

FORM U-1 N. MANUFACTURER'S DATA REPORT FOR PRE-RE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A231016

- Manufactured and certified by PROPAK SYSTEMS LTD., 505 East Lake Blvd., Airdrie, Alberta T0M 0B0
(Name and address of manufacturer)
- Manufactured for DOME PETROLEUM LTD., 333 7th Avenue S.W., Calgary, Alberta T2P 2Z1
(Name and address of purchaser)
- Location of installation L.S.D., # S.W. 1/4 - 31 - 18 - 19 - W4M
(Name and address)
- Type Horizontal 85339 - "AD" F7005.2 E-EXC-85339-104 1986
(Manufacturer's serial No.) (C.R.N.) (Drawing) (Mater. Id. No.) (Year built)
- 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 1983
Year

Summer 1985

(A) 231016 86-03-07

Special service per UG-120(a)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or sheets of heat exchangers

- Shell: SA-106-B 9.525 1.6 591 8094
Heat (Spec. No., Grade) Nom. Thk. (mm) Corr. Allow. (mm) Diam. I.D. (mm) Length (Overall) (mm)
- Seams: SMLS N/A 100 N/A H.T. Temp. (°C)
Long. (Dbl., Sngl.) R.T. (Spot or Full) EPR. (N) No. of Courses

N/A Corner/Sngl, Mig Root Spot
Time Graph (Dbl., Sngl.) R.T. (Spot, Period, or Full) No. of Courses

- Heads: (a) Matl. SA-516-70-N (Spec. No., Grade) (b) Matl. SA-234-WPB (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 Pressure (Convex or Concave)
(a) END A	63.5	1.6						603	FLAT
(b) END B	9.525	1.6		2:1					CONCAVE

If removable, bolts used (describe other fastenings) 35 Ø x 298 lg. studs c/w 2 Nuts SA-193.87/194.2H
(Matl., Spec. No., Gr., Size, No.)

- Type of Jacket _____ Proof Test _____
- Jacket Closure _____ If bar, give dimensions _____ If bolted, describe or sketch. _____

- MAWP 1724 66 2586 -45
Hydro., pneu., or comb. test press. kPa at max. temp. °C Min. temp. (when less than -30°C) kPa.

Items 12 and 13 to be completed for tube sections

- Tube sheets: Stationary Matl. (Spec. No., Gr.) SA-516 603 63.5 1.6 Bolted
Floating Matl. (Spec. No., Gr.) SA-179 19 14 B.W.G. 55 Attach
Matl. (Spec. No., Grade) O.D. (mm) Nom. Thk. (mm) Nom. Thk. (mm) Corr. Allow. (mm) Number Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

- Shell: SA-106-B 19.05 1.6 318 300
Matl. (Spec. No., Grade) Nom. Thk. (mm) Corr. Allow. (mm) Diam. I.D. (mm) Length (Overall) (mm)
- Seams: SMLS N/A 100 N/A H.T. Temp. (°C)
Long. (Dbl., Sngl.) R.T. (Spot or Full) EPR. (N) No. of Courses

N/A SNG/L/Mig Root Spot
Time Graph (Dbl., Sngl.) R.T. (Spot, Period, or Full)

- Heads: (a) Matl. SA-516-70 (Spec. No., Grade) (b) Matl. _____ (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 Pressure (Convex or Concave)
(a) END		1.6		2:1					CONCAVE
(b)									

If removable, bolts used (describe other fastenings) _____

(Matl., Spec. No., Gr., Size, No.)

- MAWP 6895 38 10343 -30
Hydro., pneu., or comb. test press. kPa at max. temp. °C Min. temp. (when less than -30°C) kPa.

This form (E108SI) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

(10/83)

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

Particulars (Inlet, Outlet, Drain, etc.)	No.	Dim. or Size	Type	Mat.	Exam. Thk.	Reinforcement Mat.	How Attached	Location
S.S. Inlet N1	60	RFWN	SA-105	Sch.160	XXH	SA-106-B	Welded	S.S. Shell
S.S. Outlet N2	168	RFWN	SA-105	XXH	XXH	SA-106-B	Welded	S.S. Shell
T.S. Inlet N3	114	RFWN	SA-105	XXH	XXH	SA-106-B	Welded	T.S. Shell
T.S. Outlet N4	89	RFWN	SA-105	XXH	XXH	SA-106B	Welded	T.S. Shell
Glycol In C4	33	CPIG	SA-105	6000#	6000#		Welded	T.S. Head
Gas Ry-Pass C5	33	CPIG	SA-105	6000#	6000#		Welded	S.S. Shell
L.C. C6	48	CPIG	SA-105	6000#	6000#		Welded	S.S. Head
Test Coupon C14	33	CPIG	SA-105	6000#	6000#		Welded	S.S. Shell

19. Supports: Skirt, No. Lugs, N/A Legs, 4 Other (No.) Attached Welded to S.S. Shell (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

VESSEL TYPE: Gas Chiller

VOLUME: 1.7 M³

TUBE SURFACE AREA: 39.3 M²

TAG NO: E-320

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. 14422

Date Feb 186 Co. name PROPAK SYSTEMS LTD. expires June 30, 1986 Signed [Signature]

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by PROPAK SYSTEMS LTD., at Airdrie, 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 LABOUR-GENERAL SAFETY SERVICES DIVISION

of Alberta have inspected the pressure vessel described in this Manufacturer's Data Report on 7 FEBRUARY, 1986, 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 86-02-07 Signed [Signature] Commisions (Not Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. expires, 19, Signed

Date Co. name (Manufacturer not certified and constructed field assembly) Signed (By Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 , and employed by , have compared the statements in this Manufacturer's Data Report

with the described pressure vessel and state that parts referred to as data items , not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of kPa. 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 Signed Commisions (Not Board, State, Province, and No.)