

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 Code Rules, Section VIII, Division 1

1. Manufactured and certified by American Welding & Tank-Gas & Fluid Control Group-Harsco Corp., 111 Tank Road, Jesup, Georgia, 31545, USA
(Name and address of manufacturer)

2. Manufactured for STOCK
(Name and address of purchaser)

3. Location of Installation N/A
(Name and address)

4. Type HORIZONTAL 2SU000040 N/A LP-1450F.R.0 2SU000040 2003
(Horiz. or Vert. tank) (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 2001 to 2002
Code Case Nos. N/A N/A (year) Addenda (Date)
Special Service per UG-120(d)

6. Shell: SA455 0.271 N/A 3' 10.0000" ID 14' 11.5000"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: WLD.DBL.BUTT FULL 100% N/A N/A OFFSET SPOT 2
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l: SA455 (b) Mat'l: SA455
(Spec. No., Grade) (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)	END	0.269	0	N/A	N/A	2:1	N/A	0.0000"	N/A	CONCAVE
(b)	END	0.269	0	N/A	N/A	2:1	N/A	0.0000"	N/A	CONCAVE

If removable, bolts used (describe other fastenings)

9. MAWP 250 psi at max. temp. 400 °F (Mat'l., Spec. No., Gr., Size, No.)
Min. design metal temp. -20 °F at 250 psi Hydro, pneu., or comb. test pressure HYDRO. 325 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
OUTLET	01	0.75	FLG	SA-105	3000#	INHERENT	WELDED	SHELL
INLET/OUTLET	04	1.25	FLG	SA-105	3000#	INHERENT	WELDED	SHELL
GAUGE	01	1.00	FLG	SA-105	3000#	INHERENT	WELDED	SHELL
SAFETY VALVE	01	1.25	FLG	SA-105	3000#	INHERENT	WELDED	SHELL
OUTLET	01	2.00	FLG	SA-105	3000#	INHERENT	WELDED	SHELL

11. Supports: Skirt NO Lugs N/A Legs 4 Other N/A Attached SHELL/WELDED
(Yes or no) (No.) (No.) (Describe) (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, Mfr's name and identifying stamp)

1450 GAL CAPACITY STORAGE TANK FOR LIQUEFIED PETROLEUM GAS, AG, NON-CORROSIVE SERVICE, 46.5"
DIAMETER X 207.75" O.A.L., CIRCUMFERENTIAL JOINTS CONSTRUCTED PER UW-13.1 (K), CONSTPER
PROVISIONS OF UG-90 (C) (2) AND UG-20 (F) REAL TIME RADIOGRAPHIC EXAMINATION PERFORMED.

CERTIFICATE OF SHOP/FIELD COMPLIANCE

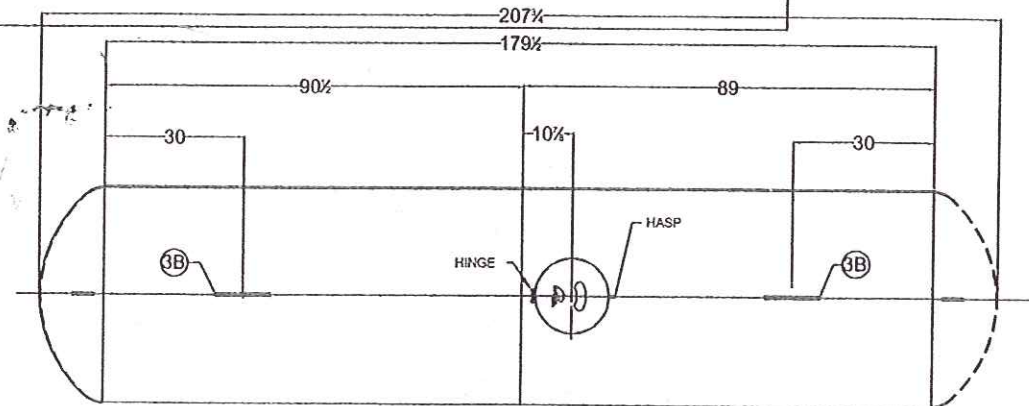
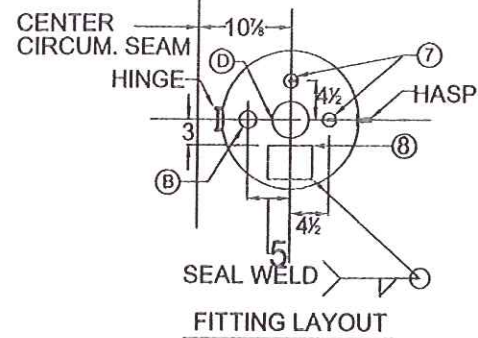
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 11036 expires 04/30/2006

