

**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 (A) 411775**

1. Manufactured and certified by Corlac Industries Ltd. Box 1491, Lloydminster, Alberta S9V 1K5  
(Name and address of manufacturer)

2. Manufactured for Gulf Canada Inc., Box 130 Station M, 401-9th Avenue S.W., Calgary, Alberta  
(Name and address of purchaser)

3. Location of installation 12-02-45-01 W5M

4. Type Inclined (Type of vessel) FWK-040 (Mfg's serial No.) 16426.21 (CRN) 99-COR-LPMEWKO.16.01 Rev E (Drawing No.) 1998 (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

10. 1999 (Year)

6. Shell SA-516-70N (Material) 175" (Code Case No.) 36" (Nominal shell thickness)  
Num. Tlk. (in.) 250" (Cor. Allow. (in.)) 60 (Length (in.))

7. Seams Welded (Long, Welded, Dbl., Singl., Lap, Butt) Full (R.T., Spot or Full) 1100 (H.T. Temp. (F.)) 30 min (Time (hr)) Welded (Grd. Welded, Dbl., Singl., Lap, Butt) 7 (No. of Courses)

8. Heads at Mail SA516-70N (Spec. No., Grade) SA516-70N (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Full Diameter	Subj. to Pressure
(a) Top	.3125	.125			2:1				Concave
(b) Bottom	.3125	.125			2:1				Concave

If removable, bolts used (describe other fastenings)

9. MAWP 100 (Psi at max. temp) 212 (Psi)  
 Min design metal temp. -20 (°F at) 100 (Psi) 150 (Test pressure)

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam Or Size	Type	Mail	Nom. Thk.	Reinforcement	Attachg.	Locatn.
Manway Inlet	1	20"	RFWN	SA1068	.812	N/A	UW16 T-C	Head
Oil outlet	1	6"	RFWN	SA1068	.864	N/A	UW16 T-C	Shell
Water outlet	1	4"	RFWN	SA1068	.317	N/A	UW16 T-C	Shell
Supports Skirt					.412	N/A	UW16 T-C	Shell

11. Supports Skirt 2 (Yes or No) Attached (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:

Capacity 10.96 M<sup>3</sup> PSV installed by others. Impact testing not available per UG 209 (c-5) (2)

**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. 30498 expires Aug 26, 2001  
 Date Nov 11 1999 Co. name Corlac Industries Ltd Signed [Signature] (Manufacturer) Representative

**CERTIFICATE OF SHOP INSPECTION**  
 Vessel constructed by Corlac Industries Ltd. at Lloydminster, 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 Alberta Boilers Safety Association  
 have inspected the component described in this Manufacturer's Data Report on November 11, 1999 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 a 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 99-11-11 Signed [Signature] (Authorized Inspector) Commissions Alta 5401 (National Board and Endorsements, State Prov. Aut)

(A) 4/1/725

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

- 1 Manufactured and certified by Corfac Industries Ltd Box 1491 Lloydminster, Alberta S9V 1K5  
(Name and Address of Manufacturer)
  - 2 Manufactured for Gulf Canada Inc Box 130 Station M, 401 - 9<sup>th</sup> avenue S.W. Calgary, Alberta  
(Name and Address of Purchaser)
  - 3 Location of installation 12-02-45-01 WSM  
(Name and Address)
  - 4 Type Inclined Free Water Knock Out FWK-040  
(HORIZ. VERT. OR SPERE) (Tank, separator, heat exch. etc.) (Tag's serial No.)
- L6426.23 99-COR-LPMFWKO-36-01 Rev E 1999  
(CRN) (Drawing No.) (Year built)

Data Report Item Number	Remarks							
Purpose	No.	Diameter	Type	Material	Thk.	Repad	Attached	Location
Low level shut off	1	4"	RFWN	SA10 <sup>3</sup>	.337	N/A	UW16.1 (c)	Shell
Gas out	1	4"	RFWN	SA106B	.337	N/A	UW16.1 (c)	Shell
Level controller	1	4"	RFWN	SA106B	.337	N/A	UW16.1 (c)	Shell
Desand	1	2"	RFWN	SA106B	.218	N/A	UW16.1 (c)	Shell
Interface controller	2	4"	RFWN	SA106B	.337	N/A	UW16.1 (c)	Shell
Interface sight glass	2	2"	RFWN	SA106B	.436	N/A	UW16.1 (c)	Shell
PSV	1	4"	RFWN	SA106B	.337	N/A	UW16.1 (c)	Shell
Spare	1	2"	RFWN	SA106B	.218	N/A	UW16.1 (c)	Shell
L.C	2	2"	RFWN	SA106B	.436	N/A	UW16.1 (c)	Head
Oil sight glass	2	2"	RFWN	SA106B	.436	N/A	UW16.1 (c)	Head
Sample lines	2	1"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
Sample lines	1	1"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
T.I.	1	1"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
Oil sight glass	6	1"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
P.I.	1	1"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
Relief valve	1	2"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell
L.L.C.	1	2"	CPLG	SA105N	6000#	N/A	UW16.1 (c)	Shell

Certificate of Authorization: Type "U" No. 30498 Expires August 26 2001

Date Nov 11 1999 Name Corfac Industries Ltd. Signed [Signature]  
(Manufacturer)

Date 99 11 11 Name [Signature] Commission ALTA 54(C)  
(Authorized Inspector) (Name and Address of Endorsement State, Province and No.)

(12/91) REPRINT 5/96

This form (E00118) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300