MELVILLE ISLAND AEROMAGNETIC SURVEY 1963

~ LEGEND ~

References — (f) (A)

Location of Depth Determination (Stroke indicates direction of strike used in the quantitative analysis)

Elevation referred to sealevel ± uncertainty range (Magnetic Susceptibility Contrast in 10^{-3} c.g.s. units, Grade) — -8200 ± 300 (0.6, C)

Interpreted Trend of Bedded Rocks

Basic Dike

Possible Fault

Refraction Seismic Profile with average depth and number (Ref. 2.) — #1 -1.510

Flown and Compiled by
ADASTRA HUNTING GEOPHYSICS PTY. LTD.
41-45 VICKERS AVE,
MASCOT N.S.W.

AREA LOCATION

ALLIANCE OIL DEVELOPMENT AUST. N.L.
TOTAL MAGNETIC INTENSITY MAP
Scale 4 Miles to 1 Inch (approx)

miles 4 0 4 8 12 16 20 miles

~ INTERPRETATION MAP ~

PR63/008

MAGNETIC INFORMATION (TOTAL FIELD)

Intensity 46,000 gamma
Inclination -38°
Declination 3°.5E

Single Profiles Only Over Sea Areas

EXPLANATORY NOTE

This survey was made at an altitude of 2,000 feet A.M.S.L. along E-W lines in groups of three with 1 mile spacing groups approx 10 miles apart and N.S tie lines also in groups of three strategically spaced A radio altimeter recorded terrain clearance. Photo mosaic assemblies were used as a visual aid to navigation and the actual course of the aircraft was plotted from vertical photographs taken with a 35 mm camera during flight The total magnetic intensity was continuously recorded by a GULF RESEARCH TOTAL FORCE FLUX GATE MAGNETOMETER MARK III as a towed installation by a Hudson aircraft. A correction of minus 8.3 gammas per line mile south and minus 1.6 gammas per line mile west has been applied as a regional gradient to this sheet