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ASARCO (AUSTRALIA) PTY. LTD.

E.L. 7/73 PARADISE, TASMANIA
Report for the year ending March 15, 1975.

by
R.G. BARKER
5th March, 1975.

OPEN FILE

ASARCO (AUSTRALIA) PTY. LTD.E.L. 7/73 PARADISE, TASMANIAReport for the year ending March 15, 1975.INTRODUCTION

Exploration License 7/73 was granted on March 15, 1973, and covered an area of 287 square miles (743 square Km) of northern Tasmania. On renewal in March 1974 the area was reduced to 166 square miles (429 square Km) and an additional area of 106 square miles (275 square Km) to the east of E.L. 7/73 was granted as an extension. This extension has since been relinquished and the work carried out there is described in a previous report.

This report describes the results of exploration carried out over anomalous areas defined by the stream sediment survey of 1973. The area at present covered by the exploration license is shown on the location map (Fig. 1).

ANOMALIES

The stream sediment survey of E.L. 7/73 defined 10 anomalous areas and all work on the license since then has been carried out in these areas. The location of the anomalies is shown on the location map (Fig. 1).

1. Gog Range

Follow up sampling results for the Gog Range anomaly are shown on Fig. 2. Strongly anomalous values were obtained from 4 north-flowing creeks and a grid was cut covering the anomalous area. Thirteen grid lines 400 to 750 metres long traverse an east-west baseline at 200 metre intervals. Soil sampling was carried out along the lines at 25 metre intervals and the samples analysed for Cu, Pb, Zn, cxCu and cxZn. The results of the survey are shown on Figs. 12a to 12e. Fig. 12f is a reconnaissance geological map. Results show moderate soil anomalies over Cambrian acid volcanic and sedimentary rocks in all three elements. The anomalies extend to the eastern and western limits of the grid. To test the limits of the anomalies the grid has since been extended both to the east and to the west with the addition of a total of 5 lines. Sampling is in progress on these extensions.

2. Lake Barrington Anomaly

Stream sediment sample results for this area are shown on Fig. 3. The southern creek sampled gave very strongly anomalous copper results (up to 3550 ppm) with below threshold or weakly anomalous lead and zinc values. Copper results were very much lower for the two creeks resampled to the north.

A small grid has been cut over the area drained by the southern creek. The grid consists of four lines 525 metres long crossing a baseline at 150 metre intervals. Soil samples were

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taken at 25 metre intervals along the lines and analysed for Cu, Pb, Zn, cxCu and cxZn. Results are plotted on Figs. 13a to 13e. Fig. 13f is a reconnaissance geological map and Fig. 13g shows the stream sediment results for the two creeks within the grid area.

The 400 ppm copper contour defines an anomalous zone crossing all 4 lines that is open to the south. The lines have been extended to the south to define the limits of the soil anomaly but sampling has not yet been completed.

3. Razorback Ridge, Cethana and Staverton Anomalies

The Razorback Ridge and Cethana anomalies give weakly anomalous values on follow up and no further work is warranted. At Staverton a soil sample line 480 metres long was sampled at 30 metre intervals giving 17 samples. The line crossed both anomalous creeks and gave copper values of up to 30 ppm and zinc values of up to 90 ppm. One sample 2 metres from the western anomalous creek gave 590 ppm Pb but none of the remaining samples exceeded 170 ppm Pb. No further work is warranted on these three anomalies.

4. East Gog Range, Mt. Roland, Mt. Claude, Wilmot and Oliver Hill Anomalies.

The remaining 5 anomalous areas have been resampled and results for this work are included in Figs. 4, 5, 7, 8 and 11. Further prospecting of the anomalous locations is required before these areas can be eliminated.

R.G. BARKER

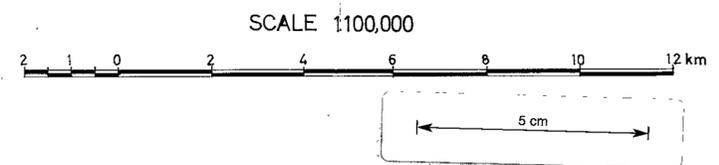
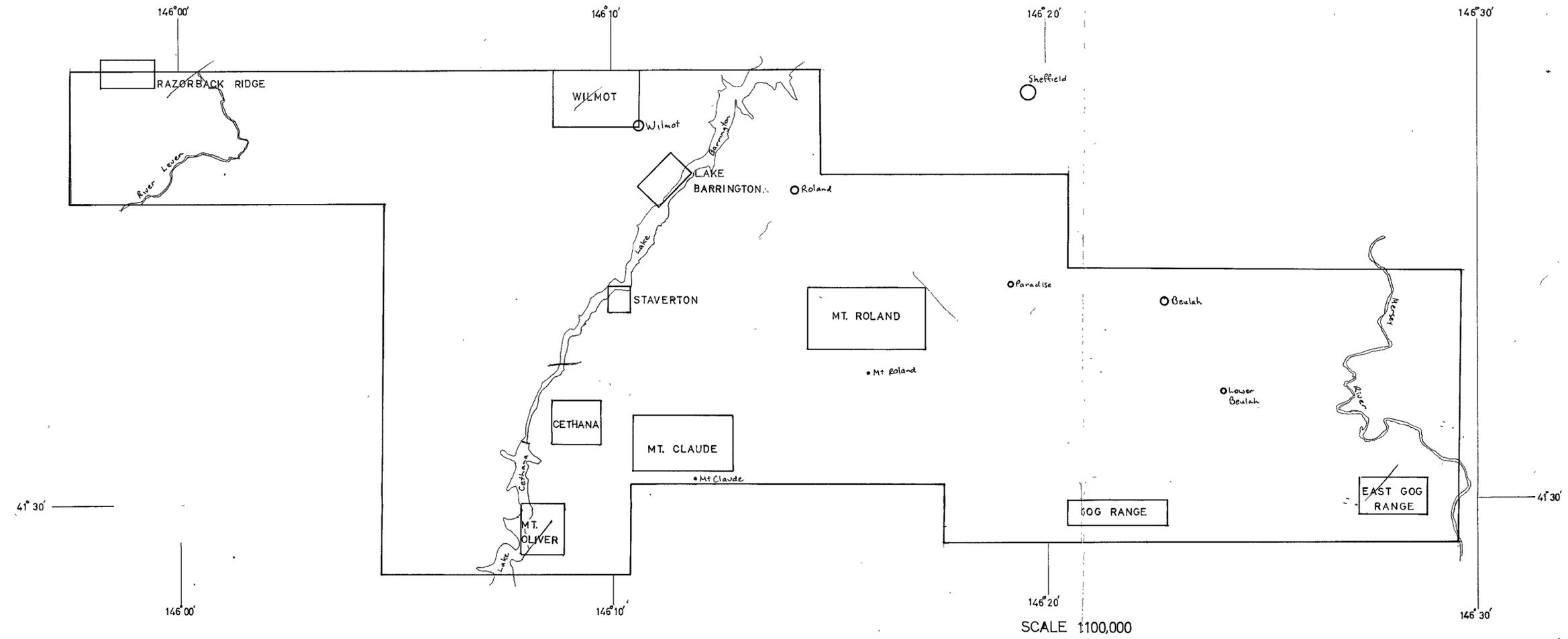
5th March, 1975.

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LIST OF PLANS

Fig.

- 1 Location Map
- 2 Gog Range Anomaly : Follow up Results.
- 3 Lake Barrington Anomaly : Follow up Results.
- 4 East Gog Range Anomaly : " " "
- 5 Mt. Claude Anomaly : " " "
- 6 Cethana Anomaly : " " "
- 7 Oliver Hill Anomaly : " " "
- 8 Mt. Roland Anomaly : " " "
- 9 Razorback Ridge Anomaly : " " "
- 10 Staverton Anomaly : " " "
- 11 Wilmot Anomaly : " " "
- 12a Gog Range Anomaly, Soil Sample Results Cu.
- 12b " " " " " " Pb.
- 12c " " " " " " Zn.
- 12d " " " " " " cxCu.
- 12e " " " " " " cxZn.
- 12f " " " Geology
- 13a Lake Barrington Anomaly, Soil Sample Results Cu.
- 13b " " " " " " Pb.
- 13c " " " " " " Zn.
- 13d " " " " " " cxCu.
- 13e " " " " " " cxZn.
- 13f " " " Geology
- 13g " " " Stream Sediment Sample Results.

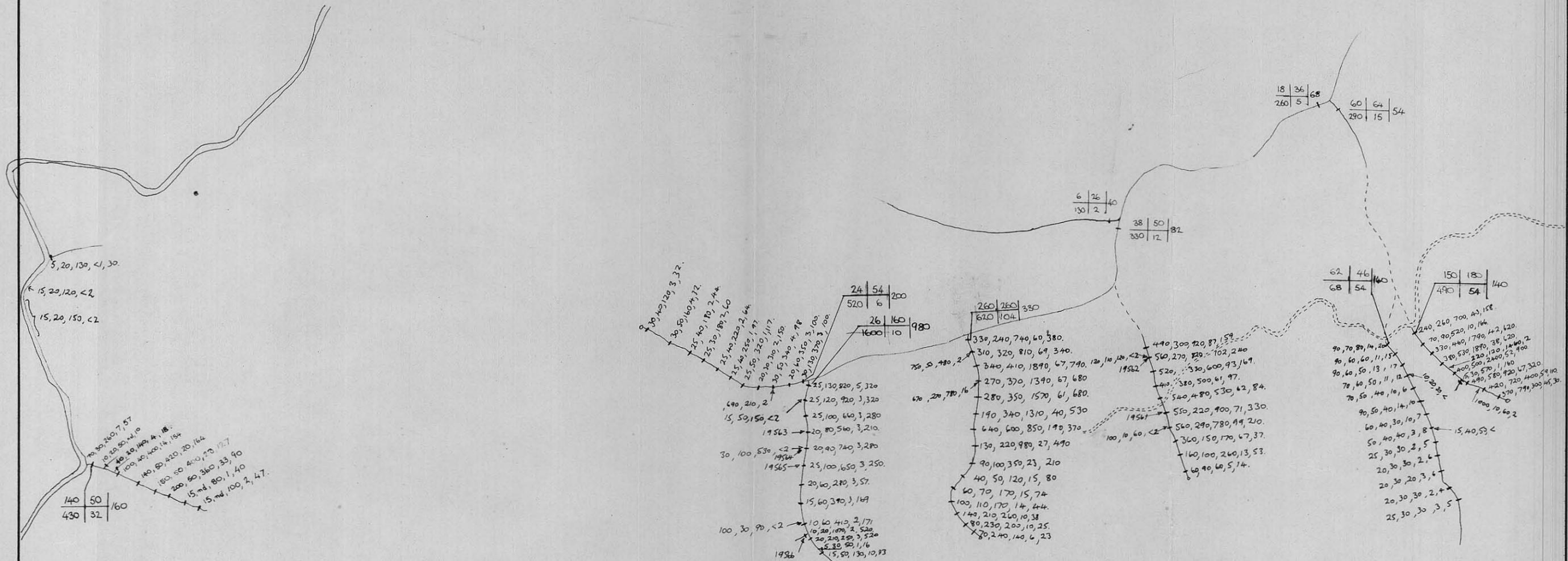


REFERENCE

- Exploration licence boundary
- Prospect location

FIG 1

ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7 73 PARADISE TASMANIA		
PROSPECT LOCATIONS		
<i>Fig 1</i>		
COMPILED R.G.B.	FILE	PLAN NO.
DRAFTED R.G.B.	DATE	
CHECKED		



REFERENCE

Cu	Pb	Cd	Zn	Reconnaissance Stream Sediment
Zn	Cu			Sample Result.

\swarrow Cu, Pb, Zn, Cd, Cu, Cd, Zn. Follow up Stream Sediment Sample Result

Rock Sample Results

\swarrow Cu, Pb, Zn, Ag.

q Head of creek.

SCALE 1:8700 (Approx)

0 50 100 200 metres.

