

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**

Additional Drawing No. \_\_\_\_\_

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

Header Volume (cu.ft.) \_\_\_\_\_

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Air-X-Changers, A Harsco Company, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA  
(Name and address of manufacturer)
2. Manufactured for Chevron Texaco, P. O. BOX 1392, Bakersfield, California, 93302, USA  
(Name and address of purchaser)

3. Location of Installation UNKNOWN  
(Name and address)

4. Type Heat Exchanger Heat  
(Horiz. or Vert. tank) 063174.1B (Mfr's serial No.) N/A (CRN) HDR-1, REV-3 (Drawing No.) 56044 (Nat'l. Bd. No.) 2007 (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 2004 (year) to A05 Addenda (Date)  
N/A Code Case Nos. N/A Special Service per UG-120(d)

6. Shell: SA516 70 Mat'l. (Spec. No., Grade) 1" Nom. Thk. (in.) .125 Corr. Allow. (in.) 0' 5.375" (OD) Diam. I.D.(ft. & in.) 10' 9.25" Length (overall) (ft. & in.)

7. Seams: Corner Joint Long. (Welded, Dbl., Sngl., Lap, Butt) N/A R.T.(Spot or Full) C=.20 Eff.(%) 1150 H.T. Temp (°F) .75 Time (hr) N/A Girth. (Welded, Dbl., Sngl., Lap, Butt) N/A R.T (Spot or Full) N/A Eff(%) N/A No. of Courses

8. Heads: (a) Mat'l: SA516 70 (Spec. No., Grade) (b) Mat'l: SA516 70 (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)	TOP/BTM	.625"	.125	N/A	N/A	N/A	N/A	N/A	8" X 129.25"	N/A
(b)	ENDS	.5"	.125	N/A	N/A	N/A	N/A	N/A	See Remarks	N/A

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.) N/A

9. MAWP 185 (internal) N/A (external) psi at max. temp. 450 (internal) N/A (external) °F

Min. design metal temp. 30 °F at 185 psi Hydro, pneu., or comb. test pressure HYDRO. at 241 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
IN/OUT	2	8"	150# RFWN	SA105	SCH 80	Weld	Welded	Header
IN/OUT	2	6"	150#RFWN	SA105/SA106 GR. B	SCH 80	Weld	Welded	Header
VENT/DRAIN	2	1"	CPLG.	SA105	6000#	Weld	Welded	Header

11. Supports: Skirt NO (Yes or no) Lugs N/A (No.) Legs N/A (No.) Other \_\_\_\_\_ Structure Attached (Describe) Bolted \_\_\_\_\_ (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:  
N/A  
(Name of part, item number, Mfgr's name and identifying stamp)

(A) TUBES: 226 x 1" OD, Straight: YES, Length: 408 inches, Gauge: 16BWG, Material: SA789-S31803. Rolled Tube Sheet (B) INSP.OPENINGS: 452, Type: 1-1/8x12UNF-Threaded, Material: SA105(N). (C) IMPACT REQUIREMENTS: IMPACT EXEMPT PER: UG 20(f), Constructed in Conformance to Appendix 28. Note: Front Header consists of (2) seperate Heads. Section 6: Diameter, (2)T&P @  
Additional Remarks - See Attached U-4...

**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. 4241 expires December 31, 2008

Date 04/04/2007 Co. name Air-X-Changers, A Harsco Company Signed Bret Kuntz  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Air-X-Changers, A Harsco Company at 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province OK and employed by OneBeacon America Insurance Co., of Boston, MA have inspected the component described in this Manufacturer's Data Report on February 23, 2007 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 04/04/2007 Signed [Signature] Commissions 11672A, OK765  
(Authorized Inspector) (Nat'l Board (incl. 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

1. Manufactured and certified by Air-X-Changers, A Harsco Company, 5215 Arkansas Road, Catoosa, Oklahoma, 74015, USA  
 (Name and address of Manufacturer)

2. Manufactured for Chevron Texaco, P. O. BOX 1392, Bakersfield, California, 93302, USA  
 (Name and address of Purchaser)

3. Location of Installation UNKNOWN  
 (Name and address)

4. Type	<u>Heat Exchanger</u> (Horiz, vert., or sphere)	<u>N/A</u> (Tank, separator, heat exh., etc.)	<u>063174.1B</u> Mfg's serial No.
	<u>N/A</u> (CRN)	<u>HDR-1, REV-3</u> (drawing no.)	<u>56044</u> (Nat'l Bd. No.)
			<u>2007</u> (Year built)

Additional remarks pertaining to Manufacturer's Partial Data Reports:

Additional Remarks:

11.125"; Section 8(b): (4) Ends @ .5" x 8" x 4.125", (2) Ends @ .625" x 8" x 9.875".

Certificate of Authorization: Type "U" No. 4241 Expires December 31, 2008

Date 04/04/2007 Name Air-X-Changers, A Harsco Company Signed Bret Keuth  
 (Manufacturer) (Representative)

Date 04/04/2007 Name [Signature] Commission 11672A, OK765  
 (Authorized Inspector)

(Nat'l Board (incl. endorsements), State, Province and No.)