

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
**(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)** ④ 462558  
**As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

1 Manufactured and certified by PROPAK SYSTEMS LTD, 505 FAST LAKE BOULEVARD, AIRDRIE, ALBERTA, CANADA T4B 2C3  
 (Name and address of manufacturer)

2 Manufactured for Murphy Oil Company, Ltd, 2100, 555-4th Ave., SW, Calgary, Alberta, T2P 3E7  
 (Name and address of purchaser)

3 Location of installation L.S.D. 14-29-96-11 W6M  
 (Name and address of purchaser)

4 Type Horizontal Separator 01129-101 P-5003.2 D-SEP-01129-101 R.1 N/A 2001  
 (Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing no.) (Nat'l Bd. 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  
 1998 Year

to 2000 Addenda (Date) N/A Code Case Nos. N/A Special Service per UG 120(d)  
 (Name and address)

6 Shell SA-516-70N 3.0" Nom. Thk. (in.) 3.0" Corr. Allow. (in.) 6' - 6" Length (overall) (ft. & in.)  
 059" 20' - 0"

7 Seams Type 1 Full R.T. (Spot or Full) Eir (%) H.T. Temp (F) Time (hr) Type 1 Full R.T. (Spot, Partial, or Full) No. of Courses  
 1150° 2.5 100 100 Singl., Lap. Butt SA-516-70N 2

8 Heads (a) Mail SA-516-70N (b) Mail SA-516-70N (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                      | 3.0"              | .059"               |              |                | 2:1              |                    |                      |               | Concave                              |
| (b) End                      | 3.0"              | .059"               |              |                | 2:1              |                    |                      |               | Concave                              |

9 MAMP 1440 psi at max. temp. 1440 psi Hydro. ~~pressure~~ test pressure 100 1872  
 (Mail, Spec. No., Gr., Size, No.)

10 Nozzles, inspection and safety valve openings.

| Purpose (Inlet, Outlet, Drain) | No. | Diam or Size | Type | Mail       | Norm. Thk. | Reinforcement Matl. | How Attached | Location       |
|--------------------------------|-----|--------------|------|------------|------------|---------------------|--------------|----------------|
| Gas Inlet/Outlet               | 2   | 14"          | RFV3 | SA-350-LF2 | 4.125"     | Integral            | UW16.1(c)    | Shell          |
| Bridle                         | 2   | 3"           | RFV1 | SA-350-LF2 | 3.05"      | Integral            | UW16.1(c)    | Shell          |
| Future Bridle                  | 2   | 2"           | RFWN | SA-106-B   | .344"      | Integral            | UW16.1(c)    | Shell/Boot Shl |
| Condensate Out                 | 1   | 3"           | RFWN | SA-106-B   | .600"      | SA-516-70N          | UW16.1(c)    | Shell          |
| Boot Drain                     | 1   | 2"           | RFWN | SA-106-B   | .344"      | Integral            | UW16.1(c)    | Boot Head      |
| Water Outlet                   | 1   | 3"           | RFWN | SA-106-B   | .600"      | Integral            | UW16.1(c)    | Boot Shell     |
| Drain / TI                     | 2   | 2"           | RFWN | SA-106-B   | .344"      | Integral            | UW16.1(c)    | Shell          |

11 Supports Skirt No Lugs Nil Legs Nil Other 2 Saddles Attached Shell-Welded  
 (Yes or no) (No.) (Describe)

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, Mfr's name and identifying stamp)

Inlet Separator, Production impact test performed on long and girth seams per UG84, Impact test shells & heads per UG84, Remainder exempt per UG20(f), UCS66(c) and Fig. UCS66, Tag #: V-310, Volume: 751.14 cu. ft. Built to drawing #: D-SEP-01129-101 R.4  
 Pressure Relief Devices installed by others prior to operation per UG-125.

**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 expires July-12, 2002  
 Date June-18-2001 Co Name PROPAK SYSTEMS LTD Signed [Signature] (Representative)

**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 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 JUN 20 2001 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 JUN 20 2001 Signed [Signature] Commissions ALBERTA (Authorized, Inspector) (Nat'l Board, (incl. endorsements) State, Prov. and No.)