Date 02/12/2004 Co. name American Welding & Tank-Gas & Fluid Control Group-Harsco Corp. Signed Jesse L. Buel
(Manufacturer) (Representative)

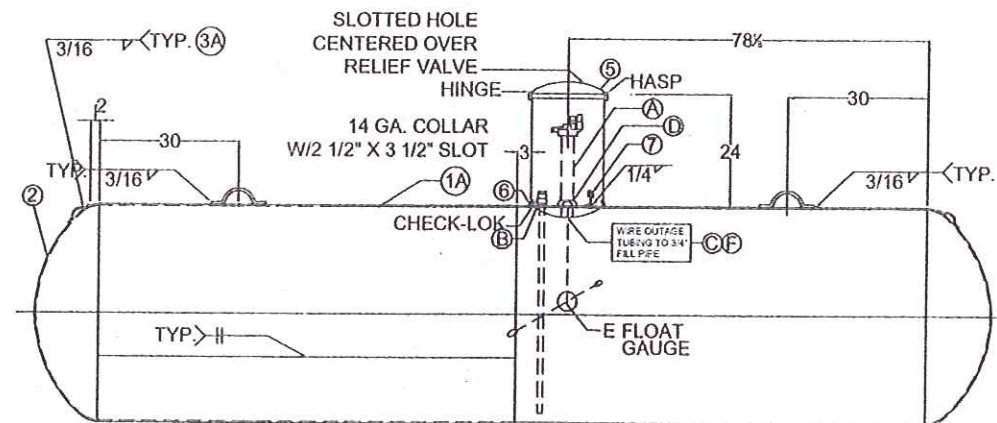
CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by American Welding & Tank-Gas & Fluid Control Group-Harsco Corp. at 111 Tank Road, Jesup, Georgia, 31545, USA, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province GA and employed by HSB CT of Hartford, CT have inspected the component described in this Manufacturer's Data Report on December 5, 2003 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 02/12/2004 Signed Walter D. H. Ruff Commissions 11445A, GA572
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)



TOP VIEW (LP - 1450UG)



SIDE ELEVATION

ADDITIONAL NOTES:

- BOLT HOLES TO STRADDLE NATURAL CENTER LINES.
- VESSEL TO BE THOROUGHLY CLEANED.
- ALL OPENINGS CLOSED FOR SHIPMENT.
- LIFTING LUGS FOR TARE WEIGHT ONLY.

NAT'L. BD. SERIAL No.

CERTIFIED BY: AMERICAN WELDING & TANK
HARSCO CORPORATION GAS & FLUID CONTROL GROUP
JESUP, GEORGIA-BLOOMFIELD, IOWA, SALT LAKE CITY, UTAH-FREMONT, OHIO

MAX. ALLOW. WORKING PRESS. 250 PSI AT 400 °F
MDMT -20 °F AT 250 PSI PLANT NO.

SERIAL NO. XU YEAR BUILT 20
LENGTH 297.75 IN. OUTSIDE DIA. 46.5 IN.
HEAD THK. .209 IN. SHELL THK. .271 IN.
UNDER GROUND TYPE AWT-UG SURFACE AREA 214 SQ. FT.
LISTED CONTAINER ASSEMBLY FOR LP GAS 695A HEAD D.R. 2:1
WATER CAPACITY 1450 GALS.

THIS CONTAINER SHALL NOT CONTAIN A PRODUCT HAVING A VAPOR PRESSURE IN EXCESS OF 215 PSI AT 100°F.
DIP TUBE LENGTH-89% FULL @ 50 DEG. F. D.T. = 8.4 IN.

