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Cyprus Gold Australia Corporation

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MISPLACED

PROGRESS REPORT

12 MONTHS TO JUNE 1988

EXPLORATION LICENCE 40/85

ELLIOTT BAY

TASMANIA

OPEN FILE

C TORREY, R POLTOCK,
J SUPPREE

JUNE 1988

REPORT 595

CYPRUS

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Project Location

SUMMARY AND CONCLUSIONS

A sequence of felsic volcanic rocks at Elliott Bay in southwest Tasmania is considered to be the southernmost extension of the Mount Read Volcanic Belt. Five world-class polymetallic massive sulfide deposits occur in these rocks north of Macquarie Harbor.

The 1987/88 season's field work on EL 40/85 concentrated on drill testing of the North Lewis and Wart Hill prospects. Other work included:

- Detailed soil sampling at the Wart Hill, East Camp, Sassy Creek and Low Rocky Point prospects
- Stream sediment sampling on the eastern margin of the Low Rocky Point Granite
- An air photo and magnetic lineament interpretation
- Compilation of Geopeko's geophysical data by Mitre Geophysics
- Downhole SIROTEM survey at Wart Hill.

Diamond drilling at the North Lewis prospect delineated a zone of brecciation, faulting and quartz-tourmaline-chlorite-pyrite veining over a strike length of 600 meters. Results were disappointing with no values in excess of 1 g/t gold being obtained.

Diamond drilling at Wart Hill was more encouraging with the best intercept being 8 meters of 1.21% lead and 3.1% zinc in WH2. This included a zone of 1 meter which returned 3.4% lead and 10.67% zinc. Drilling has delineated a previously unrecognized intercalated sequence of massive sulfide-bearing epiclastics and rhyolitic tuffs. Massive sulfides occur as sphalerite-galena-pyrite-rich fragments within epiclastic layers.

Soil sampling undertaken at Wart Hill prior to drilling aided better definition of structure and stratigraphy of the mineralized horizon. Petrographic and geochemical studies suggest strong similarities between massive sulfides at Wart Hill and deposits further to the north.

Soil sampling at Sassy Creek failed to locate zones of gold anomalism further to the south of the zone already drilled. Soil sampling at East Camp failed to reproduce the level of anomalism outlined in the previous Geopeko survey. Soil and sediment sampling on the margins of the Low Rocky Point Granite indicate the presence of anomalous gold.

Work completed this year included:

- Geophysical compilation by Mitre Geophysics
- Collection of 1005 soil samples
- Collection of 9 stream sediment samples (-80 mesh and panned concentrated)
- Collection of 20 rockchip samples
- Drilling of 927 meters of HQ and NQ core combined
- Assaying of approximately half of the core
- Analyses for copper, lead, zinc, gold, silver, barium and arsenic

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- A total of approximately 5 line kilometers of gridding or line construction was undertaken
- Core logging and detailed geological mapping
- Interpretation of air photographs and magnetic lineaments
- Petrographic descriptions of core samples at Wart Hill
- Downhole SIROTEM survey.

RECOMMENDATIONS

- Detailed review of geophysical and geochemical data from the Wart Hill-East Camp zone
- Continued drilling at Wart Hill in order to define the extent of epiclastic sequence
- Detailed structural mapping at Wart Hill
- Drilling of targets defined in review
- Drilling of coincident geochemical/geophysical anomalies at East Camp
- Assay all available soil pulps for barium and drill targets
- Re-evaluation of UTEM data

- Re-assess data from the Drake Creek prospect (Voyager 3) in the light of published data on the zinc ratio

- Further evaluation of gold anomalies on the margin of the Low Rocky Point Granite by soil sampling

- Diamond drill assessment of the Sassy Creek (Voyager 24) gold-rich horizon

- Follow-up of magnetic anomalies outlined by J Bishop in the geophysical review

- Trench sampling of lead-zinc anomalies and detailed soil sampling on Line 8800N at Waterloo Creek (see previous 12 monthly report, Report 525).

INTRODUCTION

This report details the activities and results of mineral exploration in the Elliott Bay Exploration Licence 40/85 (EL 40/85), located in southwest Tasmania for the period June 1987 to June 1988. Exploration has been conducted by Cyprus Gold Australia Corporation (formerly Cyprus Minerals Australia Company) on behalf of joint venture partners, Cyprus Gold and Poseidon Limited.

Work to June 1988 comprises three parts as follows:

- Regional appraisal of photographic and magnetic lineament data
- Prospect evaluation including diamond drilling
- Compilation of Geopeko's geophysical data by Mitre Geophysics (Appendix 1)

In addition Cyprus has continued to support university based student studies into various styles of mineralization of Elliott Bay. Sam Garrett from the University of Tasmania is currently undertaking a study of gold mineralization in the southeastern part of the licence.

Field operations commenced on January 5, 1988 with a crew comprising of three geologists, four field assistants, a cook and a helicopter pilot. All operations were conducted from the Tasmanian Mines Department camp at Wart Hill. Drilling crews and equipment were mobilized on January 18, 1988. Separate driller camps were established at drill sites. A small on-site helicopter (Bell 47) was leased for the duration of the field season. Field work ceased on March 3, 1988.

LOCATION, ACCESS AND LOGISTICS

The Elliott Bay Exploration Licence (EL 40/85) is located on the southwest coast of Tasmania approximately 85 kilometers south-southeast of Strahan (Figure 1). Ground access to the area is via barge from Strahan across Macquarie Harbor to Birchs Inlet thence by tracked vehicle (Bombardier). Tracks have been established by previous mining companies and originally serviced the Low Rocky Point Lighthouse.

Due to the inaccessibility of this area, aircraft, both helicopter and fixed wing were used for the transportation of equipment, supplies and personnel throughout the program. Table 1 summarizes the amount of flight time per aircraft, as well as its function in the field.

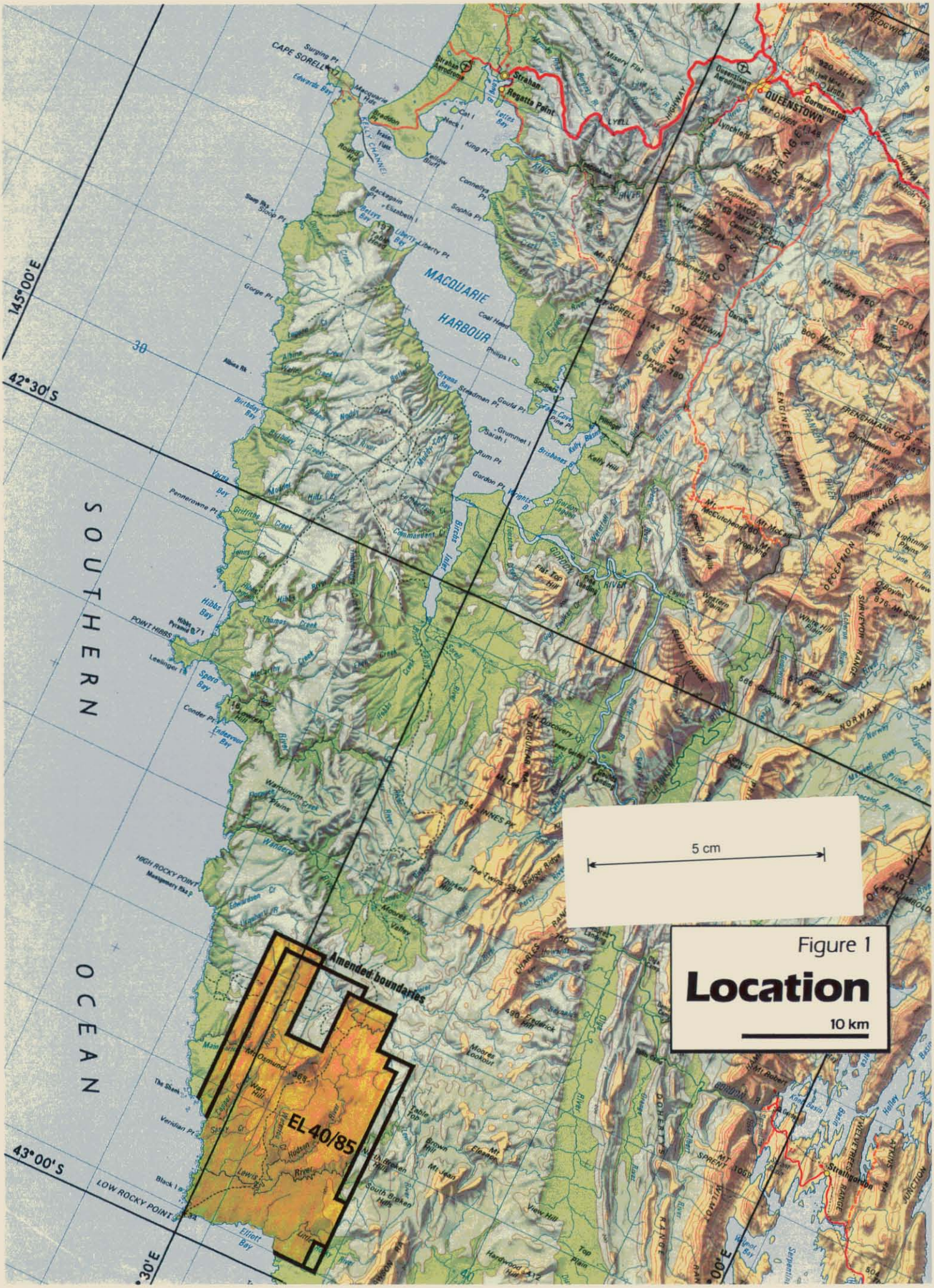


Figure 1

Location

10 km

TABLE 1 AIRCRAFT USAGE

Aircraft	Hours Used	Function
Helicopter Bell 47	187	Based at Wart Hill camp site for duration of program. Transportation of field crew, supplies and equipment within the tenement.
Helicopter AS350B (Squirrel)	68	Mobilization and remobilization of camps, drilling rig and equipment. Drill rig shifts.
Cessna 206	80	Transportation of personnel and supplies to Moore's Valley airstrip. Demobilization.
Islander	66	Mobilization and demobilization of equipment, fuel, personnel and supplies to Moore's Valley airstrip.

Forward planning of the 1987-88 summer program at Elliott Bay started in November 1987. Contact was made with the various contractors necessary for the smooth running of this operation. Field supplies and food lists were also compiled. Fuel for both the jet and piston helicopters, as well as diesel for the drill rig was transported from Strahan to the airstrip at Moores Valley. The Islander aircraft with a carrying capacity of 730 kilograms was used to transport fuel. Dried food supplies were purchased in early December and stored in the Cyprus Zeehan office.

Cyprus field personnel were assembled on January 4, 1988 in Zeehan. On January 5 equipment and food supplies for the Wart Hill camp plus the Cyprus field team were flown by fixed-wing aircraft (Islander) to the Moores Valley airstrip then transported by jet helicopter to the Wart Hill base.

On January 6 the drilling gear, excluding the drill rig, was moved from Strahan and Zeehan to Moores Valley then slung by helicopter to the first drilling prospect at Lewis River.

King Aviation (Smithton) supplied a Cessna 206 which was used for resupply and transportation of personnel. Despite its limited carrying capacity (500 kilograms) its service was most efficient because it could traverse the coastline to land at Moores Valley when poor weather conditions prevented Par Avions' Islander from crossing the mountain ranges southwest of Hobart.

Diamond Drilling (Tasmania) Pty Limited road freighted the Longyear 38 drill rig from their Zeehan base to Strathgordon. The rig was then transported by helicopter to the Lewis River prospect. Drilling was completed at this locality by February 9 after which the rig and drillers' camp were dismantled and flown by helicopter to the Wart Hill drilling site.

At the completion of each drillhole, the rig was dismantled into seven components, the maximum weight of each being 700 kilograms. The Squirrel helicopter was mobilized from Queenstown to lift the dismantled rig for assembly on the next site. The four man drilling crew were able to dismantle and reassemble the rig in eight hours. On average one hours flying time was required to complete a rig shift.

Demobilization from the Wart Hill drilling site coincided with the end of the field season on March 2. The drill rig was lifted out to Strathgordon from where it was road freighted back to Zeehan. Drilling gear, drill core, Cyprus camp gear and personnel were transported to Moores Valley (by helicopter) and then to Zeehan on both the Cessna and the Islander. The use of several aircraft was cost efficient: three helicopters were used in association with two fixed-wing aircraft for demobilization. All personnel and most of the equipment were returned to Zeehan in one day. Throughout the program aircraft were used progressively to backload surplus equipment, empty fuel drums, drill core and rubbish from the tenement.

Initially the logistical problems of this program seemed immense, however a high level of co-operation between the various contractors ensured an efficient operation.

TENEMENT STATUS

The Elliott Bay exploration licence covers an area of 250 square kilometers described as follows:

> Commencing at the posted notice situated at a southeast corner of the area whose AMG grid co-ordinates are 385350 meters E: 5240000 meters N and being a point on the high water mark on Elliott Bay thence by that high water mark in a general westerly then northerly direction to 374645E, north to 5262695N, east to 379000E, south to 5256000N, east to 382000E, north to 5261000N, east to 386000E, south to 5258000N, east to 388000E, south to 5246000N, east to 389000E, south to 5242000N, west to 388000E, south to 5240000N thence west to the point of commencement.

The area is totally within the Southwest Conservation Area. Poseidon Limited have entered into a joint venture agreement with Cyprus whereby both partners contribute 50% to the exploration expenditure with Cyprus as operator.

The licence was granted in December 1985 and is due for partial relinquishment in December 1990.

EXPLORATION CONCEPT

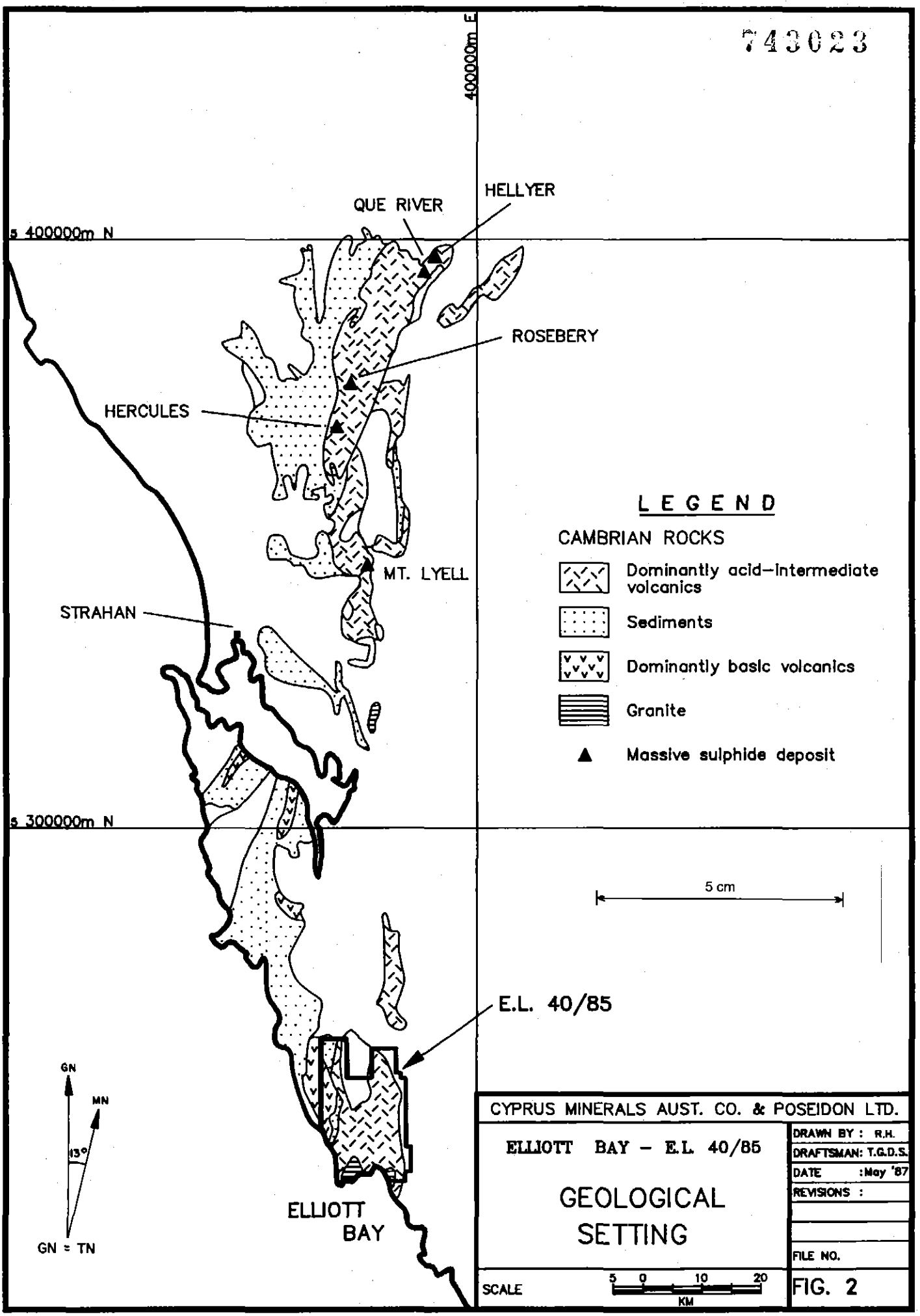
The rock types in the Elliott Bay region have been recognized as the southern continuation of the Cambrian Mount Read Volcanics (Hall et al 1969, White 1975). North of Macquarie Harbor these volcanics host five major massive sulfide deposits (Mount Lyell, Rosebery, Hercules, Que River and Hellyer - Table 2, Figure 2).

These deposits may be grouped into two types:

- High grade, lead-zinc-rich, polymetallic (lead-zinc-copper-silver-gold) stratiform massive sulfides (eg Rosebery, Que River, Hellyer, Hercules).

- Low grade copper-rich and disseminated to massive stratabound deposits with low lead, zinc, silver and variable gold (eg Mt Lyell deposits).

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CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

GEOLOGICAL SETTING

DRAWN BY : R.H.
DRAFTSMAN: T.G.D.S.
DATE : May '87
REVISIONS :
FILE NO.

SCALE 5 0 10 20 KM

FIG. 2

Cyprus considers high grade polymetallic zinc/lead-rich deposits with appreciable gold content are attractive targets in the Elliott Bay tenement.

Models developed by Cyprus and others elsewhere in eastern Australia suggests Elliott Bay also holds potential for gold mineralization related to Cambrian intrusions. Stockworks, skarn/replacement, breccia or vein deposits are considered highly prospective.

TABLE 2 MASSIVE SULFIDE DEPOSITS IN THE MOUNT READ VOLCANICS
(from Large et al 1987)

Deposit	Million (metric tons)	Grade (%) Pb	Zn	Cu	Ag	Au
Mt Lyell (includes 14 separate deposits in the district)	147			1.3		0.4
Rosebery	19	4.9	15.7	0.8	132	3.0
Que River	6	7.5	13.1	0.4	190	3.5
Hellyer	15+	7.0	14.0	0.3	180	2.5
Hercules	2.3	5.7	17.8	0.4	179	2.9

PREVIOUS EXPLORATION

Exploration activities in the Elliott Bay region by BHP (1964 to 1975), Geopeko (1977 to 1984) and Cyprus (1986 to 1987) have been outlined in previous reports. (Geopeko relinquishment report by Herrmann 1985 and Cyprus Reports 498, June 1986 and 525, Torrey et al, 1987). The following is a summary of work conducted by Cyprus during the 1986-87 field season and conclusions drawn from that data. Work to June 1987 comprised:

- Appraisal of DIGHEM data by Mitre Geophysics and ground follow-up of anomalies (Enclosure 2)
- Evaluation of old prospects for gold potential
- Sampling of drainage systems with an emphasis on gold geochemistry and follow-up of gold anomalies.

It was concluded:

- DIGHEM anomalies in the western part of the tenement indicated the presence of weakly conductive, locally pyritic, black shales

- DIGHEM anomalies east of Mt Osmund proved to be weak conductors and are attributed to faults or weak alteration zones

- No mineralization was associated with the DIGHEM anomalies

- A corridor (1 by 5 kilometers) of gold and/or arsenic anomalism is located on the western margin of the Elliott Bay Porphyry (Zone 1 in Report 525). Within the zone, the North Lewis Prospect (V12) provided sufficient geological and geochemical encouragement to warrant drilling. Quartz-chlorite-pyrite-tourmaline alteration, brecciation and veining returned rockchip values up to 4.65% copper, 1.77% lead, 0.2% zinc, 232 g/t silver and 24.3 g/t gold

- Granite contacts shed anomalous gold in streams (Zone 2 in Report 525)

- The massive sulfide pods of Wart Hill are not conductive. Geochemical anomalies warranted drill assessment. Re-assessment of gravity data was recommended.

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GEOLOGICAL SETTING

Felsic volcanic-sedimentary sequences of Cambrian age at Elliott Bay are generally considered to be the southernmost extension of the Mt Read Volcanics. Debate as to which part of the Mt Read sequence is still ongoing (Large et al 1987). The stratigraphy and mineralization of the Mt Read Volcanics have been described by Corbett (1981). At Elliott Bay these rocks are referred to as the Lewis River Volcanics (White 1975). On their eastern margin the volcanics are in fault (?) contact with Precambrian metamorphics of the Tyennan Block. To the west the Lewis River Volcanics apparently pass conformably into younger Cambrian volcano-sedimentary sequences which comprise abundant fine grained sediments and rhyolitic and basic to intermediate volcanics. A geologic map at 1:25000 scale is included as Enclosure 1.

Granitoids of late Cambrian (?) age occur in the southwest and southeast parts of the tenement. A porphyritic unit (Elliott

Point Porphyry) regarded as part of the Lewis River Volcanic sequence occurs on the eastern margin of the tenement.

In the central northern part of the licence (Mt Osmund area) late Cambrian to early Ordovician sediments unconformably overlie the Lewis River Volcanics. The basal parts of these sediments consist of rhyolitic volcaniclastics and shale units which pass stratigraphically upward into siliciclastic units of the Owen Conglomerate. These rocks are folded in a major north plunging syncline (Osmund Syncline).

A detailed description of the geology of the tenement is included in last season's report, 525.

WORK CONDUCTED BY CYPRUS

Work conducted by Cyprus during the 1987/88 field season included regional exploration consisting of a geophysical compilation and air photo and magnetic lineament interpretation. Prospects evaluated included North Lewis, Wart Hill, East Camp, Sassy Creek and Low Rocky Point. This work is detailed below and is supported by the various Appendices and Enclosures to this report. A composite legend to accompany the Enclosures is included as Figure 3.

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TERTIARY

1 — Quartzose Gravel

JURASSIC

2 (49) — Dolerite

LATE CAMBRIAN – EARLY ORDOVICIAN

3 — Owen Conglomerate – *undifferentiated* (33)
- 3a – coarse quartzose sandstone
- 3b – siltstone

4 (70) — Waterloo Creek Group – undifferentiated
- 4a (71) – hematitic volcaniclastic conglomerate
- 4b (36) – tuffaceous coarse sandstone and grit
- 4c (68) – black shale ± pyrite
- 4d (67) – fine–med. grained rhyolitic volcaniclastic

CAMBRIAN – MT. READ VOLCANICS

5 (2) — Wart Hill and Hudson River Volcanics – undifferentiated
- 5a (6) – fine to med. grained rhyolitic volcaniclastic
- 5b (8) – rhyolitic quartz–feldspar porphyry (lavas and intrusives)
- 5c (9) – dacitic porphyry
- 5d (11) – coarse rhyolitic volcaniclastic
- 5e (63) – siltstone
- 5f (55) – siliceous conglomerate
- 5g (61) – greywacke and siltstone

CAMBRIAN INTRUSIVES

6 (17) — Elliott Point Porphyry

7 (21) — Granite

8 (14) — Microgranite

9 (14) — Porphyritic Microgranite

CAMBRIAN – WESTERN EPICLASTICS

10 (48) — Western Epiclastics – undifferentiated
- 10a (47) – andesitic – basaltic volcanics
- 10b (56) – brown–grey tuffaceous siltstone and quartzoze conglomerate
- 10c (53) – black shale ± pyrite
- 10d (69) – fine to medium grained rhyolitic volcanics
- 10e (45) – gabbro
- 10f (10) – coarse rhyolitic *volcaniclastic sandstone*

CAMBRIAN – MAINWARING GROUP

11 — Mainwaring Group – undifferentiated (all 42)
- 11a – gabbro
- 11b – andesite–basaltic volcanics
- 11c – dolomite
- 11d – black shale ± pyrite
- 11e – siltstone and sandstone

PRECAMBRIAN

12 (25) — Metamorphics – quartzite, schist and phyllite

Geological contact

Unconformity

Fault

60° Strike and dip of schistosity

60° Strike and dip of bedding – facing indicated

Plunging syncline

Old workings

ALTERATION – Pervasive and vein controlled

Chlorite – magnetite

Sericite

Sericite – quartz

Chlorite – pyrite

Quartz – chlorite – pyrite – tourmaline

Quartz – sericite – talc ± chlorite

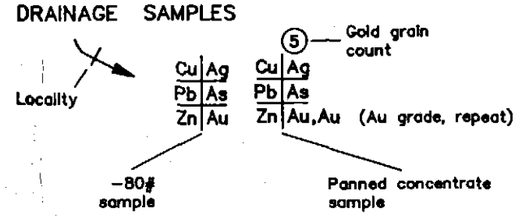
Quartz – chlorite

Quartz vein

Alteration boundary

GEOCHEMISTRY

DRAINAGE SAMPLES



ROCK CHIP SAMPLES

Δ 202567 — Sample location and number

Δ 202569 (Cu Ag / Pb As / Zn Au) — Sample location number and assays

Δ 202569 TS — Thin section sample

V33/1 — Diamond drill hole location

DETECTION LIMITS (ppm)

	Cu	Pb	Zn	Ag	As	Au	
Rocks	5	5	5	0.5	1	0.005	
–80# plus panned concentrates	5	5	5	0.5	1	0.008	
Soils	5	5	5	0.5	1	0.01 0.008	(AAS) (Fire assay)

– = Below limit of detection

5 cm

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

L E G E N D

DRAWN BY :
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS :
FILE No.
SCALE 1 : METRES
FIG. 3

REPORT 029

ENCLOSURE

REGIONAL EXPLORATION.....

