

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

A459164

1. Manufactured and certified by BLACK, SIVALLS & BRYSON (CANADA) LTD. 2314 - 8 ST., NISKU, AB T9E 7Z2
(Name and address of manufacturer)

2. Manufactured for ENCAL ENERGY LTD. 1800, 421-7 AVENUE S.W., CALGARY, AB T2P 4K9
(Name and address of purchaser)

3. Location of installation 16-8-73-3W6
(Name and address)

4. Type VERT. SEPARATOR 001050-C01 V3 L6898.21 30-CL-11361 REV.A -- 2000
(Type of vessel) (Mfg's serial No.) (CRN) (Drawing No.) (Next. 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, 1998
Year

to 1999 -- --
Addenda (Date) Code Case Nos. Special Service per UG 120(h)

6. Shell: SA-106-B 1.031" 0.125" 1'-4" O.D. 7'-6"
Mat. (Spec. No. Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: SEAM N/A 100% 1125 1.25 TYPE 1 FULL 1
Long. (Welded, Dbl. Singl. Lap, Butt) R.T. (Spot or Full) EH (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Singl. Lap, Butt) R.T. (Spot or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N
Spec. No., Grade (Spec. No., Grade)

	Location (Top, Bottom, End)	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	0.900"	0.125"	--	--	2:1	--	--	--	CONCAVE
(b)	BOTTOM	0.900"	0.125"	--	--	2:1	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) --
(Matl., 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 1872 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
SEE U4 REPORT								

11. Supports: Skirt YES Lugs -- Legs -- Other -- Attached WELDED - HEAD (b)
(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's name and identifying stamp)

IMPACT EXEMPT PER UCS-66 & UG-20(f)
VOLUME = 11.7 CUBIC FEET
CONSTRUCTION DRAWING NUMBER 30-CL-11907 REV.A

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. 27894 expires AUG. 8, 2003
 Date 11/21/00 Co. name BLACK, SIVALLS & BRYSON (CANADA) LTD. Signed [Signature]
(Manufacturer) (Inspector)

CERTIFICATE OF SHOP INSPECTION
 Vessel constructed by BLACK, SIVALLS & BRYSON (CANADA) 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 ABSA
 have inspected the component described in this Manufacturer's Data Report on NOV. 21, 19 2000, 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 2000-11-21 Signed [Signature] Commissions AB#132
(Authorized Inspector) (Not a Board (incl. endorsements), State, Prov. and No.)

