

**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

① 247613

1. Manufactured and certified by PROPAK SYSTEMS LTD., 505 EASTLAKE BLVD., AIRDRIE, T2P 3Y7  
 (Name and address of manufacturer)

2. Manufactured for PETRO CANADA RESOURCES LTD., 150 - 6th AVENUE S.W., CALGARY, ALBERTA T2P 3Y7  
 (Name and address of purchaser)

3. Location of installation L.S.D.NO. D-43-J/94-A-15  
 (Name and address)

4. Type VERTICAL (Horizontal or vertical tank) 88181-AA (Mfg's serial No.) F7747.1 (CRN) E-SEP-88181-101 REV. 1 (Next, Bd. No.) N/A (Year built) 1988

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

6. Shell: SA-516-70 (Matl.) 1987 (Date) 2051 (Code Case No.) Special Service per UG-120(d)  
SA-516-70 (Spec. No., Grade) .750" (19) (Nom. Thk. (in.)) .125" (3.2) (Corr. Allow. (in.)) 1' - 4.5" (419) (Dim. I.D. (ft. & in.)) 7' - 6" (2286) (Length (overall) (ft. & in.))

7. Seams: SINGL(GMAW-S ROOT) FULL (Long. (Welded, DR, Sing., Lap, Butt)) 100 (Eh. (in.)) 1150(621) (1) (Time (hr)) 1 (No. of Courses)  
SINGL(GMAW-S ROOT) FULL (R.T. (Spot or Full)) SA-516-70 (Spec. No., Grade) SA-516-70 (R.T. (Spot, Parallel, or Full))

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

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	74" (18.8)	125" (3.2)			2:1				CONCAVE
(b) BTM	74" (18.8)								

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

9. MAWP 1158 (7985 kPa) psi at max. temp. 212 (100 DEG C) of 1737 (-1978 kPa) psi.  
 Min. design metal temp. -20 (-29°C) of ac 1158 psi. Hydro., pneu., or comb. test pressure \_\_\_\_\_ psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
INLET	N1	2" (60)	RFWN	SA-333-6	XXS	NIL	WELDED	SHELL
GAS OUT	N2	"	"	"	"	"	"	HEAD
INSP.	N3	4" (114)	"	SA-106-B	"	"	"	SHELL
L.C.	N4	3" (89)	"	"	"	"	"	"

11. Supports: Skirt YES (Yes or no) 2 Legs N/A Other Attached (Describe) HEAD-WELDED (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, mfg'r's name and identifying stamp)

VOLUME: 12.3 FT3 (.35 M3)  
TAG NUMBER: PV-101  
VESSEL TYPE: INLET SEPARATOR  
EXEMPT FROM IMPACT TESTING  
PER U.G. 20 F

**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. 21387 1988 AUG. 4 19 89  
 Date Oct. 11/88 Co. name PROPAK SYSTEMS LTD. (Manufacturer) Signed \_\_\_\_\_ (Authorized Inspector)

Vessel constructed by PROPAK SYSTEMS LTD. at \_\_\_\_\_  
 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 LABOUR-GENERAL SAFETY SERVICES DIVISION and employed by \_\_\_\_\_, 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 1988/10/11 Signed \_\_\_\_\_ (Authorized Inspector) \_\_\_\_\_ (Manufacturer) \_\_\_\_\_ (Commissioned Inspector)

This Form (E00117) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 (12/87)

(A) 247613

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 PROPAK SYSTEMS LTD., 505 EASTLAKE BLVD., AIRDRIE, ALBERTA  
(Name and address of manufacturer)
- 2. Manufactured for PETRO CANADA RESOURCES LTD., 150 - 6th AVE. S.W. CALGARY, ALBERTA T2P 3Y7  
(Name and address of purchaser)
- 3. Location of installation L.S.D. NO.: D-43-J/94-A-15  
(Name and address)
- 4. Type VERTICAL (88181-AA) (F7747.1) (E-SEP-88181-101 REV. 1) (N/A) 1988  
(HORIZ., VERT., UNK., ETC.) (Mfg'r. serial No.) (CRN) (Dwg) (Mkt. Bd. No.) (Year built)

Data Report Item Number	PURPOSE	NO.	IN" (MM)	TYPE	MATERIAL	THK	REINFORCEMENT	ATTACHED LOCATION
	DRAIN	N5	1" (33)	RFWN	SA-333-6	XXS	NIL	WELDED HEAD
	T.I.	N6	1.5" (48)	"	"	"	"	SHELL
	P.S.V.	N7	1" (33)	"	"	"	"	"
	L.G.	N8	"	"	"	"	"	"
	OUTLET	N9	"	"	"	"	"	"
	P.I.	N10	"	"	"	"	"	"

Remarks

Date Oct. 11/88 Co. name PROPAK SYSTEMS LTD. Signed [Signature]  
 (Manufacturer) (Manufacturer)  
 Date 1988/10/11 Signed \_\_\_\_\_ Commissioned Alberta  
 (Authorized Inspector) (Part. Board Insct. endorsements, State Prov., and No.)