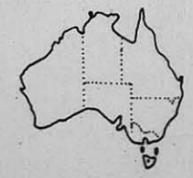
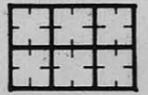
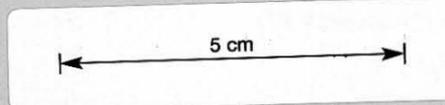
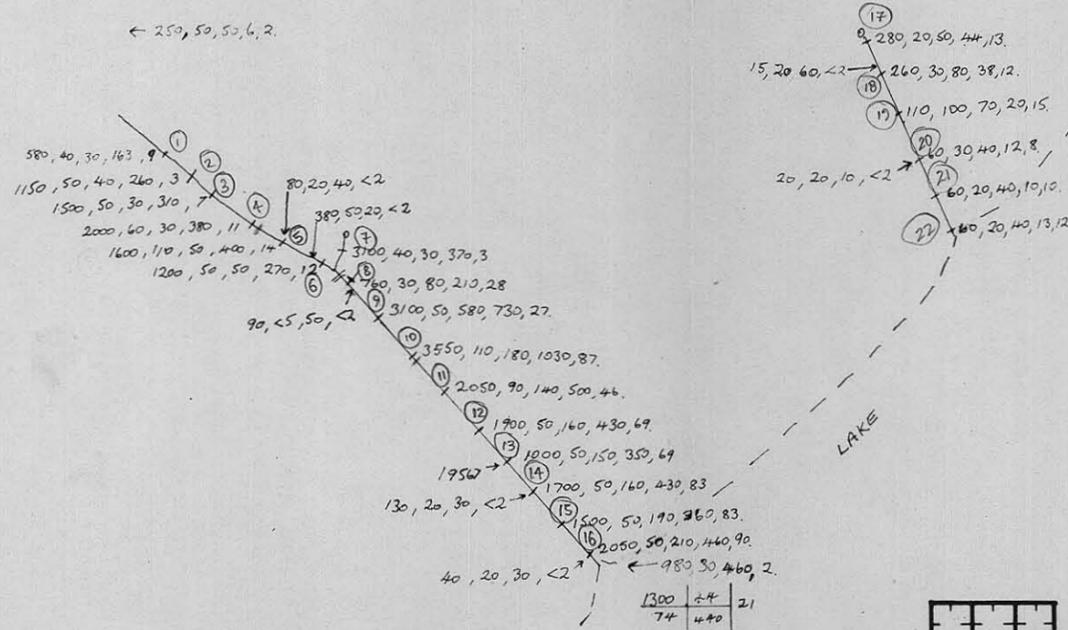
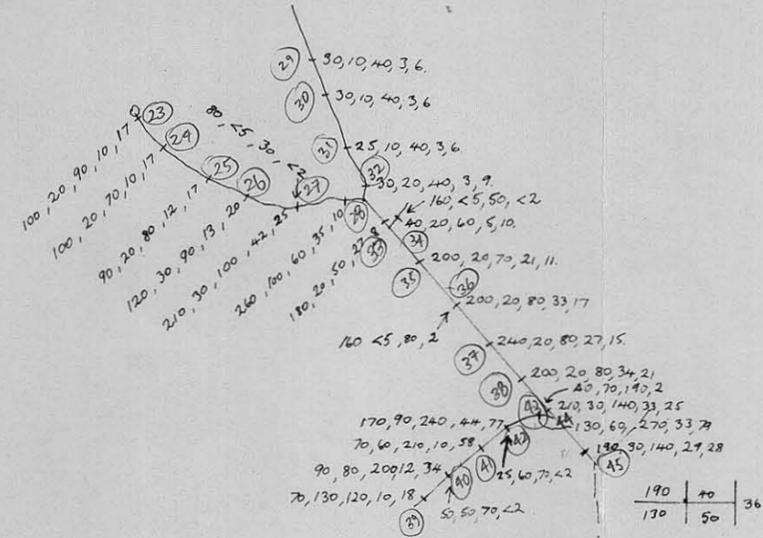


FIG. 2

ASARCO (AUSTRALIA) PTY. LTD.		
EL 7/73 PARADISE - TASMANIA		75-1076
GOG RANGE ANOMALY		011
FOLLOW UP RESULTS		Fig 2.
COMPILED:	FILE:	PLAN NO
DRAFTED: TONY WEBB		
CHECKED:	DATE: NOV 1974.	

Ⓢ : IN MINES SS DATABASE



REFERENCE

Cu	Pb	CxZn
Zn	CxZn	

 Reconnaissance Stream Sediment Sample

Cu	Pb	Zn	CxZn	CxZn
----	----	----	------	------

 Follow up stream sediment sample

Cu	Pb	Zn	Ag
----	----	----	----

 Rock Sample

SCALE 1:5,000.

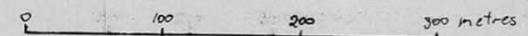


FIG 3

ASARCO (AUSTRALIA) PTY. LTD.

E.L. 7/73 PARADISE TASMANIA.

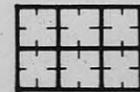
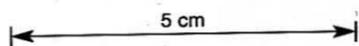
75-1076

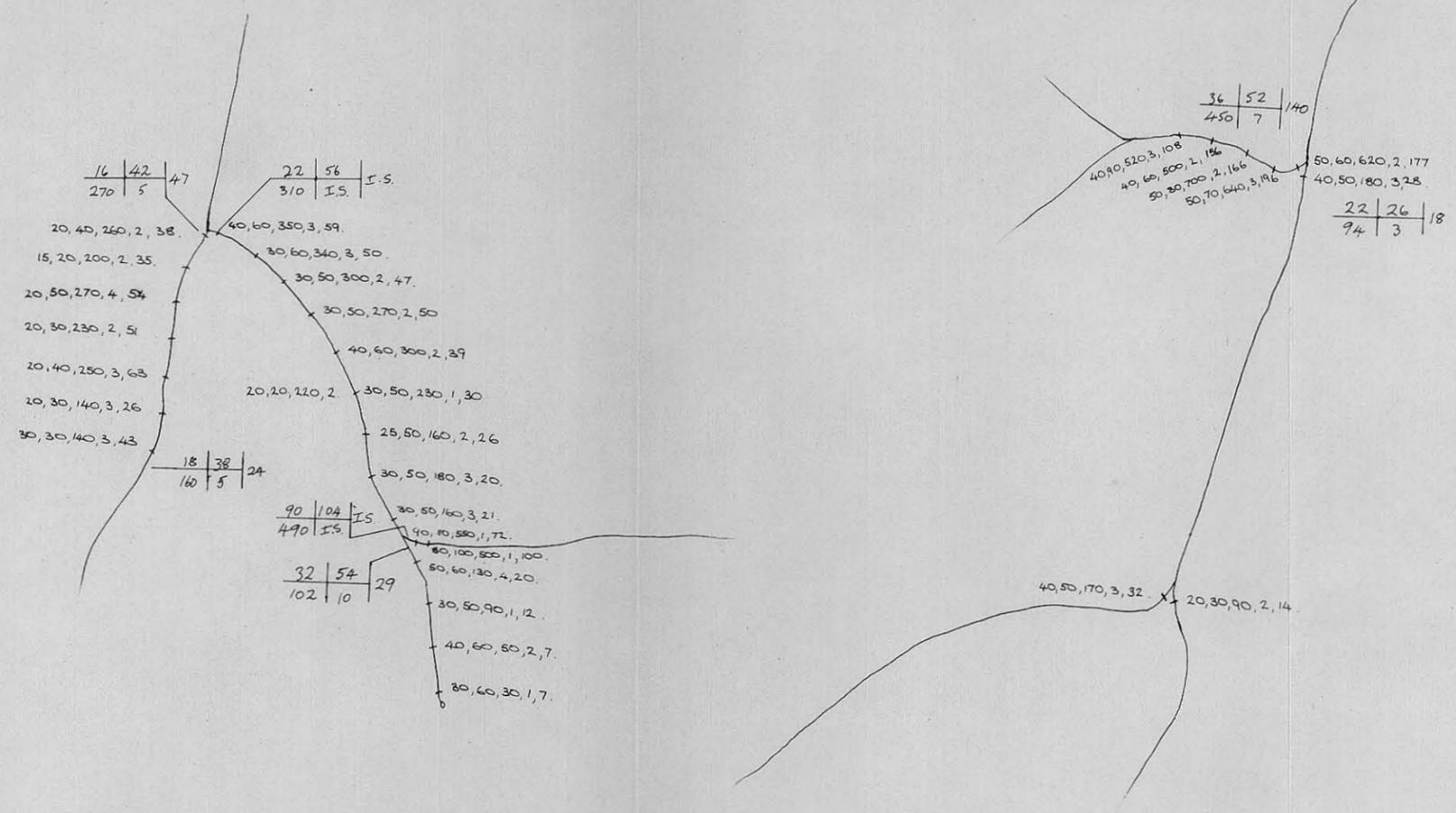
LAKE BARRINGTON ANOMALY

FOLLOW UP RESULTS (SKETCH MAP)

FIG. 3

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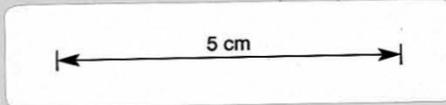


REFERENCE

- ⌘

Cu	Pb
Zn	Cu

 | Cu Zn Reconnaissance Stream Sediment Sample Result.
- f Cu Pb Zn | Cu Zn Follow up Stream Sediment Sample Result.
- ← Cu Pb Zn Ag Rock Sample Result.



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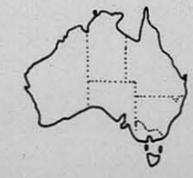
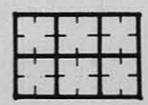
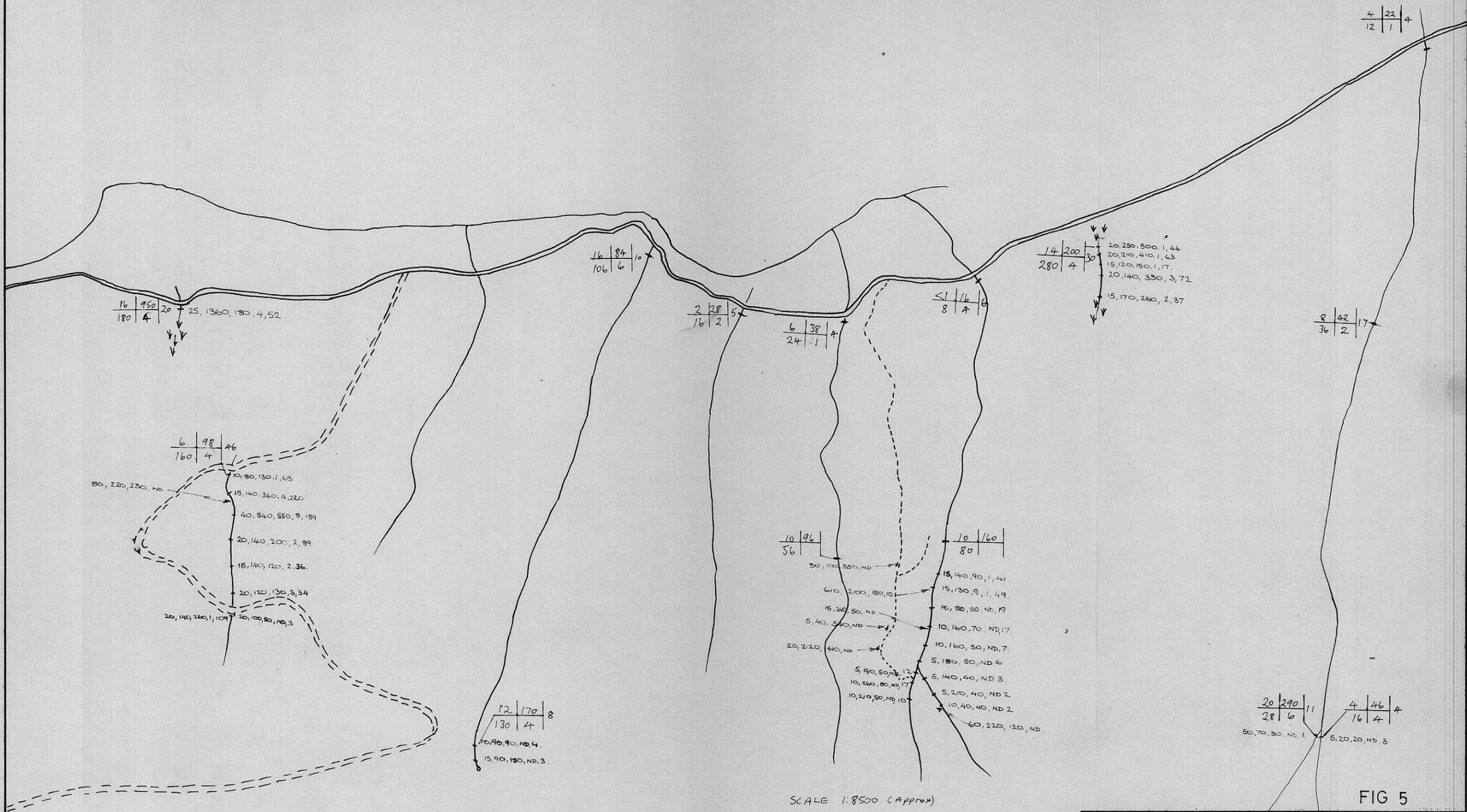


FIG 4

ASARCO (AUSTRALIA) PTY. LTD.		
EL7/73 PARADISE - TASMANIA		75-1076
EAST GOG RANGE ANOMALY		
FOLLOW UP RESULTS		FIG 4
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CHECKED:		



SCALE 1:8500 (Approx)

0 100 200 300 metres

REFERENCE

/ Cu Pb | cXZn Reconnaissance Stream Sediment Sample Result.
 Zn | cXZn
 / Cu Pb Zn cXcXZn Follow up Stream Sediment Sample Result.
 ← Cu Pb Zn Ag Rock Sample Result.

