

# 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 Item 1. E-1225

A 233543

1. Manufactured and certified by Exchanger Ind Ltd 5-05-54 Ave S.E. Calgary Alberta.  
(Name and address of manufacturer)

2. Manufactured for Anderson Exploration, 2500, 700 9 Avenue S.W. Calgary, Alberta  
(Name and address of purchaser)

3. Location of installation Anderson Exploration, Dunvegan, Fairview, Alberta  
(Name and address)

4. Type Horiz. 86-5729 A1 F8372.2 86-5729 A1 N.A. 1986  
(Hour or rev. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Mat'l Id 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 1983  
Year

to W-85  
Address (Date) Code Case No. Special Service per UG 120(M)

6. Shell. SA-516-70 As Below 1/16" As Below - AS BELOW  
(Mat'l Spec No. Grade) (Nom Thk. (in.)) (Corr Allow (in.)) (Diam ID (ft & in.)) (Length (overall) (ft & in.))

7. Seams: Single Welded Spot U.T. 100 End Plates Corner Welds Spot U.T. 2 ends  
(Long. Welded, Dbl. Sing., Lap, Butt) (RT (Spot or Full)) (EH (in.)) (H.T. Temp. (F)) (Time (hr)) (Girth Welded, Dbl. Sing., Lap, Butt) (RT (Spot, Partial, or Full)) (No. of Courses)

8. Heads: (a) Mat'l. N.A. (b) Mat'l. N.A.  
(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 | Sider to Pressure (Concave or Convex) |
|-----|------------------------------|-------------------|---------------------|--------------|----------------|------------------|--------------------|----------------------|---------------|---------------------------------------|
| (a) |                              |                   |                     |              |                |                  |                    |                      |               |                                       |
| (b) |                              |                   |                     |              |                |                  |                    |                      |               |                                       |

If removable, bolts used (describe other fastenings) (Mat'l, Spec No., Gr., Size, No.)

9. MAWP 414 psi at max. temp. 200  
Min. temp. (when less than -20°F) 621 °F. Hydro., pneu., or comb. test pressure 621 psi

10. Nozzles, inspection and safety valve openings:

| Purpose (Inlet Outlet Drain) | No | Diam of Size | Type | Mat'l      | Nom Thk | Reinforcement Mat'l | How Attached | Location |
|------------------------------|----|--------------|------|------------|---------|---------------------|--------------|----------|
| Inlet                        | 2  | 8" 300#      | RFWN | SA-216-WCB | .500    | None                | Welded       | Top Frt. |
| Outlet                       | 2  | 8" 300#      | RFWN | SA-216-WCB | .500    | None                | Welded       | Bot Rear |
|                              |    |              |      |            |         |                     |              |          |
|                              |    |              |      |            |         |                     |              |          |

11. Supports: Skirt Lugs Legs Other Attached (Where and how)  
(Yes or no) (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, Mfg's name and identifying stamp)

Tubes. 1" x 14 BWG x 24' SA-179 Box Sizes. 6 1/2" x 8 11/16" x 9 3/4" lg.  
T/S & P/S Thk. 1 1/2" End Plt Thk. 5/8" Capacity. 20.92 cu. ft.  
Wrapper Thk. 1/2" Pass/Stay Plt Thk. NA Service. Booster Compressor After Cooler

## 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. 5983 expires 30 March 1987  
Date 23/9/86 Co. name Exchanger Industries Ltd. Signed (Signature) (Manufacturer) (Representative)

## CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Exchanger Industries Ltd at 5105-54 Ave S.E. Calgary 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 Boilers Branch  
have inspected the component described in this Manufacturer's Data Report on SEPT 23, 19 86, 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 86-9-23 Signed (Signature) Commissions Alberta  
(Authorized Inspector) (National Board (and endorsement), State, Provincial and local)