INTRODUCTION

The study area encompasses the pre-Tertiary section of the Mackenzie Delta and Valley Basins of the Northwest Territories. Together with the Southern Northwest Territories (1995), which overlaps at the Norman Wells area, the report provides a consistent review of the whole of the Northwest Territories.

The Mackenzie Delta and Valley is a proven hydrocarbon province with large reserves of oil and gas found in Tertiary Deltaics, Mesozoic clastics and Palaeozoic carbonates and clastics.

This study provides a comprehensive evaluation of the petroleum geology. It comprises original research and interpretation of a database consisting of over 200 wells, a wealth of new and previously unpublished geochemical data resulting from co-operation with the Geological Survey of Canada, over 5,000km of released and proprietary seismic and gravity and magnetic data.

The Report:

- Provides an integrated geological and geophysical framework.
- Establishes the regional structural setting and tectonic history and determines basin configuration, detailed structural elements and prospective trends, using available magnetic, gravity, seismic and well data.
- Determines a regional stratigraphic correlation from lithological, biostratigraphical, paleo-environmental and wireline log data, to establish the distribution of source, reservoir and seal.
- Identifies the principal reservoir, seal and source rock associations and the tectono-sedimentary controls on their distribution.
- Integrates geochemical data with the re-evaluated structural framework using basin modelling techniques, to establish timing of hydrocarbon generation and likely migration pathways.
- Identifies play concepts and where hydrocarbon discoveries may be expected to be made in the future.
- Examines the relevant petroleum legislation, environmental considerations, and fiscal terms.
- Presents companies with a geological database, maps, well information and field statistics.
CONTENTS

The report includes 270 pages of text and 187 figures in the following chapters:

• General Introduction, Regulatory, Fiscal and Environmental Framework
• Exploration History
• Database
• Interpretation Methodology
• Structural Framework
• Stratigraphy
• Petroleum Geology
• Hydrocarbon Potential
• Field Development and Cost Database
• Economic Modelling and Analysis

A set of 27 enclosures illustrate structure, stratigraphy, petroleum geology, reservoir potential, prospective trends and structural leads and include:

• Well and Concession Base Maps
• Stratigraphic Columns
• Regional Structure Elements
• Depth Maps on Key Horizons
• Isopach and Facies Maps
• Structural Cross-Sections
• Seismic Composites
• Gravity and Magnetic Data
• Source Rock Distribution Maps
• Hydrocarbon Play Concepts

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COST

Report, exclusive of any tax, delivery or customs’ duties:

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Digital format (PDF), an additional:

US $ 5,000

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