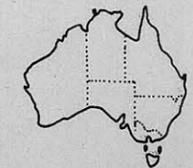
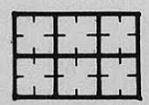
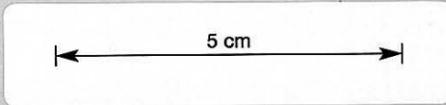


FIG 5

ASARCO (AUSTRALIA) PTY. LTD.		
EL 7/75 PARADISE TASMANIA 75-1076		
MT CLAUDE ANOMALY		
FOLLOW UP RESULTS FIG 5		
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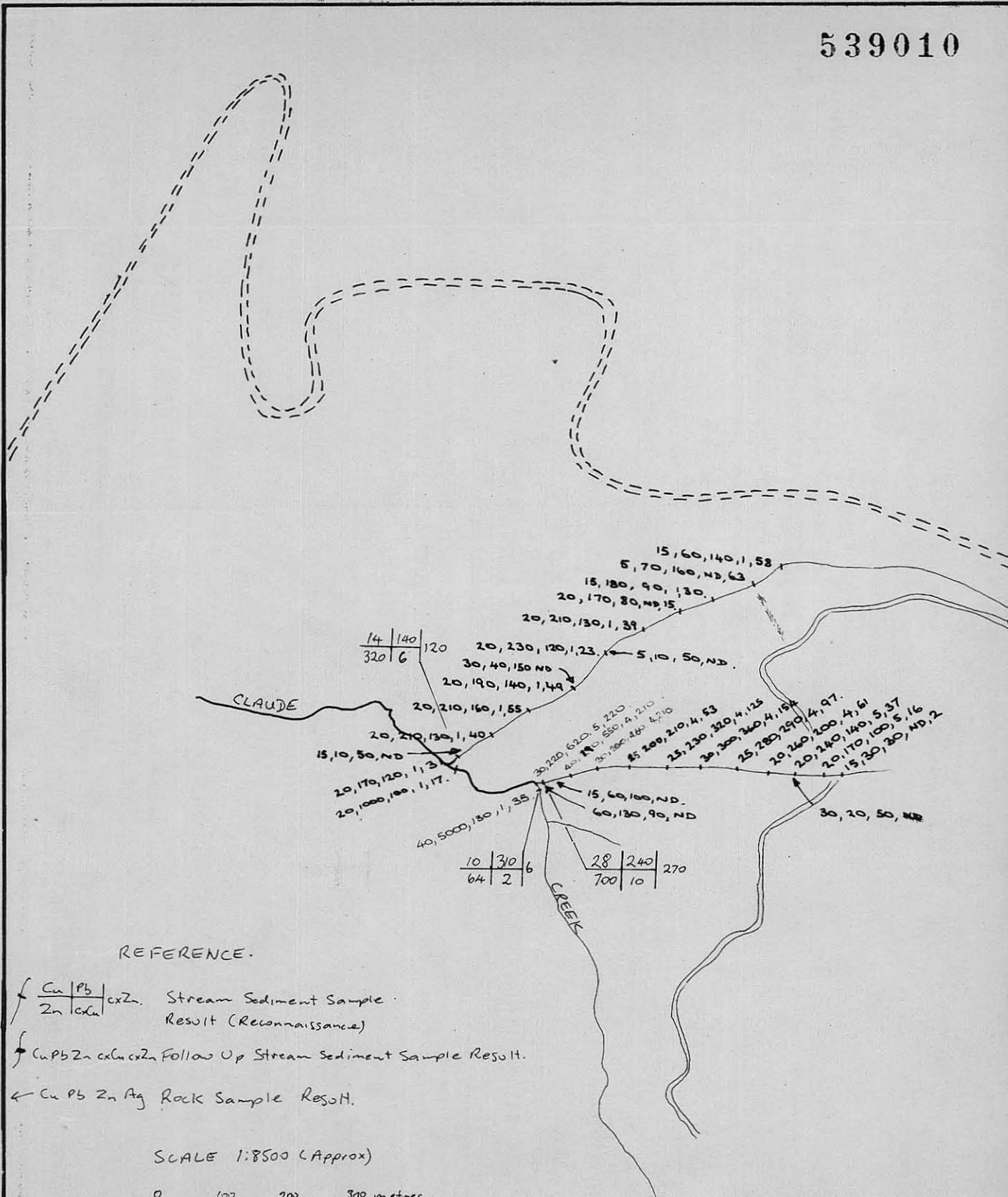
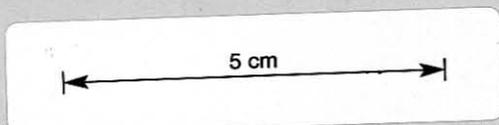


FIG 6



ASARCO (AUSTRALIA) PTY. LTD.		
E.L. 7/73 PARADISE, TASMANIA		75-1076
GETHANA ANOMALY		
FOLLOW UP RESULTS FIG 6		
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CHECKED:		

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SCALE 1:8400 (Approx)

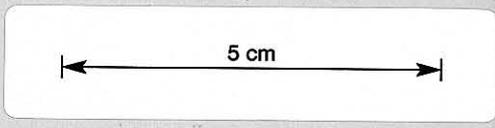
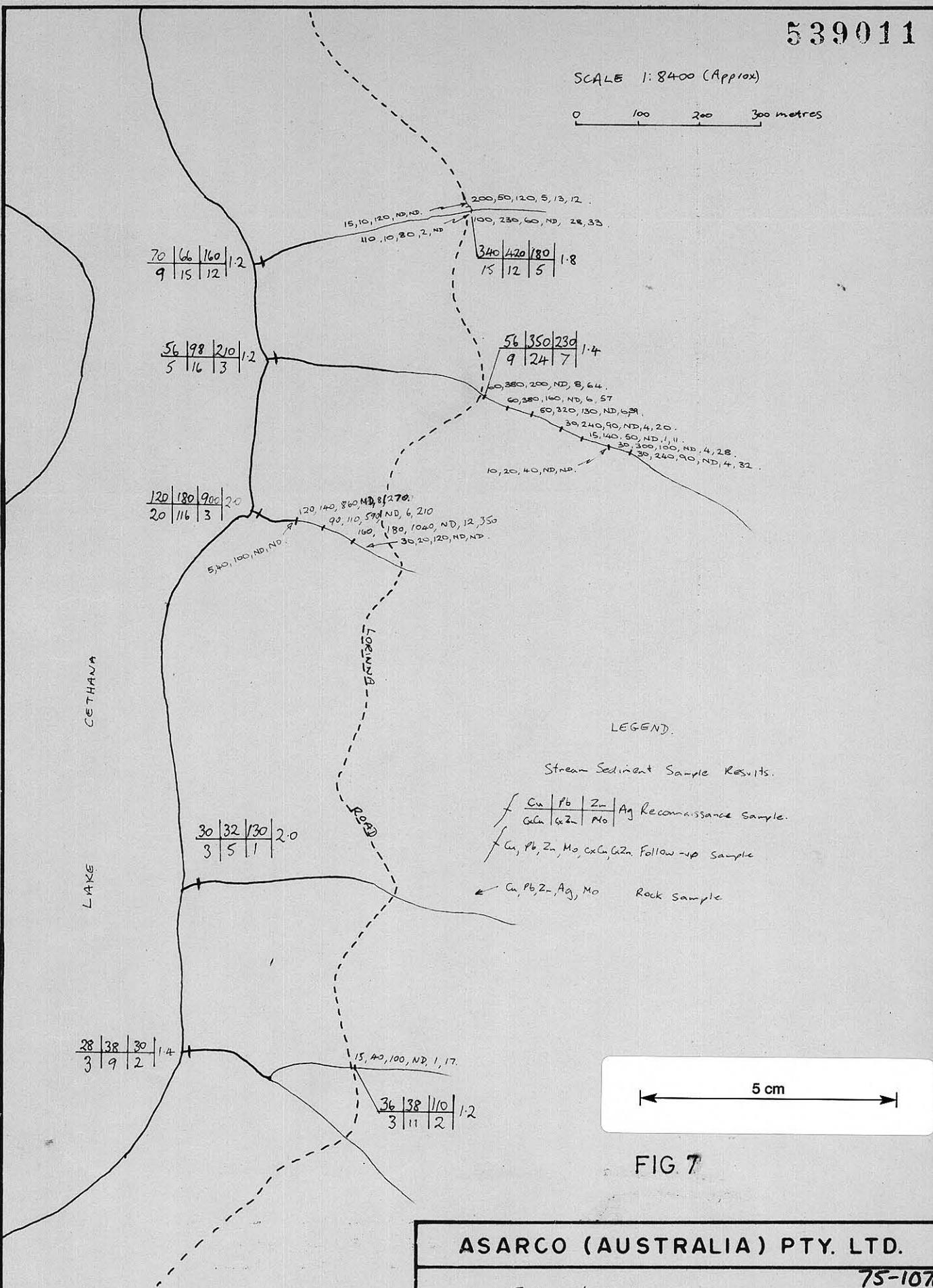
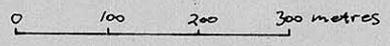
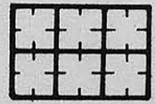
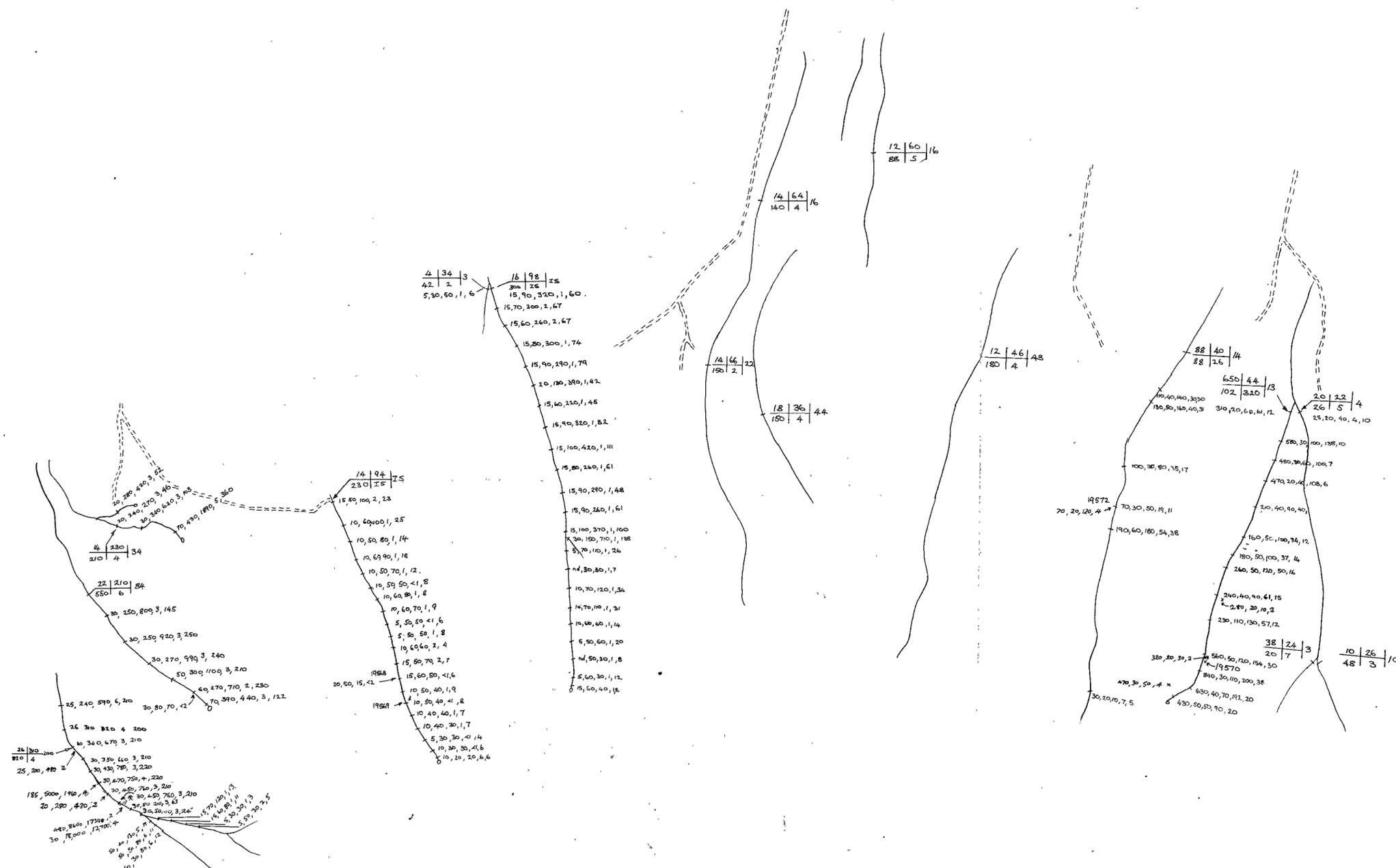


FIG 7



ASARCO (AUSTRALIA) PTY. LTD.		
E.L. 7/73 PARADISE, TASMANIA		75-1076
OLIVER HILL ANOMALY		
FOLLOW UP RESULTS		Fig. 7
COMPILED: R.G.B.	FILE:	PLAN NO
DRAFTED:		
CHECKED:	DATE: JAN 1975	



REFERENCE

$\begin{matrix} \text{Cu} & | & \text{Pb} \\ \text{---} & | & \text{---} \\ \text{Zn} & | & \text{Cd} \end{matrix}$ Reconnaissance stream sediment sample

$\begin{matrix} \text{Cu} & | & \text{Pb} & | & \text{Zn} & | & \text{Cd} & | & \text{Ag} \\ \text{---} & | & \text{---} & | & \text{---} & | & \text{---} & | & \text{---} \end{matrix}$ Follow-up stream sediment sample

$\begin{matrix} \text{Cu} & | & \text{Pb} & | & \text{Zn} & | & \text{Ag} \\ \text{---} & | & \text{---} & | & \text{---} & | & \text{---} \end{matrix}$ Rock sample

SCALE 1:8360 (Approx)

