

**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

Form U1-A

**A408673**

1. Manufactured and certified by **PRESSION MANUFACTURING LTD. 2103 - 8 ST., NISKU, ALBERTA, CANADA T9E 7Z1**  
(Name and address of Manufacturer)  
2. Manufactured for **RENAISSANCE ENERGY LTD. 3000, 425-1st. STREET SW CALGARY, ALBERTA. T2P 3L8**  
(Name and address of Purchaser)

3. Location of Installation **STOCK**  
(Name and address)

4. Type **VERTICAL** **5951-20** **N-4126.2** **B5951-260rev O** **—** **1997**  
(Horiz. or vert. tank) (Mfgr'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 **1995**  
to **A95** (Year)

6. Shell: **SA516-70N** **1.75 / 1.625** **.0625** **42' / 36' OD** **24'-0'**  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID (ft. & in.) Length (overall) (ft. & in.)

7. Seams: **TYPE 1** **FULL** **100** **1150** **2** **TYPE 1** **FULL** **3**  
Long. (Welded, Dbl., Singl., Lap, Butt) RT (Spot or Full) Eff. (%) HT. Temp. (°F.) Time (hr.) Girth (Welded, Dbl., Singl., Lap, Butt) RT (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. **SA516-70N** (b) Mat'l. **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) | BOTTOM                       | 1.687"            | .0625"              | —            | —              | 2:1              | —                  | —                    | —             | CONCAVE                              |
| b) | TOP                          | 1.613"            | .0625"              | —            | —              | 2:1              | —                  | —                    | —             | CONCAVE                              |

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

9. MAWP **1440** psi at max. temp. **130** °F  
Min. design metal temp. **-20** °F at **1440** psi. Hydro., Pneu., or Comb. test pressure **2160** psi.

10. Nozzles, inspection and safety valve openings:

| Purpose (Inlet, Outlet, Drain) | No. | Diam. or Size | Type | Material | Nom. Thickness | Reinforcement Material | How Attached | Location |
|--------------------------------|-----|---------------|------|----------|----------------|------------------------|--------------|----------|
| INLET                          | 1   | 6"            | RFWN | SA106B   | XXH            | SA516-70N              | UW16.1C      | SHELL    |
| GAS OUTLET                     | 1   | 6"            | RFWN | SA106B   | XXH            | SA516-70N              | UW16.1C      | HEAD     |
| RECYCLE GAS OUT                | 1   | 6"            | RFWN | SA106B   | XXH            | SA516-70N              | UW16.1C      | HEAD     |
| RECYCLE GAS IN                 | 1   | 6"            | RFWN | SA106B   | XXH            | SA516-70N              | UW16.1C      | SHELL    |
| DRAIN                          | 1   | 2"            | RFWN | SA106B   | XXH            | SA516-70N              | UW16.1C      | HEAD     |
| INSPECTION                     | 2   | 4" RFWN       | RFWN | SA333GR6 | XXH            | SA516-70N              | UW16.1C      | SHELL    |
| CHEMICAL INLET                 | 1   | 1 1/2"        | CPLG | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| LG                             | 2   | 3/4"          | CPLG | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |

11. Supports: Skirt **YES** Lugs (No.) \_\_\_\_\_ Legs (No.) \_\_\_\_\_ Other (Describe) \_\_\_\_\_ Attached **BOTTOM HEAD WELDED**  
(yes or no) (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, Mfgr's. name and identifying stamp)  
**SHELL CONE 42' X 36' OD X 1.875' THK 20' HALF ANGLE CONSTRUCTION DRAWING B5951-260 A & B rev 0**  
**HEAR CONTACTOR (V-200)**  
**VOLUME=52 cu. m 184 cu. ft.**

**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. 16081 expires **SEPTEMBER 26**, 19**98**.  
Date: **JANUARY 30, 1997** Co. Name: **PRESSION MANUFACTURING LTD.** Signed: \_\_\_\_\_ (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by **PRESSION MANUFACTURING LTD.** at **NISKU, ALBERTA**, I, 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 BOILER SAFETY ASSOCIATION** have inspected the component described in this Manufacturer's Data Report on **JANUARY 30**, 19**97**, 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 **JANUARY 30, 1997** Signed: \_\_\_\_\_ (Authorized Inspector) Commissions **Alberta #31** 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

408673  
 Form U-4

1. Manufactured and certified by PRESSON MANUFACTURING LTD. 2103 - 8 ST., NISKU, ALBERTA, CANADA T9E 7Z1  
 (Name and address of Manufacturer)

2. Manufactured for RENAISSANCE ENERGY LTD. 3000, 425-1st. STREET S.W. CALGARY, ALBERTA. T2P 3L8  
 (Name and address of Purchaser)

3. Location of installation STOCK  
 (Name and address)

4. Type VERTICAL HEAR H2S CONTACTOR 5951-20  
 (Horiz., vert. or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)

N4126.2 B5951-260 A&B rev 0 1997  
 (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

Data Report Item Number TEN Remarks

| Purpose ( Inlet, Outlet, Drain) | No. | Diameter | Type  | Material | Nom. Thickness | Reinforcement Material | How Attached | Location |
|---------------------------------|-----|----------|-------|----------|----------------|------------------------|--------------|----------|
| SKIM                            | 1   | 1 1/2"   | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| FILL                            | 1   | 1 1/2"   | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| T.I./P.I.                       | 2   | 3/4"     | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| CHEMICAL INLET                  | 1   | 1 1/2"   | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| TRAY DRAIN                      | 1   | 1 1/2"   | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| LIQUID OUTLET                   | 1   | 1 1/2"   | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| VENT                            | 1   | 1"       | CPLG  | SA105    | 6000#          | —                      | UW16.1C      | SHELL    |
| MANWAY                          | 1   | 18"      | RFLWN | SA350LF2 | 600#           | SA517-70N              | UW16.1C      | SHELL    |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |
|                                 |     |          |       |          |                |                        |              |          |

Certificate of Authorization: Type U No. 16081 Expires SEPTEMBER 26 1998

Date JANUARY 30, 1997 Name PRESSON MANUFACTURING LTD. Signed [Signature]  
 (Manufacturer) (Representative)

Date JANUARY 30, 1997 Name [Signature] Commission Alberta #3  
 (Authorized Inspector) (Nat'l. Board incl. endorsement, State, Province and No.)