

297001

THE ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
WEST COAST DEPARTMENT

GEOLOGICAL DEPARTMENT

FINAL REPORT

on

THE GROUND CHECKING OF

AIRBORNE ANOMALIES

FINGAL AREA

by

I S Gregory

February 1962

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000 ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LTD.

WEST COAST DEPARTMENT

297002

MEMORANDUM

TO:- The Superintendent
FROM:- Chief Geologist
SUBJECT:- EXPLORATION - Fingal

January 4, 1963

Please find attached the "Final report on Ground Checking of Airborne Anomalies of Fingal area" by I.S.Gregory.

While the drilling explained the reason for the Magnetic, Electromagnetic and Induced Polarization anomalies it demonstrated that the mineralisation was too low grade as a lead-zinc ore to be of any economic value.

I agree with Mr. Gregory's assessment of the prospect and support his recommendation that no further work is justified.


CHIEF GEOLOGIST

VMC:vw

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
West Coast Department

FINAL REPORT ON THE GROUND CHECKING OF THE AIRBORNE ANOMALIES

FINGAL AREA

(Refer Reports Nos. 82 and 86)

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1. ABSTRACT

In report No. 86 diamond drilling of a short hole under the shaft of the anomaly 3/6 prospect was recommended along with certain geological mapping. This testing was carried out as proposed and mineralisation of a minor nature only was located. No further testing of the prospect is justified and it is recommended that EL2/59 be allowed to expire on 18/2/62.

2. INTRODUCTION

This report is intended to be read as an addendum to Report No. 86 - "The second report on the ground checking of the Airborne Anomalies - Fingal Area" In that report a recommendation was made for the mapping of the workings on the Anomaly 3/6 prospect - and the drilling of a 150 ft. hole under the shaft in block J23N. The 3 man field party spent a period of 48 man days on site during which Drillhole FP102 was drilled to 149 ft. Two of the three workings were dewatered and all 3 were mapped.

3. DIAMOND DRILLING (See plates 1 and 3)

Drillhole FP102 was sited to test the mineralisation in J23N shaft approximately 100 ft. down dip. The hole was in sandstones and slates of the Mathinna Group throughout and encountered sporadic mineralisation - predominantly $\frac{1}{8}$ " veinlets of pyrrhotite. A definite mineralised zone corresponding with the mineralisation in J23N shaft was intersected from 120 $\frac{1}{2}$ to 126 $\frac{1}{2}$ ft. This assayed Pb. 1.5%, Zn. 4.4%, Cu. 0.10%, Ag. 1.0 ozs, Au. Nil, and Fe 35.4%. The iron in the assay is represented by pyrite, pyrrhotite and magnetite in the core.

4. GEOLOGICAL MAPPING (See Plate 2)

During the drilling, J23N shaft and J24N adit were dewatered and mapped. K24N adit was accessible and had been examined previously. No mineralisation of interest was located in any of the three workings - traces of pyrite and pyrrhotite only being present in the walls of the workings whilst all the richer material is on the dumps. The mineralisation was confined to a zone of shearing in black and grey slates. Only partial replacement of the host rocks was evident and these are not favourable for the development of orebodies.

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CONCLUSION AND RECOMMENDATION

The mineralisation in K23N shaft was intersected 100 ft. below the shaft bottom as semi massive sulphides 5 ft. wide - predominantly pyrite and pyrrhotite with traces of galena and sphalerite. The mineralised zone is similar to the material on the dump but the content of lead and zinc has become less than that indicated by the high grade specimens described in Report No.86.

Mapping of the workings confirmed previous ideas of the localisation of the mineralisation but failed to reveal anything warranting further testing.

The EM and IP anomalies are adequately explained by the veinlets and the mineralised zone in FP102. However the mineralisation is too sparse and too low grade to justify further testing.

