

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. Manufactured and certified by COOLING PRODUCTS, INC. 500 NORTH PECAN, BROKEN ARROW, OK 74012
(Name and address of manufacturer)

2. Manufactured for AMOCO PRODUCTION COMPANY Houston, Texas
(Name and address of purchaser)

3. Location of installation AMOCO PRODUCTION COMPANY Anschutz Ranch East Evanston, Wyoming
(Name and address)

4. Type Finned Sec. 2941-1 H-153-4 1985
(Name of vessel) (Mfr's serial No.) (CRN) (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 Winter 84 None None
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Wld. Sngl. Corn. Jnt. None C=20 1100 2
Long. (Welded, Dbl. Sngl. Lap, Butt) R.T. (Spot or Full) EM. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl. Sngl. Lap, Butt) 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	Crown Radius	Knuckle Radius	Elliptical Ratio	Circular Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Tube & Plug Sheet</u>	<u>3-1/2"</u>	<u>1/16"</u>						<u>9"</u>	
(b) <u>Wrapper & End Plate</u>	<u>1-5/8"</u>	<u>1/16"</u>						<u>4"</u>	

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

9. MAWP 2,700 psi at max. temp. 350 °F
 Min. temp. (when less than -20°F) _____ °F. Hydro. test pressure 4,050 psi.

10. Nozzles, inspection and safety valve openings: Safety valve furnished by customer & installed in their piping.

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Inlet</u>	<u>1</u>	<u>6"ANSI</u>	<u>1500#RTJWN Flg.</u>	<u>SA-105</u>	<u>XH</u>		<u>Wld'd.</u>	<u>Header</u>
<u>Outlet</u>	<u>1</u>	<u>6"ANSI</u>	<u>1500#RTJWN Flg.</u>	<u>SA-105</u>	<u>XH</u>		<u>Wld'd.</u>	<u>Header</u>
<u>Vent/Drain</u>	<u>2</u>	<u>1"-6000#</u>	<u>Cplg.</u>	<u>SA-105</u>			<u>Wld'd.</u>	<u>Header</u>
<u> Tubes</u>	<u>153</u>	<u>1"</u>	<u>OD Straight</u>	<u>SA-214</u>	<u>11 GA</u>		<u>Rolled</u>	<u>Tube Sht.</u>

11. Supports: Skirt _____ Lugs _____ (Yes or no) _____ (No.) _____ (No.) _____ (Describe) _____ Attached _____ (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: Air Cooled Heat Exchanger

Five row, four pass box type headers. Dimensions: 9"x 70-7/8"
Two 6" Swages SA-216-WCB w/2 1" hex head plugs each SA-105.
153B53604 P.O.#83A-0-03082 BLIC Intercooler

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. 5746 expires April 30, 19 87.
 Date 9-16-85 Co. name COOLING PRODUCTS, INC. (Manufacturer) Signed [Signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by COOLING PRODUCTS, INC. at 500 NORTH PECAN, BROKEN ARROW, OK 74012

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 Company have inspected the component described in this Manufacturer's Data Report on 10-11, 19 85, 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 10-11-85 Signed [Signature] (Authorized Inspector) Commissions OK259 (Nat'l. Board (incl. endorsements), State, Prov. and No.)