Geophysical Compilation

Mitre Geophysics was commissioned by Cyprus to undertake a compilation and interpretation of Geopeko's geophysical data. All data has been digitized and results are now able to be presented at any scale required. The full report by Mitre Geophysics is included as Appendix 1.

Recommendations from the report include the investigation of a number of aeromagnetic anomalies and further evaluation of the East Camp (V29) and Voyager 9 prospects in the light of some recent gravity modeling. In addition Bishop (1988) recommends:

- Completion of gravity coverage
- Induced polarization surveys between the North Lewis and Voyager 3 prospects
- Electromagnetic surveys between Voyager 2 and North Lewis prospects
- Downhole electromagnetic surveys
- An integrated aeromagnetic and gravity interpretation of the area around Wart Hill (V19).

Air Photo and Magnetic Lineament Interpretation

A structural/air photographic interpretation last season defined 3 categories of lineament. These are:

- Major lineaments with appreciable topographic expressions and/or lateral extent which are interpreted to be major faults. The most important of these were the Osmund, Lewis River and Copper Creek Faults

- Significant lineaments with moderate topographic expression and restricted lateral extent. These are interpreted to be faults, bedding, schistosity and/or joints. These features often display sympathetic orientations to major lineaments

- Form lineaments which have significant topographic expression but are clearly stratigraphic features (bedding) or in some places can be attributed to schistosity.

Work this year on computer processed magnetic images was undertaken by Mitre Geophysics (Appendix 1). Magnetic lineaments were defined and superimposed on last years photographic lineament map (Enclosure 3). Features are discussed below in relation to geologic domains outlined on Enclosure 1.

Late Cambrian Ordovician Rocks of the Mt Osmund Syncline
Even though relatively young axial planar northeast-trending lineaments have been recognized in these rocks no magnetic lineaments occur.

The above features have been interpreted as Devonian and Tertiary structural features respectively.

Western Epiclastics
North-south trending magnetic lineaments in this domain are a response to stratigraphic features. Basaltic, andesitic and gabbroic rocks with high magnetic susceptibilities trend north-south.

Two other magnetic lineament orientations are observed.

- North-northwest Orientation - in the southern part of this domain these do not appear to be related to any photographic lineaments. To the north major lineaments interpreted to be Tertiary in age lie subparallel to but distal from magnetic lineaments

- North-northeast Orientation - one lineament occurs in the northwest corner of the tenement and is interpreted to be related to a fundamental crustal discontinuity similar to those outlined below

Cambrian Intrusives and Felsic Volcanics

This domain includes all rocks not covered in the first two domains but excludes Precambrian and Jurassic rocks. It is clearly the most structurally complex domain and to date, holds the greatest economic potential within the tenement.

- North-northwest to North and Northeast to North-northeast Trends - These lineaments form conjugate-like sets in which the acute angle of intersection is between 50 and 75°. A number of these lineaments traverse the boundary between Cambrian volcanic rocks and Late Cambrian-Lower Ordovician rocks of the Mt Osmund Syncline at the southern apex of the Mt Osmund Syncline and in the Wart Hill area these magnetic lineaments lie subparallel and in close proximity to the Osmund Fault and its accompanying splays. North-northeast and north-northwest trends are both represented by the Osmund Fault (because it bends immediately west of the Waterloo Creek Prospect), and both trends have accompanying magnetic lineaments.

Further to the south these magnetic lineaments lie parallel to major and significant structural features within the Low Rocky Point Granite.

One magnetic linear extends from the Drake Creek Prospect northward in a large arc to the Lewis River Prospect. Its curvature is similar to that of the Osmund Fault except that its concave surface lies to the east.

These magnetic lineaments are interpreted to represent fundamental, possible long lived, crustal discontinuities similar to that of the Osmund Fault. As such they represent zones of potential fluid migration, alteration and mineralization.

Intersection of magnetic linears and/or other structural features are of exploration interest. Bishop (1988) has outlined exploration targets on the basis of magnetic data (Appendix 1).

- Northwest Trend - One major magnetic linear has the above trend. It extends from Wart hill to the southeast and appears to truncate north-northeast-trending linears. Because of its similar orientation it is possible this feature is related to graben formation in the Tertiary.

Cambrian-Precambrian Contact

In this zone magnetic lineaments broadly follow major photographic features from south to north. At the northeastern corner of the licence, both linear types tend to swing northwestward and lie parallel to the southwestern margin of the Tertiary Macquarie Graben. At the Porphyry-Dolerite Contact prospect in the northeastern part of the tenement, a major magnetic lineament follows an elongate Jurassic dolerite outcrop.

Conclusion

Interpretation of orientations of magnetic and photographic lineaments and geological data suggest magnetic lineaments may be explained by:

- Stratigraphic features
- Structural features.

Conjugate-like sets of northwest to north and northeast to north-northeast magnetic lineament are considered to represent fundamental structural discontinuities. These may have been active during Cambrian volcanism, Ordovician sedimentation and Devonian deformation. Because of their relationship to known mineralized structures, they are considered potential exploration targets.

NORTH LEWIS.....

This prospect is located on the northern banks of the Lewis River in the southeastern part of the tenement (Enclosure 2). It was discovered by Geopeko whilst following up anomalous copper, lead and zinc in stream sediment samples. Rockchip samples of several gossans produced best values of 0.36% copper, 0.68% lead, 0.7% zinc, 440 g/t silver and 265 g/t gold. Geopeko established a grid and conducted geological mapping and soil sampling in conjunction with self-potential, VLF-EM and dipole-dipole IP geophysical surveys. Coincident geophysical anomalies and gossanous outcrops were then tested in five diamond drillholes. Best intercepts were 0.62% copper, 25 g/t silver and 0.15 g/t gold over 2 meters (DDH-1) and 1.6 g/t gold over 2 meters (DDH-3).

Cyprus considered that:

- Gold values obtained in rockchips warranted follow-up

- Soil sampling for gold and arsenic was required to constrain targets. Geopeko had previously only assayed for copper, lead and zinc

- Gossanous outcrops and alteration evident on surface had not been sufficiently tested in drillholes. Those holes that had intercepted the zone were of small diameter (AQ) and core recovery was less than 50%.

It was concluded a favorable geological horizon had been identified and that it provided a well defined coincident gold-arsenic soil geochemical anomaly over a strike length of 600 meters. Rockchips collected by Cyprus from within this zone returned values up to 4.65% copper, 1.77% lead, 0.2% zinc, 232 g/t silver and 24.3 g/t gold. Diamond drilling of large diameter HQ holes was recommended. Results are outlined below.

Surface Geology

The area consists principally of fine to coarse grained rhyolitic quartz crystal tuffs and minor interbedded tuffaceous siltstone and shales. These are in contact with a quartz-feldspar-biotite porphyry to the east (Enclosure 4).

The pyroclastics and sediments strike north-northeast and dip to the west. The contact with the porphyry appears to be conformable as is also indicated by previous drilling. The rocks are strongly foliated. Foliation lies approximately parallel to bedding and is generally defined by wispy chlorite or more rarely by sericite.

The mineralized area is clearly outlined by oxidized iron at surface. This is caused by weathering of chlorite and pyrite. This zone appears to be an alteration halo which lies closely parallel to the porphyry contact but appears to trend towards the contact to the north. The area of mineralization is approximately 500 meters long by 100 meters wide.

Gossanous pods mostly after pyrite-quartz-chlorite veins are approximately 10 to 20 centimeters wide and 1 to 2 meters long. The strongest concentration of gossanous outcrops occurs within a 100 meter radius of 200S:200E.

Often occurring with the gossans are quartz-tourmaline breccia veins. These are not mineralized but increase in abundance with increasing abundance of mineralized gossans.

Diamond Drilling

A total of five diamond drill holes were designed by Cyprus to test geologically and geochemically favorable outcrops over a strike length of 500 meters (Enclosure 5). Holes were drilled toward 110^{o} magnetic at angles of 50 to 55^{o}. The contractors were Diamond Drillers (Tasmania) Pty Limited and the rig was a Longyear 38. A total of 349.6 meters of coring was undertaken. Details are tabled below and drillhole locations are shown on

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North Lewis: Rig shift



Wart Hill Camp: Core logging and diamond saw set-up

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North Lewis Prospect: Drill sites (looking south)





North Lewis Prospect: Diamond drilling at EBT-88-V12/10

Enclosure 6. Drill sections are included as Appendix 3 and drill logs as Appendix 4.

Hole	Co-Ordinates	Azimuth	Decln	Total Depth
EBT-88-V12/6	238S:055E	110°	50°	80.2m
EBT-88-V12/7	137S:150E	110°	50°	80.2m
EBT-88-V12/8	030S:240E	110°	55°	69.0m
EBT-88-V12/9	095N:295E	110°	55°	70.7m
EBT-88-V12/10	299S:005W	110°	50°	49.5m

Lithologies

All drillholes intercepted a west dipping sequence of fine to medium grained rhyolitic tuffs (not coarse grained as indicated by surface mapping). They consist of porphyritic quartz-feldspar bearing felsic tuffs with variable quantities of volcanic rock fragments (probably pumice or volcanic glass). The rocks are well cleaved and anhedral quartz and feldspar crystals are set in a fine grained matrix of quartz, feldspar and sericite. Sericite forms fine anatomizing partitions around augen-shaped quartz and feldspar and defines cleavage. Tuffaceous siltstones, sandstones and vitric tuff units are intercalated within the sequence and are observed to grade into one another. Tuffaceous units contain up to 10% subrounded quartz grains (1 to 4 millimeter size) and up to 30% sericitized-kaolinized(?) feldspar and/or fine rock fragments (0.5 to 2 millimeter size).

Structure-Mineralization-Alteration

All drillholes appear to have intercepted a wide zone (up to 20 meters true thickness) of extensive faulting and brittle deformation. Cleavage (schistosity) dips to the west at angles of between 50 and 70°. The zone of fracture defined by drilling dips westward at approximately 50°. The zone displays a number of brittle deformation features.

Vein Breccias Zones

These occur in zones of strong deformation over widths of 1 to 15 meters. Vein material predominates and displays evidence of multiple fluid injection. Internal brecciation is common. Intimately associated with veins (internal to and on the margins

of) are zones of brecciation where fragments show evidence of rotation and milling (sharp edges are rounded). Matrix is composed of vein infill material.

Vein material consists of tourmaline, quartz, chlorite, pyrite, arsenopyrite, chalcopyrite, galena and sphalerite. A clear paragenesis has been established.

Quartz-tourmaline veins and breccia matrix material are clearly cut by later chlorite-pyrite-arsenopyrite±chalcopyrite±galena± sphalerite±quartz veins.

In most drillholes sulfides and chlorite are strongly oxidized to limonite, goethite and hematite (Plate 1). The most intense zones of tourmaline-quartz veining are also the most intense zones of chlorite sulfide veining indicating that both fluid types utilized the same conduits. Within vein-breccias, puggy fault zones shear and displace veins. Quartz vein material is highly shattered and brecciated. This suggests that even younger deformational events are localised within the zone.

Veinlet Fracture Zones

Almost all core recovered in the Cyprus holes displays extensive fracture. Fractures are infilled with sulfide bearing vein material outlined above. Brecciation where fragments appear to have rotated is restricted to localized shears. Although most of the rock has a cataclastic appearance little or no rotation of fragments has occurred.

Individual veinlets are no greater than 2 centimeters wide and more commonly 1 to 2 millimeters. Vein density varies from 1 to 25 per linear meter. No specific vein orientation is recognized. Veins occur parallel to schistosity in some places but in other places clearly cut schistosity.

Post-schistosity veining may be suggestive of late Devonian mineralization. Extensive brittle fracture has occurred in places with only minor fracture infill. In some areas open voids or cavities occur and fracture walls are lined with minor quartz



Plate 1: Vein-Breccia Zone: Black tourmaline (upper right) is brecciated by chlorite-sulfide material (now oxidized)



Plate 2: Veinlet-Fracture Zone: Extensive fine veinlet formation. Locally open voids and numerous fracture orientations

and sulfide (Plate 2). Almost all sulfide bearing veinlets have been oxidized.

Tourmaline occurs within these zones predominantly as a pervasive replacement of country rock or as narrow veins subparallel to cleavage.

All rocks in veinlet fracture zones have a pale green-brown colour due to sericite and weak carbonate alteration. In places sericite has formed haloes on the margins of chlorite-sulfide veins. Chlorite alteration occurs predominantly in veins with sulfide but areas of pervasive chloritization occur especially in rock which contain abundant lithic fragments.

Oxidation

Depth of oxidation is variable but generally extends to around 50 meters below surface in fractured zones. Oxidation is controlled by fracturing and in hole V12/9 is clearly restricted to that zone (see section - Appendix 3).

Geochemistry

Core was cut in half by diamond saw. Two meter sections were dispatched to Analabs in Burnie for analysis (Appendix 6). Gold and arsenic results are shown on drill sections. Results were generally disappointing. Best values and ranges are summarized below:

Hole	From (m)	To (m)		Interval	Cu	Ag	As (ppm)	Au
V12/6	21	23	=	2m	245	5.0	1000	0.38
	26.5	28	=	1.5m	740	29.0	5200	0.15
	40	42	=	2m	365	4.5	1200	0.19
	54	56	=	2m	945	5.5	3300	0.15
V12/7	36	38	=	2m	7250	4.5	3800	0.17
	66	68	=	2m	2075	9.0	200	0.17
V12/8	26	30	=	4m	3075	15.2	6000	0.28
V12/9	36	38	=	2m	1300	3.5	3800	0.25
V12/10	10	16	=	6m	80	2.8	100	0.19
	20	22	=	2m	80	4.0	100	0.22

Range of values was 40 to 4500 ppm for copper, 25 to 2200 ppm for lead, 15 to 5800 ppm for zinc, <0.5 to 26 ppm for silver, <100 to 10,000 ppm for arsenic and <0.005 to 0.45 ppm for gold.

Check assaying of selected samples was undertaken by Classic Comlabs. Results closely approximated Analabs data (Appendix 6).

In general best gold values correlate to high arsenic and/or high base metals. For example, even though a value of 0.17 g/t gold was encountered between 66.0 and 68.0 meters in hole V12/7, arsenic was low (200 ppm) and other base metals were high (2075 ppm copper, 2000 ppm lead and 5800 ppm zinc).

In V12/10 no anomalous base metal results correlate with elevated gold near the surface of the hole (10 to 16 meters). This suggests near-surface base metal leaching may have occurred.

It is clear from rockchip sampling (1986-87 season) and drilling (this season) that elevated gold values occur within chlorite-sulfide veins and not tourmaline quartz veins.

Conclusions and Recommendations

Gold values obtained in rockchip samples at surface have not been reproduced in drilling. Although extensive zones of quartz-tourmaline and chlorite-sulfide vein formation, brecciation and fracture occur, no significant gold mineralization was intersected. No further work is recommended at this site.

WART HILL.....

Further exploration of the Wart Hill prospect has included:

- Infill geochemical sampling of B/C-horizon soils
- Excavation of small pits on geochemical anomalies
- Drilling of 7 diamond drillholes
- A downhole electromagnetic survey
- Re-evaluation of gravity data by Mitre Geophysics
- Geological mapping
- Petrographic studies of drill core.

Previous Work

The discovery of the Wart Hill (previously known as Voyager 19) prospect by Geopeko geologists was made during geochemical follow-up of alteration zones identified in a regional mapping program (1979-80 field season). During the 1980-81 season the Wart Hill area was gridded and soil sampled by hand and power auger methods. Reconnaissance gradient array and dipole-dipole IP, ground magnetic and reconnaissance gravity surveys were undertaken. Trenches were excavated over soil geochemical anomalies and one small massive sulfide pod was uncovered. Its average grade over 4 meters was 10.23% lead, 17.94% zinc, 138 g/t silver and 0.6 g/t gold.

In the 1981-82 season the following work was undertaken:

- Detailed gravity survey
- Infill gridding and soil sampling
- Survey of selected lines of dipole-dipole IP
- A VLF-EM survey
- Excavation of shallow trenches
- Drilling of 5 diamond drillholes.

This work revealed a second small massive sulfide pod with an average grade of 13.94% lead, 21.9% zinc, 0.2% copper, 680 g/t silver and 0.84% g/t gold over 3 meters. The gravity survey failed to locate a large near surface sulfide body and drilling

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failed to intersect significant mineralization. Geopeko geologists considered although the sulfide pods appeared to be small and discontinuous they had identified a favorable horizon in which ore forming processes were active.

During the 1982-83 season the prospective stratigraphic horizons at Wart Hill were covered as part of an extensive dipole-dipole IP survey, however still no significant anomalies were detected.

Final activity on the prospect during the 1983-84 season consisted of a small closely spaced dipole-dipole IP survey and a UTEM (deep penetration/high resolution electromagnetics) survey. These failed to detect significant mineralization.

1986-87 Field Season Work

Work by Cyprus Gold on the prospect consisted of:

- Re-establishment of the Geopeko grid
- Detailed infill soil sampling at 10 meter spacings (total of 125 samples)
- Reconnaissance geological mapping
- A ground magnetics survey (approximately 6 line kilometers)
- A MAXIM survey (approximately 6 line kilometers, 100 meter transmitter/receiver separation).

Cyprus Gold (as Amoco Minerals) provided logistical support for a Tasmanian University Honors student (J Lea) during his study of the Wart Hill mineralization.

Cyprus work indicated:

- Soil geochemical anomalies are complex and tended to suggest that a number of geochemically anomalous horizons exist in the prospect

- No marked variation in magnetic susceptibility occurs on the grid

- Weak MAXMIN conductors were coincident with zones of anomalous geochemistry in swampy ground.

Research

In addition to work undertaken by Geopeko and Cyprus/Poseidon, recent publications by Large et al (1987), Gulson et al (1987) and Huston and Large (1987) outline many of the geological and geochemical aspects of the Wart Hill prospect.

Exploration Activity

The original Voyager 19 prospect (now the Wart Hill prospect) as described by Geopeko covered the entire topographic expression of Wart Hill and its northern and southern flanks. The discovery of massive sulfide pods in low lying ground to the north of Wart Hill has led to polarization of exploration activities in that area. The area is generally covered between the Lines 12900N and 13600N between 9700E and 10300E. Cyprus work has concentrated on this zone.

Geology

The geological map presented as Enclosure 7 has been compiled from:

- Mapping by Cyprus
- Geological re-interpretation of Geopeko data
- Diamond drillhole data.

Lithologies

Cambrian Rocks - Wart Hill and Hudson River Volcanics

Rhyolitic Quartz-Feldspar-Lithic Tuffs: This unit consists of a number of rhyolitic-rhyodacitic lithologies which contain abundant, but variable amounts of quartz, feldspar and volcanic

rock fragments. The unit has been described as a crystal, vitric and lithic tuff (Plate 3).

Tuffs are generally strongly sericitized and weakly chloritized. They consist of abundant anhedral to subhedral quartz (up to 60%; 1 to 4 millimeter size) and plagioclase (up to 20%, 2 to 3 millimeter size), phenocrysts and volcanic rock fragments from 2 millimeters to 5 centimeters in size. These are set in a fine felsic ground mass of quartz, feldspar, sericite and chlorite. In most rocks sericite (and locally chlorite) pseudomorphs feldspars. In some rocks biotite flakes occur but are predominantly replaced by chlorite. Rock fragments are recognizable only as highly altered patches within matrix material. Differential alteration of fragments to chlorite and/or sericite occurs. Petrographic work suggests these are altered pumice or glass fragments.

Tuffs display a well developed schistosity which is defined by parallel orientation of sericite flakes. Often sericite forms anastomosing zones parallel to schistosity and enclosing quartz and feldspar phenocrysts. Fragments or 'fiame' are stretched in the direction of schistosity and often have feathered boundaries.

Some tuffs have a 'tiger stripe' appearance which at first was considered to be a result of elongation of fragments in a lithic tuff (eg bottom of hole WH1). This in fact results from differential quartz-carbonate-sericite alteration.

Outcrop of tuff units is extremely poor in the prospect area. This is probably due to strong sericite alteration which generally produces swampy low lying ground. Outcrop occurs immediately north and northwest of hole WH1 and generally to the west of the baseline (10000E). Soil samples in the swampy ground around massive sulfide pods often recorded the presence of 'soft white clay' which is interpreted to be strongly altered tuffs.

Epiclastic Sandstones and Breccias: These rocks have been recognized in outcrop but are best defined in drill core. The complex interdigitation of tuffs and epiclastic sediments shown



Plate 3: Rhyolitic tuff (WH1)



Plate 4: Epiclastic breccia. Clasts of marble (bottom left), grey pyritic chert (center bottom), massive sphalerite-galena (top right) and pyrite (top left) in green quartz-feldspar tuffaceous sandstone matrix (WH4)

on Enclosure 7 has been interpreted from drill information because outcrop is sparse. Other areas that are mapped wholly as epiclastics or tuffs may also display complex intercalation but poor outcrop and lack of drill data precludes further interpretation.

The epiclastic rocks are extremely variable in nature ranging from partly reworked tuffs to tuffaceous sandstones, siltstones, breccias and conglomerates. Contacts with tuff units are both gradational and abrupt. Tuff layers are locally observed within sediment sequences. Similarly sandy or silty units are often found within tuff-dominated sequences. The epiclastic sediments are almost identical in composition to tuffs and medium to coarse grained varieties are difficult to distinguish in outcrop. They contain quartz and feldspar and are sericitic. Epiclastic rocks in places contain laminated siltstone and fine well sorted sandstone beds. Sandstones are generally moderately sorted and medium to coarse grained but compositionally immature.

Polymictic breccia and/or conglomerates occur. These are matrix supported and contain angular, tabular and rounded fragments (up to 10 centimeter size and probably larger - Plate 4). Fragments include exotic, allogenic blocks of:

- Chert
- Marble
- Massive sulfide
- Chloritic-sericite siltstone
- Massive quartz-feldspar porphyry
- Brecciated quartz-feldspar porphyry
- Rhyolitic tuffs as described above
- Quartz-feldspar sandstones and grits.

The matrix consists of a tuffaceous, sericite, green, moderately to poorly sorted quartz-feldspar-lithic, medium to coarse sandstone. Lithic fragments are either of the above listed types or pumice.

Schistosity is also well developed in sediments especially finer grained units. In the deepest holes (eg WH4 and 7) schistosity especially in the breccia/conglomerate units is only incipiently developed. Fragments within the breccia unit display elongate rodding (lineation) in the direction of schistosity. Elongation is especially well preserved in sulfide clasts. In some places sulfides have been remobilized and smeared out along schistosity. Some fragments, especially tuffaceous sericitic types, display feathered boundaries where schistosity has displaced matrix/fragment contacts on the micron scale.

Chert: This rock unit outcrops immediately behind the collar of Geopeko's DDH-4. It is recognized in the exploration pit at 13080N:10030E and occurs as fragments and/or beds in all Cyprus drillholes. On the surface and in the drill core it is a light grey laminated siliceous chert. In drill core it contains extremely fine grained pyrite disseminations. In places it is highly fractured and brecciated (Plate 5). Pyrite and minor chalcopyrite veins form a matrix to breccias. An anastomosing, fine cleavage, infilled with amber colored sphalerite and pyrite, has shattered the chert locally.

The chert is in all places contained within the epiclastic sedimentary sequence. In drill core it occurs predominantly as angular, slabby fragments. The quantity and size of chert fragments is directly proportional to the quantity and size of massive sulfide fragments. An intimate spatial relationship between chert and massive sulfide is recognized.

Rhyolitic Quartz-Feldspar-Biotite Porphyry: This rock occurs in two localities. The first lies to the northwest of lens 'A' and is encountered in both DDH-1 (Geopeko hole) and WH3 (Cyprus hole). The second zone of outcrop lies northeast of DDH-1 where it appears to infill a large fault block along the original contact between Cambrian and Cambro-Ordovician rocks. Outcrop in the second zone is sparse.

The rock is massive and contains phenocrysts of:

- Bipyriamidal quartz (1 to 3 millimeter size, 7%)
- Sericitized feldspar (1 to 2 millimeter size, 10%)
- Quartz-dolomite altered biotite (0.5 to 2 millimeter size, 2.5%).

These are contained in a ground mass of quartz and feldspar which have been altered to sericite and dolomite. The rock also contains accessory zircon, apatite and titanomagnetite.

The rock is interpreted to be intrusive into tuff and epiclastic sequences.

Dolerite: This rock type is recognized on surface and in DDH-1 and WH3. It occurs at the contact between quartz-feldspar-biotite porphyry and epiclastic/tuff sequences. The rock is dark green, fine grained and equigranular.

It is composed of sericitized plagioclase and chlorite-dolomite-quartz altered pyroxenes. Pyrite and sphalerite disseminations occur locally. This rock appears to be intrusive into the above sequence and may post-date young cross-faults (Enclosure 7).

Cambro-Ordovician Rocks - Waterloo Creek Group

This rock sequence was considered by Geopeko geologists to be a correlative of the Tyndall Group as mapped in the Queenstown area further north (Large et al, 1987).

Agglomerate/Conglomerate: This unit is considered to unconformably overlie Cambrian tuff/epiclastic sequences. At the Wart Hill prospect both fault and unconformable contacts may occur.

The rock consists of a relatively quartz-rich volcaniclastic sediment or agglomerate which contains coarse fragments of both Precambrian quartzites and Cambrian volcanic rocks. The rock is

generally matrix supported and includes sandstone interbeds. Fragments up to 10 centimeters in size are recorded. Hematitic jasper fragments occur locally throughout this unit.

