



## i. INTRODUCTION

A 2-D marine seismic survey was conducted by Halliburton Geophysical Services Inc. between the 11th and the 21st of November 1990. The survey was in permit area T/15P. The purpose of the following report is to provide the reader with an insight into methods and equipment used by H.G.S. to collect the data and also to highlight any problems that were encountered during the survey period.

Section I.ii consists of statistics of the Motor Vessel Magnificent Creek.

Section I.iii contains a list of key personnel involved with the operation and maintenance of instruments and equipment employed in collection of the data and also those responsible for the assurance of quality and integrity of data recorded.

Key survey parameters are outlined in section I.iv.

An overview of the instrumentation is detailed in section II, with section II.I containing a brief description of the theory of operation of Halliburton Geophysical Services' unique equipment. Section II.II involves both details and discussions of the instrumentation and equipment incorporated in onboard operation.

A brief description of the operating principles of the various navigation systems including base station data, system calibration and navigation tape summaries, is outlined in section III.I & III.II.

In the final section (IV) all aspects of operational procedures are provided and include shipment details and survey statistics.

Three appendices containing a daily line status log, a numerical line summary and an inventory of digital field tapes may be found following section IV.

A number of plates are attached to this report which illustrate various supplementary details involved with data collection, processing techniques and equipment.