N.B. 8432 ok. 266  
(Authorized Inspector) (Nat'l. Board and endorsements: State, Prov. and No.)

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

2-2

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 Company 5400 Westheimer Court Houston, Texas 77056  
(Name and address of purchaser)

3. Location of installation Amoco Production Company Anschutz Ranch East Evanston, Wyoming  
(Name and address)

4. Type HORIZ. 4425-3-1A 4425-3-20 2323 1986  
(Material, wall, temp, etc.) (Rating or serial No.) (Design) (Net) Gd No (Year built)

| Data Report |           | Remarks    |            |                       |               |      |
|-------------|-----------|------------|------------|-----------------------|---------------|------|
| Item Number |           |            |            |                       |               |      |
| LOCATION    |           |            |            |                       |               |      |
| * WRAPPER   | Matl.     | Nom. Thk.  | Corr. All. | Wdth.                 | Legth.        |      |
| INLET       | SA-516-70 | 5/8"       | 1/16"      | 9 3/4"                | 12'-10 1/2"   | Flat |
| RETURN      | SA-516-70 | 1/2"       | 1/16"      | 3 3/4"                | 12'-10 1/2"   | Flat |
|             |           |            |            |                       |               |      |
| * T&P Sht.  | Min. Thk. | Corr. All. | Max. Span  | Flat Dim.             | Side To Press |      |
| INLET       | 1"        | 1/16"      | 10 3/8"    | 11 1/2" x 12'-10 1/2" | Flat          |      |
| RETURN      | 1"        | 1/16"      | 10 5/8"    | 11 1/2" x 12'-10 1/2" | Flat          |      |
|             |           |            |            |                       |               |      |
| * END BLOCK |           |            |            |                       |               |      |
| INLET       | 1/2"      | 1/16"      | 10 1/8"    | 9 7/8" x 0'-10"       | Flat          |      |
| RETURN      | 1/2"      | 1/16"      | 4 1/8"     | 3 3/4" x 0'-10 1/4"   | Flat          |      |
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Date 6-5-86 Co. name HAPPY DIVISION, THERMA-TECH. Signed [Signature]  
(Manufacturer)

Date 6-5-86 Signed [Signature] G. Stout Commissions N.B. 8432 OK. 2166  
(Authorized Inspector) (Not Good (last endorsement), Exam. Fee, and No.)