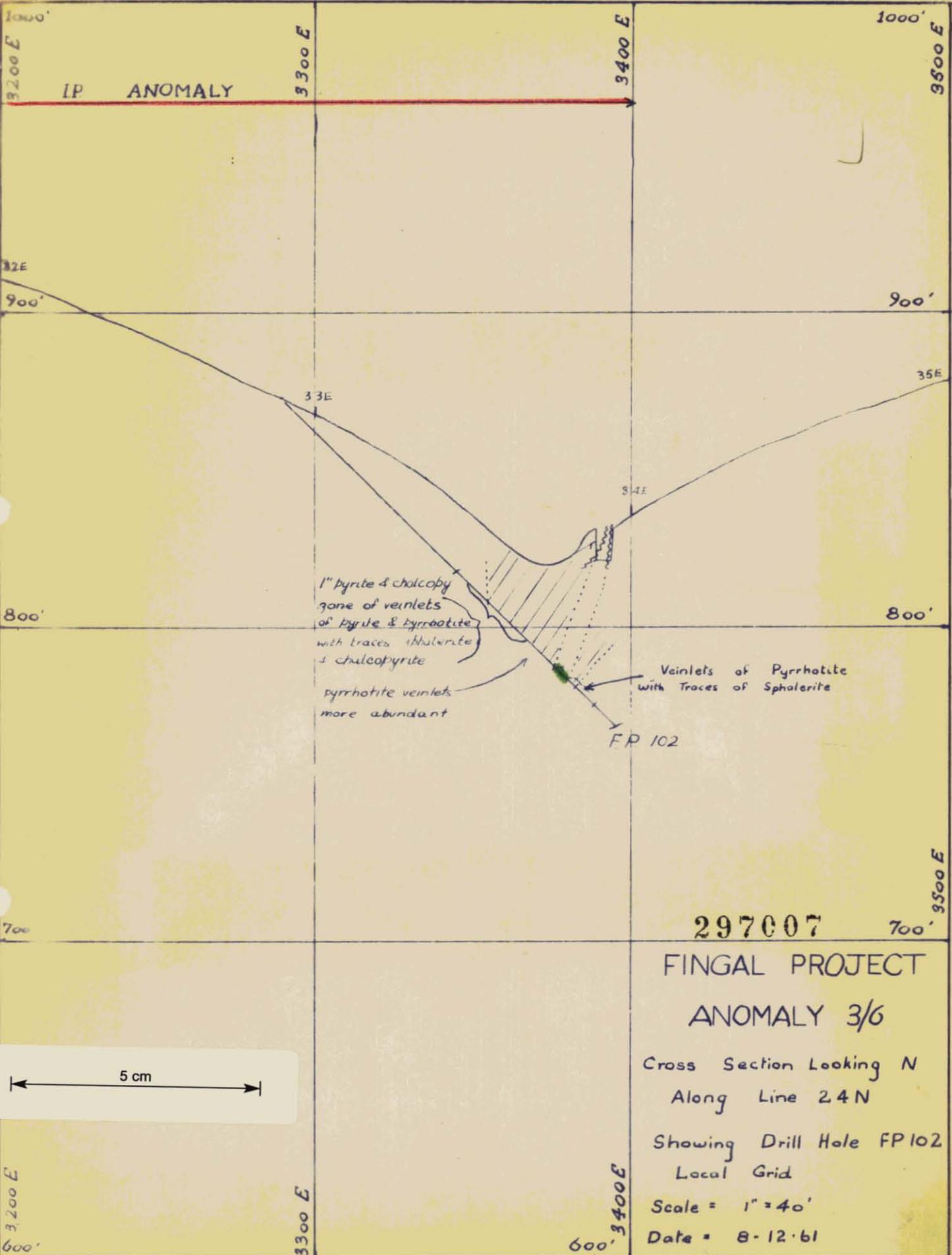
It is recommended that the EL 2/59 which is a 4 square mile area surrounding this prospect be allowed to expire on 18/2/62.