Sandstone: Bedded sandstones of similar composition to the coarse agglomerate/conglomerate described above occur. These display current cross-bedding and graded bed structures.

Black Shales: These rocks are located on the eastern and northeastern extremities of the grid. They consist of fine grained carbonaceous/pyritic black-grey shales which contain localized quartzose shale interbeds. The estimated thickness of this unit is greater than 200 meters.

Massive Sulfide Sequence

Surface Zones: Massive sulfides have been discovered beneath button grass swamps at depths of 0.5 to 1.0 meters. Geopeko reports document the discovery of Lens 'A' and 'B' and work by Lea (1985) further outlines the surface geology. The latter is included as an Appendix to last season's report (525).

Lens 'A': This lens is 10 meters long and up to 2 meters wide. At surface it has a thin covering of white, porous siliceous gossan. Mineralogical banding lies subparallel to local schistosity and has vertical dips. Bedding (defined by irregular cavities) suggests small scale slump folding. The lens is enclosed in dark grey-green chloritic-pyritic shales to the west and rhyolitic tuff to the east.

Sulfides consist of red-brown iron-rich sphalerite, galena, chalcopyrite and marcasite. Gangue minerals include quartz, chlorite, cerussite and goethite.

The most widely quoted grade for this lens is 4 meters of 10.23% lead, 17.94% zinc, 0.16% copper, 132 g/t silver, 0.6 g/t gold and 200 ppm arsenic.

Lens 'B': This lens is 10 meters long and up to 3 meters wide. At surface it is also covered with a thin white siliceous gossan.

Like lens 'A' it displays mineralogical banding subparallel to schistosity and minor slump fold structures. It is enclosed in chlorite shale and tuff units.

Sulfides are similar to those encountered in Lens 'A'. Subtle differences do occur (Lea, 1985). These are:

- Sphalerite is the honey-amber colored low iron variety
- Tetrahedrite is not as abundant
- Chalcopyrite is more abundant.

Furthermore clasts of barite occur in lens 'B' but are not observed in lens 'A'. Grades most widely quoted for this lens are 3 meters of 13.9% lead, 21.9% zinc, 0.20% copper, 680 g/t silver and 0.8 g/t gold.

Other Surface Localities

13200N:10025E: A costean (No 3) excavated by Geopeko in the 1980-81 field season encountered two narrow (5 to 10 centimeter) 'bands' of massive sphalerite-galena-pyrite. These were described as being enclosed within 'well cleaved, chlorite-rich, quartz crystal lapilli tuffs' (Wilson et al, 1981). Channel samples returned 2.01% lead, 5.83% zinc and 34.5 g/t silver over a 5 meter interval.

A grab sample collected by Cyprus last season returned 6.6% lead, 39.5% zinc, 0.62% copper, 206 g/t silver and 0.97 g/t gold.

From diamond drill data (Holes WH1 and 2) it is apparent these surface pods are clasts located within a mixed sequence of tuffs and epiclastic sediments (see section, Appendix 3).

13080N:10030E: Cyprus resampled Line 13080N this season. At the above locality the sampler recognized the porous, siliceous gossan which characterizes surface outcrops of massive sulfides. A small pit was excavated over the site. Several large blocks of galena-sphalerite-pyrite massive sulfide were found. These were enclosed in light gray chert and chloritic fragmental rock which is considered to be an epiclastic breccia. The dimension of the

blocks are not greater than 1 by 0.5 meters and more commonly only 5 centimeters in size.

The soil/bedrock sample at this locality returned 1.63% lead, 3.72% zinc and 14.78 g/t gold. A one meter composite rockchip over the pit floor returned 4.78% lead, 8.97% zinc, 115 g/t silver and 3.71 g/t gold. A grab sample of high grade material returned 8.52% lead, 12.12% zinc, 135 g/t silver and 6.62 g/t gold.

13090N:10072E: Whilst undertaking remapping of the prospect, Cyprus discovered a small outcrop of massive sulfide at this locality. It consisted of a 0.5 meter long by 0.3 meters wide zone of coarsely crystalline galena and sphalerite in a sheared, locally chloritic and siliceous quartzo-feldspathic matrix. The enclosing rocks are unrecognizable but are interpreted to be epiclastic sediments or reworked tuffs. This outcrop returned 4.10% lead, 9.75% zinc, 64 g/t silver and 0.33 g/t gold.

Massive Sulfide Sequence - Drill Core

In all Cyprus diamond drillholes, parts of the massive sulfide sequence are preserved. In Geopeko holes DDH-1 and 4 equivalent horizons have also been recognized. In all places massive sulfide and associated rocks are contained within epiclastic sediments or reworked tuffs which lie adjacent to sediments (for example in WH3, DDH-1 and DDH-4).

Sulfides occur as fragments (clasts) within sedimentary units and as such are rock forming clastic components. Along with a number of other rock types they are exotic, allogenic components which have been transported into the depositional basin. Deformation and development of schistosity subsequent to deposition has caused elongation of clasts, smearing out of sulfides along schistosity and sulfide recrystallization. Even broad zones of mineralization (WH2) are considered to be clastic components. Some may represent large rafted blocks within sedimentary sequences.

The nature of massive sulfides and associated rocks from each drillhole is outlined below (see section, Appendix 3).

EBT-88-WH1: A zone of mixed rhyolitic lapilli tuffs and epiclastic sandstone was recognized between 14 and 37.8 meters. Sulfides and associated cherts occur as clasts up to 4 centimeters in size. Clast types include:

- Pyrite-gray chert
- Massive galena-sphalerite
- Massive pyrite
- Chlorite-pyrite
- Massive galena-sphalerite-pyrite.

High up in the hole, cavities containing white porous siliceous gossan after sulfide fragments occur. At 17.9 meters a band of very fine galena and sphalerite is oriented parallel to schistosity. It would appear this is either a sulfide bed transposed along cleavage or a highly stretched clast.

The best result from this zone was 1 meter of 0.34% lead and 0.71% zinc.

EBT-88-WH2: Epiclastic sediments were encountered from 11 to 64 meters (end of hole). A zone of semi-massive to massive sulfide was encountered between 37.1 and 51 meters.

From 11 to 37.1 meters sulfide occurs as clasts in sandstone-breccia rocks. Clasts up to 5 centimeters long are observed and include:

- Sphalerite-galena-pyrite
- Sphalerite-galena
- Pyrite
- Chlorite-pyrite
- Grey chert-pyrite
- Marble
- Quartz-feldspar porphyry

- Sericite-chloritic siltstone containing massive sphalerite-galena-pyrite clasts
- Pyrite-sphalerite-chalcopyrite
- Brown siderite (or barite)
- Banded calcite-hematite rock.

From 32.5 to 33.5 meters clasts have a slabby rectangular appearance are up to 6 centimeters long and 2 centimeters wide. Galena-pyrite and chert-pyrite fragments predominate.

From 32.9 to 33 meters the rock is a finely banded sphalerite-pyrite-galena-chalcopyrite massive sulfide. Banding occurs parallel to schistosity.

From 33.5 to 33.9 meters a very fine sericitic-chloritic siltstone occurs.

As the drillhole approached the main part of the massive sulfide sequence clasts became larger.

The massive sulfide sequence from 37.1 to 57 meters is highly brecciated and chaotic and probably occurs as a large rafted fragment within the epiclastic sequence. The massive sulfide zone contains abundant:

- Fractured pyritic chert, pyrite veinlets often form a matrix to brecciated chert zones (Plate 5)

- Tuffs or reworked tuffs with fine transposed sphalerite-pyrite-galena bands (Plate 6)

- Grey shale

- Strongly sericitized sandstone/breccia zone with abundant clasts (as listed above)

- Banded massive sphalerite(amber colored)-pyrite-galena with banding parallel to schistosity (total sulfide up to 70%)



Plate 5: Grey chert with fine pyrite veinlets (WH2)



Plate 6: Sericitized rhyolitic tuff with transposition of sphalerite-galena-pyrite (dark zones) along schistosity

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- Chert-sulfide breccias with anastomosing sphalerite-galena-pyrite and chalcopyrite veinlets (Plate 7)

- Laminated cherts (Plate 5).

Fragments within the massive sulfide zone (37.1 to 51 meters) are generally large and have slabby/rectangular in shapes.

Beneath the massive sulfide zone (downhole) sediments are finer than above, tend to have fewer and finer fragments. Massive sulfide clasts do occur however and are recorded (up to 2 centimeter size) to the bottom of the hole.

The best result from this hole was 8 meters of 1.205% lead, 3.1% zinc, 0.18 g/t gold and 24 g/t silver, this included a 1 meter section of 3.4% lead, 10.67% zinc, 0.272 g/t gold and 52 g/t silver.

EBT-88-WH3: Epiclastic sandstones and breccias were intersected between 26.7 and 42.9 meters. Only minor sulfide clasts were recognized. These consist of fine pyrite and pyritic grey chert. From 42 to 42.4 meters a pitted, weakly pyritic grey chert occurs. This hole was not assayed.

EBT-88-WH4: Epiclastic sandstones and breccias were encountered between 36 and 95.1 meters (end of hole). As with other holes massive sulfides and associated rocks occur predominantly as clasts within breccia sequences. Clasts include:

- Massive pyrite
- Pyritic chert
- Massive sphalerite-galena-pyrite
- Chert
- Fine sericitic sandstone
- Quartz-feldspar porphyry
- Marble with crude layering
- Hematitic marble
- Brecciated quartz-feldspar porphyry with a quartz-carbonate matrix
- Chlorite-pyrite.

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Plate 7: Honey-amber colored sphalerite forming an anastomosing cleavage in grey chert (top) and slabby grey chert fragments in a sulfide matrix (bottom)



Plate 8: Slabby fragments in a sulfide breccia (WH4)

Locally massive pyrite pressure shadows are observed to form on the up and down schistosity sides of massive porphyry fragments. Three zones of significant sulfide concentration occur in this hole.

45.4 to 49 Meters: This is a highly sheared zone consisting of chlorite-quartz-calcite-pyrite brecciation and veining. Chlorite and pyrite form the matrix to breccia. Within the shear lies a relatively intact zone of green epiclastic sandstone containing a banded massive sulfide fragment (25 centimeters long). It consists of amber colored sphalerite-galena-pyrite and minor chalcopyrite and is associated with grey chert fragments. Best results from this section were 1 meter of 1.19% lead, 2.54% zinc, 0.28 g/t gold and 23 g/t silver.

53.3 to 55.5 Meters (Plate 8): This zone contains slabby fragments of pyritic grey chert, banded, massive sphalerite-galena-pyrite, massive pyrite in a fine chlorite-pyrite matrix. Best results in this zone were 1.4 meters of 3.04% lead, 6% zinc, 0.06 g/t gold and 44 g/t silver.

84 to 85.4 Meters (Plate 9): This zone is hosted within a conglomeratic part of the epiclastic sequence which contains fragments up to 20 centimeters. The intersection contains a chert-sulfide breccia (top 20 centimeters) which is disrupted by late quartz-calcite veining. Veining passes into a zone of banded massive sulfides almost 0.5 meters thick. Banding lies at 80^{o} to the core axis. The rock consists of alternating bands of pyritic (1 to 5 millimeters thick and 5 to 20 millimeters apart) and sphalerite-galena. Petrographic work indicates the presence of tetrahedrite (0.5%) and magnetite (0.5%). Abundant gangue minerals include barite (10%) and fluorite (15%). Petrographic work (Appendix 5) suggests layering is primary.

Downhole the massive sulfide passes immediately into a 1.5 centimeter zone of chloritic mudstone then into a light grey finely bedded marble. Bedding in the marble lies almost at right angles to banding in massive sulfides. The marble is composed of granoblastic (0.1 millimeters) calcite and 10 to 50 micron quartz



Plate 9: Banded massive sphalerite-galena-pyrite in WH4 (84-85m). Carbonate-quartz veining and alteration (bottom) overprints the massive sulfides

(10%). The fine banding is due to narrow chert bands as well as fine (1 to 30 micron) galena bands. Because of its hardness (presence of quartz) this rock was originally considered to be chert. Similar rocks found in association with sulfide probably account for the marble identified as clasts in epiclastic breccias.

The discrepancy between bedding angles in marble and banding in adjacent sulfides is explained by a series of small rotational fractures at the contact between the two. It is considered bedding and banding were originally conformable.

The marble passes (downhole) into fine grained green sandstones. The best result in this zone was 1 meter of 6.7% lead, 12.05% zinc, 0.88 g/t gold and 168 g/t silver.

EBT-88-WH5: Epiclastic sandstones and breccias containing massive sulfide clasts were intersected between 7.5 and 43 meters, 60.3 and 63 meters and 77.8 and 82.5 meters. Sulfides and associated rock types include:

- Mudstone
- Sphalerite-pyrite
- Pyrite
- Marble
- Quartz-feldspar porphyry
- Grey chert (pyritic)
- Brecciated quartz-feldspar porphyry.

No significant abundance of massive sulfide was recorded. This is reflected in poor analytical results.

EBT-88-WH6: Epiclastic sandstones and breccia were intersected between 42 and 68.8 meters (end of hole). Clasts (to 4 centimeter size) of massive sulfide and associated rocks include:

- Grey pyritic chert
- Pyrite
- Massive sphalerite-pyrite-galena±chalcopyrite

- Marble
- Chert-galena-sphalerite
- Quartz-feldspar porphyry.

Between 46.5 and 50.5 meters the rock consists of fractured and brecciated pyritic chert and tuffaceous sandstone containing abundant high grade galena-sphalerite clasts. Between 60 and 61 meters another chert-pyrite breccia zone occurs.

The best results from this hole were 4 meters of 1.15% lead, 2.22% zinc, 0.35 g/t gold and 30 g/t silver. The interval between 60 and 61 meters returned 1 meter of 0.62% lead, 1.06% zinc, 0.52 g/t gold and 77 g/t silver. A chert rich zone between 47 and 49 meters returned 2 meters of 1.66% lead, 2.88% zinc, 0.67 g/t gold and 50.5 g/t silver.

EBT-88-WH7: Epiclastic sandstones and breccia were intersected between 90.5 and 117.5 meters. Clasts up to 6 centimeters in size include:

- Grey pyritic chert
- Marble
- Massive galena-pyrite
- Massive galena-sphalerite pyrite
- Light green chert or silicified siltstone
- Massive quartz-feldspar porphyry
- Pyrite.

Results were disappointing because no significant zone of massive sulfide concentration was intersected.

The best result was recorded between 95 and 96 meters, 1 meter of 0.21% lead, 0.45% zinc, 0.005 g/t gold and 4 g/t silver.

Structure

Bedding: Cambro-Ordovician rocks are generally considered to be part of the Osmund Syncline and generally dips eastward. At the Wart Hill prospect vertical, easterly and westerly dips have been recorded indicating a degree of overturning.

Within Cambrian tuffs and Epiclastic sediments bedding is not well defined with both steep westerly and easterly dip recorded in drillcore. From drill sections it would appear that a gross westerly or vertical dip occurs.

Schistosity (Cleavage): S1 cleavage and complex S2 crenulations have been described in Cambrian rocks by Lea (1985) and in petrographic work (Appendix 5). The dominant cleavage within these rocks trend northwest with dips to the southwest between 50 and 90°. It is apparent from both surface outcrops and drillholes that deformation of massive sulfides is strongly controlled by schistosity. Transposed sulfide beds, feathered clasts margins, rodding (lineation) of clasts and mobilization and recrystallization occur in response to deformation.

Faults: The Wart Hill prospect is dominated by the Osmund Fault which traverses from the southeastern corner of the prospect, along the contact between Cambrian and Cambro-Ordovician rock to within 25 meters of the collar of WH7 on Line 13200N. Along this section of the fault abundant quartz veining, quartz-pyrite stockworking and silicification occurs (Enclosure 7). North of Line 13200N the nature and location of the fault is obscure. On Enclosure 7 the fault is interpreted to pass the massive sulfide pod (Lens 'A') and continue in a north-northwesterly direction. Intense silica-carbonate alteration and mylonitization are recorded in drillholes in this area. Other writers (notably Large et al, 1987) suggest the fault continues to follow the Cambrian-Cambro-Ordovician contact. To the west of the Osmund Fault small mylonitized shear are recognized in holes WH1, WH4 and WH5. The orientation is similar to that of the Osmund Fault.

The prospect is subdivided into three geologically distinctive parts by two high angle cross-faults which have west-northwest and west-southeast orientations. Movement on these faults has resulted in a general eastward movement of Cambro-Ordovician rocks, eastward movement of geochemical anomalies (Enclosures 13 and 14) and exposure of quartz-feldspar-biotite porphyry. This suggests that north of the southern-most cross fault both Cambrian and Cambro-Ordovician sequences dip eastward and

apparent displacements may be a response to simple upward block faulting.

It is clear from available data that little is known about the structure of the prospect. Further detailed analysis is required.

Alteration

Pervasive Sericite-Chlorite: All quartz-feldspar bearing rocks on the prospect have undergone pervasive sericite-chlorite alteration. Sericite is dominant and chlorite generally occurs in rhyolitic quartz-feldspar-lithic tuffs which contain numerous clasts. Clasts are preferentially altered to chlorite.

Sericite replaces feldspar in both Cambrian and Cambro-Ordovician sequences. Few feldspar remnants are observed in thin section. Swampy, low-lying ground shown on Enclosure 7 reflects the zone of intense sericite alteration. Here soil and drill core samples are milky white and extremely soft. This may indicate clays, as well as sericite occur. Weak pyritic mineralization occurs in places with sericite. In core samples rocks display a pale green coloration.

Sericite-Pyrite: This type is difficult to distinguish from the above. It is probably best defined by its location. It occurs predominantly within zones containing best massive sulfides either as pervasive replacement of tuffs or of tuff clasts in epiclastic sequences (Plate 6). The alteration gives the rock a yellow-brown color and is associated with what appears to be transposed beds(?) of sphalerite-galena-pyrite within tuffs.

Fuchsite: This alteration type has not been positively identified and is only recognized in hole WH1 near the top of the hole. It occurs as a bright green mica and is associated with chlorite.

Chlorite-Sericite-Pyrite in Siltstones: This alteration occurs on the western side of Lens 'A' and as clasts intimately associated with massive sulfide rocks in drillcore. It consists

of a soft, soapy, chlorite-sericite fine siltstone with disseminated pyrite cubes. It is either a dark green or apple-green color depending on chlorite and sericite content.

Quartz-Carbonate-Sericite: This alteration type is by far the most widely recognized and the most intense alteration type on the prospect. It is both pervasive and vein controlled.

There appears to be a gradation in intensity from pervasive pale green sericitization to pervasive carbonate alteration to pervasive and vein controlled carbonate-quartz alteration to carbonate-quartz-chlorite±sulfides in veins and stockworks.

Pervasive Types: Rhyolitic tuffs located on the eastern side of the prospect (WH1 and WH7) have 'tiger striped' fragmental-type appearance. Although the rock does contain fragments, the 'striping' is a response to differential alteration and is not a primary feature. The part of the rock which appears to be a clast is medium-coarse grained and relic feldspar, biotite and quartz are clearly visible. The 'matrix' zone consists of finer material where relic feldspars are difficult to discern, biotite is absent and pervasive green-yellow sericite occurs with fine silica and calcite. The 'clast' zone is relatively unaltered while the 'matrix' is altered. Unaltered and altered zones are stretched in the direction of schistosity.

In WH1 this alteration increases in intensity downhole so that 'clast' zones become fewer and smaller and 'matrix' zones predominate.

The above 'tiger stripe' does not occur in epiclastic rocks. Instead most sediments have undergone a pervasive sericitization. The rock matrix (sandstone) is pale green due to sericite (Plate 10). As alteration intensity increases carbonate forms with sericite to replace both feldspar and groundmass material. Dolomite and calcite are the dominant forms though ankerite, siderite and magnesite have tentatively been identified.

As alteration intensity increases further carbonate predominates over sericite. For example in WH4 the rock changes progressively from a green sericitized alteration to a near white carbonate (calcite alteration) accompanied by fine silica, patchy chlorite and finely disseminated sulfides (Plate 11). Veins also occur in this zone (WH4 from 78 to 83 meters).

As intensity further increases veins occur and cut the above alteration types.

Veins: Quartz-carbonate-sulfide veins are found in all rock types including quartz-feldspar-biotite porphyry, mafic dikes and Cambro-Ordovician sediments. Veins include laminated, colloform and stockwork types. They contain quartz, calcite, chlorite, sphalerite, galena and pyrite. Galena-bearing veins are most common. Single veins locally have broad sericitic alteration haloes.

Stockwork vein systems (eg 13080N:10140E and WH5 from 46 to 60.3 meters) occurs as highly siliceous zones of intermeshed quartz-calcite-chlorite-sulfide veinlets. Pervasive brown colored silicification occurs around this zone. Sulfides are dominated by pyrite, however coarsely crystalline patches of galena and sphalerite also occur (Plate 12). Isotope geochemistry undertaken by Gulson and Porritt (1987) on veins from Geopeko's DDH-1 indicates the isotopic variation between Lens 'A' and veins is too large for these to be feeders to the same mineralizing system. Paragenetic relationships observed in core which clearly supports this. Veins and associated alteration types clearly overprint massive sulfide bearing rocks.

Paragenesis

Quartz-carbonate-sericite and pervasive sericite-chlorite alterations overprint all rock types. Veins appear to post-date pervasive alteration types. Since massive sulfide fragments are rock forming constituents of epiclastic sediments (possibly deposited in debris flows) the alteration must post-date formation of syngenetically deposited sulfide.



Plate 12: Stockworked vein system. Quartz-calcite-chlorite±pyrite dominate

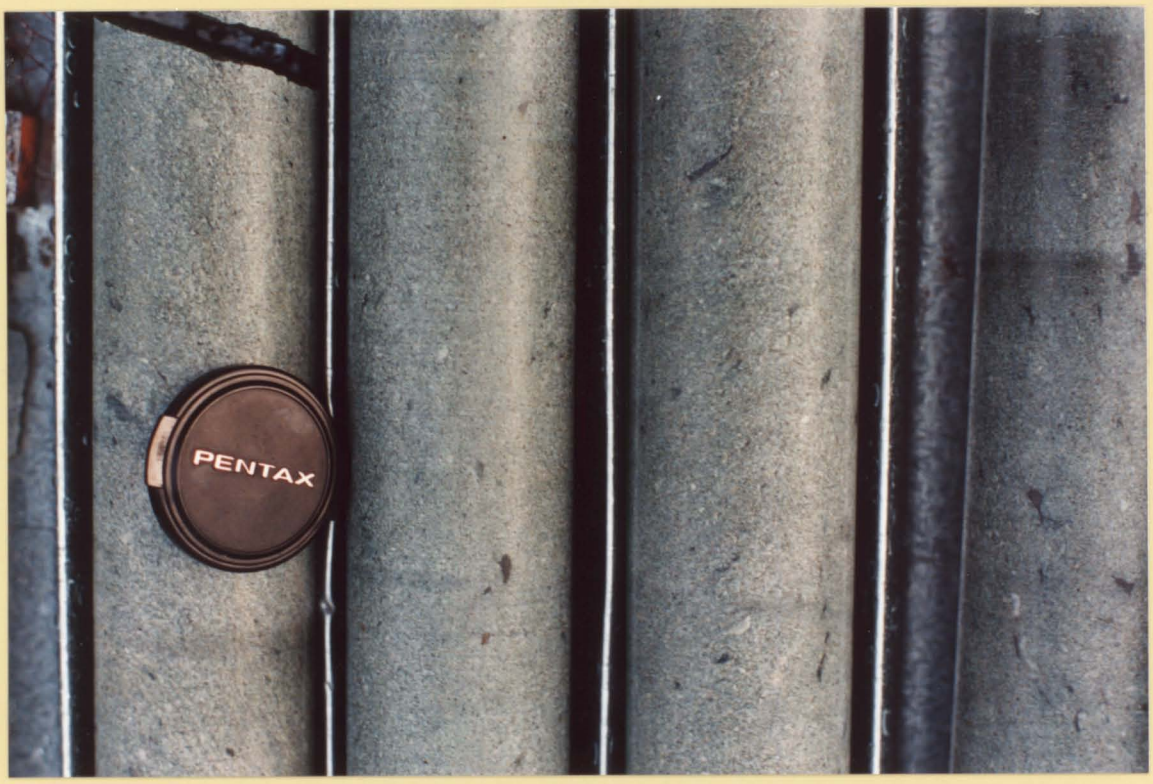


Plate 10: Epiclastic sandstone/breccia containing massive sulfide fragments (browns and greys) in a green sericitized matrix



Plate 11: Epiclastic sandstone/breccia which has been altered to a carbonate-silica-chlorite assemblage and contains minor disseminated sulfides and veinlets of calcite and quartz

The relationship of sericite-pyrite, fuchsite and chlorite-sericite-pyrite in siltstones to massive sulfides suggest contemporaneity.

The abundance and intensity of alteration at Wart Hill suggests the zone was a favorable fluid conduit over a prolonged period.

Sulfide-bearing epiclastic units which flank and partly overlie the Que River and Hellyer orebodies have similarly undergone extensive alteration after initial massive sulfide deposition (Large et al, 1987 and McArthur, 1986).

The occurrence of sulfide veins which lie subparallel to schistosity or highly deformed and feathered sulfide layers or fragment boundaries reflect the influence of subsequent deformation on ductile sulfides. Late stage quartz-carbonate±chlorite±galena±pyrite±sphalerite veins are attributed to late or 'sweated out' fluids which remobilize already existing rock constituents.