0 100 metres

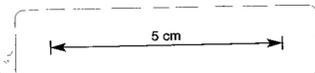
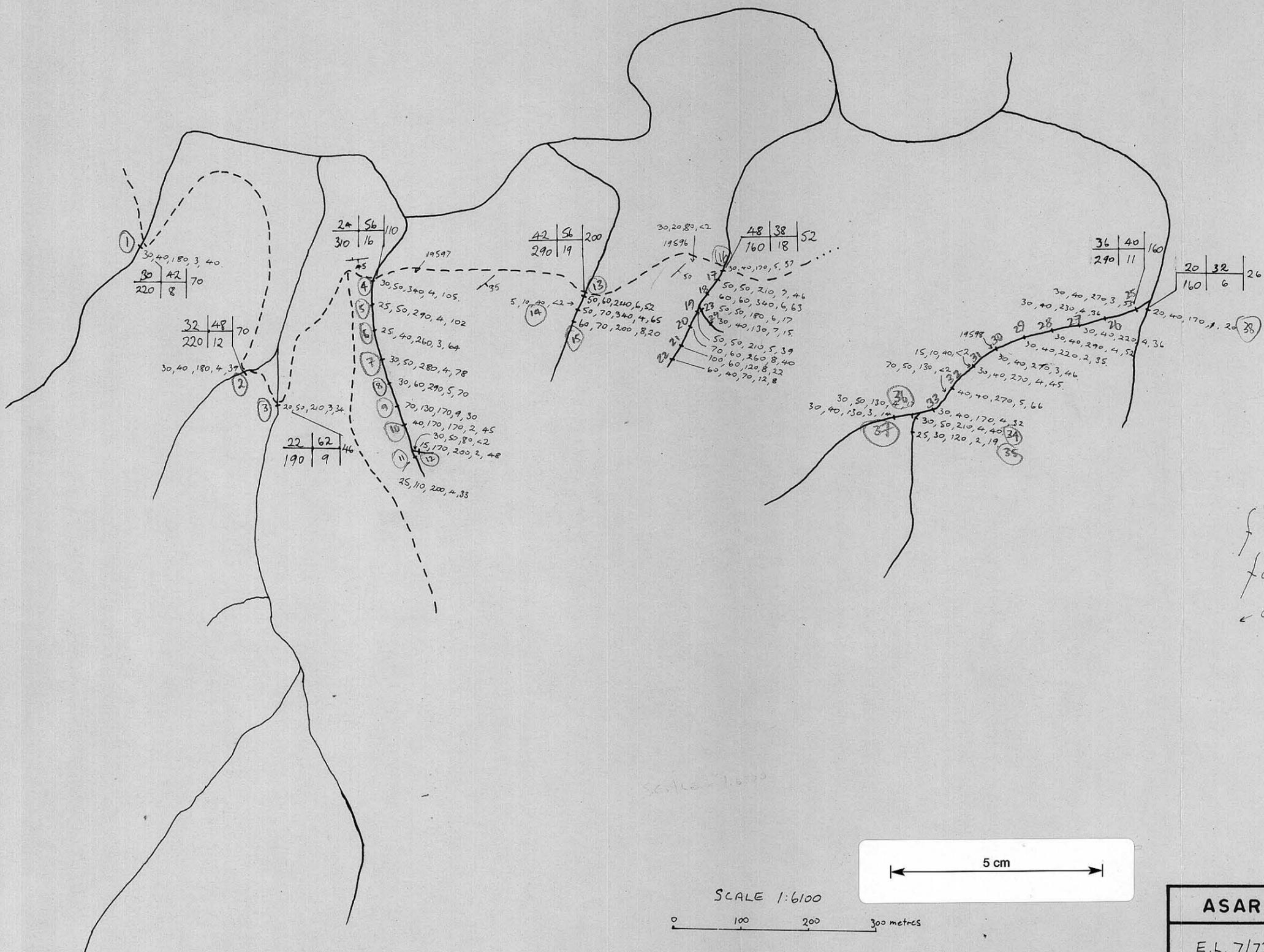


FIG 8

ASARCO (AUSTRALIA) PTY. LTD.		
E L 7/73 PARADISE TASMANIA.		75-1076
MT ROLAND ANOMALY		
STREAM SEDIMENT SAMPLE RESULTS		
FIG 8		
COMPILED: TONY	FILE	PLAN NO
DRAFTED: WEBB		
CHECKED	DATE: 15/11/74	



Scale 1:6100

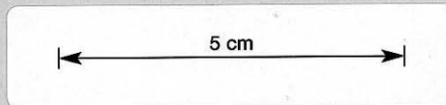
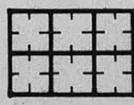
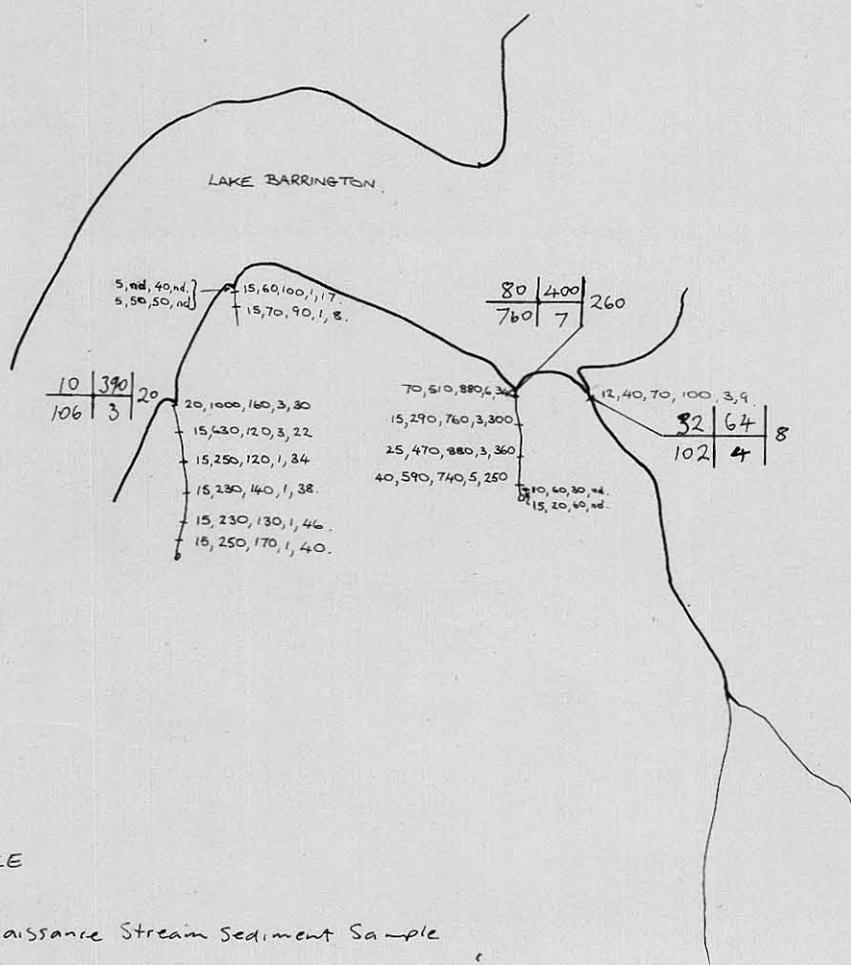


FIG. 9

ASARCO (AUSTRALIA) PTY. LTD.		
E.L. 7/73, PARADISE, TASMANIA.		75-1076
RAZORBACK RIDGE ANOMALY		
FOLLOW-UP RESULTS.		
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DRAFTED: RJB		016
CHECKED:	DATE: JAN 1975.	





REFERENCE

- f $\frac{Cu}{Zn} | \frac{Pb}{Cu}$ | cxZn Reconnaissance Stream Sediment Sample
- f Cu Pb Zn cxCu cxZn Follow Up Stream Sediment Sample
- ← Cu Pb Zn Ag Rock Sample.

SCALE 1:8500 (Approx)
0 100 200 300 metres

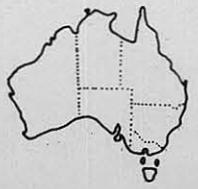
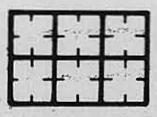
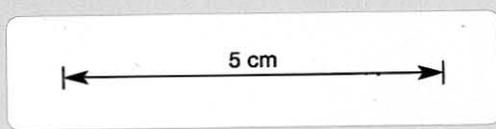


FIG 10

ASARCO (AUSTRALIA) PTY. LTD.		
E.L. 7/73 PARADISE TASMANIA.		75-1076
STAVERTON ANOMALY		
FOLLOW UP RESULTS.		
FIG 10		
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DRAFTED: TONY WEEB		
CHECKED:	DATE: NOV 1974	

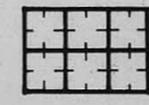
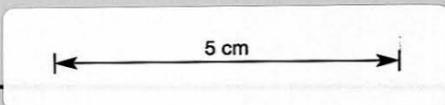


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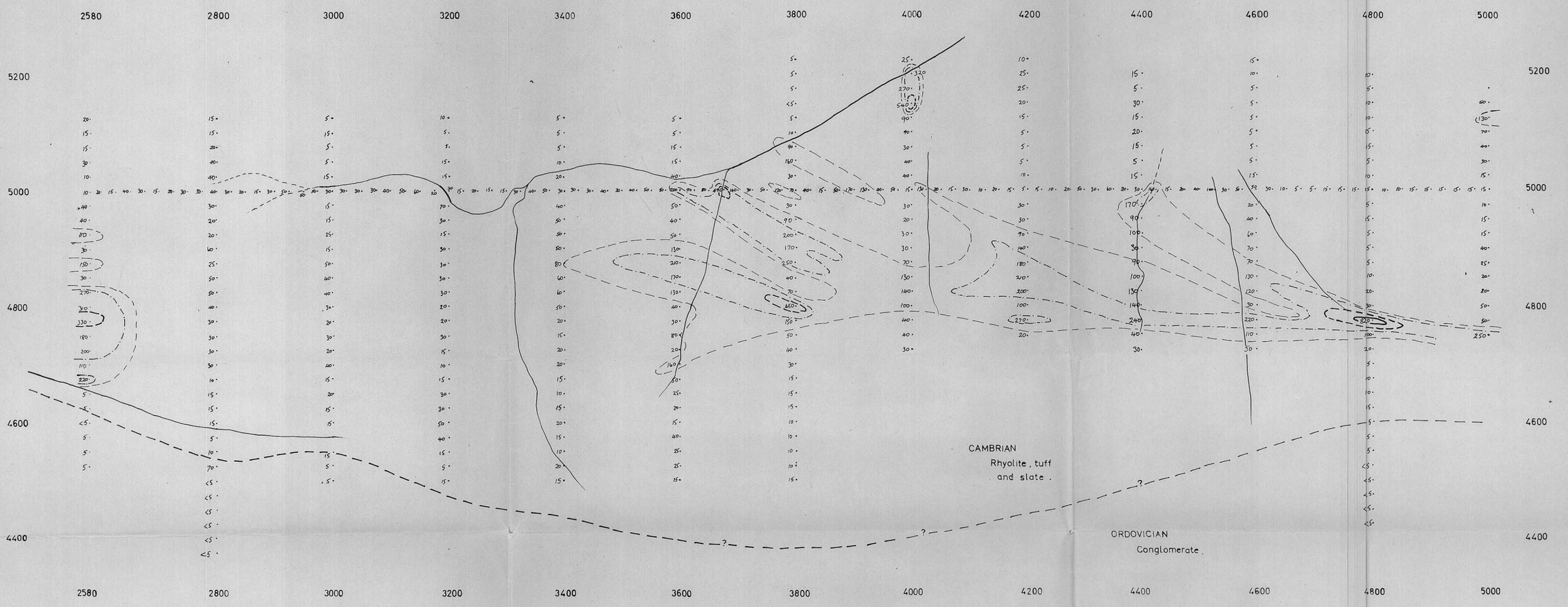
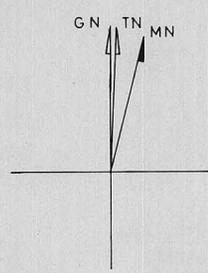
- ✓ $\frac{Cu}{Zn} \frac{Pb}{Cd} \frac{Ag}{Zn}$ Reconnaissance Stream Sediment Sample Result.
- ✓ $Cu Pb Zn \frac{Ag}{Cu} \frac{Au}{Zn}$ Follow up Stream Sediment Sample Result.
- ← $Cu Pb Zn Ag$ Rock Sample Result.