I.S. GREGORY

ROSEBERY, January 19th, 1962

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IP ANOMALY

1" pyrite & chalcopy
zone of veinlets
of pyrite & pyrrhotite
with traces sphalerite
& chalcopyrite

pyrrhotite veinlets
more abundant

Veinlets of Pyrrhotite
with Traces of Sphalerite

FP 102

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FINGAL PROJECT

ANOMALY 3/6

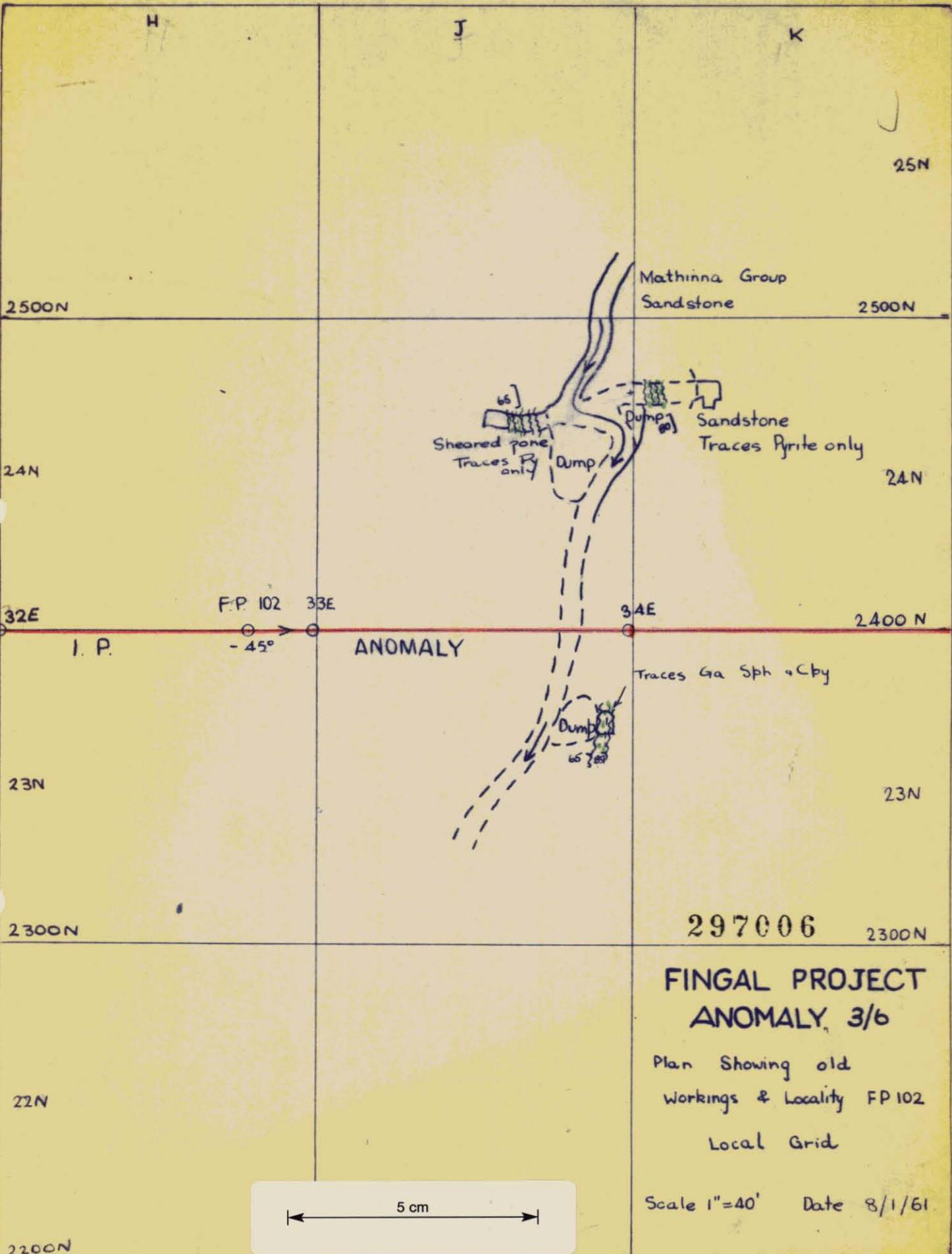
Cross Section Looking N
Along Line 24N

Showing Drill Hole FP102
Local Grid

Scale = 1" = 40'

Date = 8-12-61

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FINGAL PROJECT ANOMALY 3/6

Plan Showing old Workings & Locality FP102
Local Grid

Scale 1"=40' Date 8/1/61