

**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

*A 1437260*

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

2. Manufactured for BERKLEY PETROLEUM SUITE 2810, 205-5<sup>TH</sup> AVE. S.W. CALGARY, AB. T2P-2V7  
(Name and address of manufacturer)

3. Location of installation 5-12-87-25W5M HALFWAY RIVER  
(Name and address of purchaser)

4. Type VERT. SEPARATOR 01-2993-1 N4676.21 V-96-QBABS30-1436 1998  
(Horiz or vert tank) (Mfg's serial No.) (CRN) (Drawing No.) (Mater Edifice) (Year)

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 I 1995  
(Year)

6. Shell Addenda (date) 1997 Code Case Nos. SA-516-70N 1.375" 0.125" Special service per UG-112(a) 2'-3.25" 8'-0"

7. Seams Mat'l (Spec No Grade) TYPE 1 FULL Nominal Thk (in) 100% 1150F Corr Allow (in) 90 MIN. Diameter I.D. (ft & in) TYPE 1 Length (overall) (ft & in) FULL 1

8. Heads (a) Mat'l SA-516-70N (b) Mat'l 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 Side (Conc/Conv)
TOP	1.307"	0.125"			2:1				CONC
BTM	1.307"	0.125"			2:1				CONC

if removable, bolts used (describe other fasteners) \_\_\_\_\_

9. MAWP 1395 (Mat'l Spec No Gr Size No) 150 psi at max temp 150 psi  
 Min Design Metal Temp -18 °F at 1395 psi Hydro pneu or comp test pressure 2093 psi

10. Nozzles, Inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Mat'l	Thk	Reinforcement Material	How Attached	Location
IN/OUT	2	6"	600#RFWN	SA-106B	0.864"	INTEGRAL	FIG.UW-16.1 (c)	
WD/HCD/DRAIN	2	2"	600#RFWN	SA-106B	0.343"	INTEGRAL	FIG.UW-16.1 (c)	
HLSD/LSLL	2	2"	CPLG	SA-105N	6000#	INTEGRAL	FIG.UW-16.1 (c)	
EXIN/OUT	2	1"	CPLG	SA-105N	6000#	INTEGRAL	FIG.UW-16.1 (c)	
WLC/HCLC/INSP	3	2"	TOL	SA-105N	6000#	INTEGRAL	FIG.UW-16.1(a)	SHELL/HEAD
DRAIN	1	1 1/2"	NPT	SA-106B	.400"	INTEGRAL	FIG.UW-16.1 (c)	
PSV	1	1 1/2"	TOL	SA-105N	6000#	INTEGRAL	FIG.UW-16.1(a)	
WG/TI/HCG	5	3/4"	TOL	SA-105N	6000#	INTEGRAL	FIG.UW-16.1(a)	
SPARE	1	1"	TOL	SA-105N	6000#	INTEGRAL	FIG.UW-16.1(a)	
PI	1	1/2"	TOL	SA-105N	6000#	INTEGRAL	FIG.UW-16.1(a)	

11. Supports Skirt YES Lugs        Legs        Other        Attache BTM HD & WELDED  
(Yes/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 Testing EXEMPT AS PER UCS-66(a) & UG-20(f) Radiography per UW11a  
(Name of part, item number, Mfg's name and identifying stamp)

Tag No: V-100 Volume 39.29 Cu.Ft. 1.112 Cu.M. CONST. DN#: V-98-2993-1776 R2  
 JOB# 3030

**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 21356 expires July 21, 2001

Date Aug. 19/98 Co Name Opco'92 Industries Ltd. signed [Signature] (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Opco'92 Industries Ltd. at CALGARY, ALBERTA, CANADA

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 23 November 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 loss of any kind arising from or connected with this inspection.

Signed [Signature] Commissions ALBERTA