

**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 49 2259

1. Manufactured and certified by Moss Fabrication Ltd., 6619-86th Avenue S.E. Calgary, AB, T2C 2S4  
 (Name and address of manufacturer)

2. Manufactured for Canwell Enviro-Industries Ltd. 1170, 800-6th Avenue S.W. Calgary, Alberta. T2P 3G3  
 (Name and address of purchaser)

3. Location of installation ESD: 15-28-75-07 W6N  
 (Name and address)

4. Type Vertical 3202-1 R-2232-2 \*\*\*R3202-1 Rev. 0 n/a 2003  
 (Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Id. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME ROILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1

6. Shell: SA-516-70N 2.500" 0.125" 5' 0" 20' 0"  
 Mat'l (Spec. No., Grade) (Nom. Thk. (in)) (Corr. Allow. (in)) Diam. ID (Ft. x in) Length (overall) (ft. & in)

7. Seams: Type I 1150 2.5 n/a 2  
 \*Full (Spot or Full) Eff (%) Y-T Temp (deg F) Time (hr) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. SA-516-70N  
 (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) Top                     | 2.375"            | 0.125"              | n/a          | n/a            | 2:1 SE           | n/a                | n/a                  | n/a           | Concave                              |
| (b) Bottom                  | 2.375"            | 0.125"              | n/a          | n/a            | 2:1 SE           | n/a                | n/a                  | n/a           | Concave                              |

If removable, bolts used (describe other fastenings) n/a (Mat'l. Spec. No. or Size, No.) 150 of:

9. MAWP: 1415 psi at max. temp. 1415 psi Hydro, pneu., or comb. test pressure 2122 psi  
 Min. design metal temp. \*-20 of at

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 |
|--------------------------------|-----|---------------|-----------|-----------------------|-----------|----------------------|--------------|----------|
| Inlet                          | 1   | 6"            | 600# RFWN | SA-106 Gr. B / SA105N | 0.864"    | SA-516-70N           | UW16.1e      | Shell    |
| Outlet                         | 1   | 6"            | 600# RFWN | SA-106 Gr. B / SA105N | 0.864"    | SA-516-70N           | UW16.1e      | Head     |
| Chemical In                    | 1   | 1"            | TOL       | SA-105N               | 6000#     | n/a                  | UW16.1a      | Shell    |
| Drain                          | 1   | 2"            | PIPE      | SA-106 Gr. B          | 0.344"    | n/a                  | UW16.1a      | Head     |
| PI                             | 1   | 3/4"          | TOL       | SA-105N               | 6000#     | n/a                  | UW16.1a      | Shell    |
| TI                             | 1   | 3/4"          | TOL       | SA-105N               | 6000#     | n/a                  | UW16.1a      | Shell    |
| Manway                         | 1   | 20"           | 600# RFWN | SA-516-70N / SA-105N  | 0.875"    | SA-516-70N           | UW16.1e      | Shell    |

11. Supports: Skirt Yes 4 Lugs 4 Legs n/a Other n/a Attached Welded to Head/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:  
 VOLUME 432 cu ft. WEIGHT 44,000 lbs. DESCRIPTION PSV installed on piping as per UG-125 Contactor  
 \*Radiography as per UW-11(e) \*\*\*Manufactured to Moss Fabrication drawing number: V3202-1 Rev. 2  
 \*\*Charpy impact testing required as per UG-84

**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 conforms to the ASME Code for Pressure Vessels, Section VIII, Division 1, "U" Certificate of Authorization No. 33,250 expires April 26, 2005  
 Date Mar. 17, 2003 Co. name Moss Fabrication Ltd. Signed [Signature] (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Moss Fabrication Ltd. at Calgary, Alberta, Canada  
 It, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta  
 and employed by Alberta Boilers Safety Association have inspected the component described in this Manufacturer's Data Report on March 17, 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 3/17/03 Signed [Signature] (Authorized Inspector) Commissions Alberta S  
 (Not for use and not enforceable in State, Prov. and No. T)