Additional Drawing No.

Header Volume (cu.ft.)

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

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

As Required by the Provisions of the ASME Boiler and Pressure Vessel 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, CA, 93302, USA
(Name and address of purchaser)

3. Location of Installation UNKNOWN
(Name and address)

4. Type Heat Exchanger (Horizontal or vertical, tank) | 083195.1 (Manufacturer's serial number) | N/A (CRN) | HDR-1, REV1 (Drawing No.) | 66125 (National Board number) | 2009 (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 2007 (year) to A08 [Addenda (Date)]

N/A (Code Case numbers) | N/A (Special Service per UG-120(d))

6. Shell: SA516 70 (Material spec. number, grade) | See Remarks (Nominal thickness) | 0.125 in (Corr. allow.) | N/A (Inner diameter) | N/A [Length (overall)]

7. Seams: Corner Joint [Long. (welded, dbl., sngl., lap, butt)] | N/A R.T.(Spot or Full) | C=.20 Eff.(%) | 1150 °F (H.T. temp) | 0.5 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) Material SA516 70 (Spec. no., grade) (b) Material 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	.5"	0.125	N/A	N/A	N/A	N/A	N/A	4" x 95.5"	N/A
(b)	ENDS	.5"	0.125	N/A	N/A	N/A	N/A	N/A	See Remarks	N/A

If removable, bolts used (describe other fastenings) **N/A**
(Material, spec. number, grade, size, number)

9. MAWP 203 psi (Internal) | N/A (External) at max. temp. 390 °F (Internal) | N/A (External)

Min. design metal temp. 0 °F at 203 psi . Hydro, pneu., or comb. test pressure HYDRO. at 264 psi

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
IN/OUT	**2**	**4"**	**150# RFWN**	**SA105/SA106 GR.B**	**SCH-160**	**Weld**	**Welded**	**Header**
DRAIN	**2**	**1"**	**CPLG**	**SA105**	**6000#**	**Weld**	**Welded**	**Header**
IN/OUT	**2**	**4"**	**150# RFWN**	**SA105**	**SCH-160**	**Weld**	**Welded**	**Header**

11. Supports: Skirt **NO** (Yes or no) Lugs N/A (Number) Legs N/A (Number) Other **Structure** (Describe) Attached 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:

6 Shell Thickness & Diameter: 2 @ 1" X 10.5" / 4 @ 1" X 5.0625"
8b Ends: 2 @ 4" X 9.5" / 4 @ 4" X 4.0625"

(Name of part, item number, Manufacturer's name and identifying stamp)

Line 6 - -Tube and Plug Dimensions OR Header Dimensions: 0.0" X 1.0" X 7' 11.5000"
Straight length of tubes, OR, Distance between the headers: 22' 0.0"

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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization No. 4241 expires December 31, 2011

Date 03/23/2009 Co. name **Air-X-Changers, A Harsco Company** (Manufacturer) Signed Trish Lowe (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 Lynn, MA have inspected the component described in this Manufacturer's Data Report on March 23, 2009 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 03/23/2009 Signed William B Bowman (Authorized Inspector) Commissions 12752A, OK951 (National Board (incl. endorsements), State, Province and number)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Boiler and Pressure Vessel 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, CA, 93302, USA
(Name and address of Purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type

Heat Exchanger	N/A	083195.1
(Horizontal, vertical, or sphere)	(Tank, separator, heat exch., etc.)	(Manufacturer's serial number)

N/A	HDR-1, REV1	66125	2009
(CRN)	(Drawing number)	(National Board number)	(Year built)

Data Report Item Number	Remarks

Additional Remarks:

(A)TUBES: 166 x 1" OD, Gauge: 14BWG, Material: SA213 316L Rolled Tube Sheet (B)INSP.OPENINGS: 332, Type: 1-1/8X12UNF-Threaded, Material: SA105 (C)IMPACT REQUIREMENTS: IMPACT EXEMPT PER: UG 20 (f). Constructed in conformance with Appendix 28.

Certificate of Authorization: Type "U" No. 4241 Expires December 31, 2011

Date 03/23/2009 Name **Air-X-Changers, A Harsco Company** (Manufacturer) Signed (Representative)

Date 03/23/2009 Signed (Authorized Inspector) Commissions 12752A, OK951
(National Board Authorized Inspector Commission number)