

SCINTREX

BRIEF COMMENTS ON
DOWN-HOLE INDUCED POLARIZATION SURVEYS
OVER THE MOINA PROSPECT, NORTHERN TASMANIA
ON BEHALF OF
SHELL COMPANY OF AUSTRALIA LTD. (METALS DIVISION)

INTRODUCTION

At the request of Mr. N. Hungerford, Chief Geophysicist for Shell Company of Australia Ltd. (Metals Division), Scintrex Pty. Ltd. conducted a down-hole induced polarization survey on the Moina prospect in Northern Tasmania.

The surveys were conducted under the supervision of Scintrex crewleader Mr. R. Prydon assisted by Mr. S. Fletcher over 2.75 production days between 16th and 22nd October, 1980.

EQUIPMENT

The energisation for down-hole induced polarization was effected by a Scintrex IPC 7/25 watt time domain induced polarization transmitter. An 8 second cycle was used with 2 second pulse. The receiver used to monitor the primary (resistivity) and secondary (chargeability) field was a Scintrex IPR-8 induced polarization receiver. Three slices under the decay curve were measured for the down-hole induced polarization.

METHOD

A 2½ metre three array was employed, with an 'infinite' current electrode on the surface at some distance from the hole. A moving current electrode was positioned at the bottom of the hole, with a 2½ metres potential dipole 2½ metres away.