Summary - Massive Sulfide at Wart Hill

High grade (30% combined lead and zinc) gold-silver bearing (up to 14 g/t gold and 300 g/t silver) massive sulfide pods occur as fragments, clasts or rafts within marine, epiclastic sandstones, breccias and conglomerates and interdigitate and grade into rhyolitic tuffs. Fragments within epiclastic units are considered to be exotic and allogenic. Deposition was probably facilitated by debris flows in a tectonically unstable basin environment. Interdigitation with tuffs suggest contemporaneous volcanism. Tuffs and sediments were subsequently intruded by rhyolitic porphyries and mafic dikes.

All rocks have undergone extensive alteration over a long period of time and have undergone substantial deformation. The close proximity of the Osmund Fault suggests it may be a fundamental and long lived fluid conduit. By analogy with other deposits in the Mt Read Volcanic Belt the sulfides at Wart Hill are

interpreted to be derived from high level parts of a massive sulfidic mound. This is suggested by:

- High lead and zinc to copper ratios
- High gold content
- Presence of chert-carbonate rocks with may represent exhalites
- High barium content.

Diamond Drilling

A total of 7 holes were drilled for an aggregate of 578.1 meters of core. The contractor was Diamond Drilling (Tasmania) Pty Limited and the drill rig was a Longyear 38. Drilling details are outlined below and drillhole locations are shown on Enclosure 7. Drill sections are presented as Appendix 3, drill logs as Appendix 4 and analytical result sheets included in Appendix 6.

Hole	Co-ordinates	Azimuth	Decln	Total Depth
EBT-88-WH1	13210N:10010E	78°	50°	78.5m
EBT-88-WH2	13210N:09985E	78°	50°	64.0m
EBT-88-WH3	13350N:10080E	258°	50°	69.2m
EBT-88-WH4	13150N:10040E	258°	50°	95.1m
EBT-88-WH5	13100N:10040E	258°	50°	82.5m
EBT-88-WH6	13100N:10090E	258°	50°	68.8m
EBT-88-WH7	13210N:10070E	258°	60°	120.0m

The relatively shallow holes were designed to test soil geochemical and weak geophysical anomalies. The nature of the targets, summary logs and conclusions are tabulated on Table 3. Significant intersections are tabulated below.

Hole	From (m)	To (m)		Width	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
EBT-88-WH1	16	17	=	1m	0.34	0.71	0.01	15.0
and	26	28	=	2m	0.21	0.355	0.043	3.25
EBT-88-WH2	25	30	=	5m	0.184	0.44	0.04	7.8
and	32	40	=	8m	0.42	0.99	0.05	11.25
incl	32	36	=	4m	0.705	1.63	0.08	18.75

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Wart Hill: Rig shift from Hole 6 to 7. Wart Hill in background

Hole	From (m)	To (m)		Width	Pb (%)	Zn (%)	Au (g/t)	Ag (g/t)
and	43	51	=	8m	1.205	3.10	0.18	24.0
incl	44	45	=	1m	3.40	10.67	0.275	52.0
EBT-88-WH3	No Significant Intersections							
EBT-88-WH4	45.4	51	=	5.6m	0.45	1.04	0.05	22.4
incl	46.4	47.4	=	1m	1.19	2.54	0.28	23.0
and	53.3	54.7	=	1.4m	3.04	6.00	0.06	44.0
and	84	85	=	1m	6.70	12.05	0.90	168.0
EBT-88-WH5	NSI							
EBT-88-WH6	42	45	=	3m	0.23	0.42	-	3.8
and	47	51	=	4m	1.15	2.22	0.35	30.0
incl	47	49	=	2m	1.66	2.88	0.67	50.5
and	57	68.8	=	11.8m	0.23	0.34	0.07	23.0
incl	60	61	=	1m	0.62	1.06	0.52	77.0
EBT-88-WH7	NSI							

Soil Geochemistry

A total of 232 B/C horizon soil samples were collected from the Wart Hill area (Enclosure 8). Of these 174 were collected from the area of known massive sulfide occurrence between Lines 13000N and 13400N. These results are presented separately and contoured on Enclosures 10 to 15. The remaining samples (58) were collected from Lines 13600N, 13700N and 13800N in order to infill gaps in Geopeko's original sampling (Enclosure 9).

All samples were submitted to Analabs in Burnie for copper, lead, zinc, arsenic, gold and locally barium analyses. Analytical techniques and laboratory codes are shown on data sheets in Appendix 6.

Results

Lines 13600N, 13700N and 13800N: No significant results were returned for copper, lead or zinc. Maxima are 50 ppm, 110 ppm and 130 ppm respectively. Arsenic values are generally low with the exception of samples on Line 13800N which returned up to 80 ppm. These samples were collected from soils overlying black

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TABLE 3 WART HILL DIAMOND DRILLING - SUMMARY

Hole	Justification	From (m)	To (m)	Summary Log	Comments
EBT-88-WH1	Soil anomaly up to 1.7% zinc. Rockchips in old trench up to 39% zinc.	0.0	14.0	LAPILLI TUFF	Epiclastics first recognized. Alteration increasing downhole ie. toward Osmund Fault.
		14.0	37.8	MIXED LAPILLI TUFF & EPICLASTIC SEDIMENTS (Massive Sulfide Fragments)	
		37.8	73.8	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF 'Tiger striped' alteration increases in intensity downhole. (Carbonate-quartz-sericite)	
		73.8	76.9	EPICLASTIC SANDSTONE - ankerite veins	
		76.9	78.5	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF - mylonitized	• No Significant Mineralization
EBT-88-WH2	Soil anomaly up to 3000 ppm zinc. Coincident but subtle - UTEM - VLF - MAX-MIN - RESISTIVITY LOW anomalies.	0.0	11.0	TUFF	Pyritic stringer in chert may be responsible for geophysical anomalies. Massive sulfide intercept considered to be a large raft within the epiclastic sequence.
		11.0	37.1	EPICLASTIC SEDIMENTS (Massive sulfide + chert fragments)	
		37.1	51.0	MASSIVE SULFIDE	
		51.0	64.0	EPICLASTIC SEDIMENTS	• Significant Mineralization
EBT-88-WH3	Northern extension of the Lens 'A' geochemical anomaly up to 8300 ppm zinc.	0.0	26.7	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF	Epiclastic sequence intercepted - must pinch out before it reaches Geopeko's V19/1.
		26.7	42.9	EPICLASTIC SANDSTONE & BRECCIA	
		42.9	48.7	DOLERITE	
		48.7	69.2	MASSIVE QUARTZ-FELDSPAR-BIOTITE PORPHYRY	• No Significant Mineralization
EBT-88-WH4	Soil anomaly up to 1.27% zinc. Broad weak - MAX-MIN anomaly.	0.0	2.1	MUDSTONE	Surface anomaly probably due to fault controlled mineralization.
		2.1	36.0	LAPILLI TUFF	
		36.0	45.4	EPICLASTIC SANDSTONE & BRECCIA	
		45.4	49.0	FAULT - Mineralized	
		49.0	54.3	EPICLASTIC SANDSTONE & BRECCIA	78.3 to 83.6 Highly silicified and carbonated.
		54.3	55.5	SULFIDE-CHERT BRECCIA	
		55.5	84.0	EPICLASTIC SANDSTONE & BRECCIA (Massive sulfide fragments)	
		84.0	85.4	MASSIVE SULFIDE	
		85.4	95.1	EPICLASTIC SANDSTONE & BRECCIA	• Significant Mineralization

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TABLE 3 (Cont)

Hole	Justification	From (m)	To (m)	Summary Log		Comments
EBT-88-WH5	Two soil anomalies up to 8250 ppm and 1600 ppm zinc.	0.0	7.5	TUFF		Surface anomalies due to sulfide fragments in epiclastics or fault controlled mineralization.
		7.5	27.5	EPICLASTIC SANDSTONE & BRECCIA	(Massive sulfide fragments)	
		27.5	30.5	FAULT (Melange)		
		30.5	43.0	EPICLASTIC SANDSTONE & BRECCIA	(Massive sulfide fragments)	
		43.0	46.0	TUFF		
		46.0	60.3	SILICIFIED STOCKWORK ZONE		
		60.3	63.0	EPICLASTIC SANDSTONE & BRECCIA		
		63.0	77.8	TUFF		
		77.0	82.5	EPICLASTIC SANDSTONE & BRECCIA		• No Significant Mineralization
EBT-88-WH6	Two soil anomalies 1500 ppm and 2200 ppm zinc.	0.0	42.0	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF	(Abundant qtz-calcite-chlorite veins)	Eastern-most geochemical and geophysical anomalies not explained.
		42.0	68.8	EPICLASTIC SANDSTONE & BRECCIA	(Massive sulfide fragments)	Western-most geochemical anomaly due to sulfide fragments in epiclastics.
	Weak coincident - UTEM - VLF anomalies.					
	Rockchip to 9.75% zinc and 4.17% lead.					• Significant Mineralization
EBT-88-WH7	Assessment of geochemical anomalies targeted in holes WH1 & 2 at depth.	0.0	90.5	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF	(Patchy silica-carbonate sericite alteration)	Westerly dip indicated.
	Determination of dip.	90.5	117.5	EPICLASTIC SANDSTONE & BRECCIA	(Massive sulfide fragments)	
		117.5	120.0	PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF		• No Significant Mineralization

shales of the Waterloo Creek Group. Elsewhere these display arsenic anomalism due to finely disseminate arsenopyrite.

Area of Massive Sulfides: Detailed sampling in this area was designed to better define the complex structural/stratigraphic geochemical trends outlined in last year's program.

Copper: Values obtained this season range from <5 to 1650 ppm (Enclosure 10). The best value was located at 13080N:10030E. Massive sulfide was excavated by hand from beneath this sample point. Sampling enabled redefinition of anomalies in the central part of the grid into linear north-south trending zones. Whilst anomalies are generally of low tenor (20 to 200 ppm) they are significant in that they mimic the predominant zinc and lead anomalies.

Lead: Cyprus values range from <5 ppm to 6.58%. Work this season has established the presence of several discrete anomalies (Enclosure 11). The northernmost anomaly is well defined by both Geopeko and Cyprus work and covers massive sulfide Lens 'A'. The southernmost anomaly (centered at 13050N:1006E) is also well defined and covers massive sulfide Lens 'B'.

Probably the most interesting anomalies lie between the two lenses of massive sulfide between Line 13080N and 13220N. Here three or possibly four elongate, north-south trending anomalies occur over a strike length of 150 meters. They reflect the presence of massive sulfide fragments in epiclastic sediments which are intercalated with tuffs. These anomalies are generally no greater than 30 meters wide with the exception of the western-most zone. Here the anomaly follows the 10000E baseline and has a western lobe centered at approximately 9980E. This gives a total anomaly width of 40 to 50 meters in places.

Zinc: Cyprus values range from 10 ppm to 3.72%. Discrete anomalies similar in shape to those defined by lead geochemistry overlaid the massive sulfide Lens 'A' and 'B'. Three or four north-south trending linear anomalies are observed between 13080N and 13220N. As for lead, the western-most of these anomalies

(centered on 10000E) has a bulbous western zone which extends to 9980E (Enclosure 12).

Arsenic: Cyprus values range from <1 to 100 ppm. Anomalies are subtle and of low tenor but simulate those defined by copper, lead and zinc geochemistry. Two anomalies occur over the massive sulfide pods and linear north-south trending anomalies occur between Lines 13100N and 13220N (Enclosure 13).

Barium: Barium analyses were carried out on all samples collected by Cyprus (1986-87 and 1987-88 seasons). Anomalies are incomplete as Geopeko samples for example over the massive sulfide lens were not analyzed. Values range from 204 to 3020 ppm.

The 750 ppm contour appears to constrain the prospective horizon which consists of interlayered epiclastics and tuff (Enclosure 15).

An anomaly to the north (centered on 13350N:10070E) generally corresponds to the northern part of the lead and zinc anomalies which cover Lens 'A'. Further to the south four north-south linear anomalies occur between 13100N and 13220N. These anomalies are interesting because with one exception, they have an antipathic relationship to zinc and lead anomalies. That is, they occur in the geochemical 'valleys' between lead and zinc highs. The exception to this is the anomaly which straddles the 10000E baseline. The antipathetic relationship is interesting because barite has been reported to occur with the massive sulfide fragments (up to 10% in WH4). Furthermore the mobility of barium under all pH conditions is generally considered to be low. Further work is required to determine the geochemical relationship between base metals and barium in this environment. From this initial survey it would appear that barium is a good indicator for the favorable massive sulfide-bearing horizons.

Gold: Gold values over the Wart Hill area have been sporadic and are not contourable (Enclosure 14). Detectable gold has been discovered in soils. The most notable being a 14.78 g/t gold

result from 130080N:10030E. Excavation of a pit at this site revealed fragments of high grade galena-sphalerite massive sulfide. Bedrock samples returned between 3 and 6 g/t gold. It would appear that even though the distribution of gold on the grid is sporadic it is nonetheless an important constituent of the massive sulfide pods.

Rock Geochemistry

A total of 6 rockchip samples were collected this season (Enclosure 7). Best results were 0.66% copper, 8.52% lead, 12.12% zinc, 0.12% arsenic, 135 g/t silver and 6.62 g/t gold. Rock descriptions have been outlined in a previous section.

Work by Huston and Large (1987) indicates Cambrian volcanogenic massive sulfides in Western Tasmania (Rosebery, Hercules, Que River and Hellyer) are characterized by a distinctive zinc to lead ratio (100 zinc/(zinc + lead)) with mean values between 60 and 77 and standard deviations less than 15. They considered that at Elliott Bay, Wart Hill (Voyager 19) and the Drake Creek prospect (Voyager 3) were highly prospective due to the similarity of the zinc ratio and mineralization to the above deposits.

A total of 26 drill core and trench samples from this season's work are tabulated (Table 4) and the following results calculated:

- Mean of the zinc ratios = 68.30
- Standard deviation of the zinc ratios = 4.45

Results are plotted on a frequency histogram (Figure 4) and a zinc versus lead plot (Figure 5).

From this data it is clear that a marked geochemical similarity exists between the Wart Hill massive sulfide and other volcanogenic deposits in the Mt Read Volcanic Belt.

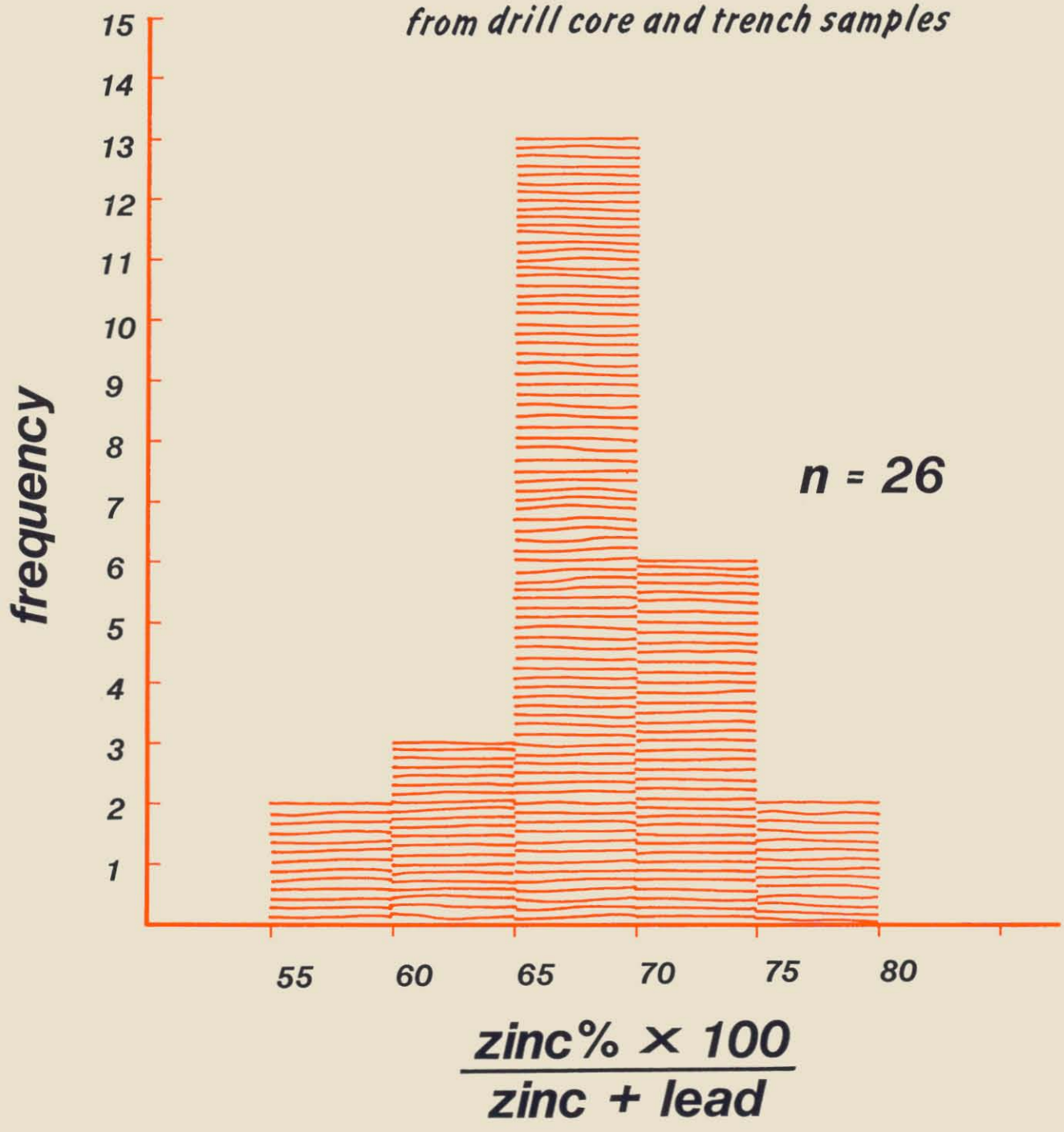


FIGURE 4

WART HILL

Zinc Ratio Histogram

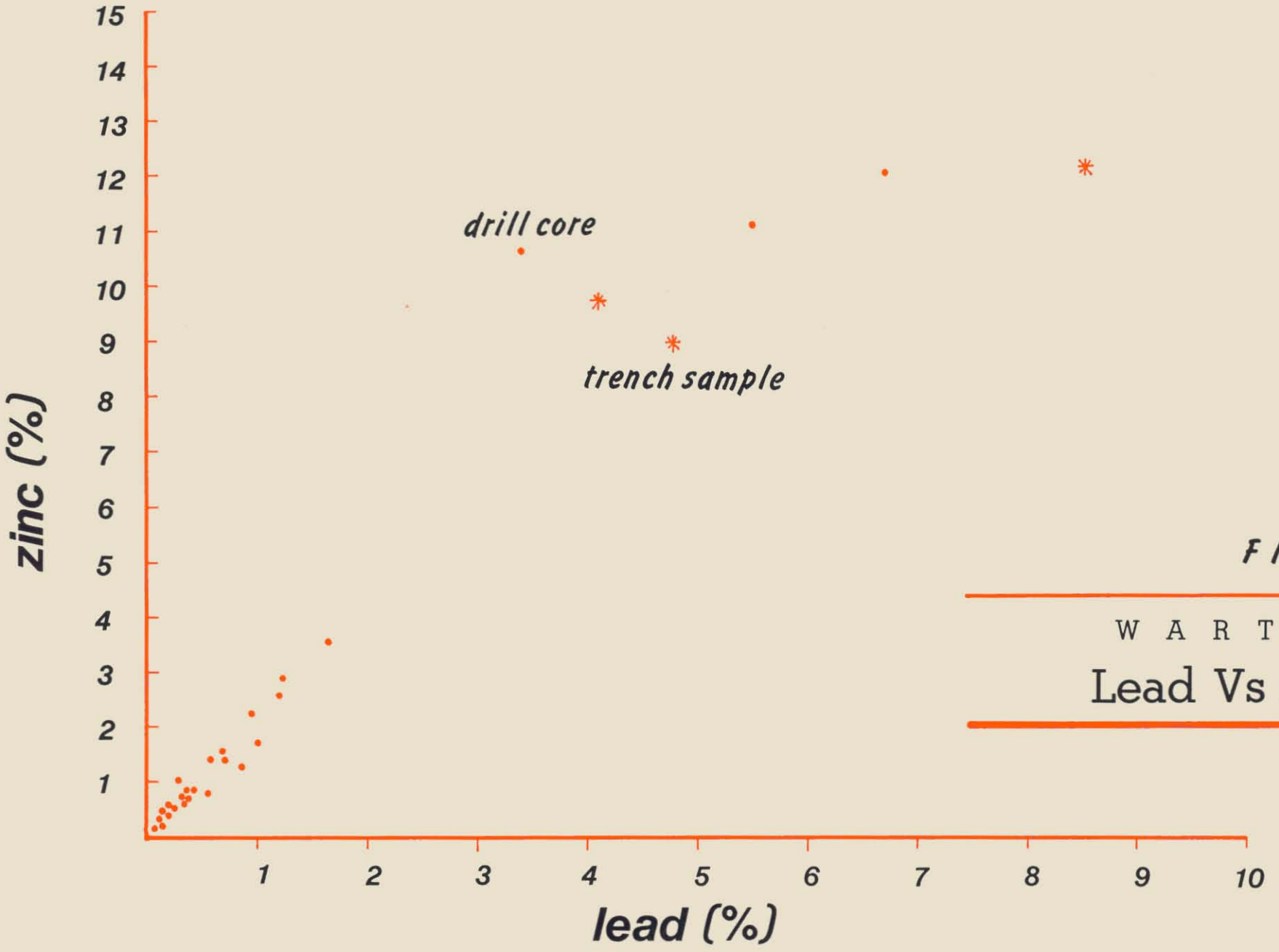


FIGURE 5

WART HILL

Lead Vs Zinc Plot

F430080

TABLE 4 ZINC RATIO CALCULATIONS

Sample	Pb (%)	Zn (%)	Zn% x 100 (Zn + Pb)
292115	0.57	1.43	71.50
292116	3.40	10.67	75.83
292117	1.24	2.96	70.47
292118	0.29	1.03	78.03
292119	0.67	1.74	72.20
292120	1.65	3.57	68.39
292121	0.86	1.25	59.24
292122	0.96	2.22	69.81
292126	0.145	0.33	69.47
292127	1.19	2.54	68.10
292128	0.170	0.42	71.19
292129	0.415	0.85	67.98
292130	0.340	0.65	65.66
292131	5.53	11.18	66.91
292132	6.70	12.05	64.27
292133	0.55	0.80	59.26
292136	0.205	0.55	72.85
292137	0.080	0.155	65.96
292138	0.103	0.235	69.53
292139	0.310	0.75	70.75
292140	0.22	0.51	69.86
292143	1.00	1.60	61.54
292144	0.70	1.40	66.66
292884	0.34	0.71	67.62
292890	0.24	0.41	63.08
292899	0.33	0.76	69.72

Geophysics

On completion of diamond drilling at Wart Hill a downhole SIROTEM survey was undertaken. Work was undertaken by McSkimming Geophysics and is summarized in a report by S Collins (Appendix 2). Collins suggests possible offhole responses may occur off the ends of holes WH5 and WH7.

EAST CAMP.....

This area was previously known as Voyager 29 (Geopeko) and is located 500 meters east of the Wart Hill camp and immediately south of the Wart Hill grid, sharing the same regional baseline (10000E).

The grid is covered by flat to undulating button grass plain. Outcrop in the area is extremely poor being obscured by a thin veneer of peat soil and quartz lag gravel. Mineralization detected to date consists of disseminated pyrite-galena-sphalerite associated with sericitized crystal tuffs and tuffaceous shale.

Previous Exploration

Mineralization was initially located by Geopeko during the 1980/81 field season. Regional Jackro augering on a 200 by 25 meter grid outlined an area of interest 1.0 by 1.6 kilometers with anomalous values up to 3.2% zinc.

In the next year the Jackro sampling was infilled to a 100 by 25 meter grid pattern, defining four lead-zinc anomalous zones (Enclosures 23 to 25). These anomalies were assessed in greater detail with 5 meter spaced power auger holes and backhoe costeaning, the latter having since been infilled. During this phase of exploration difficulties were encountered repeating the initial Jackro sampling due to the leached B/C horizon soils and the spotty nature of lead-zinc mineralization.

In addition to the soil and rock geochemistry the grid has been covered with total field ground magnetics and VLF/EM, selected areas have also been assessed with IP and gravity.

A proposed diamond drillhole was defined by Geopeko, targeted at a coincident zone of bedrock lead-zinc geochemistry, chargeability and gravity anomaly at 10050E and 10300 to 10500N. This zone is interpreted by them to be a broad zone of near

surface mineralization or alternatively a discreet body of greater than 50 meters below surface.

Gridding

A total of 3.3 kilometers of infill lines and old lines were pegged at 25 meter intervals over the four lead-zinc anomalies previously defined by Geopeko between grid coordinates 10050 to 10650N and 9900 to 10800E.

Soil and Rock Geochemistry

B/C horizon soils were collected with hand augers at 50 by 25 meters and 25 by 12.5 meter spacings (total of 187 samples). These were analyzed for copper, lead, zinc, arsenic, gold and barium. This data is presented in Appendix 6 and on Enclosures 18 to 22.

Eighty-eight Geopeko auger pulps stored at the Mines Department were obtained and assayed for gold and arsenic (Appendix 6). All gold determinations have been by fire assay.

Generally there was poor repeatability of the Geopeko data, but anomalous base metals detected by Cyprus do occur within the same anomalous zones. The best response at 10250N:10125E (650 ppm lead and 1150 ppm zinc) is broadly coincident with Geopeko's geochemical, chargeability and gravity anomaly.

Forty of the soil samples assayed greater than 0.008 ppm gold, 12 of these were greater than 0.10 ppm with a maximum value of 2.39 ppm at 10075N:10375E. These anomalous values are not associated with anomalous levels of arsenic or base metals and are too erratic to contour. Sample sites assaying greater than 0.10 ppm gold were pitted and bedrock sampled, only six of these returned assays greater than 0.008 ppm. The best soil site again assayed at the highest level but a magnitude lower at 0.24 ppm gold is associated with weak arsenic (22 ppm) and zinc (160 ppm) anomalies. Intensely sericitized quartz crystal tuff with minor

pyrite was also resampled at this location, assaying 0.07 and 0.004 ppm gold in the 'A' and 'B' horizons respectively.