FIG 11

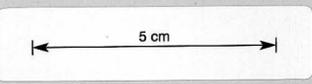
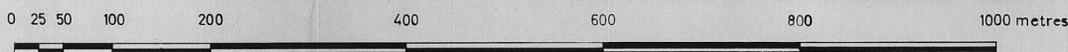
SCALE 1:8900 (Approx)



ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE, TASMANIA		
WILMOT ANOMALY: FOLLOW UP RESULTS		
FIG 11		
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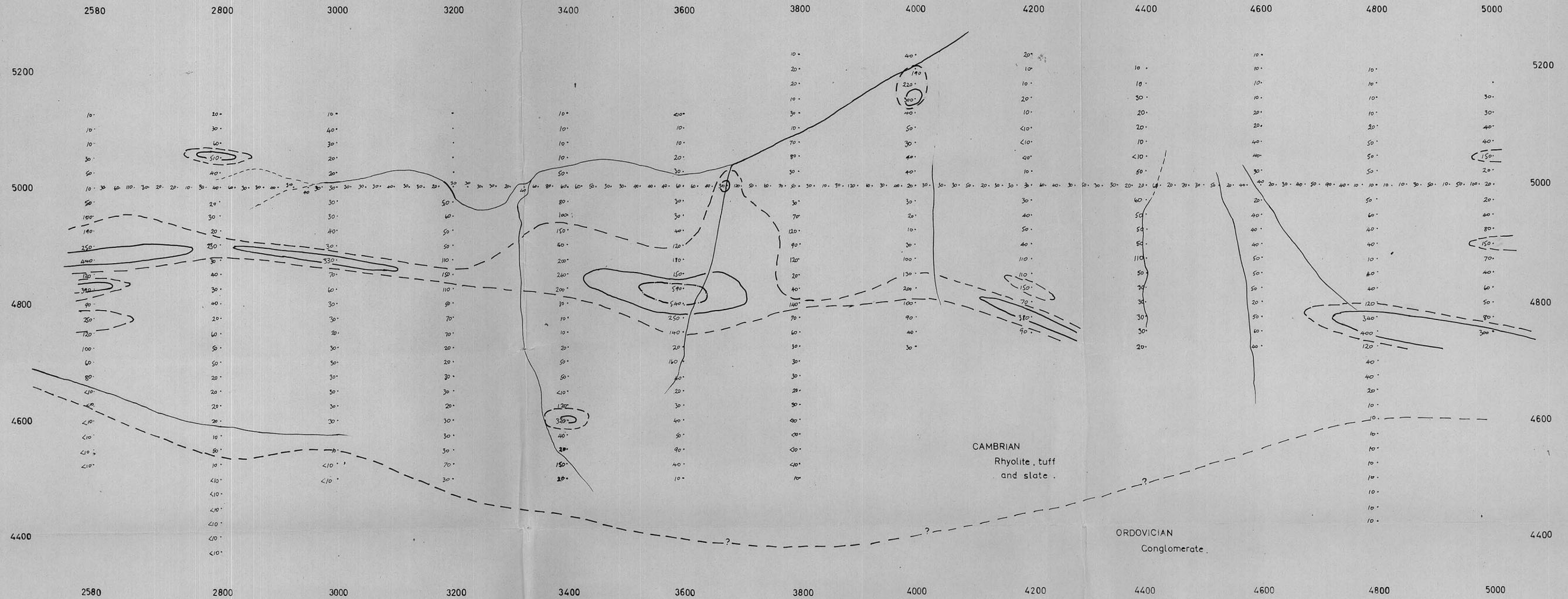
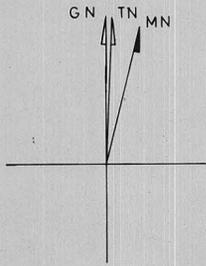


CONTOURS

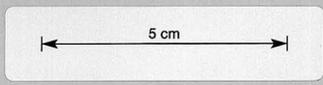
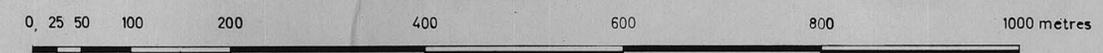
- 80 parts per million
- - - 160 " " "
- - - 320 " " "
- 640 " " "

FIG 12a

ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT		
SOIL SAMPLE RESULTS — COPPER		
<i>Fig 12a</i>		
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SCALE 1 : 5000

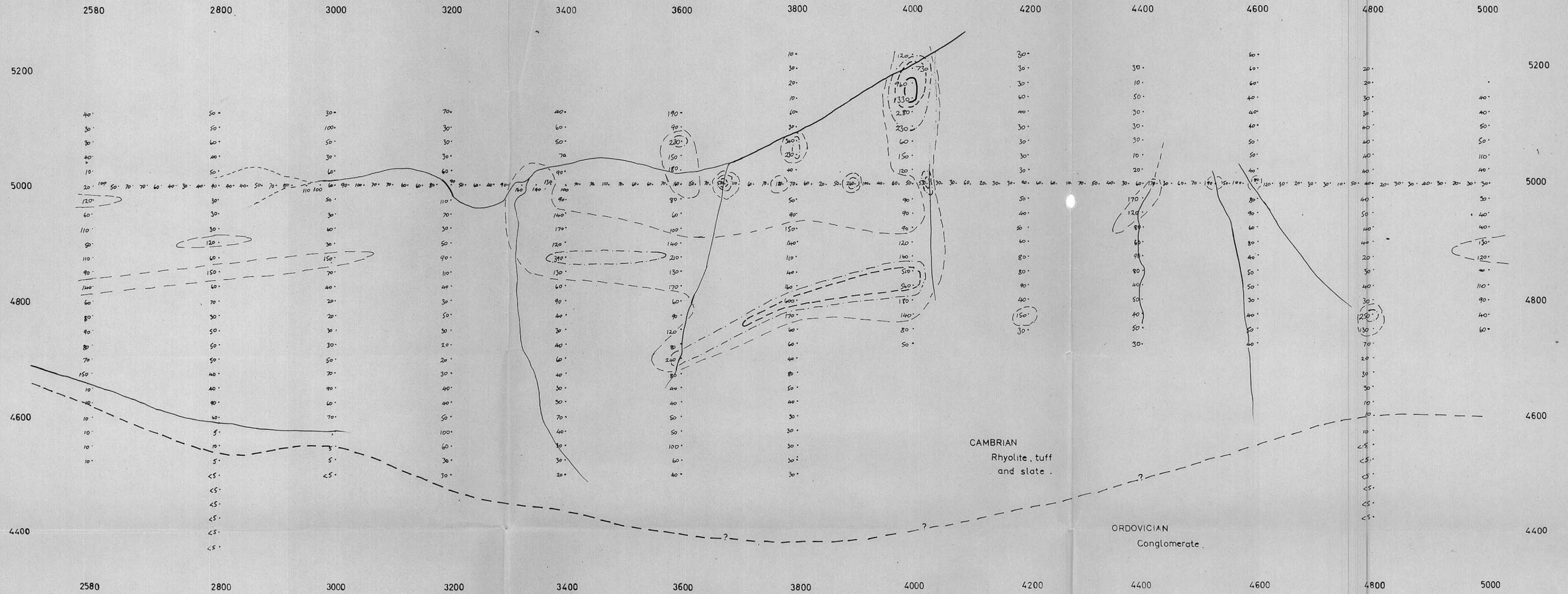
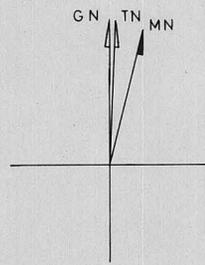


CONTOURS

- - - 130 parts per million
- 260 " " "
- · - 520 " " "

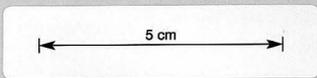
FIG 12b

ASARCO (AUSTRALIA) PTY. LTD.		75-1076
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT		
SOIL SAMPLE RESULTS		LEAD <i>Fig 12b</i>
COMPILED RB and	FILE	PLAN N°
DRAFTED: AW	DATE: JAN 1975	019
CHECKED:		



SCALE 1 : 5000

0 25 50 100 200 400 600 800 1000 metres



CONTOURS

- 110 parts per million
- - - 220 " " "
- 440 " " "
- 880 " " "

FIG 12c

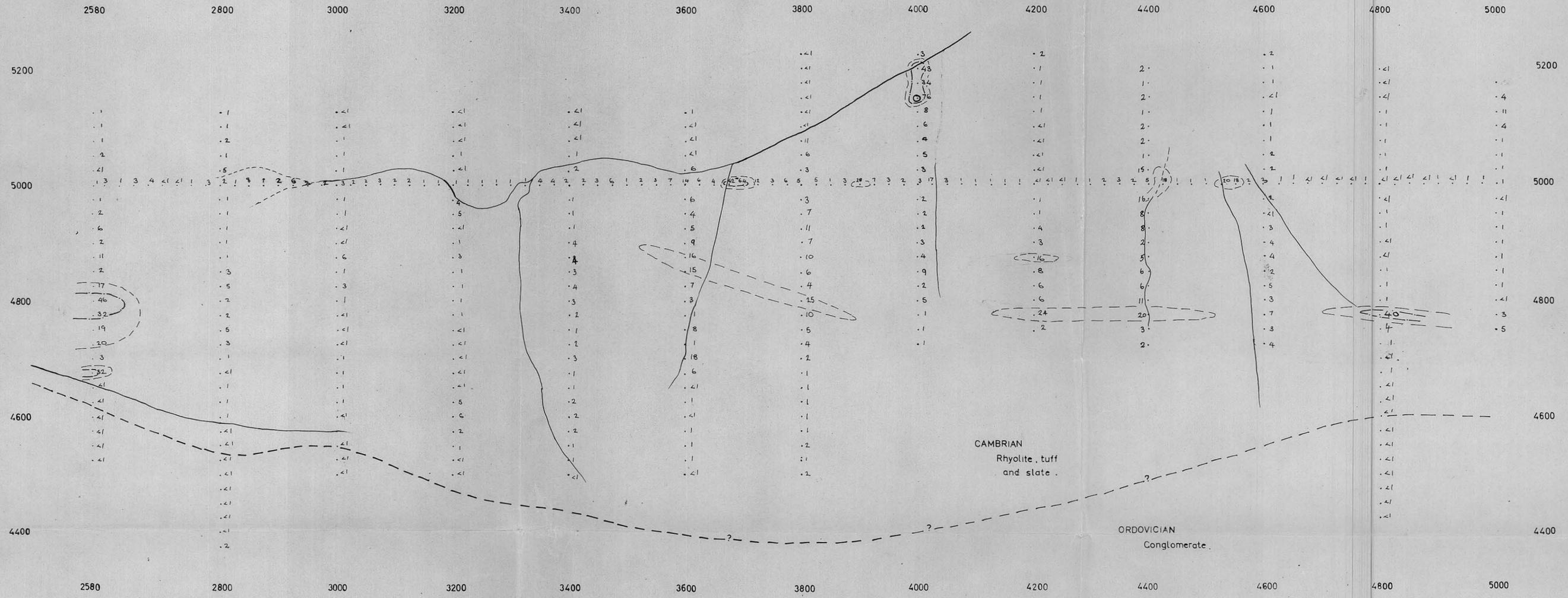
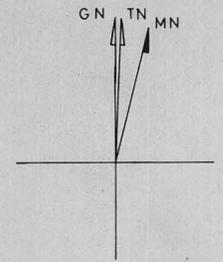
ASARCO (AUSTRALIA) PTY. LTD.

75-1076

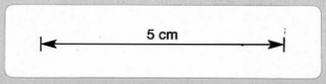
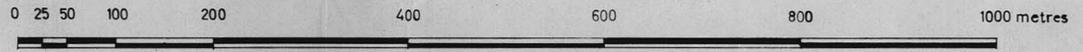
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT

SOIL SAMPLE RESULTS ZINC *Fig 12c*

COMPILED: RB and	FILE	PLAN NO
DRAFTED: AW	DATE: JAN 1975	020
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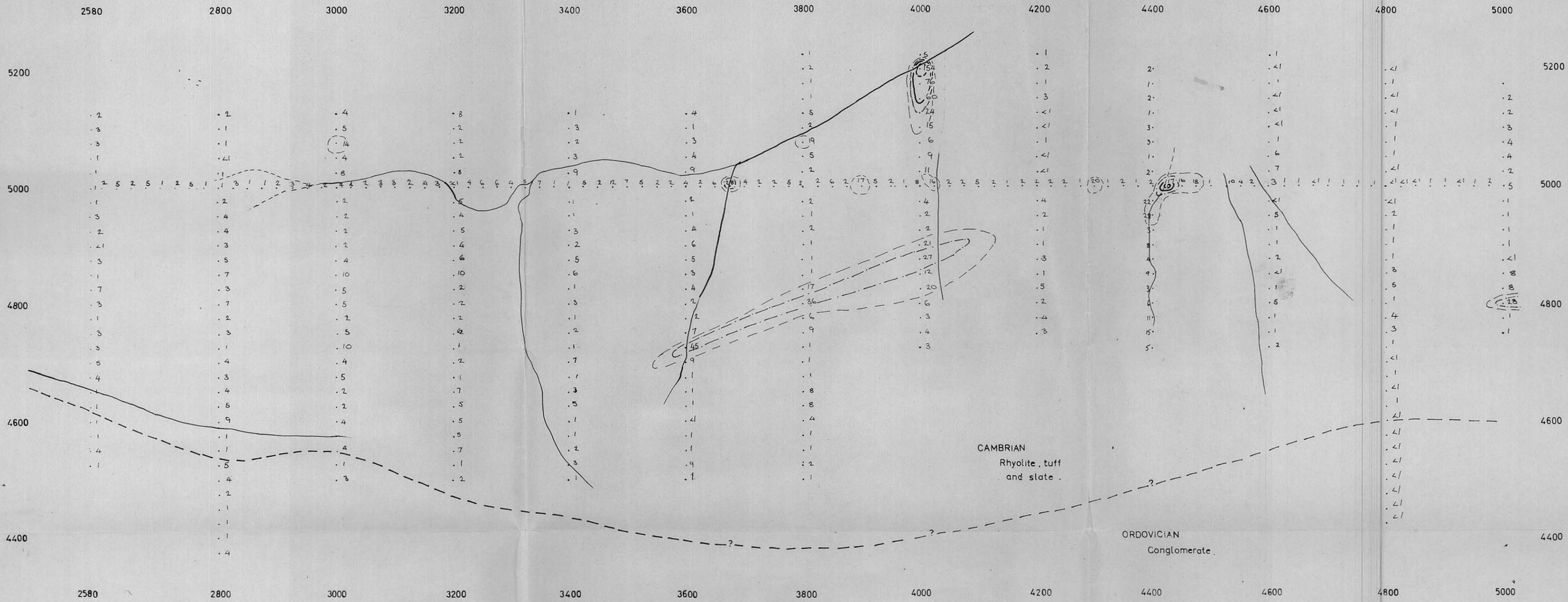
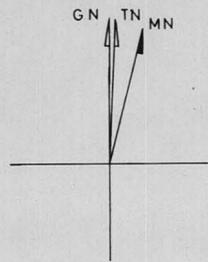
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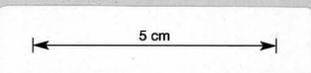
- CONTOURS
- - - 15 parts per million
 - - - 30 " " "
 - - - 60 " " "

