

**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

A# 417000

417000

1. Manufactured and certified by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. 5203 75th STREET EDMONTON, ALBERTA  
(Name and address of manufacturer)

2. Manufactured for RANGER OIL 321 - 6TH AVE S W CALGARY AB  
(Name and address of purchaser)

3. Location of installation STOCK  
(Name and address)

4. Type VERT 98C-5957-01 H-4797.12 A-17407 R1 N/A 1998  
(Mark or serial No.) (Mfg's serial No.) (CRN) (Drawing No.) (Net? Std. 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, 1995  
Year

to A-1996 N/A N/A  
Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA-516-70N 1.125 .125 21 3/4" 28' - 0"  
Matl. (Spec. No., Grade) Nom. Thk. (in) Corr. Allow. (in) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: WELDED SNGL FULL 100 1150 70 MIN TYPE 1 FULL (UW-11A) 2  
Long (Welded, Dbl. R.T. (Spot or Full) EN (%) HT Temp. (°F) Time (hr) Grth (Welded, Dbl. R.T. (Spot, Partial, or Full) No. of Courses  
Sngl., Lap, Butt)

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 Profile (Concave or Convex) |
|-----|-----------------------------|-------------------|---------------------|--------------|----------------|------------------|--------------------|----------------------|---------------|-------------------------------------|
| (a) | TOP                         | 1.071             | .125                | N/A          | N/A            | 2:1              | N/A                | N/A                  | N/A           | CONCAVE                             |
| (b) | BOTTOM                      | 1.075             | .125                | N/A          | N/A            | 2:1              | N/A                | N/A                  | N/A           | CONCAVE                             |

If removable, bolts used (describe other fastenings) N/A  
(Matl. Spec. No., Gr., Size, No.)

9. MAWP 1415 psi at max. temp. 150 °F  
Min. design metal temp. -20 °F at        psi Hydro, pneu., or comb. test pressure 2123 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 |
|--------------------------------|----|--------------|------|---------------|---------|--------------------|--------------|----------|
| GAS INLET                      | 1  | 4" RFWN      | 600# | SA-105N/333-6 | SCH 160 | SA-516-70N         | UW-16.1      | SHELL    |
| GAS OUTLET                     | 1  | 4" RFWN      | 600# | SA-105N/333-6 | SCH 160 | SA-516-70N         | UW-16.1      | HEAD     |
| RELIEF                         | 1  | 1 1/2"       | TOL  | SA-105        | 6000#   | N/A                | UW-16.1      | SHELL    |
| PRESS IND                      | 1  | 1/2"         | TOL  | SA-105        | 6000#   | N/A                | UW-16.1      | SHELL    |

11. Supports: Skirt YES Lugs N/A Legs N/A Other WELDED TO Attached BOTTOM HEAD  
(Yes or no) (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: IMPACT TEST EXEMPT UG -20(F) UCS 66(C)  
(Name of part, item number, Mfg's name and identifying stamp)

3 PHASE GLYCOL CONTACTOR CAPACITY 2.13M<sup>3</sup>

**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. 14259 expires OCT 7, 1998.  
Date 98-5-26 Co. name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. at EDMONTON

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 BOILERS SAFETY ASSOCIATION

have inspected the component described in this Manufacturer's Data Report on May 18, 1998, 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 May 18 1998 Signed [Signature] Commissions ALBERTA  
(Authorized Inspector) (Not a Board (just endorsement, State, Prov. and No.)

**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 ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. 5203 75th STREET EDMONTON, ALBERTA  
(Name and address of Manufacturer)

2. Manufactured for RANGER OIL 321 - 6TH AVE S W CALGARY AB  
(Name and address of Purchaser)

3. Location of installation STOCK  
(Name and address)

4. Type: VERT 3 PHASE GLYCOL CONTACTOR 98C-5957-01  
(Tank, vent, or sphere) (Tank, compressor, heat exch., etc.) (Mfg's. serial No.)

H-4797.12 A-17407 R1 N/A 1998  
(CRN) (Drawing No.) (Part's Id. No.) (Year built)

[illegible]

Certificate of Authorization: Type U No. 14259 Expires OCTOBER 7 . 19 98

Date 95-5-26 Name ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. Signed [Signature]  
(Manufacturer) (Representative)

Date 98/5/28 Name [Signature] Commissioner: ALBERTA  
(Authorized Representative) (Don't Sign This Certificate, Name, Signature and Seal)

(12/01)

This form (E00115) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

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