Geopeko auger pulps from Lines 10400 to 10600N between 10000 to 11000E were obtained. These were analyzed for gold and arsenic. Only one assayed greater than 0.005 ppm gold at 0.02 ppm.

The maximum arsenic value of 960 ppm was returned from a Geopeko sample which is probably associated with black shales in the core of the Osmund syncline at 10600N:10975E.

Sulfide grains and fragments were noted in auger samples at 8 locations from depths between 0.4 and 0.7 meters indicating sulphides have not been totally leached from the profile. Three of these locations are anomalous in base metals (Appendix 6).

Geology

A geological assessment of the area by Cyprus has been limited to logging rock fragments from soil auger holes (Appendix 6).

Detailed geology by Wilson (Geopeko) 1982 has been redrafted by Cyprus (Enclosure 16). Although outcrop is poor bedrock is generally less than 0.5 meter depth but obscured by peat soils and a veneer of quartz lag.

From Geopeko mapping the geology consists of a north-south trending sequence of quartz and feldspar crystal tuffs, vitric tuff and rhyolitic lavas which are overlain to the west by a micaceous sandstone.

This Cambrian sequence is unconformably overlain in the east by Cambro-Ordovician quartz sandstone and shales of the Osmund Syncline.

Mineralization

The crystal and vitric tuffs have been variably sericitized and chloritized. Mineralization styles described by Geopeko from costeaning and pitting of the four main anomalies includes:

- **10400N:10100E:** Clay altered coarse grained quartz crystal tuffs with up to 2% disseminated pyrite, occasionally with disseminated galena and veinlets of red hematitic material.

  Geopeko chip samples from this style of mineralization returned maximum values of 880 ppm lead and 40 ppm zinc at least an order of magnitude less than the Jackro samples from the same site.

- **10300N:10250E:** Foliated medium grained quartz crystal tuff with up to 5% disseminated pyrite with streaky rods of galena. This zone is characterized by lead assaying at higher levels than zinc, 0.37% and 0.115% respectively. The nature of the galena and the relative lead to zinc ratio may indicate remobilized mineralization.

- **10400N:10400E:** Mineralization is hosted by narrow bands of sericitized and pyritized 'shale' and crystal tuffs with shaley tuff lithic fragments. Pyrite-galena mineralization occurs as disseminations, rodded and streaked galena on the foliation surfaces and foliated massive galena-pyrite-sphalerite-chlorite. The best 1 meter chip sample from this costean was 1.15% zinc and 0.17% lead.

Conclusions

- As with Geopeko's follow-up power auger and costean sampling the current hand augering program had difficulty in repeating assays from the original Jackro sampling. This poor repeatability is due to the spotty localized nature of mineralization and the variable sample depth in relation to metal leaching in the soil profile. Hand augering at East Camp is not as effective at locating base metals as at Wart Hill

- Despite this poor repeatability the anomalous zones with the exception of the eastern zinc anomaly were broadly located

- The lead-zinc anomaly at 10300N:10425E may be associated with a similar epiclastic unit as at Wart Hill. That is, a lithic tuff with shale and possibly sulfide fragments. Sulfides are described by Geopeko as being disseminated but due to the sericitized, foliated and weathered nature of the rocks in costeans the presence of sulfide clasts could be easily overlooked

- The western coincident geochemical, chargeability and gravity anomaly at 1005E and 10300 to 10500N warrants diamond drilling. Specific details of this program should be considered in the Elliott Bay review

- Anomalous gold up to 2.39 ppm in soils has not been substantiated with follow-up rockchip sampling, the best value 0.24 ppm associated with sericitized and pyritic crystal tuff. Gold's apparent erratic distribution in soil and rock in this area should only be prospected for as a secondary target associated with base metals.

Soil Geochemistry

A total of 223 samples were collected mainly at 25 meter spacings (Enclosure 26). Samples were hand augered to the B/C horizon, the average depth being 0.8 meters and the maximum 1.4 meters.

The 'B' horizon development is restricted to a few centimeters beneath peat soils and quartz lag (Appendix 6).

Samples were analyzed for copper, lead, zinc, arsenic, gold and barium (Appendix 6). Only the gold values have been plotted (Enclosures 27 and 28).

In the southern area the maximum gold value was 110 ppb at 8900N:8725E. Five weakly anomalous values between 25-65 ppb are located on lines further south, these results are not contourable. All other values are less than 15 ppb.

Three Geopeko spot highs ranging in value from 530 to 1800 ppb on Line 9000N were resampled. The best result was 50 ppb with all others assaying less than 8 ppb.

The maximum result from infill gridding in the northern area was an isolated value of 15 ppb. All others were less than 8 ppb gold.

Most samples assayed less than 15 ppm for base metals and one close to detection for arsenic. The highest assay was in the northern area at 9987.5N:9300E which returned 80 ppm copper, 355 ppm lead and 40 ppm zinc.

Rock Geochemistry

A single sample from a quartz pyrite arsenopyrite vein at 9900N:9250E assayed 1.74 g/t gold. This vein is a meter wide and only has a strike length of a few meters. Soil geochemistry in the area confirms this limited extent.

SASSY CREEK.....

This area is located one kilometer south of the Wart Hill camp and was previously prospected by Geopeko and later by Cyprus as Voyager 24.

Geopeko located a broad zone of stratabound gold mineralization which was tested with four diamond drillholes, the best intersection was 3 meters of 17.5 g/t gold from a quartz sulfide bearing vein which was sub-parallel to the core.

Exploration history and geology of the area is outlined by R Large and Large et al 1987 (Cyprus report 525, Appendix 6).

Work in the current season entailed extending the soil geochemical grid to the south to close off Geopeko's anomalies and infill gridding at 9900N, an area of anomalous gold in soils and quartz sulfide veins.

In southern area Geopeko's anomalous sites could not be repeated. Only weak soil gold anomalies were located. At 9900N the only anomalous value was from a narrow vein which assayed 1.74 g/t gold.

Gridding

The Geopeko grid was extended south of Line 9000N and infilled on Line 9900N.

- Four 50 meter spaced lines were cut between 8800 to 8950N and 8500 to 9100E, a total of 2.3 kilometers. Most of the lines are in forested country and can be accessed by the camp to coast bombardier track

- Five short lines at 50 meter spacings orientated north-south were pegged between 9800 to 1000N and 9150 to 9350E, a total of 400 meters. This area straddles the coastal bombardier track.

Geology

For details of the geology see Large 1981. Cyprus's geology is restricted to logging soil auger chips (Appendix 6). In the southern sample area there is practically no outcrop. Auger chips are predominantly of medium grained quartz crystal volcaniclastic with occasional lenses of micaceous siltstone. These lithologies are consistent with Geopeko's mapping further north.

In the southern area the rhyodacite intrusive and northwest crosscutting structures interpreted by Large (Report 525, Appendix 6) were not located. The area is predominantly a topographic low, indicating lithologies are not significantly veined or silicified.

Conclusions

- The Geopeko gold soil anomalies on Line 9000N were resampled and the anomalous trend sampled for a further 150 meters to the south. Only seven samples assayed >8 ppb, Geopeko's anomalous trends were not located.

- At 9900N resampling an area of spotty Geopeko gold soil anomalies and quartz sulfide veining failed to locate any significant mineralization. The vein with 1.74 ppm gold has no strike extent.

Recommendations

The anomalous zone defined by Geopeko between Lines 9200 and 10000N may warrant further diamond drilling, the holes should be orientated primarily to intersect vein sets.

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LOW ROCKY POINT.....

The Low Rocky Point prospect area lies in the southwestern corner of EL 40/85. It encompasses a number of old Geopeko prospects (Voyager 1, 3A, 5, 6 and 11) on the western, eastern and northern margins of the Low Rocky Point Granite. Work on the Voyager 1 to 5 area (referred to jointly as Penders Prospect) and Voyager 6, was undertaken in the 1986-87 field season (Cyprus Report 525). Results from rockchip and stream geochemical samples and the occurrence of favorable geology and alteration were considered to be encouraging with respect to potential gold mineralization.

Gold occurs in streams, both on the margins, and within the Low Rocky Point Granite. Values of up to 1.07 g/t gold were returned from -80 mesh sediment samples. In panned concentrates results of up to 365.5 g/t gold were obtained and gold grain counts of up to 50 g/t were recorded.

At Voyager 6 narrow quartz-sulfide veins returned up to 7.25 g/t gold in rockchip samples. It was concluded the margins of Cambrian granites at Elliott Bay were prospective and that more work was required in order to isolate anomalies.

This field season, work was designed to test gold anomalies in streams on the western margin of the granite (Western Contact). Further stream sampling was also undertaken on the eastern side of the granite (Eastern Contact). Field work included:

- Re-establishment of the old Geopeko grid (total of 1.9 kilometers)
- B/C horizon soil sampling at 25 meter intervals
- Collection of drainage samples on the eastern side of the granite (total of 11 sites).

Western Contact

Geology

Rhyolitic volcanic rocks of Cambrian age (the Western Epiclastics) have been intruded by the Low Rocky Point Granite

also of Cambrian age. The contact between the two is sheared and trends north-south (Enclosure 29). Both the volcanic and intrusive rocks are interpreted to be transected by the Osmund Fault.

Chlorite alteration is observed on both sides of the contact and chlorite-magnetite alteration occurs where rocks are cut by the Osmund Fault. Veins of quartz which contain pyrite and arsenopyrite occur at Voyager 5. Quartz-pyrite veins with minor bornite and chalcopyrite are observed within volcanic rocks at granite contacts. These contain blebs of chlorite and have well developed chlorite-pyrite alteration halos.

Gridding

Three lines were established over the headwaters of the anomalous drainage immediately east of Penders Prospect (Enclosure 29). Another line was established further to the south and covered the granite contact. Time constraints curtailed further work.

Soil Geochemistry

Outcrop in the area is minimal. Hand auger samples were collected from a well developed soil profile within the B/C horizon. Results for base metals were generally disappointing but some lines display gold anomalism (Enclosures 30 to 33).

Geochemical ranges are <5 to 35 ppm copper, <5 to 15 ppm lead, <5 to 45 ppm zinc, <1 to 4 ppm arsenic and <0.008 to 0.07 g/t gold. Zones of interest are:

- The extreme western end of Line 11600N where two gold anomalies occur (0.03 and 0.07 g/t gold)

- Line 11400N from 10525 to 10875E. Here spiky, anomalous gold values occur in soils (up to 0.06 g/t gold) immediately adjacent to, and upstream from the highly anomalous stream sample (50 gold grains and 365.5 g/t gold in panned concentrates and 0.16 g/t gold in -80 mesh sediment). There is no concomitant base metal response to this zone.

Eastern Contact

Geology

The Low Rocky Point Granite is in contact with rhyolitic volcanic rocks of the Wart Hill and Hudson River Volcanic Sequence. From the coastline at Elliott Bay for 2 kilometers in a north-northwest direction the contact is faulted. At Elliott Bay volcanic rocks on the coastal outcrop are hornfelsed and highly sheared. At the contact they are silicified, locally carbonate altered, contain abundant quartz stockworks and minor hematite-pyrite-quartz veins. Adjacent to the contact the granite is highly sheared, foliated and brecciated. Quartz-pyrite-specular hematite veins are common.

At the headwaters of the stream draining the contact volcaniclastic rocks contain patchy chlorite alteration. Outcrop is extremely poor in this area due to a cover of quartz pebble Tertiary gravels.

Stream Geochemistry

A total of 11 sites were sampled. At each site two pans of bed load gravel were panned to a concentrate. Visible gold grains were counted, but the material was not assayed. In addition up to 100 grams of -80 mesh material was collected for assay. Results are shown on Enclosure 29. Of the eleven samples collected seven returned values above detection limits (0.008 g/t gold) and four samples returned values greater than 0.10 g/t gold. The best value was 0.57 g/t gold (sample 292798).

It appears fine gold is responsible for the above anomalies since no anomalous gold was recognized in panned sample (best grain count was one).

Inspection of anomalous sites proved fruitless as little or no outcrop occurs. One possible source of gold may be Tertiary gravels encountered at the head of the anomalous drainages. Results to date are inconclusive.

Rockchip Geochemistry

A total of nine samples were collected. Descriptions and results are outlined below:

Sample	Cu	Pb	Zn	As	Au	Description
			(ppm)			
292247	<5	<5	<5	2	0.680	Quartz - pyrite - specular hematite vein
293501	<5	10	50	<1	0.005	Silicified fine volcaniclastic with quartz-carbonate-pyrite-hematite veins
293502	5	85	125	20	<0.005	Quartz vein
293503	5	<5	130	13	<0.005	Quartzose, hematite veined hornfelsed tuff
293504	5	5	180	1	<0.005	Quartz-specular hematite vein
293505	35	125	45	3	<0.005	Quartz stockwork in felsic tuff
293506	5	<5	5	<1	<0.005	Specular hematite, pyrite, chlorite-bearing foliated granite
293507	<5	<5	5	<1	<0.005	Granite breccia with specular hematite matrix
293508	5	<5	5	3	0.040	Quartz-specular hematite-pyrite-sericite vein

Best results were obtained from veins for example 0.68 g/t gold in sample 292247.

Conclusions and Recommendations

Western Contact

- Gold occurs in soil on Line 11400N. Gridding, soil sampling and geological mapping is required in order to expand on this one line anomalous zone.

Eastern Contact

- Anomalous gold occurs in -80 mesh sediment samples along this contact. Anomalous gold also occurs in pyrite-quartz-hematite veins

- Detailed stream sampling is required to further delineate gold anomalies.

EXPLORATION POTENTIAL

Results of diamond drilling at the Wart Hill prospect suggest close proximity to a major polymetallic massive sulfide orebody similar to the Rosebery or Hellyer deposits. Cyprus consider this area to be highly prospective.

The margins of granitoids in the area are anomalous in gold. Vein, breccia, stockwork or disseminated replacement mineralization is also considered to be highly prospective.

EXPLORATION PROGRAM

The 1988/89 exploration program will be split into four parts, the first of which is at present underway.

Part 1
Review of all relevant geological, geophysical and geochemical data especially in the Wart Hill-East Camp zone.

Part 2
Re-evaluation of UTEM work undertaken by Geopeko.

Part 3
Diamond drilling of appropriate targets.

Part 4
Follow-up of regional stream and soil anomalies and regional mapping of prospective horizons.

CYPRUS GOLD AUSTRALIA CORPORATION

EXPENDITURE FOR THE PERIOD JUNE 1, 1987 TO MAY 31, 1988

ELLIOTT BAY EXPLORATION LICENCE 40/85

	$
Salaries and Wages	67,265.14
Benefits	13,297.96
Drafting	11,289.09
Data Processing Fees	148.77
Cookery	14,854.31
Field Office Rent	737.20
Field Supplies - General	11,158.53
Freight	4,690.73
Aircraft Charter	155,061.50
Travel	7,668.00
Communications	6,658.51
Geophysics	15,776.22
Consulting Fees	10,959.20
Other Contractors	7,229.30
Contract - Geological	18,734.60
Drilling	106,881.47
Assays	23,699.40
Equipment Rental	11,806.67
Equipment Operation and Maintenance	6,628.03
Property Payments	(1,464.60)
	$493,080.03
Overhead at 10%	49,308.00
TOTAL	**$542,388.03**

C WILLIAMS
MANAGER - ACCOUNTING

007

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. Location, Access and Logistics	J Suppree
. Air photo and Magnetic Lineament Interpretation	C Torrey
. North Lewis	C Torrey
. Wart Hill	C Torrey
. East Camp	R Poltock
. Sassy Creek	R Poltock
. Low Rocky Point	C Torrey/R Poltock

The report has been compiled and collated by Chris Torrey.

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APPENDIX 1

A COMPILATION OF GEOPHYSICAL SURVEYS CARRIED OUT AT ELLIOTT BAY (EL 27/67)

By Mitre Geophysics

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MITRE GEOPHYSICS PTY LTD
MINERAL EXPLORATION AND ENGINEERING CONSULTANTS
BUGGS LANE ELLIOTT TASMANIA 7325 PHONE 004-363143

A COMPILATION OF GEOPHYSICAL SURVEYS CARRIED OUT AT ELLIOTT BAY (E.L. 27/76).

for

Cyprus Minerals Australia Company

by

Dr J.R. Bishop

CM/MG87/11
Jan., 1988

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Note: Maps shown on this list at 1:25000 scale have been reproduced at 1:50000 scale for this Appendix 1 of Cyprus Report 595.

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Figure 24. Geophysical anomaly compilation; V3 to V12 (1:10,000 scale).

SUMMARY

The Elliott Bay area of south-west Tasmania is a remote, but highly prospective region for base and precious metals hosted by Cambrian volcanics. Prior to Cyprus' tenure, the area was held by Geopeko who defined thirty six prospects. These were mostly regarded as separate entities by Geopeko who produced no overall synthesis of their several years work in the area, a considerable portion of which involved geophysics. This was partly due to the discovery of some small, but high-grade massive sulphide pods in the Wart Hill area and some promising gold assays from stream sediments further to the south. The immediate areas around these two finds absorbed much of Geopeko's exploration effort with a concomitant reduction in work on the remaining prospects. One aim of this report has been to compile all of the geophysical data onto a digital data base which will enable the results to be presented at any desired scale. For this report, they have been plotted at 1:25,00 scale which shows the whole licence on one sheet. A second aim has been to evaluate the results. This has been done having regard to Cyprus' subsequent work which has emphasised gold rather than Geopeko's prime target of a massive sulphide deposit. Recommendations include the investigation of a number of aeromagnetic anomalies to determine their potential for gold and further evaluation of prospects V29 and V9 for base metal deposits in the light of some gravity modelling. Completion of the regional gravity coverage in the south of the E.L., plus some detailed profiles is recommended to confirm possible anomalies. A summary of all recommendations is given in Table 1.



INTRODUCTION

E.L. 40/85 (Elliott Bay), held under joint agreement by Cyprus Minerals and Poseidon Ltd, encompasses the ground explored by Geopeko Ltd under E.L. 27/76. Geopeko expended a considerable effort on this E.L. before their licence expired in 1985. They defined 36 separate prospects of varying interest: from very weak airborne EM anomalies over swamps, to pods of high-grade massive sulphide. Bishop (1986) commented that Geopeko had only looked at these prospects in isolation; ie, there were no maps showing a synthesis of their work. This report attempts to overcome that deficiency for the geophysical surveys and to identify areas deserving further investigation.

The data, presented in this report as a series of 1:25,000 scale maps, has been placed onto a digital data base. Thus results from any area within the E.L. can be extracted and plotted to a desired scale.

EXPLORATION TARGETS

E.L. 40/85 has been pegged over the southern end of the Cambrian Mt Read Volcanics. The initial target for Cyprus (who are managing the exploration program) was for a volcanogenic massive sulphide (VMS) deposit similar to those which occur within the same belt of rocks further to the north (eg, Rosebery or Hellyer). Following the 1986/87 field season, the exploration emphasis has swung to gold. Torrey et al (1987) have stated that gold at Elliott Bay may be expected to occur in the following styles:- (1) within structurally associated quartz-chlorite-pyrite-tourmaline zones near the margins of intrusions; (2) within quartz-gossan zones associated with magnetite-chlorite alteration at granite margins; (3) as stratabound replacement of coarse pyroclastic units; (4) in quartz veins; (5) as alluvial gold in the (thin) cover of Tertiary gravels; (6) in VMS deposits. Geophysics may be of assistance in locating the first type of deposit by helping to define the structure; eg, with magnetics &/or VLF. Magnetics would also be used to search for the second style. IP may be applicable for replacement deposits if the gold is associated with disseminated sulphides, but this may not occur. The piezoelectric exploration method is the only geophysical technique for finding quartz veins (type no. 4), but it is not yet developed for routine use. If alluvial deposits, (type no. 5) are an attractive target, geophysical methods such as gravity or seismic could help locate the areas of thickest cover. The expected geophysical responses to volcanogenic deposits (type no. 6) have been described in Bishop (1986). Description of the geology at Elliott Bay is given in Torrey et al (1987).

EXPLORATION HISTORY

The Elliott Bay area was first held by Mt Lyell and EZ (the LEE



syndicate) in the 1950's and early 1960's, as part of their large southwest exploration licence. But none of their work has been compiled for this report. The area was next held by BHP as part of E.L. 13/65. They relinquished the ground soon after flying an EM survey (using the HEM-400 system) over the region.

The area was then pegged (as E.L. 27/76) by Geopeko, who initially followed up the airborne EM and magnetic anomalies defined by the H-400 survey as well as investigating several old workings. During the 1981/82 field seasons, two small, high-grade Pb-Zn-Ag lenses were discovered during a soil geochemistry survey. A large area of anomalous gold in stream sediments was also defined. In 1982/83, a dipole-dipole IP survey and c-horizon soil geochemistry program covered the altered rocks around the VMS deposits. No good targets were defined by this survey and in the 1983/84 season, the exploration program concentrated on the potential of the gold zone, with disappointing results. Also during that season, a UTEM survey was carried out over several VMS prospects. Again, no drill targets were defined.

The evaluation of Geopeko's work in this report has been carried out in the light of the subsequent exploration. Cyprus have had two field seasons at Elliott Bay. In 1985/86, a Dighem survey was flown over the northern section of the licence and a number of anomalies were followed up with no targets defined (Jones, 1986). In 1986/87 more Dighem anomalies were unsuccessfully followed up, but interesting results were obtained from two zones carrying anomalous gold (Torrey et al, 1987).

The results from the aeromagnetic and regional gravity surveys carried out for the Tasmanian Mines Department's 'Mt Read Volcanics Project' in 1985/86 have also been included in this report.

SURVEY DETAILS

Geopeko named each of their prospects within E.L. 27/76 a 'Voyager' prospect and these were numbered chronologically. With no V13 and counting V29W as a separate entity, there are a total of 36 prospects. The positions of these are shown on a geological base on Figure 1 and the original reason for each prospect's existence is listed on the side of that figure. Copies of Geopeko's original prospect summaries are also appended to this report.

In the early years of exploration, Geopeko's geophysical surveys were mainly magnetics and VLF as first pass methods, with IP for more detailed work. SP and a modified Turam (EM) system were also used. Later exploration made more use of IP and gravity, with UTEM being used for deep exploration over the massive sulphide pods and adjacent areas. The results from these surveys have been compiled on to a series of 1:25,000 scale figures:-

(1) Prospect location and geology

(2) All grid lines and DDH locations

(3) Coverage of ground magnetics

(4) IP coverage and anomalies

(5) Resistivity coverage and anomalies

(6) EM and SP coverage and anomalies

All of these results have been combined onto one sheet and the Mines Dept's regional work has also been included:-

(7) Geophysical anomaly compilation

(8) Aeromagnetic contours

(9) Interpreted magnetic linears

(10) Regional gravity contours

(11) Residual gravity contours.

All of Geopeko's data has been re-examined for this report. In most cases an 'anomaly' has been defined rather generously; ie as a response above the background level. The main exception is the regional dipole-dipole IP survey where the results have been averaged, thus smoothing out isolated anomalies. In some instances anomalies originally defined by Geopeko have been down graded and ignored. The results of the ground magnetics could not be usefully presented at 1:25,000 scale, however the coverage is shown and the references for each of the prospects are listed. The IP coverage consists of a number of isolated dipole-dipole surveys; gradient array over individual prospects; and the regional 'Wart Hill' dipole-dipole survey. The anomalies for the first have been presented as bars; the results (ie not only the anomalies) for the second as contours; and for the third, the anomalous 'Fraser' contours (Fraser, 1981). A similar treatment has been given to the resistivity. The EM results consist of VLF and UTEM, there being no anomalies from the Turam. The VLF responses are shown as contours or as bars. The UTEM anomalies are shown as bars with zones shown as a continuous line. The very few SP anomalies are indicated on Figure 6 as dots. Geopeko carried out a considerable amount of gravity surveying at Elliott Bay. This data has been incorporated into the State Mines Dept's data base and the locations are shown on Figure 10.

GEOPHYSICAL EVALUATION

MAGNETICS

The magnetics shown in this report is the data from the 1985

Mines Dept survey (Figure 8). Also shown are 'linears' interpreted from processed images of that survey (Figure 9). (These images are in the form of slides, now held by the Mines Dept.) Geopeko investigated several of the anomalies defined by the 1975 airborne EM/magnetic survey flown for BHP. Targets included discrete anomalies within the volcanics as possible sites for VMS deposits and on the margins of the (Cambrian) granites for skarns. Geopeko down-graded these prospects with their follow up exploration, however Torrey et al (1987) have revived interest in one prospect, as well as investigating a number of other magnetic anomalies for their possible gold content. Specifically, six magnetic anomalies were looked at during the 1986/87 field season. These are labelled on Figure 8, with '#0' Torrey et al's 'Porphyry Dolerite Contact' and #1 to #5 as labelled in their report.

Torrey et al (1987) recommended that no further work be carried out on four of the anomalies, but suggested that further investigations be carried out on #1 and #3. (The latter was identified as V15 by Geopeko, however they apparently did no work over it.) Torrey et al (1987) note that anomaly #3 lies over Cambrian granite and suggest that the source "appears to be the contact between the granite and the rhyolite tuffs". Although the site of their surveys is at the junction of two linears (Figure 9), the bulk of the aeromagnetic anomaly is positioned some 500m to the north (Figure 8). I suggest that any further work include investigation of the main anomaly.

There are a number of other magnetic anomalies of potential interest: seven have been labelled on Figure 8 as @6 to @12 and these are listed below (not in order of priority).

