

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) **431756**  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by WELLS-HALL FABRICATION & CONSTRUCTION LTD., 6115-30 Street N.W., EDMONTON, AB T6J 1J8  
(Name and address of manufacturer)

2. Manufactured for PEMBINA RESOURCES, 707-8TH AVE S.W., CALGARY, AB. T6C 2M7  
(Name and address of purchaser)

3. Location of installation MORRIN 11-16-31-20 (34 M)  
(Name and address)

4. Type VERT. SEPARATOR 96-8771-1 M2318.2 33-A-7006-7 N/R 1997  
(Name, or vert. tank) (Mfg.'s serial No.) (CRN) (Drawing No.) (Nat'l Bo. No.) (Year built)

5. The chemical and physical properties of all parts must 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  
(Date)

6. Shell: SA-516-70 MT 0.875" 0.125" 34.250" 10'-0" S/S  
(Mat'l. (Spec. No., Grade) (Nom. Thk. (in.) (Corr. Allow. (in.) (Diam. I.D. (ft. & in.) (Length (overall) (ft. & in.)

7. Seams: TYPE I FULL 100% 1150°F ONE HR. TYPE I FULL ONE  
(Long. (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 MT Mat'l. SA-516-70 MT  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top Bottom Ends)	Minimum Thickness (inches mm)	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Aprox. Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) TOP	0.960"	0.125"			2:1				CONCAVE
(b) BOTTOM	0.960"	0.125"			2:1				CONCAVE

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

9. MAWP (4964 KPa) 720 psi at max. temp. (38°C) 100 °F  
 Min. design metal temp. (-29°C) -20 °F at 720 psi Hydro., pneu., or comb. test pressure (7446 kPa) 1080 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam. or Size (inches mm)	Type	Mat'l.	Nom. Tnk.	Reinforcement Mat'l.	How Attached	Location
INLET	1	8"	RFWN/PIPE	SA-105N/SA-106B	300# XII / SCH. 160	0.375" X 12" SA-516-70 MT	WELDED	SHELL
OUTLET / INSPECTION	1	8"	RFWN/PIPE	SA-105N/SA-106B	300# XII / SCH. 160	0.375" X 12" SA-516-70 MT	WELDED	TOP HEAD
LSH/LC (WATER) INSPECTION / LC OIL / PSV	5	3"	RFWN/PIPE	SA-105N/SA-106B	300# / SCH. 160	1/2" X 6.625" SA-516-70 MT	WELDED	SHELL
DRAIN / WATER OUT / OIL OUT	3	2"	RFWN/PIPE	SA-105N/SA-106B	300# / SCH. 160	N/R	WELDED	SHELL & BTM HEAD
LG WATER / LG OIL / PI	6	1 1/2"	RFWN/PIPE	SA-105N/SA-106B	300# / SCH. XXH	N/R	WELDED	SHELL

11. Supports: Skirt YES Lugs 2 (LEFT) Legs 0 Other N/A Attached WELDED TO BOTTOM HEAD  
(Y or no) (No) (No) (Describe) (Where to 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

36" OD X 10'S/S X 720 PSIG X 0.125" C.A. VERTICAL SEPARATOR. IMPACTS EXEMPT PER UG-20(f) & UCS-66. (96-71)  
RADIOGRAPHY PER UW 11(a) RTI (100%). AS BUILT DWG. 37-A-8771-2 WT. 5700 LBS. VOL. 63.6 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. 19595 expires July 31, 19 99  
 Date Jan 22/97 Co. Name WELLS-HALL FABRICATION & CONSTRUCTION LTD. Signed R Wood  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by WELLS-HALL FABRICATION & CONSTRUCTION LTD. at EDMONTON, 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 Jan 22, 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 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 in connection with this inspection  
 Date 97-1-22 Signed R Hayes Commissions Alberta 39R  
(Authorized Inspector) (Nat'l Board (include endorsements), State, Prov. and No.)