

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

**A 450815**  
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1. Manufactured and certified by HANOVER WELLS HALL INC., 6115-30 Street N.W., EDMONTON, AB T6P 1J8  
(Name and address of manufacturer)

2. Manufactured for Hanover Wells Hall Inc., 6115 30 St Edmonton Alberta T6P 1J8  
(Name and address of purchaser)

3. Location of installation Stock  
(Name and address)

4. Type Horizontal 02-2766-1 P7614.2 37-A-2641 r1 N/A 2002  
(HORIZ or VERT tank) (Mfg'r's serial No.) (CRN) (Drawing No.) (Part 1 of 2) (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  
Year

6. Shell: SA516 70N 0.375 0.0625 35.250 in 8 ft S/S  
Addenda (Date) Code Case Nos. Spec. of Service per UG 129(d) (Mfg'r's Spec. No., Grade) (Nom. Thk. (in)) (Corr. Allow. (in)) (Diam. I.D. (ft & in)) (Length (overall) (ft & in))

7. Seams: Type 1 Full 100% - - Type 1 Spot 1  
Long (Welded, Dbl. Sngl. Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Grth (Welded Dbl Sngl Lap, Butt) R.T. (Spot Partial or Full) No. of Courses

8. Heads: (a) Matl. SA516 70N (b) Matl. SA516 70N  
(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)	Left	0.3125 in	0.0625 in	-	-	2:1	-	-	-	Concave
(b)	Bottom	0.3125 in	0.0625 in	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) N/A  
(Mati. Spec. No., Gr. Size No.)

9. MAWP (1896 kPa) 275 psi at max. temp. (38 C) 190 °F  
 Min. design metal temp. (-29 C) -20 °F at 275 psi. Hydro., pneu., or comb. test pressure (2465 kPa) 358 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam. or Size	Type	Matl.	Nom Thk	Reinforcement Matl	How Attached	Location
Process Inlet, Gas Outlet	2	4 in	RFWN / PIPE	SA105N / SA106B	150# / 0.337 in / 0.531 in	N/R	UW-16.1(c)	Shell
Condensate Outlet, Water Outlet, Condensate Level Control/Inspection, Water Level Control, PSV, Inspection	6	2 in	HCPLG	SA105N	3000#	N/R	UW-16.1(c)	Shell
HLSD	1	2 in	CPLG	SA105N	6000#	N/R	UW-16.1(c)	Shell
Condensate Level Gauge, Water Level Gauge, Temperature Gauge	4	0.75 in	HCPLG	SA105N	6000#	N/R	UW-17.1(c)	Shell
Water Level Gauge	1	0.75 in	CPLG	SA105N	6000#	N/R	UW-16.1(c)	Shell
Pressure Gauge	1	0.5 in	HCPLG	SA105N	6000#	N/R	UW-16.1(c)	Shell

11. Supports: Skirt No Lugs 0 Legs 0 Other 2 Saddles Attached Welded to shell  
(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:  
(Name of part, item number, Mfg'r's name and identifying stamp)

**Impacts exempt per UG-20(f)(1-5) & UCS-66 Curve "D", Full RT2 per UW11(a)5(b), Volume = 64 CU FT**  
**3-PH Horizontal Separator, As built DWG#37-A-2766 r1**

**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. 19595 expires June 21, 2002  
 Date May 10/02 Co. name HANOVER WELLS HALL INC. Signed [Signature]  
(Manufacturer) (Representative)

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**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by HANOVER WELLS HALL INC. at EDMONTON, ALBERTA  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ALBERTA and employed by Alberta Boiler Safety Association  
 have inspected the component described in this Manufacturer's Data Report on May 14, 2002, 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 May 14/02 Signed [Signature] Commissions ALBERTA 39R  
(Authorized Inspector) (Part 1 Board (includes endorsements), Title, Firm, and No.)