@6 lies between 2 linears on the Lewis River and can perhaps be readily evaluated by looking at geochem values from any sampling already carried out there .

@7 lies within a 'cocked hat' of linears, over undifferentiated volcanics to the east of V22.

@8 is Geopeko's V17. The only work done on this prospect was magnetics and base metal assaying of soil samples. Its proximity to the 'gold prospects' V24 and V33 suggests that it also should be sampled for precious metals.

@9 is Geopeko's V16. This is a large area of alteration which has had little geophysics (regional magnetics and some VLF). Jones (1986) quotes anomalous gold in streams.

@10 is Geopeko's V14, which is a prominant anomaly on a well-defined linear within the Elliott Bay Porphyry. Geopeko

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* A compilation of Geopeko's geochemistry in a similar fashion to the geophysics would considerably enhance the usefulness of both sets of data.

located the anomaly with some ground follow up (Figure 3) and ascribed the anomaly to disseminated magnetite in chloritic quartz-feldspar porphyry (see Appendix 2). They apparently carried out no geochemical sampling.

@11 is Geopeko's V6, which was investigated for skarn related to the Rocky Point Granite. Although apparently unsuccessfully sampled for gold by Geopeko, it has the attributes of the second gold model described above and has been described by Torrey et al (1987) as having potential.

@12 is Geopeko's V5. This is similar to @11 and thus should also hold some interest for Cyprus as a potential gold deposit.

It is relevant to note here under the magnetics section, the structural interpretations carried out by Leaman (1986) on the aeromagnetic data. In particular, Leaman has suggested that the Precambrian rocks to the north-west of Elliott Bay on the Sorell Peninsula are shallow 'rafts' overlying Cambrian Volcanics. If correct, this hypothesis suggests much larger areas of interest on Tasmania's west coast, depending upon the thickness of overburden. A detailed structural interpretation of the magnetics and gravity is required in the Wart Hill region to help determine whether the sulphide pods in this area have been transported from a 'parent' deposit.

INDUCED POLARISATION

IP was regularly used by Geopeko on their prospects, employing both gradient and dipole-dipole arrays. These surveys culminated in a large and detailed exploration of the Wart Hill area using a 50m dipole-dipole array. The IP compilation sheet (Figure 4) shows the results from this survey as contours, with anomalies from all the other dipole-dipole array surveys as 'bars'. Gradient array results are also shown as contours. Most of the Wart Hill data was collected using an IPR11 and the values recorded (in msecs) were about one third that of an IPR8, which was the instrument used for most, if not all, of the other surveys. (Data collected with an IPR8 in the north-west corner of the Wart Hill survey has been divided by three to produce the contours shown in Figure 4.) All possible anomalies from the Wart Hill survey were integrated with geochemistry and any other results (Herrmann, 1983), however few targets were defined and none are considered to be drill targets without further upgrading.

Although there appear to be no out-standing IP anomalies to be tested, it was suggested by Bishop (1986) that regional gradient array IP surveys should be carried out over "prospective lithologies not gridded by Geopeko" and in particular, those areas covered with a veneer of Tertiary gravels. The compilation carried out for this report shows the gaps in Geopeko's coverage and

Torrey et al (1987) have identified three areas of interest from the 1986/87 field work (Zones 1 & 2, the latter consisting of two geologically similar, but geographically quite separate, areas). From Torrey et al's work and this compilation of Geopeko's data, the area south from the Lewis River Prospect through to the coast is one area which could usefully be surveyed with regional IP, with possibly others to the north of the Prospect within Torrey et al's Zone 1. In Appendix 1, it is noted that dipole-dipole IP might provide drill targets for gold mineralisation at V30. However for most other areas, such as to the east of V34, more information would be required before recommending such surveys.

The test IP surveys over the massive sulphide pods (Herrmann and Sumpton, 1984) together with the results of limited petrophysical testing (Bishop, 1986), indicate that the V19 mineralisation is much more resistive and has a lower chargeability than the similar grade, but much larger, deposits to the north. It is a moot point whether economic-sized deposits with these physical characteristics should be expected, or whether more 'normal' values would be recorded from such bodies. If the former, then some of the subtle anomalies recorded by Geopeko and at present rejected would assume more importance. Or, more pertinently, that the areas 'written off' due to the lack of an IP response, would still be regarded as prospective. However it seems reasonable to expect that an economic sized body would contain zones of conductive mineralisation (eg, a copper-rich zone) and would be associated with a significant volume of pyritic alteration such as occurs at all of the West Coast base-metal mines. Thus EM and IP should be appropriate techniques.

RESISTIVITY

The resistivity compilation (Figure 5) shows all of the Wart Hill results (as contours), but only the less resistive responses from the other dipole-dipole surveys (shown as bars). The one feature of potential interest seen in the resistivity results, is the resistive zone over the V24 gold prospect. The resistivity contours suggest that this zone of (?)silicified alteration extends some 900m to the north east beyond DDH V24/4. Similar observations could possibly be made over other gold prospects, given a similar coverage.

ELECTROMAGNMETICS

Several of the Voyager prospects were originally EM anomalies defined by the HEM-400 survey flown for BHP. Some of these have not been located (eg, V4), however none of the responses recorded by this survey were particularly promising and no follow up is recommended for any of the airborne EM anomalies in their own right. However, this assessment may change in some future evaluation and the (approximate) positions of all of the HEM-400 anomalies have been included on Figure 6. Much of the rest of the

'EM and SP' plan shows the results of VLF surveys. Where Geopeko have produced the Fraser filtered data (Fraser, 1969), this data has been shown. Elsewhere, responses have been shown as small 'blocks' (with both representations given for V3 and V12). The majority of the VLF responses are probably due to faults, geologic contacts or graphitic shales, with others possibly due to conductive overburden or topographic effects. However the massive sulphide pods at V19 do coincide with anomalous VLF zones.

Geopeko modified a Scintrex Turam system so that the ground was energised by a moving coil, rather than the usual large fixed loop. This instrument (referred to as Moving Source Turam or MST in Geopeko reports) does not appear to have been an unqualified success and I have not recognised any significant anomalies in the data and none have been marked on Figure 6. The figure does however show a number of anomalies from UTEM surveys carried out over parts of the Wart Hill area considered by Geopeko to be most prospective for a buried VMS deposit (the UTEM looking deeper, and with better resolution, than the IP survey). Although a number of moderate amplitude anomalies were defined, these were from shallow sources with short time constants: no drillable targets were defined. However some of the anomalous zones may be be useful for defining structure; particularly on the gold prospects. It is suggested that V9, which has a magnetic anomaly located on the margin of a (micro)granite intrusion and UTEM responses which overlap and parallel the Osmund Fault may be such a site. The strongest UTEM responses are on the southernmost lines, suggesting an extension to the south.

Geopeko have not carried out any down-hole EM (DHEM) surveys at Elliott Bay. Such surveys, which give an effective search radius of at least 100m for economic sized massive sulphide bodies, would have been particularly useful at V19. It is suggested that the cost-effectiveness of reaming out one or more of the V19 holes be examined. Certainly any further holes at V19 should be surveyed with this technique.

SELF POTENTIAL

The only significant SP results were obtained on V12 where a 170mv anomaly was recorded. Two drill holes (DDH's V12/3 & V12/5) sited to test this anomaly intersected only minor amounts of vein mineralisation, which failed to adequately explain the size of the anomaly. Although a large body of massive sulphide at shallow depth now appears unlikely to be the source (Large (1981) suggests a sudden change in the water table), this prospect still has potential for a buried VMS deposit. And although Cyprus are now concentrating on the area's gold potential, it is recommended that DHEM surveys be carried out down any drill-holes on V12.

GRAVITY

The Mines Dept's regional Bouguer gravity data for Elliott Bay,

is given in Figure 10. The detailed surveys over V9, V19 and V29 are from previous Geopeko work, the results of which have been reprocessed and added to the Mines Dept's data base. The contours show a strong gradient (increasing to the west) and a residual map (Figure 11) has been produced by subtracting a (hand drawn) regional. This plan shows several anomalies; some possibly artefacts of the contouring, others better (though poorly) defined by two or three points. The anomaly to the north of V19 is of particular interest: others, include one immediately to the south of the Waterloo Creek Prospect and one coincident with V9. The residual contours also suggest two highs at the southern limit of the coverage; one in Torrey et al's (1987) Zone 1, the other in Zone 2. The former is an area with VMS, as well as gold, potential and it is suggested that the regional gravity coverage be completed here. (The southern section of the lease was apparently not surveyed because of the difficulty in finding helicopter landing sites.)

Figure 12 shows that the residual anomaly to the north of V19 is very poorly defined. Detailed surveying is required here before any comment can be made about a possible source. The residual high over V9 was investigated by taking (straight line) regionals out of Geopeko's detailed profiles. This was done for lines 11250N and 11350N and some preliminary modelling was carried out to see whether a dense, buried body of significant size was a possible source. The profile for line 11250 shows noisy data with no definite anomaly (Figure 13) and low density contrasts (of 0.1 and 0.15t/c.m.) provide approximate fits to the observed profile. Line 11350 has a well defined anomaly; a shallow (27m), low contrast (0.15t/c.m.) body (more mafic volcanics(?)) is a likely source (Figure 14a), but a small buried body of high density contrast (0.8t/c.m.) also fits the observed data (Figure 14b).

V19 is, of course, a prospect of particular interest and Geopeko have carried out some very detailed gravity here. This data is shown in Figure 15 with the residual values on Figure 16. This latter figure also shows the approximate positions of the two main massive sulphide pods: neither coincides with a gravity anomaly. A residual profile across the more northerly pod shows very noisy data (Figure 17) with little potential for another, laterally displaced deposit. A profile across the southern pod (Figure 18) shows a high to the east, but this is readily explained by a subcropping slightly denser rock type. A profile across the (relatively) broad high in the south-east corner (Figure 19) shows a ~0.25mgal anomaly which again, can be explained by a moderately shallow (31m), low contrast (0.1t/c.m.) body (with a negative contrast body beyond the eastern end of the line; not modelled). Figure 19 also shows the section of DDH V19/5 which was drilled to test a "broadly coincident chargeability-geochemical zone (Wilson et al, 1982). Between these last two profiles, on line 5,250,920N, Geopeko drilled V19/3 to test a gravity high coinciding "with the main zone of hydrothermal alteration" (Wilson et al, 1982) with disappointing results. Thus there do not appear to be any V19 gravity anomalies which can be recommended as drill targets.



V29 has been suggested as a possible site for massive sulphides, based on lead isotope data (Gulson et al, 1987). Three profiles of residual gravity indicate that high contrast bodies (of 0.8t/c.m.) at depths of 50m to 70m, could account for the reasonably smooth anomalies. These sources (Figures 20, 21 & 22) can be correlated with UTEM anomalies (Figure 6), however the presence of dense, (poorly) conductive sulphides within 50m of the surface would appear to be negated by the lack of any IP responses from the Wart Hill IP survey. Nevertheless a more detailed evaluation of this prospect is recommended.

CONCLUSIONS AND RECOMMENDATIONS

The considerable amount of geophysical data collected by Geopeko at Elliott Bay has been compiled here to show what methods have been applied over which prospects and to better illustrate the areas of favourable lithologies left unexplored. Since the data has been digitally processed and stored, results from any area may now be presented at any desired scale. The anomaly plots define structural trends and in some cases, zones of possible ore host horizons. The coloured compilation (Figure 7) clearly shows those areas which have received the greatest attention and, the least. Much of Geopeko's work has been concentrated around Wart Hill and a 1:10,000 scale coloured compilation of this area is given in Figure 23. Similar treatment has been given to the region between V3 and V12 which is considered to be prospective for massive sulphides, as well as containing possible gold deposits (Figure 24). The work is somewhat limited in that similar treatment was not given to Geopeko's geochemical data. It was not expected that an evaluation of the data would reveal any untested drill targets, however further work has been recommended on a number of prospects. General recommendations are given in Appendix 1 and specific details are listed in Table 1.

The emphasis on gold exploration has renewed interest in the magnetic anomalies at Elliott Bay; some of these were originally designated 'gold' prospects by Geopeko, but further investigation is recommended for V5, V6, V9, V14, V15, V16 & V17. Where VLF or UTEM data exists for these prospects, this may be used to define faults and determine structural trends (eg, V9). Two aeromagnetic anomalies not considered by Geopeko but recommended here for follow up, have been labelled @6 and @7 on Figure 8. Gold has already been located at several non-magnetic prospects (eg, V12, V24) and other geophysical methods may assist their definition. A resistive zone would appear to extend V24 to the north-east beyond DDH 24/4 and a dipole-dipole IP survey is suggested for target delineation at V30.

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* The two alternatives given in Figures 21a & b illustrate the non-uniqueness of the modelling. However reasonable drill targets can be produced with further input from geology, geochemistry and other geophysical results.

Poor outcrop and the presence of Tertiary gravels over parts of the lease have considerably hindered the search for alteration and favourable lithologies. It is therefore recommended that semi-regional gradient array IP surveys be carried out over areas ungridded by Geopeko, but thought by Cyprus to have potential. Such surveys should serve to locate any pyritised zones which may be host horizons for gold or base-metals. Areas to the north and south of the Lewis River Prospect; ie, V12 to V3 probably have the highest priority.

There is still considerable potential for a base-metal deposit at Elliott Bay. The V2-V12 area has not been adequately tested for a buried VMS deposit and a fixed loop TEM survey (eg, UTEM) is recommended over this area. DHEM surveys should be carried out down any holes drilled for massive sulphides and in gold prospects such as V12, where there is also considered to be a possibility of massive sulphides. If cost-effective, consideration should also be given to surveying down reamed out holes at V19 where the surface geophysics suggests that there is no sulphide deposit of significant size in the top 100-150m. An alternative hypothesis for the V19 massive sulphide pods is that they may have been transported some distance from their source (Wilson et al, 1982). Detailed structure at V19 (and elsewhere on the lease) appears to be poorly understood. It is suggested that further study of the gravity and magnetic data could assist a structural interpretation which might point towards a location for a parent body of sulphide for the V19 mineralisation.

Gravity modelling of data from V29 and V9 has indicated that massive sulphides are a possible source of residual anomalies, although this conclusion is not supported by the results of electrical surveys. (More detailed modelling, integrated with the geology, is needed if a drill target is required here.) Completion of the regional gravity coverage in the southern part of the lease is recommended to confirm possible anomalies in prospective areas between V2 & V3 and between V5 & V6. Gravity anomalies on the residual contour map should be surveyed in detail if considered prospective from other criteria; for example, the high to the north of V19.

It would require little effort to add the results of Cyprus' surveys to these compilation sheets. If the same treatment were given to the considerable volume of geochemical data, the combined plans would provide a ready reference of work completed at Elliott Bay.

J.R. Bishop
Jan., 1988.

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Table 1

SUMMARY OF RECOMMENDATIONS

MAGNETICS

Further investigation of the following Voyager aeromagnetic anomalies: V5, V6, V9, V14, V15, V16 & V17, is recommended since these have not been thoroughly explored for gold by Geopeko. Only V9 has been covered by detailed ground magnetic surveys. V14 has minimal coverage, as has V15 (#3 of Torrey et al, 1987). Other prospects may have sufficient coverage, depending upon encouragement from the geochemistry. Further work should include: determining whether the anomaly has been adequately defined by the ground magnetics and evaluating the location and quality of any gold assaying carried out by Geopeko. VLF (carried out on most Geopeko prospects) will usually help determine structure. Also recommended for investigation for gold, are two aeromagnetic anomalies not recognised by Geopeko but associated with intersecting magnetic linears. These are labelled as @6 and @7 on Figure 8. Ground magnetics and soil sampling will be required for these prospects.

INDUCED POLARISATION

Gradient array IP surveys are recommended over ungridded and poorly mapped areas of (presumed) favourable lithologies to locate potential host horizons for both gold and base-metal mineralisation. Specifically, the area between V3 in the south to V12 in the north is recommended.

Dipole-dipole IP surveys may provide drill targets for gold prospects with associated disseminated sulphide. V30 may be one such prospect (?).

Investigation of the apparent north-east extension to the V24 gold prospect, as defined by the resistivity high is recommended.

ELECTROMAGNETICS

UTEM survey (or similar) of the V2 - V12 area to explore for a buried VMS deposit.

DHEM surveys to be carried out down any hole where massive sulphides may occur; eg, at V12 which is primarily a gold prospect, but which has VMS potential.

Investigate the feasibility of reaming out holes at V19 for DHEM surveys.

Table 1 (cont.)

GRAVITY

Completion of the regional coverage in the south of the E.L., to confirm two possible anomalies within prospective zones and detailed surveying of selected residual highs; eg, to the north of V19.

Further evaluation of the geology and geochemistry of V29 and V9 in the light of the gravity modelling. (Note that drill targets should not be determined from the preliminary, illustrative modelling given in this report.)

An integrated interpretation of the aeromagnetic and gravity data to help define structure and possible displacement in the region around V19.

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APPENDIX 1

PROSPECT DESCRIPTIONS

A brief summary of each prospect is given here. Those of possible further interest have been marked with an asterisk (*).

*V1: Old workings (Penders).

Originally worked to locate economic concentrations of copper mineralisation, it has been identified by Torrey et al (1987) as being in a favourable environment next to a granite margin and containing anomalous gold. The "significant Turam" anomalies defined on this grid are not of interest.

*V2: Old workings (Lewis River).

This area has also been identified by Torrey et al (1987) as part of an anomalous gold zone. Drilling by Geopeko (6 holes) defined an area of anomalous base metals. The recommended extension of the grid to the north (Strickland and Herrmann, 1980) was never made, nor were the attempted extensions to the IP completed. This area appears to still hold potential for a (buried) VMS deposit.

*V3: Old workings (Drake Creek).

This is a southern continuation of the V2 geology and it has a similar (base metal) potential.

V4: AEM anomaly no. 18.

The AEM anomaly was not located, but no further work is warranted*.

*V5: Aeromagnetic anomaly.

The source of the anomaly has been ascribed to disseminated magnetite in the volcanics at a granite margin and of no further interest to Geopeko. However it has the attributes of Torrey et al's (1987) second gold model and thus it retains some potential for Cyprus.

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* Follow up of any HEM-400 anomalies, even those outside the area covered by the Dighem survey, is probably not now warranted.



* V6: Aeromagnetic anomaly.

This is similar to V5 and has been recognised by Torrey et al (1987) to have potential for a gold deposit.

V7: Aeromagnetic anomaly.

Investigation by Geopeko defined a broad anomaly with no anomalous geochemistry. Large (1981) suggested disseminated magnetite within the volcanics as the probable source and no further work has been carried out.

V8: Anomalous tin in stream sediments.

Tin is not one of Cyprus' present targets at Elliott Bay, nor is there a model for an economic deposit which readily fits the known geology.

*V9: Aeromagnetic anomaly plus alteration.

This area has been thoroughly tested with IP, UTEM and gravity and appears to have little potential for VMS. The magnetic anomaly is located on the margin of a (micro)granite intrusion and together with strong UTEM anomalies at the south of the grid which overlap and parallel the Osmund Fault, the area fits the first of Torrey et al's (1987) gold models.

*V10: Anomalous base metals in stream sediments.

IP surveys over anomalous soil geochemistry failed to define targets. However the prospect lies within the area of favourable geology between V3 and V12.

V11: AEM anomaly no. 7.

The AEM anomalies have been approximately positioned from old plans and AEM no. 7 should be encompassed by the VLF traverses (Figure 6). No significant results were obtained.

*V12: Anomalous base metals in stream sediments.

This area also produced very high gold values in follow up rock chips (to 265g/t) and is one of the prime areas recommended for follow up by Torrey et al (1987). Drilling by Geopeko for a VMS deposit has revealed narrow veins of disseminated mineralisation. However the good structure defined by the VLF has not been tested by any of the five holes. It is recommended that the VLF (Figure 9) be integ-

rated with the soil geochemistry when planning drill targets. (The magnetics is generally flat and trends are not discernible.) This area still has untested potential for a buried VMS deposit and DHEM surveys are recommended down any holes drilled for gold.

*V14: Aeromagnetic anomaly.

This discrete anomaly, within the porphyry on the eastern edge of the E.L., lies on a magnetic linear. It is suggested that the anomaly be located on the ground and soil sampled.

*V15: Aeromagnetic anomaly.

This prospect was identified, but not followed up by Geopeko. It is discussed in Torrey et al (1987) as Magnetic Anomaly #3 (although their figure 33 suggests that only the south east corner of the anomaly has been defined) and recommended for further work. V15 is located at the junction of two cross cutting magnetic linears and is a potential gold target. (Torrey et al (1987) quote values to .03g/t.)

*V16: Aeromagnetic anomaly plus anomalous base metals.

This is a large area of alteration which has had little geophysics (regional magnetics and partial VLF coverage). Jones (1986) quotes anomalous gold in streams.

*V17: Aeromagnetic anomaly.

The only work done on this prospect has been magnetics and base metal assaying of soil samples. The proximity of the area to V24 and V33 suggests that it should also be sampled for gold.

*V18: Out cropping sulphides.

This prospect, which returned values to 1% Cu (as bornite) has not been gridded and has only been tested by three rock chips.

*V19: Alteration plus high-grade pods of massive sulphide.

IP, UTEM and gravity surveys have failed to define targets on this prospect and a significant sized massive sulphide body within 150m of the surface is considered to be unlikely. For deeper exploration, consideration should be given to reaming out Geopeko's deeper DDH's for DHEM surveys.



V20: Anomalous base metals in stream sediments.

This area was resurveyed by Cyprus in the 1985/86 season with no encouragement.

V21: Extension of V1.

No significant results were obtained from the VLF & SP or geochemistry. (The description of V21 in Jones '86 (Table 1) is apparently in error. AEM anomalies, given as the reason for the prospect, are in the area but are not mentioned in the prospect description (Large, '81). Nor have I found any reference to Turam surveys.)

V22: Area of alteration.

Covered by the regional IP survey (with no significant results for a VMS deposit) but not by the detailed Wart Hill gravity or UTEM.

V23: Out cropping mineralisation.

Minor copper mineralisation in dolomitic shales, which was not followed up.

*V24: Anomalous gold.

A resistive area coincides with the area of anomalous gold and extends it further to the north. The four lines of magnetics are mostly flat and show no trends. (Trends may become apparent from a detailed and accurate survey.) VLF is recommended to help delineate any structural control. Wilson et al (1981) refer to gold within the black shales: this does not appear to be mentioned in later reports.

V25: Anomalous tungsten in streams.

Not gridded and not followed up.

V26: AEM & aeromagnetic anomalies.

Follow up with geochemistry produced no significant results.

V27: Weakly anomalous base metals in stream sediments.

This area lies at the northern end of a zone of sericite-

quartz alteration defined by Torrey et al (1987), but no follow up work was done by Geopeko.

V28: Anomalous gold.

The gold was attributed to flooding of the Mainwaring River and was not followed up.

*V29: Anomalous base metals to the south of V19.

Defined as a potential site for VMS by lead isotope work (Gulson et al, 1987). Residual gravity highs associated with poor UTEM responses, but no coincident IP anomalies. This prospect has not been drilled.

*V29W: Anomalous gold.

Strong VLF responses define a complex structure. Integration of these results with geochem (plus IP) may produce drill targets.

*V30: Anomalous gold and base metals.

Integrate VLF and magnetics (clear responses) with (?)gold geochemistry. Dipole-dipole IP may provide drill targets.

*V31: Outcropping base metal mineralisation.

This prospect has been covered by magnetics and very regional VLF. It is located on the prominant Copper Creek Fault and may be prospective for gold.

*V32: Favourable stratigraphy.

Apart from some rock chip sampling providing anomalous base metal values, this area has had little attention. A regional gradient array IP survey is recommended over this area to map out areas of alteration.

*V33: Anomalous base metals to the north of V19.

Drilling of eastern IP anomalies revealed zone of weak mineralisation. This is a favourable area not covered by UTEM or detailed gravity. (The prospect sheet in the appendix states that VLF has been done here, however the data has not been sighted and it is not mentioned in Jones, 1986.)



V34: Favourable stratigraphy.

There are no worthwhile responses from the regional dipole-dipole IP, nor is there any gravity anomaly in the Mines Dept's regional survey.

*V35: Anomalous gold in stream sediments.

Geopeko did not follow up these results.

V36: Anomalous copper in stream sediments.

Geopeko did not follow up these results.

