

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

1. Manufactured and certified by Opco'92 Industries Ltd. 2601 Centre Avenue East, Calgary, Alberta, T2P 2L1

2. Manufactured for RIGEL OIL & GAS LTD. 255-5th AVE. SW, CALGARY AB

3. Location of installation ALBERTA STOCK UNIT

4. Type VERT. SEPARATOR V-2878A1 NO293.2 V-95-2314-1262 R2 1998

5. The chemical and physical properties of all parts meet the requirements of material specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1

1995

6. Shell: SA-516-70N 1.125" 125" 21.75" 7'-6"

7. Seams: TYPE 1 FULL 100% 1150 F 1.25 HRS TYPE 1 FULL 1

8. Heads: (a) Matl SA-516-70N (b) Matl SA-516-70N

Location (Top Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Open Radius	Knock Radius	Elliptical Ratio	Circular Apex Angle	Hemispherical Radius	Flat Diameter	Close to Press (Concave)
(H) TOP	1.074"	.125"			2:1				CONC
(B) BTM	1.074"	.125"			2:1				CONC

If removable, bolts used (describe other fasteners)

9. MAWP: 1475 PSI (Normal Specification No. Gr. Size, No.)
Min. Des. Met. Temp. -20 °F at 1475 PSI psi at max. temp. 250 F °F
10. Hydro. test pressure 2212 PSI psi

11. Supports: Slew YES Lugs Legs Other Attach BTM HD & WELDED

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

Impact Testing: EXEMPT AS PER UCS-66
Radiography per: UW-11a
Tag No.: V-200 Volume: 22.06 CU FT (65 CU M)
CONST. DWG. #V-95-2878-1709 R2

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. 2135-1995 July 21, 1998

Date 6 Apr 98 Co. Name Opco'92 Industries Ltd. Signed [Signature] (Manufacturer)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Opco'92 Industries Ltd. at CALGARY, 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 ABSA, Alberta Boilers Safety Association

have inspected the component described in the Manufacturer's Data Report on 27 May 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 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 27 May 98 Signed [Signature] Commissions ALBERTA