FIG 12d

ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT		
SOIL SAMPLE RESULTS CX COPPER		
<i>Fig 12d</i>		
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SCALE 1 : 5000



CONTOURS

---	12	parts per million
---	24	" " "
---	48	" " "
---	96	" " "

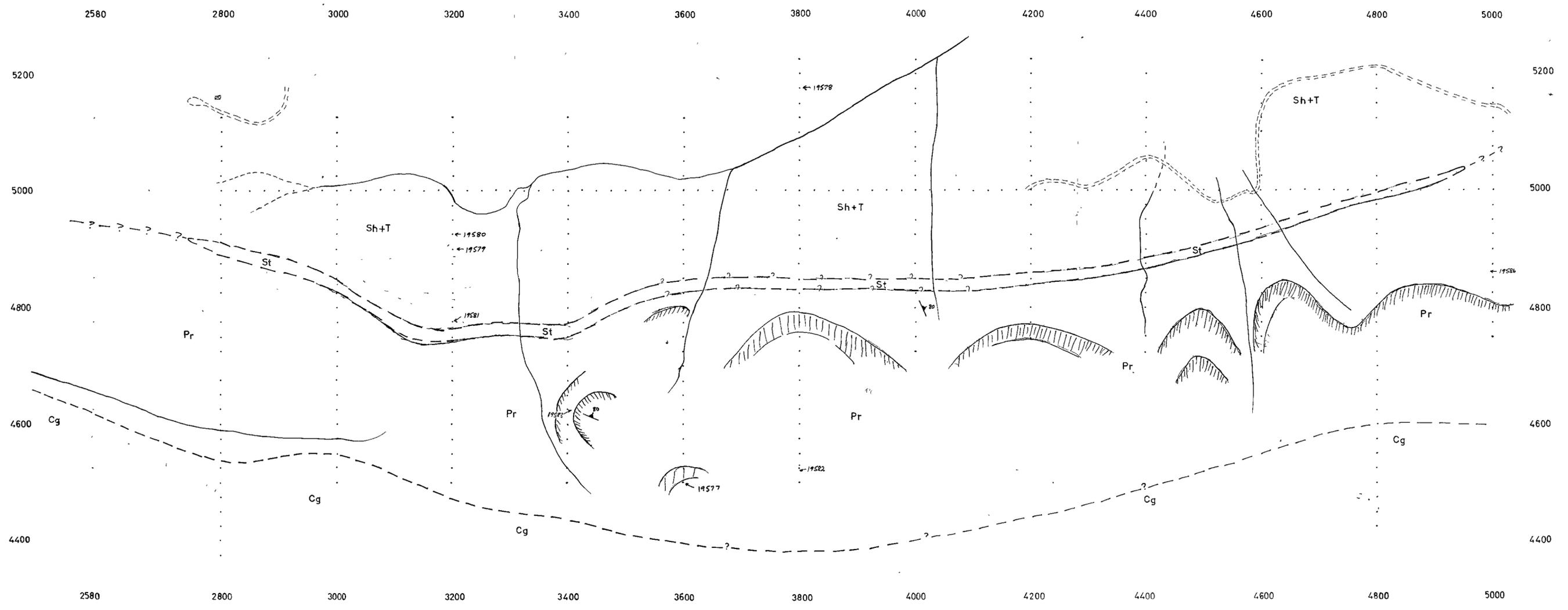
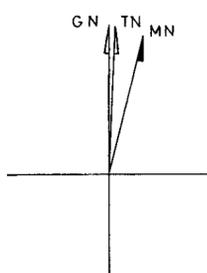
ASARCO (AUSTRALIA) PTY. LTD.
75-1076
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT
SOIL SAMPLE RESULTS CX ZINC
Fig 12e

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CHECKED:		

FIG 12e

LEGEND

- Cg Massive siliceous conglomerate
- Pr Porphyritic rhyolite with minor fine grained tuff and siltstone
- St Carbonaceous pyritic siltstone and silty shale
- Sh+T Siltstone, shale, tuffaceous sandstone, lithic crystal tuff, rhyolite tuff. Tuffaceous rocks predominate west of line 3400E
- Cliffs of massive porphyritic rhyolite
- Foliation



SCALE 1 5000

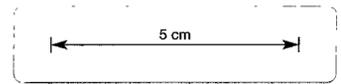
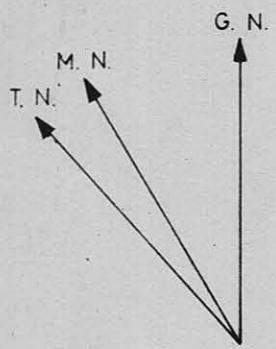
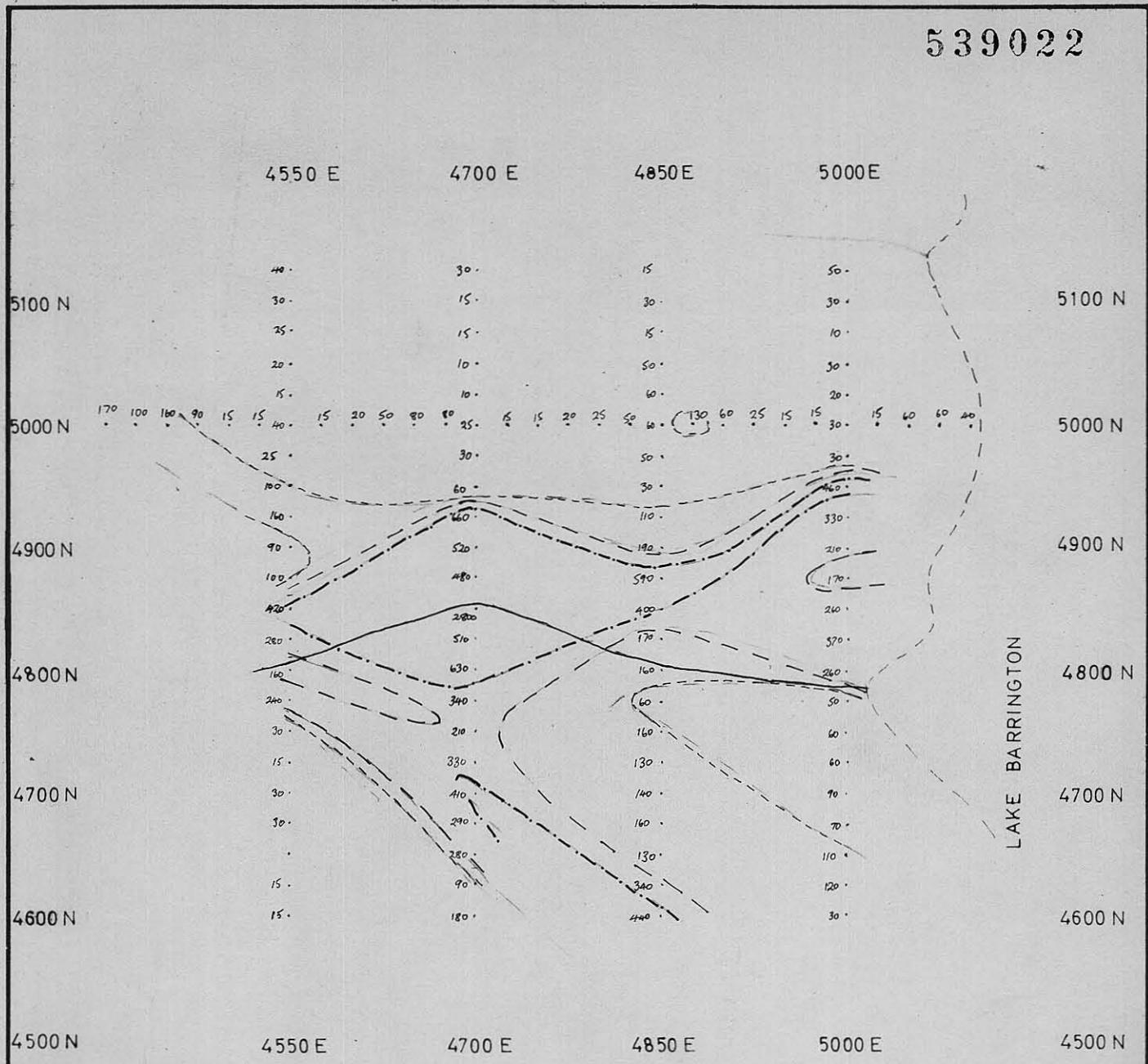


FIG 12f

ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: GOG RANGE PROSPECT		
GEOLOGY		
<i>FIG 12f</i>		
COMPILED RB and DRAFTED AW CHECKED	FILE DATE JAN 1975	PLAN N° 023

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SCALE 1:5000

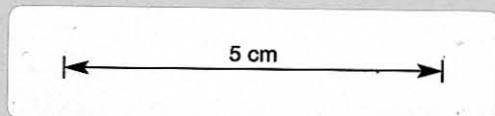
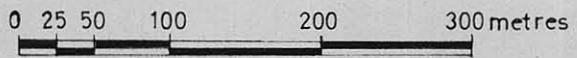
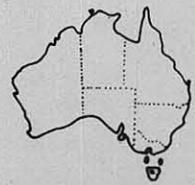
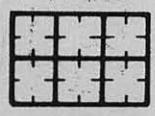


FIG 13a



ASARCO (AUSTRALIA) PTY. LTD.

75-1076

EL 7/73 PARADISE TASMANIA: LAKE BARRINGTON PROSPECT

SOIL SAMPLE RESULTS

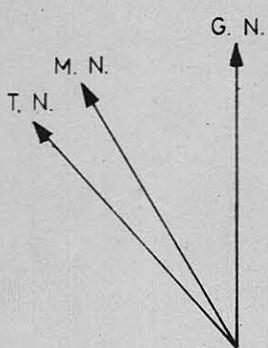
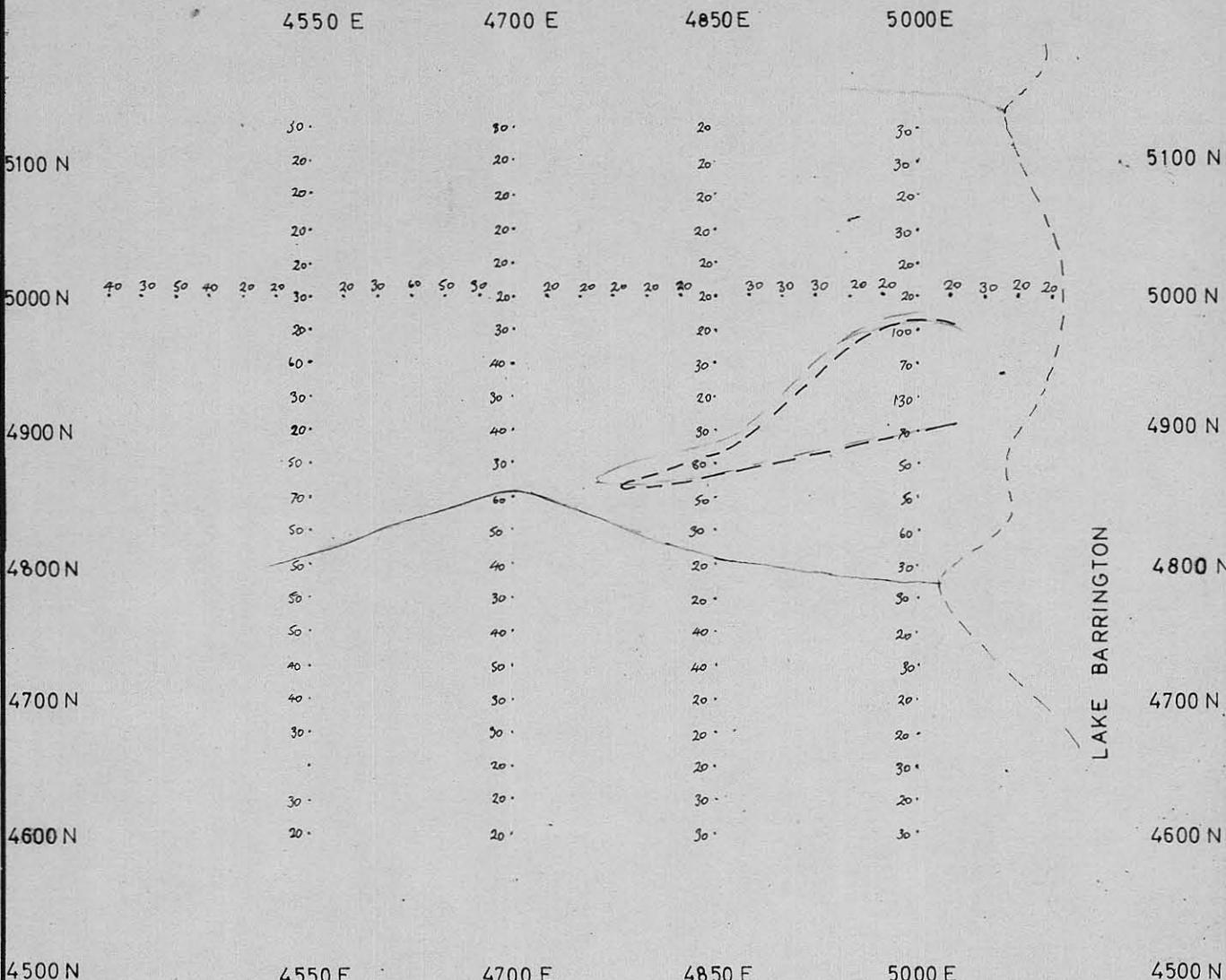
COPPER

Fig 13a

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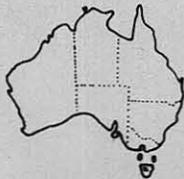
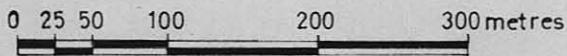
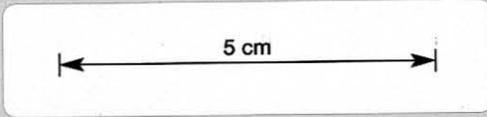


FIG 13b

ASARCO (AUSTRALIA) PTY. LTD.