APPENDIX 2

GEOPEKO'S PROSPECT SUMMARIES

(V15 & V36 are missing)

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76

PROSPECT VOYAGER 1

LOCATION 377300mE 524200mN

DEFINITION OLD WORKINGS (PENDERS PROSPECT) ON TWO PARALLEL ZONES OF PYRITE/MAGNETITE MINERALIZATION

STYLE OF MINERALIZATION Cu-W CHEMICAL SEDIMENT

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	6 sq.km	INITIAL GRID OF 4 N-S
	GRID ORIENTATION	TRUE NORTH	LINES USED FOR RECON.
	LINE SPACING	200 metres	IN 76/77
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method	JACRO 200 RIG	PEAK VALUES OF 55ppm Cu
	No. of samples	318	80ppm Pb + 140ppm Zn
	Horizon sampled	C	ON NORTHERLY EXTENSION
	Elements assayed for	Cu Pb Zn Ag Mn Fe Ba Sn	OF MAGNETITE LODE
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	ROCK SAMPLES	HIGHEST 1% Cu, 650ppm
	No. of samples		Pb + 3020ppm Zn
	Elements assayed for	Cu Pb Zn Ag Mn Fe Cd As	Sn Au
GEOLOGY	Area mapped	6 sq.km	
	Scale used	1:5000	
	Geologist	C.D. STRICKLAND	
GEOPHYSICS	I.P. Gradient Array	line km	RECON. VLF SP + IP IN 76/77
	Dipole-Dipole	11.15 line km	
	S.P.	line km	
	Magnetics	17.6 line km	MAGNETICS + IP COVER V5
	Station spacing	25 metres	AS WELL
	E.M. V.L.F.	1.75 line km	1.0km OF SCHLUMBERGER
	Turam (M.S.T.)		VERTICAL ELECTRICAL
	Gravity No. of stations		SOUNDING
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	53.5 metres	2 HOLES 220ppm W IN MAGNETITE?CHLORITE

Summary DRILLING OF MAG. + GEOCHEM. ANOM. SUPPORT STRATIFORM STYLE OF MINERALIZATION WITH CHEMICAL SEDIMENTS

Sgd. [signature]

Date 19-5-82

Reports PROGRESS REPORTS: STRICKLAND (1977, 1978, 1979) MUDGE (1977, 1978)

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 2
LOCATION 384250E 5245050N
DEFINITION LEWIS RIVER PROSPECT - OLD TRENCHING + PITS

STYLE OF MINERALIZATION STRATIFORM Pb Zn Ag

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1.3	sq.km	RECON. GRID OF 1.35km
	GRID ORIENTATION	TRUE NORTH		IN 76/77
	LINE SPACING	200	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO 200 RIG		RECON. 76/77-3 SAMPLES
	No. of samples	234		GOOD ANOM. 77/78
	Horizon sampled	C		N-S ANOM - DRILLED IN
	Elements assayed for	Cu Pb Zn Ag Mn Fe Ba Sn		79/80
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	1.5	sq.km	RECONN. IN 76/77 + 80/81
	Scale used	1:5000		TRACE MINER ZONE 400m
	Geologist	C.D. STRICKLAND		N-S + 5cm TO 2m WIDE
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole	4.2	line km	1km SCHLUMBERGER
	S.P.	1.4	line km	VERTICAL ELECTRICAL
	Magnetics	4.6	line km	SOUNDING
	Station spacing	25	metres	
	E.M. V.L.F.	2.6	line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling	196.05	metres	9m 1.61%Pb .24%Zn 21.2g/t Ag
	Jacro A.Q. Holes	202.35	metres	6 HOLES BAD RECOVERY

Summary SIDERITE RICH HORIZON WITH PYRITE CHALCOPYRITE + GALENA IN FAVOURABLE ENVIRONMENT WITH PYROCLASTICS + VOLCANIC LITHOLOGIES

Sgd. J. Barbetta

Date 9/6/82

Reports STRICKLAND (1978, 79, 80) LARGE (1981), MUDGE (1978)

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 3

LOCATION 383000mE 5242000mN (AMG

DEFINITION OLD PROSPECT DRAKES CREEK Cu, Zn MINERALIZATION

STYLE OF MINERALIZATION STRATIFORM Cu, Pb, Zn

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	6.3	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	100	metres	
	INFILL GRIDDING	NIL		
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO 200		WELL DEFINED Cu, Pb and
	No. of samples	270		Zn BEDROCK
	Horizon sampled	C HORIZON		ANOMALIES WITH PEAK
	Elements assayed for	Cu, Pb, Zn		VALUES OF 1300ppm
	STREAM SAMPLING			47000ppm and 10000ppm respectively
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	CONDUCTIVETY (H20)		VALUES CONTOURABLE
	No. of samples	270 JACRO HOLES		PEAK VALUE OF 0.55 MILLIOHMS/CM 9900N 8775E
	Elements assayed for			
GEOLOGY	Area mapped	6.3	sq.km	AREA RE-MAPPED 1980
	Scale used	1:2500		VOLCANIC SUCCESSION ONLY
	Geologist	CDS, RRL, PH.		NO SEDIMENTS RECOGNIZED
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole	5.4	line km	
	S.P.	1.3	line km	NO SIGNIFICANT ANOMALIES
	Magnetics	12	line km	400m SPACED RECONNAISSANCE
	Station spacing	50? 25?	metres	GRID LINES ONLY
	E.M. V.L.F	6.5	line km	TWO ANOMALOUS ZONE LOCATED
	Turam (M.S.T.)	LINES 9600N 9800N		NO SIGNIFICANT RESPONSE
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling	201.0	metres	1.28%Zn IN CHLORITIC TUFF
	Jacro A.Q. Holes	61.2	metres	UNIT OVER 1m - 0.37% Zn/8m

Summary POOR OUTCROP ON GRID VERY GOOD Cu, Pb, Zn ANOMALIES AND IP ZONES. DRILL HOLE TESTED IP TARGET ONLY. FURTHER WORK REQUIRED.

Sgd. Pelutson

Date 9.6.82

Reports MUDGE 1978, 1979, STRICKLAND 1979, 1980 WILSON ET AL 1981

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 4
LOCATION 381800E 5244700N
DEFINITION GEOEX (1975) AIRBORNE EM ANOMALY NO 18

STYLE OF MINERALIZATION Cu Pb Zn Ag Au MASSIVE SULPHIDES

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS		sq.km	76/77 RECON. 2 LINES
	GRID ORIENTATION			100m APART 1.65km ORIEN
	LINE SPACING		metres	067° MAG
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method			
	No. of samples			
	Horizon sampled			
	Elements assayed for			
	STREAM SAMPLING			
	Method			SAMPLED DURING 76/77
	No. of samples			REGIONAL PROGRAMME.. NO
	Sample density			ANOM ON GRID AREA BUT TO
	Elements assayed for			S + 600m N
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	1:10000	sq.km	QUARTZ-FELDSPAR PORPHRHY
	Scale used			LAVAS PREDOMINATE IN
	Geologist	C.D. STRICKLAND		THE AREA
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	1.65	line km	NO ANOMALY
	Station spacing		metres	
	E.M. V.L.F.	1.65	line km	INCONCLUSIVE RESULTS
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary THE AIRBORNE EM ANOMALY WAS NOT LOCATED.
STREAM SEDS. TO N + S GEOCHEM INTERESTING

Sgd. I. Pemberton

Date 9/6/82

Reports STRICKLAND 76/77 77/78 ✓

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 5
LOCATION 378400N 5242800N
DEFINITION MAGNETIC ANOMALY FROM 1975 AIRBORNE SURVEY

STYLE OF MINERALIZATION SKARN RELATED TO LOW ROCKY POINT GRANITE

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS		sq.km	RECONN. GRID 3.05km in
	GRID ORIENTATION			76/77. 77/78 V1 GRID
	LINE SPACING		metres	ENCOMPASSED V5
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method			
	No. of samples			
	Horizon sampled			
	Elements assayed for			
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped		sq.km	MAPPED AS PART OF V1 IN
	Scale used			77/78
	Geologist			
GEOPHYSICS	I.P. Gradient Array		line km	76/77 RECON MAGNETICS +
	Dipole-Dipole		line km	VLF. V1 GEOPHYSICS IN
	S.P.		line km	77/78 COVERED V5
	Magnetics		line km	COINCIDENT MAG. + IP
	Station spacing		metres	ANOMALY DRILLED IN 78/79
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes	48.4	metres	2 HOLES

Summary DRILLING SHOWED V5 IS ON THE CONTACT OF THE GRANITE + VOLCANICS WITH DISSEMINATED MAGNETITE IN THE VOLCANICS. THE MAG. ANOM CROSSCUTS THE CONTACT.

Sgd. J Rankin
Date 9/6/82

Reports STRICKLAND (1977, 78, 79)
MUDGE IP + MAGNETOMETER SURVEY V1+V5

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 6

LOCATION 380300E 5243800N

DEFINITION AEROMAGNETIC ANOMALY FROM 1975 GEOEX SURVEY

STYLE OF MINERALIZATION SKARN RELATED TO LOW ROCKY POINT GRANITE?

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	4.7 LINE KM	sq.km	76/77 - 800m LINE AT
	GRID ORIENTATION	TRUE NORTH		090° MAG
	LINE SPACING	100	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	HAND AUGER		NO SIGNIFICANT ANOMALY
	No. of samples	16		
	Horizon sampled	C		
	Elements assayed for	Cu Pb Zn Fe W Sn		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	ROCK SAMPLES		ANOM. Cu (.14%) Pb (430ppm)
	No. of samples	9		+ Au (740ppb) FROM A
	Elements assayed for	Cu Pb Zn Fe Ag Au Sn W Ba		GOSSANOUS TUFF
GEOLOGY	Area mapped		sq.km	MAG. ANOM. EXPLAINED BY
	Scale used	1:10000		DYKE LIKE BODY ±10m WIDE
	Geologist	R. LARGE		ON W CONTACT GRANITE
GEOPHYSICS	I.P. Gradient Array		line km	IT IS A MAGNETIC QUARTZ
	Dipole-Dipole		line km	BRECCIA
	S.P.		line km	
	Magnetics	2.55	line km	PLUS A TRAVERSE ALONG
	Station spacing	25	metres	LEWIS RIVER
	E.M. V.L.F.	2.95	line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary THE MAG. ANOM. IS REGARDED AS HAVING LITTLE POTENTIAL. A TUFF HORIZON ON THE EASTERN SIDE OF THE GRANITE HAS THE ANOMALOUS Cu Pb Zu VALUES

Sgd. J. Rochester

Date 9/6/82

Reports STRICKLAND 76/77, 77/78

LARGE 79/80

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76 STYLE OF MINERALIZATION UNKNOWN

PROSPECT VOYAGER 7

LOCATION 378000E 5244000N

DEFINITION AIRBORNE MAGNETIC ANOMALY

FROM 1975 GEOEX SUREY

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	7.5 LINE	sq.km	V7 JOINS UP WITH V21
	GRID ORIENTATION	TRUE NORTH		& THE GEOPHYS. TREAT
	LINE SPACING	200	metres	AREA AS ONE
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO 200 RIG		NO SIGNIFICANT ANOMALY
	No. of samples	59		
	Horizon sampled	C		
	Elements assayed for	Cu, Pb, Zn, Fe, Au Sn, W		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	± .4	sq.km	LIMITED OUTCROP
	Scale used	1:2500		QUARTZ FELDSPAR
	Geologist	C.D. STRICKLAND		CRYSTAL TUFFS
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.	5.8	line km	V7 & V21
	Magnetics	11.05	line km	V7 & V21
	Station spacing	25	metres	
	E.M. V.L.F.	12.56	line km	V7 & V21
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary THE MAG. ANOM. IS REGARDED AS RESULTING FROM ±5% DISSEMINATED MAGNETITE. NO FURTHER WORK.

Sgd. J. Bamberton

Date 21/5/82

Reports PROGRESS REPORT E.L. 27/76 BY R.R. LARGE 1979/80

Updates

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76

PROSPECT VOYAGER 8 TIN STUDY

LOCATION 384500m E 5242500m N

DEFINITION TIN IN -80 MESH REGIONAL STREAM SEDIMENT IN SOUTH OF E.L.

STYLE OF MINERALIZATION ALLUVIAL OR GRANITE RELATED TIN MINERALIZATION

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS		sq.km	REGIONAL STUDY IN SOUTH OF
	GRID ORIENTATION			E.L. AT 1:10000
	LINE SPACING		metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	BULK SAMPLES OF HEAVY MINERALS		
	No. of samples	8		
	Horizon sampled	DOWN TO C		
	Elements assayed for	Sn		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method	3 PITS AND 3 TRENCHES		
	No. of samples	19 & 6		
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	AUGER HOLES		
	No. of samples	162		
	Elements assayed for	Sn		
GEOLOGY	Area mapped	±40	sq.km	MAPPED RECENT ALLUVIAL
	Scale used	1:10000		DEPOSITS
	Geologist	K. BURLINSON		
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics		line km	
	Station spacing		metres	
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary TIN IN STREAM SEDIMENTS DERIVED FROM RECENT ALLUVIAL DEPOSITS OF SAND & QUARTZITE PEBBLES. THE ULTIMATE SOURCE OF THE TIN IS PROBABLY THE PRECAMBRIAN TO THE EAST. NO ECONOMIC CONCENTRATIONS OF TIN WERE FOUND IN THE E.L.

Sgd. J. Pemberton

Date 21/5/82

Reports TIN AT ELLIOTT BAY-TASMANIA E.L. 27/76 BY K. BURLINSON PROGRESS REPORT E.L. 27/76-76/77+77/78 BY C.D. STRICKLAND

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 9

LOCATION 380 500E 5246500N

DEFINITION AEROMAGNETIC ANOMALY ALTERATION ZONE

STYLE OF MINERALIZATION DISSEMINATED-MASSIVE Cu-Au STRATIFORM Cu-Pb-Zn

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1·2	sq.km	
	GRID ORIENTATION	11° 36' TRUE N		
	LINE SPACING	100	metres	
	INFILL GRIDDING	50m INFILL OVER MAGNETIC ANOMALY AND Pb-Zn ANOMALY		
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO		COPPER SOIL ANOMALY WITH
	No. of samples	718		VALUES OF 200-2400ppm Cu
	Horizon sampled	C HORIZON		SIGNIFICANT Pb-Zn SOIL
	Elements assayed for	Cu, Pb, Zn, Ag, Fe, Mn		ANOMALY ON E CENTRAL PART OF GRID
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	ROCK CHIP SAMPLING		ANOMALOUS Cu, Pb, Zn
	No. of samples	13		
	Elements assayed for	Cu, Pb, Zn, Fe, Ag, Au,		Sn, W, Ba
GEOLOGY	Area mapped	1.2	sq.km	EXTENSIVE AREAS OF CHLORITE-
	Scale used	1:2500		PYRITE AND SERICITE ALTERATION
	Geologist	R.R. LARGE P.A. WILSON		WIDE VARIETY OF ROCK TYPES ADJACENT TO GRANITE CONTACT
GEOPHYSICS	I.P. Gradient Array	16.20	line km	
	Dipole-Dipole	4.90	line km	EXCELLENT IP CHARGEABLE ZONE ON NE OF GRID
	S.P.		line km	
	Magnetics	16.20	line km	BROAD 1300NT ANOMALY
	Station spacing	25	metres	DEEP SOURCE
	E.M. V.L.F.	12.80	line km	
	Turam (M.S.T.)	-		
	Gravity No. of stations	332		
	Station spacing	25	metres	
DRILLING	Diamond drilling 2	359	metres	
	Jacro A.Q. Holes 1	60	metres	BANDED MAGNETITE IN TUFFS

Summary Pb-Zn ANOMALY ADJACENT TO MAGNETIC ANOMALY NEEDS TESTING

Sgd. P.A. Wilson

Date 9.6.82

Reports LARGE (1981) WILSON (1981)

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76

PROSPECT VOYAGER 10

LOCATION 385000mE 5244000m N

DEFINITION ANOM. STREAM SEDS IN 77/78 REGIONAL
EVALUATION V10 IS SOUTH OF V2

STYLE OF MINERALIZATION STRATIFORM
Pb-Zn-Cu

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	200	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	POWER AND HAND AUGER		79 SAMPLES BY HAND
	No. of samples	247		MARKED DIFFERENCE
	Horizon sampled	C		BETWEEN TWO SAMPLE
	Elements assayed for	Cu, Pb, Zn		COLLECTION METHODS
	STREAM SAMPLING			NOTICED IN RESULTS
	Method			REGIONAL PROGRAMME HAD
	No. of samples			ANOMALOUS GEOCHEMISTRY
	Sample density			(Cu Pb + Zn) TWO
	Elements assayed for			ANOMALOUS N-S ZONES
	COSTEAN SAMPLING			OBTAINED IN C HORIZON'SAMPLING'
	Method			HIGHEST VALUES WERE 460
	No. of samples			+640 Cu, 1600 + 3900 Pb,
	Sampling spacing			740 + 1900Zn in ppm
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	1	sq.km	PROVED NOT A S EXTENSION
	Scale used	1:2500		OF V2 EPICLASTIC SEDS
	Geologist	C.D. STRICKLAND		PYROCLASTICS + FLOWS
GEOPHYSICS	I.P. Gradient Array		line km	PREDOMINATE
	Dipole-Dipole	5.5	line km	SUGGESTION OF A POLARIZABLE
	S.P.	0.52	line km	SOURCE TO THE WEST OF THE GRID
	Magnetics	4.6	line km	
	Station spacing	25	metres	
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary NO FURTHER WORK RECOMMENDED. SOIL GEOCHM IS ENCOURAGING BUT CONFUSED BY DIFFERENT METHODS.

Sgd. J Barbetor

Date 21/5/82

Reports PROGRESS REPORT E.L. 27/76-V10-C.D. STRICKLAND
PROGRESS REPORT E.L. 27/76-79/80 R.R. LARGE

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76 STYLE OF
PROSPECT VOYAGER 11 MINERALIZATION UNKNOWN
LOCATION 378300E, 5242100N
DEFINITION 1975 GEOEX AIRBORNE EM ANOMALY TO THE EAST OF VOYAGER 1.

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	3.1	sq.km	RECON. GRID CUT IN
	GRID ORIENTATION	TRUE NORTH		76/77. REGRIDDED AS
	LINE SPACING	200	metres	PART OF VOYAGER 1 IN
	INFILL GRIDDING			77/78
GEOCHEMISTRY	SOIL SAMPLING			
	Method			
	No. of samples			
	Horizon sampled			
	Elements assayed for			
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped		sq.km	REGIONAL MAP 1:5000
	Scale used	1:10000		SCALE WHEN MAPPED
	Geologist	C.D. STRICKLAND		AS PART OF VOYAGER 1
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics		line km	READ IN 77/78
	Station spacing		metres	
	E.M. V.L.F.	3.1	line km	NOISY DATA
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary EM ANOMALY INTERPETED AS A CONTACT EFFECT OF THE LOW ROCKY CAPE GRANITE + THE VOLCANICS

Sgd. J. Barker

Date 1/2/82

Reports STRICKLAND 77/78 .
LARGE 79/80 ✓

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76

PROSPECT VOYAGER 12

LOCATION 385000mE 5246800mN

DEFINITION ANOMALOUS Cu Pb +Zn IN REGIONAL STREAM SEDIMENTS

STYLE OF MINERALIZATION EPIGENETIC Au-Ag VEIN

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	± 0.8	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	100	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	-80 MESH HAND AUGER		PEAK VALUES 290ppm Cu,
	No. of samples	291		Cu, 660ppm Pb +285ppm Zn.
	Horizon sampled	C		SPOTTY IRREGULAR RESULTS
	Elements assayed for	Cu, Pb, Zn		
	STREAM SAMPLING			
	Method	-80 MESH		REGIONAL PROGRAM HAD
	No. of samples			ANOM. UP TO 105ppm Cu,
	Sample density			820ppm Pb +80ppm Zn
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	ROCK CHIPS		BEST VALUES 0.36%Cu,
	No. of samples	25		0.68%Pb, 0.70%Zn
	Elements assayed for	Cu, Pb, Zn, Ag, As, Au		440gm/tAg + 265gm/tAu
GEOLOGY	Area mapped	±0.8	sq.km	LOCATED COSSANOUS OUTCROPS
	Scale used	1:2500		RELATED TO MINOR VEINLETS
	Geologist	W. HERRMANN		
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole	3.6	line km	ANOM COINCIDENT SP + VLF
	S.P.	7.1	line km	ANOM OF 170m V
	Magnetics	0.9	line km	LINE 300S
	Station spacing	12.5	metres	
	E.M. V.L.F.	7.1	line km	ANOM COINCIDENT WITH IP
	Turam (M.S.T.)			+ SP ANOM.
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling	163.65	metres	MINOR MINERALIZED VEINS
	Jacro A.Q. Holes	186	metres	4 HOLES ± 50% RECOVERY

Summary MINERALIZATION IS LOCALIZED TO SMALL STRUCTURALLY CONTROLLED FRACTURES + VEINS IN COSSANS OF Cu Pb Zn Ag & Au SURFACE ENRICHMENT

Sgd. T. Roberts

Date 1/6/82

Reports GEOPHYSICAL SURVEYS-VOYAGER 12-ELLIOTT BAY BY S.T. MUDGE 1979. PROGRESS REPORT E.L. 27/76 79/80 BY R.R. LARGE

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76 STYLE OF MINERALIZATION UNKNOWN

PROSPECT VOYAGER 14

LOCATION 387700mE 5244500mN

DEFINITION AIRBORNE MAGNETIC ANOMALY

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	2.1 Line	km	RECONNAISSANCE GRID
	GRID ORIENTATION	MAG. NORTH		
	LINE SPACING		metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method			
	No. of samples			
	Horizon sampled			
	Elements assayed for			
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped		sq.km	REGIONAL SCALE
	Scale used	1:10000		DISSEMINATED MAGNETITE
	Geologist			IN CHL. QFB PORPHYRY
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	2.1	line km	
	Station spacing	12.5	metres	
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary SPIKY GROUND ANOMALIES RELATED TO LOCAL PARTICLES OF DISSEMINATED MAGNETITE

Sgd. J. Robert

Date 9/6/82

Reports LARGE (1981).

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 16
LOCATION CENTRED ON AMG 5248500mN
DEFINITION AREA OF COINCIDENT Pb/Zn STREAM SOIL GEOCHEM AND MAGNETICS

STYLE OF MINERALIZATION ROSEBERY STYLE STRATIFORM Pb-Zn-Cu

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1.6 x 1.2 sq.km		
	GRID ORIENTATION	MAG NORTH BASE LINE/EW LINES		
	LINE SPACING	400 metres		
	INFILL GRIDDING	100m NW CORNER (REDUCED AREA)		
GEOCHEMISTRY	SOIL SAMPLING	ORIGINAL AREA	REDUCED AREA	
	Method	POWER AUGER	POWER AUGER	ROCK HAVE HIGH Zn BACKGROUND
	No. of samples	126	165	TWO STRONG
	Horizon sampled	C	C	Pb/Zn SOIL ANOMALIES
	Elements assayed for	Cu Pb Zn Fe Ag Mn		HAVE BEEN OUTLINED
	STREAM SAMPLING	ORIGINAL AREA	REDUCED AREA	
	Method	-80MESH PAN CON.	-80MESH +80MESH	
	No. of samples	15	5	VISIBLE FINE GOLD IN
	Sample density	7/km^2	10/km^2	10 PANS. Zn upto 3300ppm
	Elements assayed for	Cu Pb Zn Ag Au Fe Sn W		
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	ROCK CHIP		
	No. of samples	7		
	Elements assayed for	Cu Pb Zn Ag Fe Mn As Au		
GEOLOGY	Area mapped	1.6x1.2 1.0x0.4 sq.km		
	Scale used	1:10000 1:2500		
	Geologist	POLTOCK BROS. R. PERRING		
GEOPHYSICS	I.P. Gradient Array	line km		
	Dipole-Dipole	line km		
	S.P.	line km		
	Magnetics	9.7 line km		
	Station spacing	12.5 metres		
	E.M. V.L.F.	4.0 line km		
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing	metres		
DRILLING	Diamond drilling	metres		
	Jacro A.Q. Holes	metres		

Summary AREA OF STRONG Pb/Zn SOIL GEOCHEMISTRY WITH COINCIDENT MAGNETIC ANOMALY WITH RHYOLITIC TUFF OF HUDSON RIVER VOLCANICS

Sgd. [signature]

Date 4th June 1982

Reports LARGE (1981) POLTOCK(1981)

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY E.L. 27/76 STYLE OF
PROSPECT VOYAGER 17 MINERALIZATION UNKNOWN
LOCATION 378000mE 5250000mN
DEFINITION AIRBORNE MAGNETIC ANOMALY

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	800m LINE	sq.km	
	GRID ORIENTATION	E-W		
	LINE SPACING		metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	HAND AUGER		WEAK ANOMALY OVER
	No. of samples	36		MAGNETIC ANOMALY
	Horizon sampled	C		
	Elements assayed for	Cu Pb Zn + Fe		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped		sq.km	
	Scale used			
	Geologist			
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	0.8	line km	BROAD + WEAK (250m +
	Station spacing		metres	200nT)
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary NO FURTHER WORK PLANNED

Sgd. [signature]

Date 9/6/82

Reports LARGE, (1981) ✓

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 18

LOCATION MOUTH OF COPPER CREEK

DEFINITION OUTCROPPING DISSEMINATED COPPER MINERALIZATION

STYLE OF MINERALIZATION CHALCOPYRITE-PYRITE IN DOLOMITE WITHIN BASIC VOLCANICS

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	ROCK SAMPLING	UPTO 0.98%Cu AS BORNITE
	No. of samples	3	+ CHALCOPYRITE WITH
	Elements assayed for	Cu Pb Zn Fe Au Sn W	MINOR PYRITE WITHIN DOLOMITE
GEOLOGY	Area mapped	sq.km	BEDS IN THE VERIDAN POINT
	Scale used	1:10000	BASIC VOLCANICS
	Geologist		
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary THIS PROSPECT INDICATES THE POTENTIAL OF THE BASIC VOLCANICS TO THE NORTH (MAINWARING GROUP)

Sgd. J. Bowlat

Date 9/6/82

Reports LARGE (1981)

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 19
LOCATION 379700E 525800N
DEFINITION ALTERATION ZONE

STYLE OF MINERALIZATION STRATIFORM
Cu Pb Zn Ag (Au)

