

3 September 2002

Essential Petroleum Resources Ltd  
Level 2  
226 Albert Road  
SOUTH MELBOURNE VIC 3205

Attention: Wally Westman

## **REPORT LQ11954**

**CLIENT REFERENCE:** Letter of 15/8/02

**WELL NAME/RE:** Port Fairy #1

**MATERIAL:** Fluid

**WORK REQUIRED:** Extraction, qualitative gas chromatography & resistivity

**AUTHOR'S NAME:** Carmelina Valente

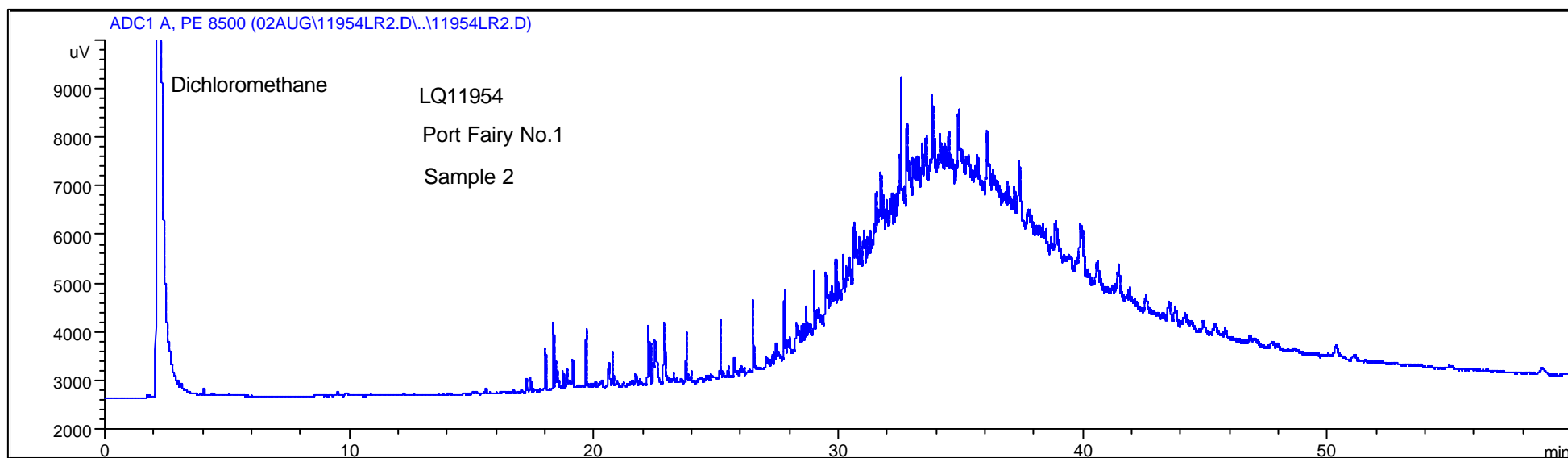
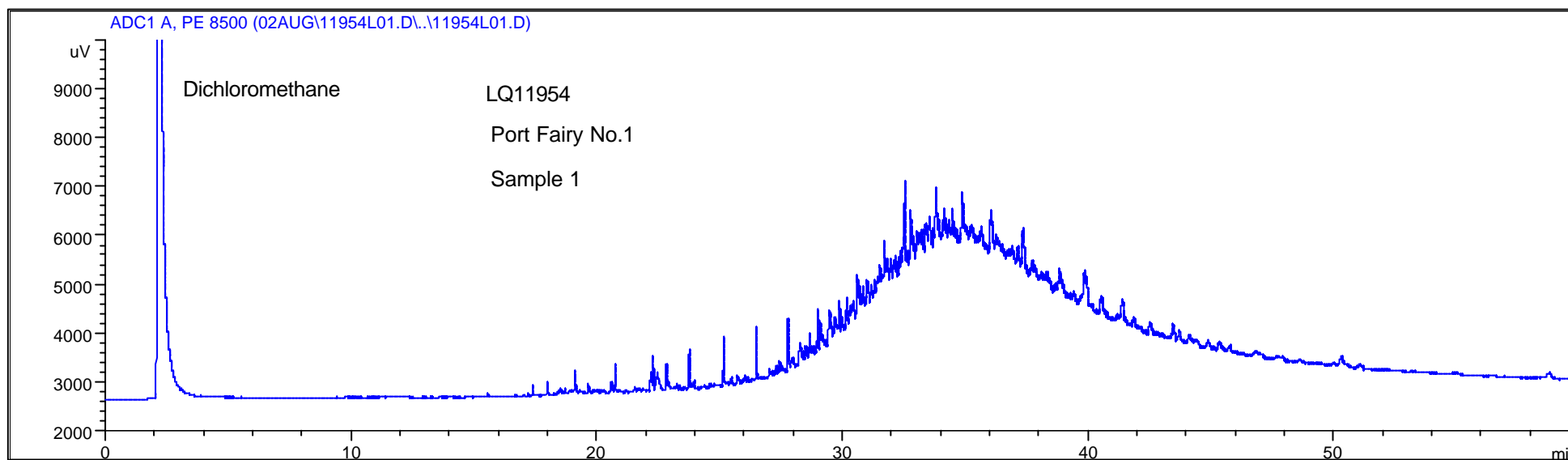
Please direct technical enquiries regarding this work, to the signatory below, under whose supervision the work was carried out. This report relates specifically to the sample or samples submitted for testing.

Diane Cass  
**Operations Manager**  
**Petroleum Services**

dc.cm

G:\Secretary\petroleum\Docs-02\11954.doc

Amdel Limited shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Amdel Limited be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested.



Amdel Limited • 35-37 Stirling Street Thebarton SA 5031 • PO Box 338 Torrensville Plaza SA 5031  
ABN 30 008 127 802 • Telephone: +61 8 8416 5200 • Facsimile: +61 8 8234 2933

## 1. INTRODUCTION

Amdel Limited received two liquid samples from Port Fairy No.1 for extraction, residual hydrocarbons and resistivity on 22 August 2002. This report is a formal presentation of results forwarded by facsimile on 28 August 2002.

## 2. PROCEDURE

The samples were extracted with dichloromethane and carefully dried down using a rotary evaporator.

The extracts were analysed on a Perkin Elmer 8500 Gas Chromatograph equipped with a capillary column, flame ionisation detector and nitrogen carrier gas.

## 3. RESULTS

The gas chromatograms are presented on the following pages.

SAMPLE ID	YIELD (mg/L)	RESISTIVITY ohm.M @ 25°C
Sample 1	5	1.81
Sample 2	3	1.78

The extracts appear to be medium to heavy boiling range hydrocarbon.

The naphthenic hydrocarbon fraction between 30 and 60 minutes (>400°C) appears to be a lubricating oil.