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APPENDIX 23

SEISMIC AND RESISTIVITY TRIALS, MOINA.

221303

COMALCO LIMITED

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MEMORANDUM

Ref	P. W. Askins	Date	14th February 1977
To	G. Weste G. Shovelton	From	A. H. Bartlett
At	Devonport	At	Melbourne
Copies	Cairns Office A.H.W./S.K.C. Melbourne " P.W.S./I.D.P.	Subject	Investigations with various geophysical techniques at E.L. 7/74 "Moina", Tasmania.

Introduction

Diamond drilling is an essential, but slow and costly, method of investigating the configuration and sampling of mineral deposits.

Investigations were carried out with seismic and resistivity equipment at E.L. 7/74 "Moina", Tasmania, to determine whether or not one or more of these geophysical techniques could be used in conjunction with drilling to outline the configuration of such a mineral deposit.

Conclusions

1. Resistivity useful to depths of about 30 metres.

2. Refraction seismic traverses limited to depths 50 metres and cannot solve problems where softer layers underlie harder ones.

3. Reflection seismic traverses with the "Bison" seismograph appear to be remarkably efficient and accurate in determining the depths of various strata.

Geophysical techniques used:

* Location

	D.O.M. 1	S.M.D. 10	S.M.D. 12	S.M.D. 15	ALONG BASELINE 600-800 m. East
Resistivity - expanding electrode - Wenner configuration	*		*		
Refraction Seismic "GT2B"			*		*
Refraction Seismic - "Bison"		*	*	*	*
Reflection Seismic - "Bison"		*	*	*	*