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

(A) 2956653

1. Manufactured and certified by **ENERFLEX SYSTEMS LTD. 7720 - 48 STREET S.E. CALGARY, ALBERTA, CANADA T2C 2V6**
(Name and address of manufacturer)

2. Manufactured for **Amoco Canada Petroleum Ltd. c/o Quest, An Alliance Corporation, #5, 702 - 2 St. S.W., Calgary, AB T2P 2W1**
(Name and address of purchaser)

3. Location of installation **ISLAND LAKE** 10-19-66-24-W4M
(Name and address)

4. Type **STG. 1 SCRUBBER** (Horizontal or vert. tank) | **93113-01** (Mfgr's serial No.) | **K-8068.2** (CRN) | **VE93113A Rev.1** (Drawing No.) | **N/A.** (Nat'l Bd. No.) | **1994** (Year)

5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSELS CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 **1992** (Year)

to **1992** Addenda (date) | **N/A** Code Case No. | **N/A** Special service per UG-120(d)

6. Shell **SA516-70N** (Mat'l (Spec. No., Grade)) | **.625"** (Nominal Thk.) | **.125"** (Corr. Allow.) | **24"** (Diameter (I.D.)) | **8'-3/32"** (Length (overall))

7. Seams **W.S.B.** (Long. (Weld Dbl., Sngl., Lap, Butt)) | **FULL** (R.T. (Spot or Full)) | **100%** (Effy. (%)) | **1150°F** (H.T. Temp. (F)) | **1 HR.** (Time (hr)) | **W.S.B.** (Girth (Welded Dbl., Sngl., Lap, Butt)) | **FULL** (R.T. (Spot, Partial or Full)) | **1** (No. of Courses)

8. Heads (a) Mat'l **SA516-70N** (Spec. No. Grade) (b) Mat'l **SA516-70N** (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 (Conc/Conv)
(a)	TOP	.563"	.125"			2:1 SE				CONCAVE
(b)	BOTTOM	.563"	.125"			2:1 SE				CONCAVE

If removable, bolts used (describe other fasteners) (Material Specification No. Gr., Size, No.)

9. MAWP **655PSIG** at max. temp **300°F**
Min. Des. Met. Temp **-20°F** at **655PSIG** Hydro, pneu, or comb. test pressure **983PSIG**

10. Nozzles, Inspection and safety valve openings

Purpose (Inlet, Outlet,	No.	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
INLET	1	6"	RFWN	SA-106-B	.562"	SA516-70N	WELDED	SHELL
OUTLET	1	6"	RFWN	SA-106-B	.562"	SA516-70N	WELDED	SHELL
LEVEL SENSOR	1	2"	TOL	SA-105N	6000#		WELDED	SHELL
LEVEL CONT.	1	2"	TOL	SA-105N	6000#		WELDED	SHELL
AUTO DUMP	1	1"	TOL	SA-105N	6000#		WELDED	SHELL
BOTTOM DRAIN	1	1-1/2"	NPTM	SA-106-B	.400"		WELDED	HEAD
LEVEL GAUGE	2	3/4"	TOL	SA-105N	6000#		WELDED	SHELL
INSP/CLNOUT	2	2"	TOL	SA-105N	6000#		WELDED	HEAD/SHELL

11. Supports Skirt **YES** (Yes/no) Lugs **N/A** (No.) Leg **N/A** (No.) Other **N/A** (Describe) Attached **WELDED TO BOTTOM HEAD** (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)

SERVICE: SOUR GAS

CUBIC CAPACITY: 21 CUBIC FEET

TESTING: NO CHARPY IMPACT TEST REQUIRED PER UG-20(f) 1 THROUGH 5

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 **16744** expires **JUNE 19, 1996**

Date MAY 17/94 Co. Name **ENERFLEX SYSTEMS LTD.** (Manufacturer) Signed _____ (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by **ENERFLEX SYSTEMS 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** and employed by **ALBERTA LABOUR, BOILER AND PRESSURE VESSEL SAFETY**

have inspected the component described in the Manufacturer's Data Report _____ May 25 19 94, 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 94-05-25 Signed _____ (Authorized Inspector) Commission **ALBERTA #41** (Nat'l Brd(incl.endorsments), State, Prov. and No.)