

FORM U-1A MANUFACTURERS 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

④474462  
Oct 9/01

1. Manufactured and certified by E & D Pipe & Process Equipment Ltd., 2 Bldg. B. 624 Beaverdam Rd, NE, Calgary AB, T2K 4W6  
(Name and Address of Manufacturer)
2. Manufactured for Pride Energy Mfg. Ltd., 9815 48<sup>th</sup> Street SE Calgary, Alberta  
(Name and address of purchaser)
3. Location of installation Pride Energy Mfg. Ltd., 9815 48<sup>th</sup> Street SE Calgary, Alberta Equipment for Stock  
(Name and address)
4. Type Horizontal 11726-2 P6458 2 D-11726-09-01 Rev 0 2001  
(HORIZ or vert. tank) (Mfg's serial No) (CRN) (Drawing No) (Natl 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

6. Shell: SA-516-70N 1.5" 0.125" 6 ft 0 in 10 ft 0 in S/S  
(Addenda (Date)) (Code case Nos) (Special Service per UG-120(d))  
(Matl (Spec. No., Grade)) (Nom Thk (in)) (Corr Allow (in)) (Diam ID (ft & in)) (Length (overall) (ft & in))
7. Seams: Double Butt Full 100 1150 1.5 Double Butt Full 1  
(Long (Welded, Dbl., Singl. Lap, Butt)) (R T (Spot or Full)) (Eff (%) (H T Temp (°F)) (Time (hr)) (Grth (Welded, Dbl., Singl. Lap, Butt)) (R T (Spot, Partial, or Full)) (No of Courses)
8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N  
(Spec No, Grade) (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                         | 1.5               | 0.125               |              |                | 2:1              |                    |                      |               | Concave                              |
| (b) | Manway end                  | 1.5               | 0.125               |              |                | 2:1              |                    |                      |               | Concave                              |

If removable, bolts used (describe other fastenings)

9. MAWP 700 psi at max. temp. 160 F  
Min. design metal temp. -50 °F at 700 psi. Hydro., pneu., or comb. test pressure 910 psi.  
(Matl. Spec No., Gr. Size No)

10. Nozzles, inspection and safety valve openings:

| Purpose (Inlet, Outlet, Drain) | No. | Diam. Or Size | Type | Matl.        | Nom. Thk. | Reinforcement Matl. | How Attached | Location |
|--------------------------------|-----|---------------|------|--------------|-----------|---------------------|--------------|----------|
|                                |     |               |      | SEE ATTACHED | U-4       | FORM                |              |          |
|                                |     |               |      |              |           |                     |              |          |
|                                |     |               |      |              |           |                     |              |          |
|                                |     |               |      |              |           |                     |              |          |

11. Supports: Skirt            Lugs            Legs 2 Other            Attached welded to shell  
(Yes or no) (No) (Describe) (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's. name and identifying stamp)

\* Code UW 11(a) Vol. 348.5 cu. ft. Built to Drwg # D-11726-09-01 Rev 0

Description: Test Separator

Heads, shells, repads over 1.3125", and production welds impact tested @ -46 as per UG 84.

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 28,992 expires June 18, 20 02.  
Date 10/09/01 Co. name E & D Pipe & Process Equipment Ltd. Signed Wanwan  
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by E & D Pipe & Process Equipment Ltd. at 2 Bldg. B. 624 Beaverdam Rd, NE, Calgary, AB  
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 Boiler Safety Association  
Have inspected the component described in this Manufacturer's Data Report on Oct 9, 20 01, 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 Oct 9/01 Signed ALTA #58 Commissions ALTA #58  
(Authorized Inspector) (Natl. Board and endorsements), State Prov. and No.)

474462

**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 E & D Pipe & Process Equipment Ltd., 2. Bldg. B, 624 Beaverdam Rd, NE, Calgary, AB, T2K 4W6  
(Name and address of Manufacturer)
2. Manufactured for Pride Energy Mfg. Ltd., 9815 48<sup>th</sup> Street SE Calgary, Alberta  
(Name and address of Purchaser)
3. Location of installation Pride Energy Mfg. Ltd., 9815 48<sup>th</sup> Street SE Calgary, Alberta Equipment for Stock  
(Name and address)
4. Type: Horizontal Separator 11726-2  
(Horiz. vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's serial No.)
- P6458.2 D-11726-09-01 Rev 0 N/A 2001  
(CRN) (Drawing No.) (Nat'l Bd No.) (Year Built)

Data Report  
Item Number 10  
Continued from Form U1a

Remarks

| Purpose<br>(Inlet, Outlet,<br>Drain) | MK<br>No. | No | Diam.<br>or<br>Size | Type      | Mat'l               | Nom.<br>Thk. | Reinforce-<br>ment Mat'l | How<br>Attached | Location |
|--------------------------------------|-----------|----|---------------------|-----------|---------------------|--------------|--------------------------|-----------------|----------|
| Gas Inlet                            | N1        | 1  | 4                   | 300#/RFWN | SA106-B/SA350-LF2   | 0.531"       | SA516-70N                | UW 16(c)        | Head     |
| Gas Outlet                           | N2        | 1  | 4                   | 300#/RFWN | SA106-B/SA350-LF2   | 0.531"       | SA516-70N                | UW 16(c)        | Shell    |
| Drain                                | N3 a/b    | 2  | 3"                  | 300#/RFWN | SA106-B/SA350-LF2   | 0.438"       | SA516-70N                | UW 16(c)        | Shell    |
| Water Outlet                         | N4        | 1  | 3"                  | 300#/RFWN | SA106-B/SA350-LF2   | 0.438"       | SA516-70N                | UW 16(c)        | Shell    |
| Future                               | C1        | 1  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| L.G.                                 | C2 a/b    | 2  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| L.G.                                 | C3 a/b    | 2  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| L.G.                                 | C4 a/b    | 2  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| -                                    | C5 a/b    |    |                     |           |                     |              |                          |                 |          |
| Steam Coil                           | C6 a/b    | 2  | 1                   | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| P.I.                                 | C7        | 1  | ½"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| T.I.                                 | C8        | 1  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| Spare                                | C9        | 1  | ¾"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | Head     |
| Methanol Inlet                       | C10 a-c   | 3  | ½"                  | CPLG      | SA350-LF2           |              | N/A                      | UW 16(c)        | N3, N4   |
| Manway                               | M1        | 1  | 20"                 | 300#/RFWN | SA516-70N/SA350-LF2 | 1.0"         | SA516-70N                | UW 16(c)        | Head     |

Certificate of Authorization: Type "U" No. 28.992 Expires JUN 18, 2002

Date 10/09/01 Name E & D Pipe & Process Equipment Ltd. Signed Wane  
(Manufacturer) (Representative)

Date Oct 9/01 Name [Signature] Commission ALTA #58  
(Authorized Inspector) (Nat'l Board incl. Endorsement, State, Province and No.)

(12/91)

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