

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

(A) 2944410  
 (A) 2944410

1. Manufactured and certified by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. 5203 75 STREET EDMONTON, ALBERTA  
 (Name and address of manufacturer)  
 2. Manufactured for TEXACO CANADA c/o TARTAN ENGINEERING 700 6TH AVENUE SW CALGARY, ALBERTA  
 (Name and address of purchaser)  
 3. Location of installation a-39F/94-C8  
 (Name and address)  
 4. Type Vertical H-5277.1 A-17769 R2 1994  
 (Type or vertical tank) (ICN) (Drawing 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 1992  
 Year

TO A-1992 Code Case No. \_\_\_\_\_  
 Address (Date)  
 6. Shell: SA-516-70 N Mat. (Spec. No., Grade) 1.125 Nom. Thk. (in) .125 Corr. Allow. (in) 24" OD Diam. I.D. (ft. & in.) 28' - 0" Length (overall) (ft. & in.)  
 7. Seams: Welded Sngl Full R.T. (Spot or Full) 100 Eff. (R) 1.13 Tack (In) Welded Sngl Full (UW-11a) 3 No. of Courses  
 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, Sngl., Lap, Butt) or Full  
 8. Heads: (a) Mat. SA-516-70 N (b) Mat. \_\_\_\_\_ (Spec. No., Grade) SA-516-70 N

(If removable, bolts used (describe other fastenings))

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) Top	1.030	.125			2-1				Concave
(b) Bottom	1.090	.125			2-1				Concave

9. MAWP 1440 psi at max. temp. 125 (Mat., Spec. No., Gr., Size, No.)  
 Min. design metal temp. -20 °F at 1440 psi. Hydro., pres., or comb. test pressure 2160 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam or size	Type	Mat.	Nom. Thk	Reinforcement Mat.	How Attached	Location
Inlet	1	4" RFWN	600#	SA-105N/106B	Sch 160	SA-516-70	Welded	Shell
Outlet	1	4" RFWN	600#	SA-105N/106B	Sch 160	SA-516-70	Welded	Top Head
Relief	1	1" RFWN	600#	SA-105N/106R/420WPLC	Sch XXH		Welded	Shell
Press. Ind	1	2" RFWN	600#	SA-105N/106B	Sch 160		Welded	Shell

11. Supports: Skirt Yes Lugs No Legs No Other Attached Welded to Bottom Head  
 (Yes or no) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Date Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: Impact Test Exempt UCS 66(c)  
 (Name of part, item number, Mfg's name and identifying stamp)  
3 Phase Glycol Contactor Capacity 2.0 m<sup>3</sup>

**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. 14259 expires October 7, 1995.  
 Date 94-3-20 Co. name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. Signed \_\_\_\_\_ (Manufacturer)  
 Vessel constructed by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. at EDMONTON  
 I, ALBERTA and employed by PROVINCE OF ALBERTA  
 have inspected the component described in this Manufacturer's Data Report on March 16, 1994, 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 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 the inspection.  
 Date March 16, 1994 Signed \_\_\_\_\_ (Authorized Inspector) ALBERTA 333 (Mat'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**

*(A) 2944410*

1. Manufactured and certified by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD., 5203.75 STREET EDMONTON, ALBERTA  
(Name and address of Manufacturer)

2. Manufactured for TEXACO CANADA c/o TARTAN ENGINEERING 700 6th AVENUE SW CALGARY, ALBERTA  
(Name and address of Purchaser)

3. Location of installation a-39F/94-C8  
(Name and address)

4. Type: Vertical 3 Phase Glycol Contactor 93C-5055-01  
(Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)

H-5277.1 A-17769 R2 1994  
(CRN) (Drawing No.) (Net'l. Bd. No.) (Year built)

**Date Report Item Number**

				Remarks
Temp Ind	1	2"RFWN	600# SA-105N/106B	Sch 160 Welded Shell
LIQ Outlet	1	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Glycol Coil	2	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Glycol Out	1	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Glycol Inlet	1	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Level Control/Insp	1	4"RFWN	600# SA-105N/106B	Sch 160 SA-516-70 Welded Shell
Level Gauge	2	2"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Level Gauge	2	2"RFWN	600# SA-105N/106B	Sch 160 Welded Shell
Level Control	1	4"RFWN	600# SA-105N/106B	Sch 160 SA-516-70 Welded Shell
Oil Outlet	1	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
Chimney Tray Drain	1	2"RFWN	600# SA-105N/106B	Sch 160 Welded Shell
Tray Drains	8	2"RFWN	600# SA-105N/106B	Sch 160 Welded Shell
Equalizer	1	1½"RFWN	600# SA-105N/106B	Sch XXH Welded Shell
H.L.S.D.	1	4"RFWN	600# SA-105N/106B	Sch 160 SA-516-70 Welded Shell
Inspection	1	3"RFWN	600# SA-105N/106B	Sch 160 SA-516-70 Welded Shell
Drain	1	2"RFWN	600# SA-105N/106B/234#PB	Sch 160 Welded Bottom Head

Certificate of Authorization: Type U No. 14259 Expires October 7 19 95

Date 24-3-10 Name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. Signed [Signature]  
(Manufacturer) (Representative)

Date March 10/94 Name [Signature] Commission ALBERTA-33  
(Authorized Inspector) (Net'l Board Incl. endorsement, State, Province and No.)