

**FORM A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) **A 2877363**  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. 5203 - 75 ST. EDMONTON, ALBERTA  
 (Name and address of manufacturer)

2. Manufactured for CZAR RESOURCES 8312 ALASKA ROAD FORI ST. JOHN, BRITISH COLUMBIA (A) 2877363  
 (Name and address of purchaser)

3. Location of installation HELMIT A-716/94 P10  
 (Name and address)

4. Type VERTICAL (Drawing No.) H-3319.1 A-17054 (Year built) 1993  
 (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.

to A - 1992 Code Case No. \_\_\_\_\_ Special Section per UG-120(d) \_\_\_\_\_

6. Shell: SA-516-70 N Min. Thick. (in.) 1.750" Cor. Allow. (in.) .125 Diam. I.D. (ft. & in.) 36"00 Length (overall) (ft. & in.) 28'-0"

7. Seams: Welded DBL Full R.T. (Spot, Partial, or Full) Full (UG-11a) No. of Courses 3  
 Long (Welded Dbl. or Full) \_\_\_\_\_ Sing. Lap, Buttl. \_\_\_\_\_

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

Location (Top Bottom Ends)	Minimum Thickness	Corrosion Allowance	Open Joints	Knockout Radius	Geometrical Radius	Convex Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	1.700	.125			2 - 1				Concave
(b) Bottom	1.664	.125			2 - 1				Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_ (Matl. Spec. No. Gr. Size, No.) \_\_\_\_\_

9. MAWP 1415 psi at max. temp. 150 psi Hydro. pump. or comb. test pressure 2123 psi.

10. Nozzles, inspection and safety valve openings

Purpose (Inlet Outlet Drain)	No.	Diam. or Size	Type	Matl.	Thick.	Reinforcement Matl.	How Attached	Location
Gas Inlet	1	6" RFWN	600#	SA-350 LF2/	Sch. 160		Welded	Shell
Gas Outlet	1	6" RFWN	600#	SA-350 LF2/	Sch. 160		Welded	Head
Level Control	1	2"	10L	SA-105	6000#		Welded	Shell
Level Control	1	2"	10L	SA-105	6000#		Welded	Shell

11. Supports: Skirt Yes Lugs \_\_\_\_\_ Other \_\_\_\_\_ Attached Welded to Bottom Head  
 (Yes or No) \_\_\_\_\_ (No.) \_\_\_\_\_ (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: Impact to -10°F as UCS 84/FLG's Impact test exempt UCS 66Lc  
 (Name of part, item number, Mfg.'s name and identifying stamp)

3 PHASE GLYCOL CONTACTOR CAPACITY 4.70 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 Sept 16/93 Co. name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD (Manufacturer) \_\_\_\_\_ (Representative) \_\_\_\_\_

Vessel constructed by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. at EDMONTON  
 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 PROVINCE OF ALBERTA

have inspected the component described in this Manufacturer's Data Report on SEP. 16, 19 93, 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 SEP. 16/93 Signed [Signature] Commissions ALBERTA #37  
 (Authorized Inspector) \_\_\_\_\_ (Name, Board (incl. endorsements), State, Prov. and No.) \_\_\_\_\_

**FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET (A) 2877363**  
**As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

1. Manufactured and certified by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. 5203 - 75 St. EDMONTON, ALBERTA  
(Name and address of Manufacturer)

2. Manufactured for CZAR RESOURCES 8312 ALASKA ROAD FORT ST. JOHN, BRITISH COLUMBIA  
(Name and address of Purchaser)

3. Location of installation HELMIT A-71G/94 P10  
(Name and address)

4. Type: Vertical GLYCOL CONTACTOR 93C - 4948 - 01  
(Horiz., vert., or sphere) (Task separator, heat exch., etc.) (Mfg's serial No.)

H-3319.1 A - 17054 1993  
(CRN) (Drawing No.) (Year built)

Data Report Item Number	Remarks
Level Gauge	2 3/4" TOL SA-105 6000# Welded Shell
Level Gauge	2 3/4" TOL SA-105 6000# Welded Shell
Press Ind	1 1" TOL SA-105 6000# Welded Shell
Temp Ind	1 3/4" TOL SA-105 6000# Welded Shell
Water Out	1 1" CPLG SA-105 6000# Welded Shell
Oil Outlet	1 1" TOL SA-105 6000# Welded Shell
HTG Coil	2 1" CPLG SA-105 6000# Welded Shell
Glycol Inlet	1 1" TOL SA-105 6000# Welded Shell
Glycol Outlet	1 1" TOL SA-105 6000# Welded Shell
Tray Drain	1 1" TOL SA-105 6000# Welded Shell
Tray Drains	8 1/2" TOL SA-105 6000# Welded Shell
Inspection	1 2" TOL SA-105 6000# Welded Shell
P.S.V.	1 1 1/2" TOL SA-105 6000# Welded Shell

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

Date Sept 16 1993 Name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. Signed [Signature]  
(Manufacturer) (Representative)

Date SEP. 16/93 Name [Signature] Commission ALBERTA #37  
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)

(12/91) This form (E001118) may be obtained from the ASME Order Dept., 22 Law Drive, Jox 2300, Fairfield, NJ 07007 2300 REPRINT 9/92