

16

000

059001

~~028~~

69-580

MICROFILMED

MINOPS PTY. LTD.

Progress Report to 30th September, 1969

on

Exploration Licences 13/68 and 14/68

TASMANIA

TO: Minister for Mines

DEPARTMENT OF MINES TASMANIA

Wynyard

5th October, 1969

CONTENTS

	<u>Page</u>
INTRODUCTION	1
WORK COMPLETED	1
(a) Base Gridding	1
(b) Geophysics	1
(c) Geological Mapping	1
(d) Drilling	1
(e) Other Work	2
EXPENDITURE	3

INTRODUCTION

This report summarises the exploration work carried out by Minops Pty. Ltd. on E.L. 13/68 and 14/68 on behalf of D.W. Hinkley and E.H. MacDonald respectively to September 30th 1969.

To the present work carried out on these two areas has been worked as a single project to evaluate the iron ore potential of the areas.

WORK COMPLETED

(a) Base Gridding

Grid lines put down for purposes of B.M.R's 1962 magnetic survey at Natone have been re-established and extended to 2,100 ft west and 1,600 ft east of the base line. A total of 48,000 ft of grid lines were completed.

(b) Geophysics

Former magnetic survey data has been re-checked and extended to cover the gridded area. Supplementary detail magnetics have been run to further localise anomalous areas and zones. A McPhar M700 Magnetometer was used.

McPhar of Adelaide completed a programme of geophysical work using Induced Polarising equipment. Using 100, 200 and 300 ft separations, readings covering some 15.5 line miles were taken over a period of 22 days. Several IP zones associated with and removed from known iron and sulphide mineralisation were outlined. Depths of anomalies vary from zero to 600 ft plus. Final IP reports have not been received from McPhar to make further comments on the results.

(c) Geological Mapping - Natone area - E.L. 14/68

Area of immediate interest is covered by cultivated pastures and thus lack of *in situ* outcrops have limited value of the geological mapping completed. (*sic*)

Blythe River E.L. 13/68

The area covering Blythe River iron outcrops was mapped for purposes of siting drill hole No. 1 completed 12/7/1969.

(d) Drilling - E.L. 14/68

Auger Drilling

A.S. James Pty. Ltd. using a Gemco Auger drill completed a programme totalling 1,159 ft. Purpose of drilling was to test strong magnetic anomalies and information on subsurface geology. Results were inconclusive regarding confirmation of iron ore existing below the magnetic anomalies on the property, however subsurface geological information obtained by this drilling has been valuable.

Diamond Drilling

Associated Diamond Drillers completed the initial drilling programme of 3 drill holes totalling 1,284 ft in the Natone area.

Natone D.D.H. No. 1 Co-ords. 2675S 125E

Inclination Vertical; Depth 315 ft

Completed 27/12/68?

Target - To test strong magnetic anomaly at depth. No iron ore (hematite or magnetite) was intersected.

Both disseminated and veins of sulphides, 0-10%, pyrite pyrrhotite with minor chalcopyrite were noted at various depths down the hole. Rock type intersected predominantly silicified calcareous sediments.

This drill was only partially successful as during later work it was found that it had been wrongly sited due to inaccuracies of mapping in previous reports.

Natone D.D.H. No. 2 Co-ords. 2025S 50E

Bearing 133° Mag Inclination -55°

Depth 600 ft completed 18/3/69.

Target - To test strong magnetic anomaly at depth.

An iron ore formation of magnetic hematite from 0 to 265 ft. Assays of ore varied from 31.9 to 69.8% of HCl Sol Fe. Averaging 0-134' 37% Fe, 134 to 231' 67% Fe, 231-265' 47% Fe with 27.9%, 4.32% and 15.5% SiO₂ respectively. Narrow veins and disseminated sulphide mineralisation was encountered below the iron formation. Pyrite Pyrrhotite and Chalcopyrite were identified.

Natone D.D.H. No. 3 Co-ords. 3240S 50W

Bearing 313° Mag Inclination -70°

Depth 369 ft. Completed 20-5-69.

Target - To test magnetic anomaly at depth.

Difficulties in drilling coupled with poor core recoveries at vital depths were encountered due to swampy and deeply weathered ground. Minor secondary iron mineralisation was intersected at erratic intervals. The hole was abandoned before target depth of 500 ft was reached.

E.L. 13/68

Blythe River D.D.H. No. 1 Co-ords. -

Bearing 128° Mag Inclination -45°

Depth 386 ft. Completed 12/7/69

Target - To test the Blythe River iron formation at depth and structural relationship to country rocks.

Low grade iron mineralisation was intersected from 181 to 370 ft. Results of core assayed from this hole are known to the Department of Mines.

(e) Other Work

Selected samples of core containing iron ores and/or sulphides have been selected from each Diamond drill hole and have been sent for petrographic reporting.

Sections of core containing higher percentages of sulphides have been assayed for Cu, Pb, Zn and Ni, composite samples from above samples have been assayed for P, Ti, Ag, Au and spectrographically scanned for trace elements.

Beneficiation tests are to be carried out by the Department of Mines laboratories, Launceston to study the ores and report on the feasibility of producing a saleable product.

004

A rotary drilling programme has been prepared, proposed and approved for the Natone E.L. 14/68 area, to test at depth IP zones and iron ore mineralisation indicated by recent work. Rotary drilling totalling 12,650 ft is envisaged. Negotiations with drilling companies to do this work are continuing.

A drilling programme is being prepared to further test the iron formations of E.L. 13/68.

EXPENDITURE

No estimate of expenditure can be supplied for this report by the writer. Reports on expenditure are being prepared by Ninops accountants for areas concerned. These will be forwarded to the Mines Department offices as soon as possible.

J. Erdmanis
For: Minops Pty. Ltd.