DATA PLATE DETAIL

GENERAL NOTES:

1. LIFTING LUGS DESIGNED FOR TOTAL LIFTING WEIGHT OF 3000#.
2. TOTAL EMPTY WEIGHT IS 2650#.
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
4. COMPLETE TANK DRIED TO REMOVE ALL MOISTURE.
5. EXTERIOR OF TANK TO BE GRIT BLASTED.
6. PAINT PER SHOP ORDER.
7. VACUUM PURGE TANK.
8. DIMENSIONS ARE SUBJECT TO CHANGE WITH OUT NOTICE. (NON-PRESSURE RETAINING COMPONENTS ONLY)
- 9.10. THREADS OF ALL FITTINGS TO BE COATED WITH COMPOUND SUITABLE FOR USE WITH PROPANE GAS.
10. FLOAT GAUGE TO BE INSTALLED WITH FLOAT ARM 45° OFF LONGITUDINAL CENTERLINE OF TANK.

GENERAL SPECIFICATIONS

WATER CAPACITY (GALLONS)	1450
ALLOWABLE WORKING PRESSURE (PSIG)	250
JOINT EFFICIENCY:	ASME UW-51 LONG SEAM 100 %
	ASME UW-52 HEAD TO SHELL 100%
HYDROSTATIC TEST PRESSURE (PSIG)	325
SURFACE AREA (SQ. FT.)	214
RELIEF VALVE SETTING (PSIG)	250
RELIEF DISCHARGE RATE - (CFM REQ'D.)	1312
CODE:	ASME SECTION VIII DIV. I
STANDARDS:	A.N.S.I. K - 61.1

MATERIAL SPECS.:

COUPLINGS	SA-105
TANK FLANGES	SA-105
ADAPTOR	SA-105
PIPE	SA53B OR SA106B

1450 W.G. UNDERGROUND
PROPANE TANK TYPE BS - AP

AMERICAN WELDING & TANK
HARSCO CORPORATION GAS & FLUID CONTROL GROUP

DATE:	12/13/00	DRAWN BY:	CDH	APPROVED BY:	CDH	REVISION:	10	DRAWING No.:	LP - 1450UG
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MARK	QTY.	SIZE	TYPE	FITTINGS	SERVICE	MARK	QTY.	DESCRIPTION	DWG. NO.
A	1	2 1/2	SCHED. 40 PIPE T.O.E. X 18" LG.	REGO	SHERWOOD	1A	2	SHELL - 0.271" X 92" X 145 9/16" - SA455	
A (ALT.)	1	2 1/2	SCHED. 40 PIPE T.O.E. X 9 1/8" LG. & DOME HT. = 18"	G8475RV	PV2095A	2	2	HEADS - 46" I.D. X 0.269" ELLIPTICAL-SA455	
B	1	1 1/4	XH FLO. W/ EVAC TUBE	G8475RV	PV2095A	3A	2	LIFTING LUGS 1/2" SQ.	D - 2
C	1	3/4	SCH. 40 PIPE (T.O.E.)	7591U	PV5137	3B	2	LIFTING LUGS 5/8" Ø	D - 2
D	1	2 1/2	XH SOCKET WELD FLG			4		(DELETED)	
E	1	1 1/4	4 - BOLT STYLE	SR: SQUIBB-TAYLOR JB324D LR: SQUIBB-TAYLOR JB400H	CHEK-LOK FILL PIPING X 1/2" SR OR 1/2" LR RISER PIPE ATTACHMENT	5	1	DOME	D - 4
F	1	1/8	BRASS TUBE			6	2	SNAP LOCK DOME CLIPS	D-2&D-30
						7	2	ANODE ATTACHMENT	D - 7
						8	1	DATA PLATE	

REV.	BY:	DESCRIPTION	DATE:
1	w/b	ADDED ANODE ATTACHMENT	4/19/01
2	CDH	NEW NAMEPLATE	10/24/01
3	CDH	CORRECTED DIP TUBE LENGTH & S/N PREFIX	11/21/01
4	CDH	REVISED FILL TUBE LENGTH AND RELOCATED "B"	12/20/01
5	CDH	REVISED CHEK-LOK MODELS AND MOVED LIFTING LUGS	4/11/02
6	CDH	ELIMINATED TWO LIFTING LUGS	4/18/02
7	CDH	REMOVED DOME CLIPS, ADDED SNAP LOCKS	10/21/02
8	CDH	CORRECTED SHELL LENGTH	2/13/03
9	CDH	REVISED MDMT PRESSURE TO 250 PSI	3/7/03
10	CDH	ADDED FLOAT GAUGE MODEL NUMBERS	5/6/03

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