

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

① 476352

1. Manufactured and certified by Opasco Energy Industries Ltd., 2601 Centre Ave East, Calgary, AB T2A 2L1
 (Name and address of manufacturer)

2. Manufactured for Anadrarke Canada Ltd., 400-840 7th Ave., S.W., Calgary, Ab T2P 3G2
 (Name and address of purchaser)

3. Location of installation British Columbia 9-26-L/94-B-8

4. Type Horiz., Separator (Name and address) 01-3584-1 (Drawing No.) Y-01-3584-2124 R.4 (Mfg's serial No.) N/A (Year built)
 (Type or vessel tank) (CRH)

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

to 2001 Addenda (date) N/A Special service per UG-120(d) 16'-0"
 Code Case Nos. 1.750" 3'-9.5"
 6. Shell: SA-516-70 N Mat'l (Spec. No., Grade) 0.125" Type 1 Diam. I.D. (ft. & in.) 16'-0"
 Nominal Thk. (in.) 100% 1.75 Time (hr) 2
 7. Seams: Full H.T. Temp. (F) 1150 Girth (Welded Dbl., Singl., Lap, Butt) SA-516-70 N
 R.T. (Spot or Full) Full Effic. (%) 100% H.T. Temp. (F) 1150 Time (hr) 1.75 R.T. (Spot, Partial or Full) Full No. of Courses 2
 8. Heads: (a) Mat'l SA-516-70 N (Spec. No., Grade) SA-516-70 N (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 Pres (Con c/c or nr)
(a) Both Ends	1.6875"	0.125"			2:1				Concave
(b)									

if removable, bolts used (describe other fasteners)

9. MAWP 1375 psi at max. temp 1375 °F at 1375 Psi 2063 psi
 Min. Design Metal Temp. **20 °F at 1375 Psi Hydro., pneu., or comb. test

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l	How Attached	Location
Inlet/Outlet	2	6"	CI 600 RFLWN	SA-105 N	1.38"	Integral	Fig. UW-16.1(c)	
HC DUMP/PSY	2	3"	CI 600 RFLWN	SA-105 N	0.81"	Integral	Fig. UW-16.1(c)	
WB/DRAIN/PD/H/C-B	6	2"	CI 600 RFLWN	SA-106B/SA-105N	.343"	Integral	Fig. UW-16.1(c)	
Pressure Ind.	1	0.75"	CI 600 RFLWN	SA-105 N	0.57"	Integral	Fig. UW-16.1(c)	
Temp. Ind.	1	1"	CI 600 RFLWN	SA-105 N	0.56"	Integral	Fig. UW-16.1(c)	
Manway	1	16"	CI 600 RFHB	SA-105 N	2.69"	Integral	Fig. UW-16.1(c)	
WD/WB/H/C BRIDLE	3	2"	CI 600 RFLWN	SA-105 N	0.66"	Integral	Fig. UW-16.1(c)	

11. Supports: Skirt _____ Lugs 2 Other _____ Legs 2 Attached _____ Welded _____
 (Yes or no) (No.) (Describe)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

Impact Testing: **Required as per UCS-66(a) and UCS-67(a) (Name of part, item number, Mfg's name, and identifying stamp)
 Tag No.: Y-110 Volume: 174.5 Cu.Ft (4.94 Cu.M.) Radiography per: ** As per UW-11(a) and UW-51
 A No: _____

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. 21.356 expires July 21, 2004

Date: March 26, 2002 (mm/dd/yyyy) Co. Name Opasco Energy Industries Ltd. Signed _____ (Representative)
 (Manufacturer)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Opasco Energy Industries Ltd. at Calgary, Alberta, Canada
 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, Alberta Boilers Safety Association
 and employed by _____ on March 26, 2002
 have inspected the component described in the Manufacturer's Data Report on _____, 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 the 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 March 26, 2002 (mm/dd/yyyy) Signed _____ (Authorized Inspector) Alberta Commissions _____ (NABT BM (incl. endorsements), State, Prov and No.)