75-1076

EL 7/73 PARADISE, TASMANIA: LAKE BARRINGTON PROSPECT

SOIL SAMPLE RESULTS

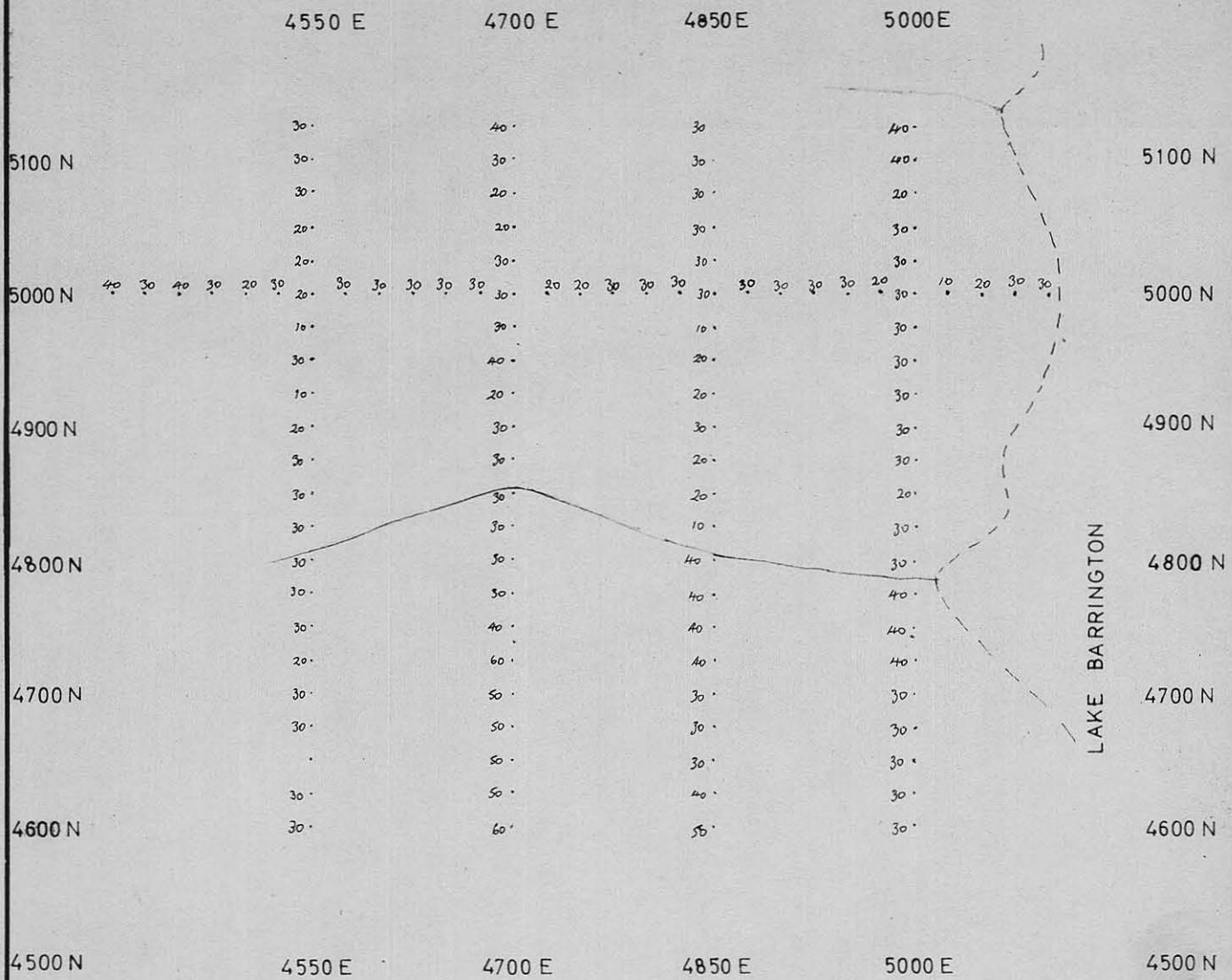
LEAD

Fig 13b

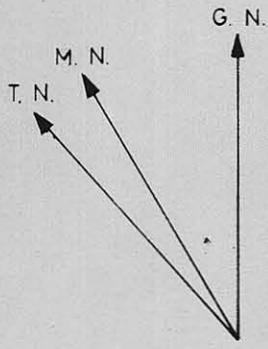
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LAKE BARRINGTON



SCALE 1:5000

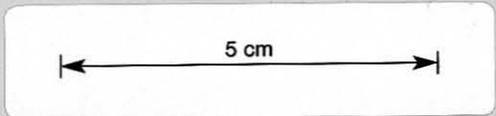
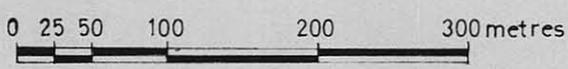
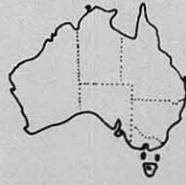
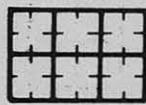


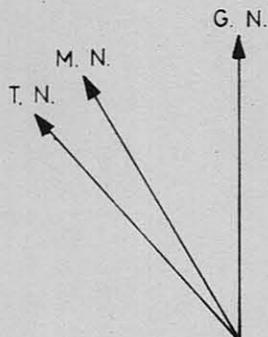
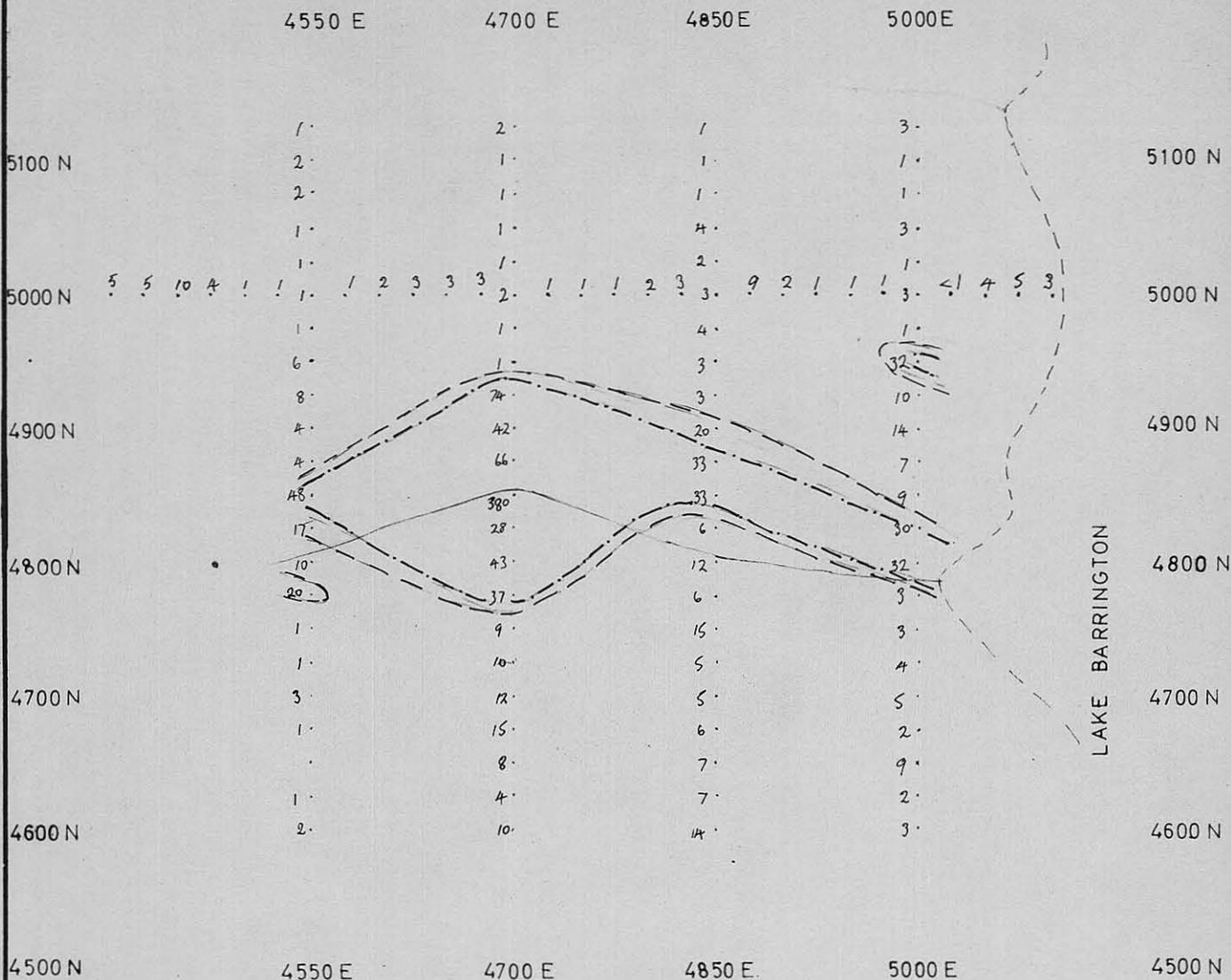
FIG 13c



ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: LAKE BARRINGTON PROSPECT		
SOIL SAMPLE RESULTS		
ZINC		
<i>Fig 13c</i>		
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CHECKED:	DATE:	

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SCALE 1:5000

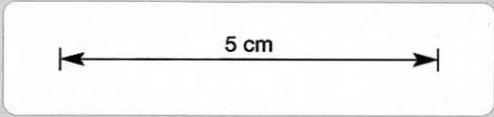
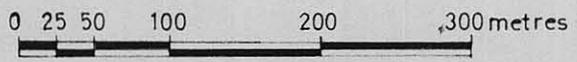
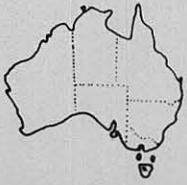
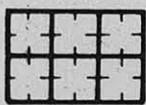


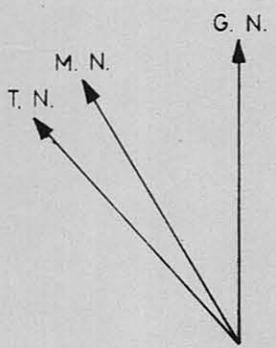
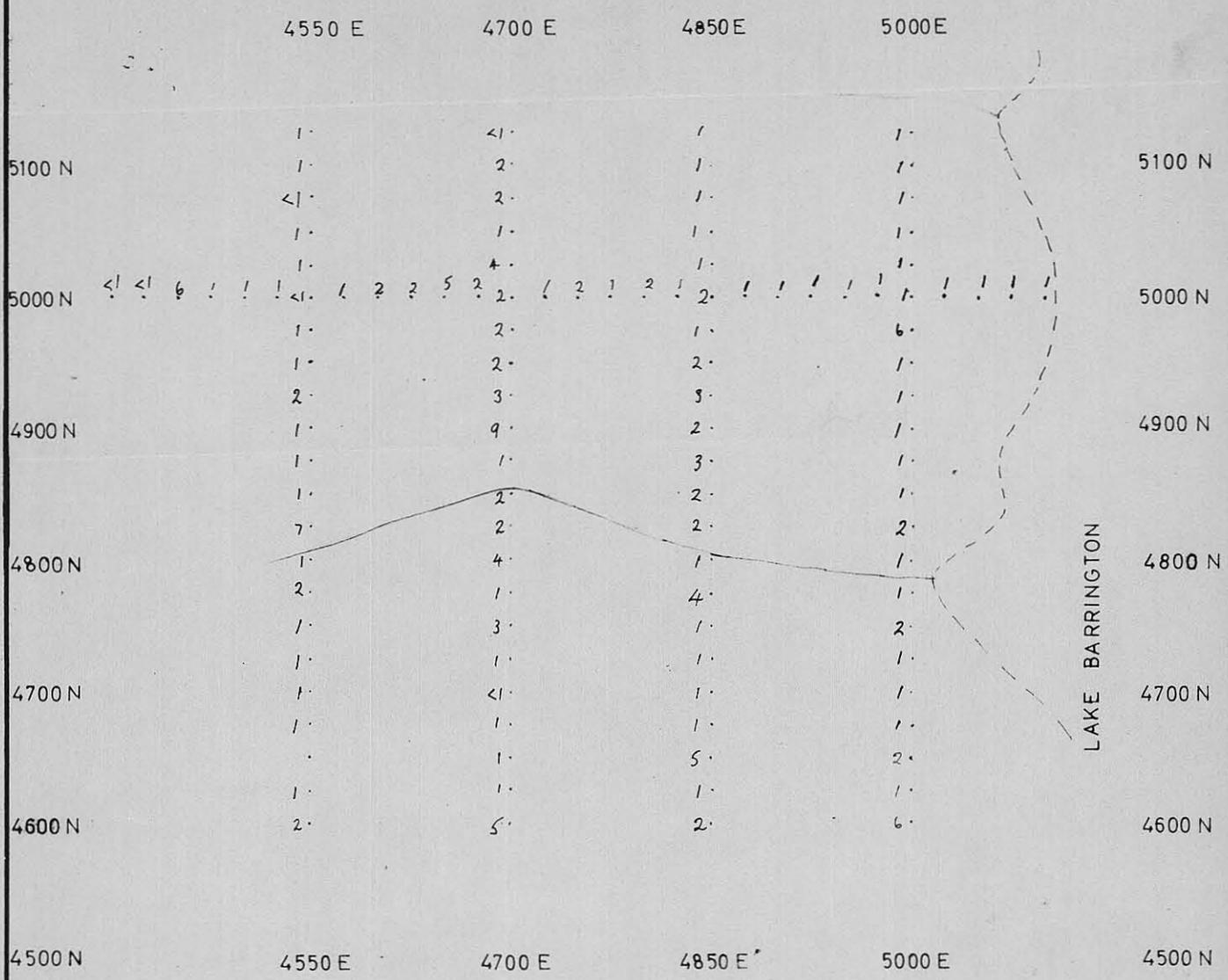
FIG13d



ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: LAKE BARRINGTON PROSPECT		
SOIL SAMPLE RESULTS		
CX COPPER		
<i>FIG 13 d</i>		
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SCALE 1:5000

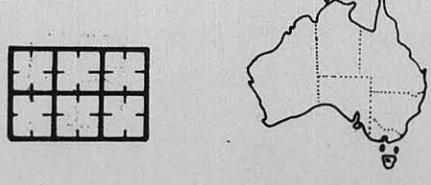
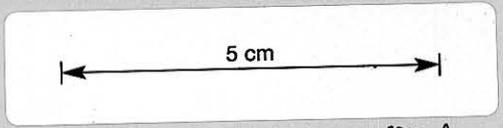
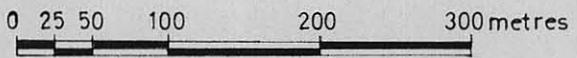
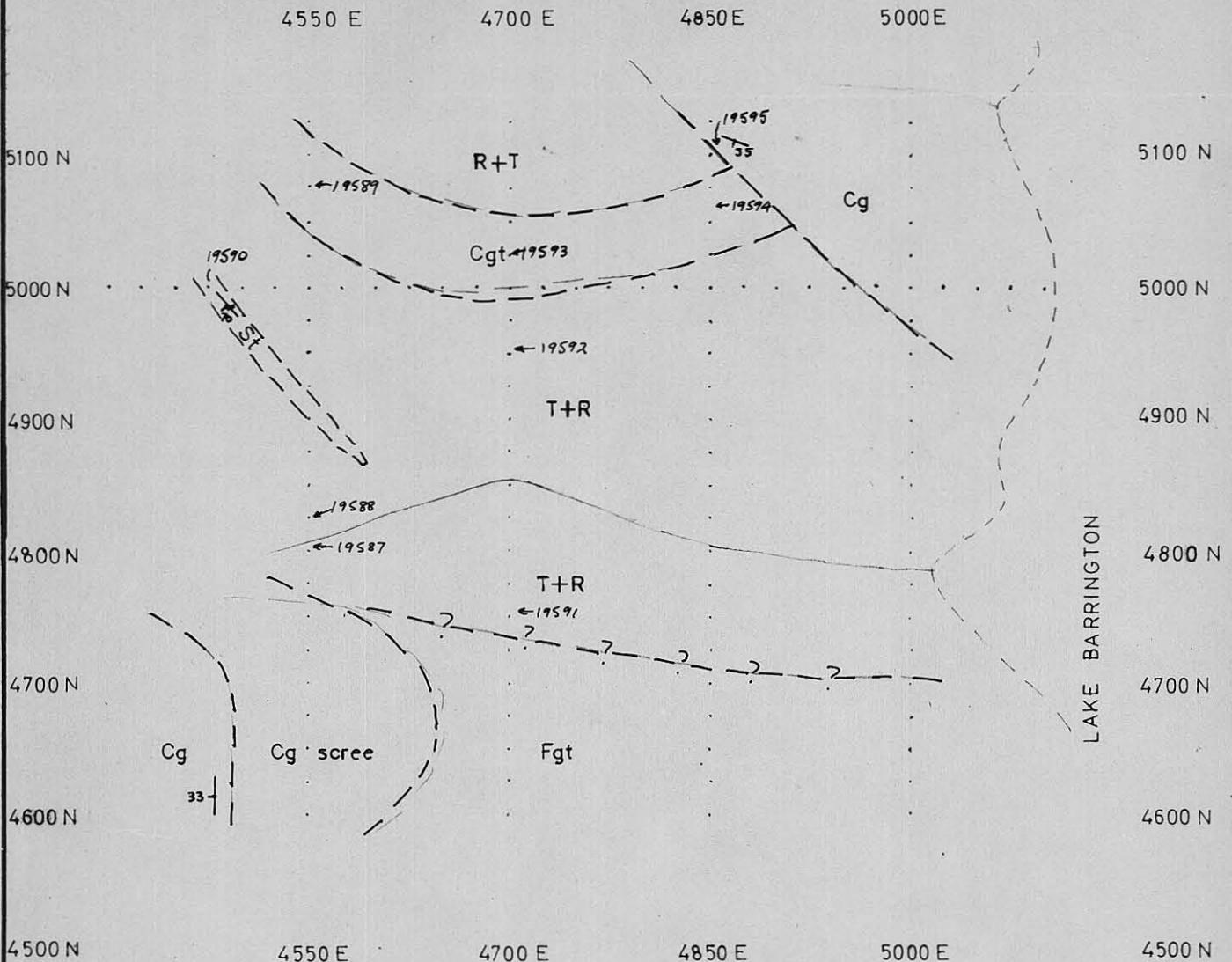


FIG 13e

ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE TASMANIA: LAKE BARRINGTON PROSPECT		
SOIL SAMPLE RESULTS:		
CX ZINC		<i>Fig 13e</i>
COMPILED:	FILE:	PLAN N°
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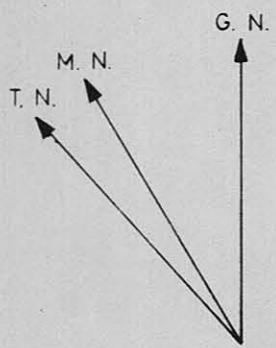
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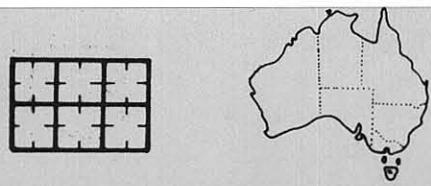
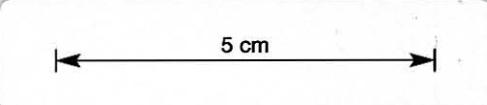
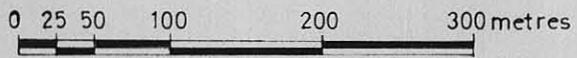
LEGEND

Cg	Massive boulder conglomerate: coarse and fine sandstone.
unconformity	
Fgt	Fine grained acid tuff.
T+R	Fine grained acid tuff: porphyritic rhyolite.
St	Brecciated siltstone.
Cgt	Coarse grained tuff: indurated tuffaceous sandstone; siltstone.
R+T	Porphyritic rhyolite: fine grained acid tuff.

FIG 13f



SCALE 1:5000



ASARCO (AUSTRALIA) PTY. LTD.

75-1076

EL 7/73 PARADISE TASMANIA: LAKE BARRINGTON PROSPECT

SOIL SAMPLE SURVEY

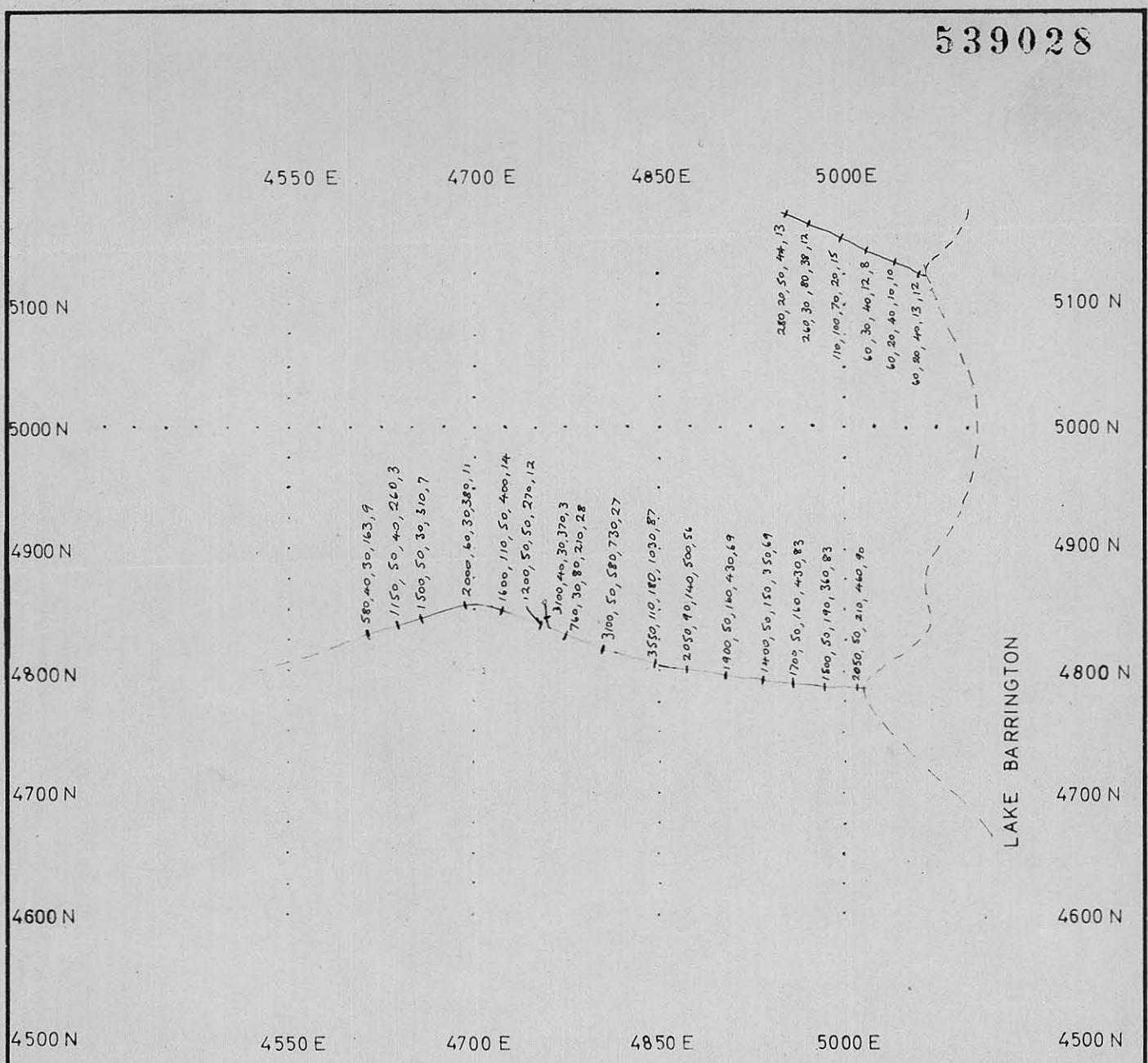
GEOLOGY

Fig 13f

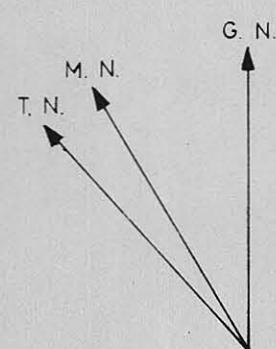
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LAKE BARRINGTON



Stream sediment sample results (p.p.m.)
 Cu, Pb, Zn, Cd, Cr

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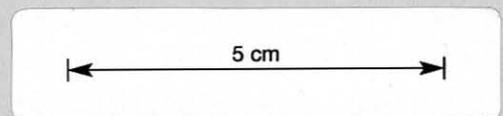
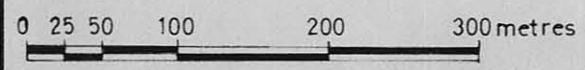
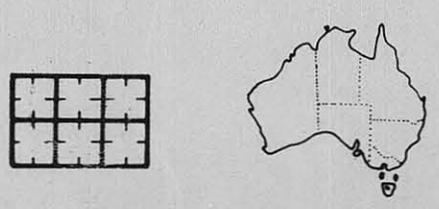


FIG13g



ASARCO (AUSTRALIA) PTY. LTD.		
75-1076		
EL 7/73 PARADISE, TASMANIA: LAKE BARRINGTON PROSPECT		
SOIL SAMPLE SURVEY		
STREAM SEDIMENT SAMPLE RESULTS		
<i>FIG 13g</i>		
COMPILED: R.G.B.	FILE:	PLAN N°
DRAFTED: R.G.B.	DATE: Jan 1975	
CHECKED:		