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	2.34	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	100	metres	
	INFILL GRIDDING	50m SPACING 11800-12200N		10000-10500E
GEOCHEMISTRY	SOIL SAMPLING	13000-13400N		9950-10200E
	Method	JACRO	HAND AUGER	GOOD Pb-Zn ANOMALIES
	No. of samples	750	160	N OF WART HILL UPTO
	Horizon sampled	C	1-2m DEPTH	10% COMBINED Pb-Zn
	Elements assayed for	Cu Pb Zn Ag Fe		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING	8 COSTEANS		
	Method	CHANNEL SAMPLES		BEDDED MASSIVE SULPHIDE
	No. of samples	175		MINERALIZATION LOCATED
	Sampling spacing	CONTINOUS 1m		IN 3 COSTEANS
	Elements assayed for	Cu Pb Zn Ag Fe Au Ba		
	OTHER SAMPLING			
	Method	ROCK CHIP		
	No. of samples			
	Elements assayed for	Cu Pb Zn Ag Fe Ba Au Sn		W
GEOLOGY	Area mapped	2.34	sq.km	
	Scale used	1:2500		
	Geologist	W. HERRMANN		
GEOPHYSICS	I.P. Gradient Array	21	line km	
	Dipole-Dipole	4.0	line km	
	S.P.	2.8	line km	
	Magnetics	24	line km	FLAT MAGNETIC CHARACTER
	Station spacing	12.5	metres	FEW PEAKS OF 100nT
	E.M. V.L.F.	24	line km	
	Turam (M.S.T.)	1.8 LINE KM		NO SIGNIFICANT RESPONSE
	Gravity No. of stations	1250		DETECTED DENSITY
	Station spacing	25	metres	DISTRIBUTION IN AREA BUT
DRILLING	Diamond drilling	883	metres	NO SIGNIFICANT DISCRETE
	Jacro A.Q. Holes		metres	BODIES. NO SIGNIFICANT

Summary VOLCANOGENIC MASSIVE SULPHIDES, PODIFORM IN NATURE GOOD POTENTIAL FOR DEEP OREBODY INTERSECTED MINERALIZATION

Reports LARGE (1981)
WILSON et al (1981)

Sgd. Pwilson
Date 9.6.82
Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 20
LOCATION WANDERER RIVER
DEFINITION 5259300N 384500E (AMG
ZONE OF ANOMALOUS Pb/Zn STREAM GEOCHEMISTRY IN WANDERER RIVER TUFF AND HUDSON RIVER VOLCANICS

STYLE OF MINERALIZATION ROSEBERY STYLE STRATIFORM
Pb Zn Cu

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	2x1.5 sq.km	
	GRID ORIENTATION	TRUE NORTH BASE LINE/	E-W LINES
	LINE SPACING	400 metres	
	INFILL GRIDDING	NIL	
GEOCHEMISTRY	SOIL SAMPLING		
	Method	JACRO/POWER AUGER	BROAD Pb/Zn SOIL
	No. of samples	330	ANOMALIES BEST ASSAY
	Horizon sampled	C HORIZON	*RESULTS* 2400ppm Zn
	Elements assayed for	Cu Pb Zn Ag Fe	2.25%Pb 20.5ppm Ag
	STREAM SAMPLING		
	Method	-80 MESH STREAM SED.	WEAK ANOMALIES, MAXIMUM
	No. of samples	60	55ppm Pb 80ppm Zn
	Sample density	1 per $2km^2$	
	Elements assayed for	Cu Pb Zn Ag Fe Sn W	
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	ROCK CHIP	
	No. of samples	29	
	Elements assayed for	Cu Pb Zn Ag Au Ba Mn Fe	GALENA IN FOLIATED
GEOLOGY	Area mapped	~~2x1.5~~ 3 sq.km	ARGILLITE 1500ppm Pb
	Scale used	1:10000	1500ppm Zn HUDSON RIVER
	Geologist	R.J. PERRING	VOLCANICS MOSTLY QUARTZ
GEOPHYSICS	I.P. Gradient Array	line km	BIOTITE PORPHYRITIC LAVA
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	7.4 line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary STRONG SOIL Pb/Zn GEOCHEMISTRY DEFINED 1981-82 AT CONTACT BETWEEN HUDSON RIVER VOLCANICS AND WANDERER RIVER TUFFS

Sgd. [signature]

Date 4th June 1982

Reports ELLIOTT BAY 1979/80 LARGE MARCH 1981
ELLIOTT BAY 1981-82 TO BE PREPARED

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 21
LOCATION 377000E 5245000N
DEFINITION NORTHWARD STRIKE OF VOYAGER 1

STYLE OF MINERALIZATION Cu IN CHEMICAL SEDIMENTS

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	2.5	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	200	metres	
	INFILL GRIDDING	7.9 LINE KM		OVER EXTENSION TO V1 MAG
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO 200 RIC + HAND AUGER		NO SIGNIFICANT ANOMALY
	No. of samples	57 (POWER) 17 (HAND)		
	Horizon sampled	C		
	Elements assayed for	Cu Pb Zn Fe		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	2.5	sq.km	
	Scale used	1:2500		
	Geologist	C.D. STRICKLAND		
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P	5.8	line km	V21 + V7
	Magnetics	11.05	line km	V21 + V7 MAGNETITE
	Station spacing	25	metres	CHLORITE OUTCROP OVER MAG
	E.M. V.L.F.	12.56	line km	ANOMALY
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.C. Holes		metres	

Summary NARROW MAG ANOM CAUSED BY MAGNETITE BEARING CHEMICAL SEDIMENT (V1) SMALL SIZE + LACK GEOCHEM

Sgd. J. Corbett

Date 9/6/82

Reports R. LARGE (1981)

Updated

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 22

LOCATION 381000E 5249500N

DEFINITION AREA OF HYDROTHERMALLY ALTERED PYROCLASTIC ROCKS

STYLE OF MINERALIZATION STRATIFORM Cu Pb Zn

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	1.44 sq.km	
	GRID ORIENTATION	TRUE NORTH	
	LINE SPACING	200 metres	
	INFILL GRIDDING	SOUTHERN PART 100m INTERVALS 10200N-10800N	
GEOCHEMISTRY	SOIL SAMPLING		
	Method	JACRO POWER AUGER	TWO GEOCHEMICAL ANOMALIES
	No. of samples	(74) (274)	300x100m WITH PEAK
	Horizon sampled	C	VALUES OF 1000-2000ppm
	Elements assayed for	Cu Pb Zn Ag Fe	Pb + Zn
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING	ROCK CHIP SAMPLING	
	Method	ROCK CHIP SAMPLES	ANOMALOUS Cu Pb Zn Ag
	No. of samples	43	Au VALUES IN SOME SAMPLES
	Elements assayed for	Cu Pb Zn Ag Fe Mn	(Au Sn W)
GEOLOGY	Area mapped	1.44 sq.km	ZONE OF INTENSE HYDROTHERMAL
	Scale used	1:2500	ALTERATION POSSIBLE VENT
	Geologist	DENNIS MOORE	AREA LOCATED
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	13.60 line km	FLAT MAGNETIC CHARACTER
	Station spacing	12.5 metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Percussion (RAB) holes	metres	

Summary Pb-Zn GEOCHEMICAL ANOMALIES CORRESPOND TO LOW-LYING AREAS STRATIGRAPHICALLY ABOVE CHLORITIC ALTERATION ZONE

Sgd. R Wilson.

Date 6.2.82

Reports LARGE 1980, WILSON ET AL 1981

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 23
LOCATION 376120E 5245550N
DEFINITION MINOR COPPER MINERALIZATION IN DOLOMITIC SILTSTONES

STYLE OF MINERALIZATION STRATIFORM Cu

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	OUTCROP CHANNEL SAMPLES	BACKGROUND VALUES OF
	No. of samples	23-5m SAMPLES	150ppm Cu PEAK VALUE OF
	Elements assayed for	Cu Pb Zn Fe	1300ppm
GEOLOGY	Area mapped	GEOLOGICAL sq.km	VERIDIAN POINT BASIC
	Scale used	TRAVERSE ONLY	VOLCANICS AND SHALES
	Geologist	C. STRICKLAND	
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary LOW COPPER CONTENT OF DOLOMITIC SHALES NO FURTHER WORK RECOMMENDED

Sgd. [signature]

Date 6.8.82

Reports LARGE (1981)

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 24

LOCATION CENTRED ON AMG 5248000N/379000E

DEFINITION AREA OF ANOMALOUS STREAM SOIL AND ROCK GEOCHEMISTRY

STYLE OF MINERALIZATION QUARTZ Au-Ag ASSOCIATION; RHYOLITE Au-Ag ASSOCIATION

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1.3 x 1.0	sq.km	
	GRID ORIENTATION	TRUE NORTH/E-W LINES		
	LINE SPACING	100	metres	
	INFILL GRIDDING	NIL		
GEOCHEMISTRY	SOIL SAMPLING			
	Method	HAND AUGER		TWO CONTOURABLE WEAK Pb-Zn
	No. of samples	383		ANOMALIES DEFINED
	Horizon sampled	B HORIZON		NUMBER OF Au SOIL
	Elements assayed for	Cu Pb Zn Au		ANOMALIES
	STREAM SAMPLING			
	Method	-80# and PAN CON		PAN CONS FROM LOWER
	No. of samples	17		GERARD CREEK ASSAYED 86 & 99ppm
	Sample density	12 PER km^2		Au COARSE VISIBLE GOLD
	Elements assayed for	Cu Pb Zn Ag Au Sn W		IN SAMPLES
	COSTEAN SAMPLING	COSTEAN 1	BLACKSHALE COSTEAN C2	
	Method	BACKHOE	BACKHOE	GRAB SAMPLES FROM COSTEAN 1
	No. of samples	12	5	ASSAYED 4.01ppm Au and
	Sampling spacing	2m channel	1m channel	1.25ppm Au
	Elements assayed for	Cu Pb Zn As Ag Au Fe		
	OTHER SAMPLING	BANK SAMPLING		
	Method	ROCK CHIP		Qtz FLOAT IN CREEK
	No. of samples	19		ASSAYED 5.9ppm Au
	Elements assayed for	Cu Pb Zn Ag Au Mn Fe As		(POSSIBLE CONTAMINATION)
GEOLOGY	Area mapped	1.3 x 1.0	sq.km	
	Scale used	1:2500		
	Geologist	R.R. LARGE		
GEOPHYSICS	I.P. Gradient Array	ONE	line km	
	Dipole-Dipole	ONE	line km	
	S.P.	ONE	line km	
	Magnetics	1.9	line km	
	Station spacing	25	metres	
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling	281.15	metres	
	Jacro A.Q. Holes		metres	

Summary TUFFS & AGGLOMERATES ANOMALOUS IN GOLD. CONCENTRATION IN QUARTZ VEINS. COARSE GOLD IN RHYOLITE TUFFS

Reports LARGE (1981)

WILSON ET. AL. (1981)

Sgd. [signature]

Date 4th July 1982

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 25
LOCATION 384600E 5250400N ✓
DEFINITION ANOMALOUS TUNSTEN, Pb-Zn IN STREAMS

STYLE OF MINERALIZATION TUNSTEN-SULPHIDE SKARN?

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING		
	Method	-80 MESH	70-100ppm W ASSOCIATED
	No. of samples	15	WITH MODERATE Pb, Zn
	Sample density	15 per sq km	ANOMALIES
	Elements assayed for	Cu, Pb, Zn, Sn, W, Fe, Au	
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	PANNED CONCENTRATE	320-160ppm W IN PAN CON
	No. of samples		SAMPLES
	Elements assayed for		
GEOLOGY	Area mapped	RECONNAISSANCE sq.km	FINE GRAINED, FOLIATED
	Scale used	ONLY	CHLORITIC QUARTZ CRYSTAL
	Geologist		TUFFS
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary SOURCE OF W NOT LOCATED, NO AIRBORNE MAGNETIC ANOMALY (SKARN) SO LOW PRIORITY

Sgd. [signature]

Date 9.6.82

Reports LARGE (1981)

Updates

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 26

LOCATION 375500E 5251500N

DEFINITION AIRBORNE EM/MAG ANOMALIES IN MAINWARING GROUP

STYLE OF MINERALIZATION Cu DOLOMITE TYPE

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	0.80	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	400	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	MATE POWER AUGER		BACKGROUND AND THRESHOLD
	No. of samples	127		Cu VALUES OF 1000ppm AND
	Horizon sampled	C		340ppm RESPECTIVELY
	Elements assayed for	Cu Pb Zn Ag Fe Mn Sn W		
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	0.80	sq.km	BASIC VOLCANICS CHLORITIC
	Scale used	1:2500		PHYLLITES
	Geologist	R. POLTOCK		
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	1.20	line km	FLAT MAGNETIC CHARACTER
	Station spacing	12.5	metres	WEST OF SHARP SPIKEY ANOMALOUS ZONE INDICATIVE
	E.M. V.L.F.		line km	OF BASIC VOLCANICS
	Turam (M.S.T.)	COMMENCED BUT ABANDONED		- EQUIPMENT PROBLEMS
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. holes		metres	

Summary NO SIGNIFICANT GEOCHEMICAL ANOMALIES, EM SURVEY NOT YET COMPLETED

Sgd. Wilson.

Date 9.6.82

Reports LARGE (1981) WILSON ET AL (1981) POLTOCK (1981)

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY STYLE OF MINERALIZATION STRATIFORM

PROSPECT VOYAGER 27 Pb Zn Cu

LOCATION 385000E 5253500N

DEFINITION ANOMALOUS DRAINAGE GEOCHEMISTRY

WEAK AEM ANOMALY

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING	(SHEET 4)	
	Method	-80MESH	THRESHOLD VALUES OF
	No. of samples		30ppm Pb and 35ppm Zn
	Sample density	c20 per sq km	FEW ANOMALIES UPTO 60ppm
	Elements assayed for	Cu Pb Zn Ag Fe Mn	Zn and 45ppm Pb
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method		
	No. of samples		
	Elements assayed for		
GEOLOGY	Area mapped	30 sq.km	HUDSON RIVER
	Scale used	1:10000	VOLCANICS ADJACENT TO
	Geologist	JOHN STOCKLEY	PORPHYRY CONTACT
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary NO OUTCROP IN VICINTY OF ANOMALIES NO FURTHER WORK UNDERTAKEN

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Date 9.6.82

Reports LARGE (1981)

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 28

LOCATION 378000E 5258000N

DEFINITION ANOMALOUS GOLD IN SOIL SAMPLES CYPRESS CREEK TRACK

STYLE OF MINERALIZATION VEIN STYLE STOCK WORK PORPHYRY OR ALLUVIAL GOLD

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	RECONNAISSANCE LINE OF
	GRID ORIENTATION		SAMPLING ONLY APPROX.
	LINE SPACING	metres	E-W ALONG THE TRACK
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method	MATE POWER AUGER	TWO SAMPLES FURNISHED
	No. of samples	90	VALUES OF 0.7 AND
	Horizon sampled	B/C	0.28ppm Au RESPECTIVELY
	Elements assayed for	Cu Pb Zn Ag Fe Au	
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING	INFILL GEOCHEMISTRY	
	Method	JACRO	MAXIMUM VALUE OF
	No. of samples	23x12.5m CENTRES	0.03ppm Au
	Elements assayed for	Cu Pb Zn Ag Fe Au	
GEOLOGY	Area mapped	LINE TRAVERSE sq.km	ACID VOLCANICS
	Scale used	1:2500 PROFILE	VOLCANIC SANDSTONES
	Geologist	R. POLTOCK W. HERRMANN	PYRITIC SILTSTONES
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary ANOMALOUS GOLD THOUGHT TO BE PRESENT IN THE A/B HORIZONS RELATED TO FLOOD LEVELS OF RIVER

Sgd. Wilson

Date 9.6.82

Reports POLTOCK (1981) WILSON ET AL (1981)

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 29

LOCATION 380000E 5249000N

DEFINITION ANOMALOUS Pb-Zn Ag SOIL GEOCHEMISTRY SOUTH OF V19

STYLE OF MINERALIZATION STRATIFORM Pb Zn Ag

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1.6	sq.km	50m INFILL GRIDDING
	GRID ORIENTATION	TRUE NORTH		10300-10600N (9900-10100E)
	LINE SPACING	200	metres	
	INFILL GRIDDING	100m SPACING 10800-10000N		
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO		Pb Zn Ag ANOMALIES
	No. of samples	553		IN SOUTHERN AND SW
	Horizon sampled	C		PART OF GRID LOCALLY UP
	Elements assayed for	Cu Pb Zn Ag Fe		to 6.6% Pb & Zn
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method	BACKHOE		MINERALIZATION
	No. of samples	50		LOCATED IN MOST
	Sampling spacing	1m		COSTEANS
	Elements assayed for	Cu Pb Zn Ag Fe		
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	1.6	sq.km	FLAT AREA VERY LITTLE
	Scale used	1:2500		OUTCROP QUARTZ PORPHYRY
	Geologist	W. HERRMANN		AND LITHIC TUFFS
GEOPHYSICS	I.P. Gradient Array	3.6	line km	CHARGEABLE ZONE 10600N
	Dipole-Dipole	2.8	line km	BROAD CHARGEABLE ZONE
	S.P.	2.8	line km	
	Magnetics	12.40	line km	FLAT MAGNETIC PROFILES
	Station spacing	12.5	metres	
	E.M. V.L.F.	12.40	line km	
	Turam (M.S.T.)			
	Gravity No. of stations	200		NUMBER OF INTERESTING
	Station spacing	25	metres	ANOMALIES DEFINED
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary AREA OF LOW RELIEF WITH EXCELLENT Pb-Zn SOIL GEOCHEMISTRY WITH COINCIDENT GRAVITY IP ZONES

Sgd. [signature]

Date 9.6.82

Reports WILSON ET AL (1981)

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 29W

LOCATION SE CORNER 379475E 5248325N

DEFINITION Au ANOMALY IN PAN CON ADJACENT TO Pb Zn ANOMALIES ON V29

STYLE OF MINERALIZATION Cu Pb Zn Ag MASSIVE SULPHIDE (STRATIFORM) VEIN PORPHYRY Au

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	2.16	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	200	metres	
	INFILL GRIDDING	3 LINES OF 100m CENTRED		ON 10000E 10500N
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO + HAND HELD POWER		AUGER
	No. of samples	436		ANOMALY ADJACENT TO V29
	Horizon sampled	C		Pb Zn GRAVITY + IP
	Elements assayed for	Cu Pb Zn Ag Fe		ANOMALY
	STREAM SAMPLING			
	Method	-80 MESH + PAN CON		1980 SURVEY Au + W
	No. of samples	25		ANOMALOUS
	Sample density	11.5 per sq km		
	Elements assayed for	Cu Pb Zn (-80 MESH) Au		Sn W (PAN CON)
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	FOLLOW UP PAN CON (1982)		ANOMALOUS AU CORRELATES
	No. of samples	15		WITH HIGHER BACKGROUND
	Elements assayed for	Au Sn W		IN PYROCLASTICS
GEOLOGY	Area mapped	2.16	sq.km	
	Scale used	1:2500		
	Geologist	J. PEMBERTON		
GEOPHYSICS	I.P. Gradient Array		line km	SEE V29
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	12.6	line km	
	Station spacing	12.5	metres	
	E.M. V.L.F.	10.8	line km	
	Turam (M.S.T.)			
	Gravity No. of stations	61		V29
	Station spacing	25	metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary ANOMLOUS GEOCHEMISTRY ADJACENT TO V29 ANOMALY CENTRED ON 10500N 10000E

Sgd. J. Pemberton

Date 9/4/82

Reports 1981/82 REPORT (in prep)

Updates

A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 30
LOCATION 5246000N 379000E AMG
DEFINITION AREA OF ANOMALOUS STREAM SOIL AND ROCK GOLD GEOCHEMISTRY ANOMALOUS SOIL AND ROCK BASE METAL GEOCHEMISTRY

STYLE OF MINERALIZATION Au - QTZ ASSOCIATION
Au - RHYOLITE ASSOC.
ROSEBERY MASSIVE SULPHIDES

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	1km x 1km sq.km	
	GRID ORIENTATION	TRUE NORTH BASELINE/E-W LINES	
	LINE SPACING	200 metres	
	INFILL GRIDDING	100m + 50m	
GEOCHEMISTRY	SOIL SAMPLING		
	Method	JACRO RIC	A NUMBER OF STRONG Pb/Zn
	No. of samples	380	ANOMALIES DEFINED.
	Horizon sampled	C HORIZON	HIGHEST Pb 5200ppm/Zn
	Elements assayed for	Cu Pb Zn Fe As Ag Au	5900 Au 1.2ppm
	STREAM SAMPLING		
	Method	-80 MESH/PAN CON	PAN CON RESULTS UPTO
	No. of samples	13	101ppm. COARSE GOLD
	Sample density	13 per sq km^2	IN MOST SAMPLES. Sn UPTO
	Elements assayed for	Cu Pb Zn Au Sn W Ag	885ppm IN PAN CON SAMPLE
	COSTEAN SAMPLING	COSTEAN PITS(5)	
	Method	BACKHOE BACKHOE	20cm WIDE QTZ VEIN
	No. of samples	11 12	EXCAVATED PIT 3 GRAB
	Sampling spacing	2m CHANNEL GRAB SAMP.	SAMPLES ASSAYED 2.8% Pb
	Elements assayed for	Cu Pb Zn Ag Au As Sn W Fe Ba	7.75% Zn 108ppm Ag
	OTHER SAMPLING		
	Method	ROCK CHIP	ANOMALOUS GOLD IN QTZ
	No. of samples	16	VEINS UPTO 495ppb
	Elements assayed for	Cu Pb Zn Ag Au Fe Mn As	Sn W
GEOLOGY	Area mapped	1.0 x 1.0 sq.km	VERY POOR OUTCROP
	Scale used	1:2500	LOCATED PORPHYRITIC
	Geologist	R.J. PERRING	MICROGRANITE
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	1.5 line km	4 IP ANOMALIES
	S.P.	1.0 line km	
	Magnetics	13.1 line km	400nT ANOMALY
	Station spacing	12.5 metres	
	E.M. V.L.F.	13.1 line km	2 VLF ANOMALIES
	Turam (M.S.T.)		
	Gravity No. of stations	1 LINE KM	
	Station spacing	25 metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary VOLCANICS + GRANITE ANOMALIES IN BASE METALS. TUFFS AND QTZ VEINS ANOMALOUS IN Au. GALENA + SPHALERITE MINZ IN QTZ VEIN.

Reports WILSON et al (1981)

Sgd. [signature]

Date 9th June 1982

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 31
LOCATION S.E. CORNER - 379000E 5250150E
DEFINITION Pb + Zn MINERALIZATION OUTCROPPING IN Cu CREEK

STYLE OF MINERALIZATION Pb Zn Ag Au VEIN
STYLE RELATED TO Cu CREEK LINEAMENT

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	3.36	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	400	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	HAND HELD POWER AUGER		
	No. of samples	275		
	Horizon sampled	C		
	Elements assayed for	Cu Pb Zn Ag Fe		
	STREAM SAMPLING			
	Method	-80 MESH + PAN CON		-80 MESH ANOMALOUS
	No. of samples	18		IN Pb + Zn DOWN LENGTH
	Sample density	5.4 per sq km		OF Cu CK.
	Elements assayed for	Cu Pb Zn Sn W Au		
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method	5m CHIP SAMPLES		BEST RESULTS 4.45%
	No. of samples	65		COMBINED Pb Zn + 18gm Ag
	Elements assayed for	Cu Pb Zn Ag		
GEOLOGY	Area mapped	3.36	sq.km	ALONG GRID LINES +
	Scale used	1:2500		Cu CK.
	Geologist	J. PEMBERTON		
GEOPHYSICS	I.P. Gradient Array		line km	ATTEMPTED BUT FAILED DUE
	Dipole-Dipole		line km	TO STEEP SLOPES DOWN
	S.P.		line km	TO Cu CK.
	Magnetics	5.9	line km	
	Station spacing	12.5	metres	
	E.M. V.L.F.	5.9	line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary SILICIFICATION Pb Zn Ag As MINERALISATION AS VEINS ADJACENT TO Cu CK LINEAR

Sgd. J. Pemberton

Date 9/6/82

Reports PROGRESS REPORT E.L. 27/76 1980-81 FIELD SEASON ✓

Updates

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 32
LOCATION 384000E 5243000N
DEFINITION FAVOURABLE STRATIGRAPHY BETWEEN V3 + V10

STYLE OF MINERALIZATION STRATIFORM Pb-Zn-Cu

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING		
	Method		
	No. of samples		
	Sample density		
	Elements assayed for		
	COSTEAN SAMPLING		
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method	ROCK CHIP	UPTO 910ppm Cu 165ppm Pb
	No. of samples	3	115ppm Zn + 5.5ppm Ag
	Elements assayed for	Cu Pb Zn Ag	
GEOLOGY	Area mapped	sq.km	REGIONAL MAPPING
	Scale used	1:10000	
	Geologist	P. HEITHERSAY	
GEOPHYSICS	I.P. Gradient Array	line km	
	Dipole-Dipole	line km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary FURTHER WORK DEPENDANT ON REBUILDING OF LEWIS RIVER BRIDGE. GOOD POTENTIAL.

Sgd. J. Parker

Date 9/6/82

Reports WILSON ET.AL. (1981)

Updates

GEOPEKO

743161

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PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 33

LOCATION 10000E 13800N - 379500E 525215ON

DEFINITION NORTHERLY EXTENSION OF VOYAGER 19

STYLE OF MINERALIZATION Cu Pb Zn Ag Au VOLCANOGENIC MASSIVE SULPHIDE

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	2.08	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	200	metres	
	INFILL GRIDDING			
GEOCHEMISTRY	SOIL SAMPLING			
	Method	HAND HELD POWER AUGER		3.3%Pb + Zn with 66gmAg
	No. of samples	379		STRATABOUND ANOM. N-S
	Horizon sampled	C		OF HIGH POINT
	Elements assayed for	Cu Pb Zn Ag Fe Ba As		(cost two over Pb Zn anom)
	STREAM SAMPLING			
	Method	-80 MESH + PAN CON		SE + E OF AREA ALONG
	No. of samples	7		PLEASANT CREEK - NO
	Sample density			ANOMALY
	Elements assayed for	Cu Pb Zn Sn W Au		
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	2.08	sq.km	
	Scale used	1:2500		
	Geologist	JOHN PEMBERTON		
GEOPHYSICS	I.P. Gradient Array		line km	
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	8.4	line km	
	Station spacing	12.5	metres	
	E.M. V.L.F.	8.4	line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary Pb Zn Ag ANOMALY IN BLACKSHALES AND SMALLER ANOMALY IN CHLORITIC CRYSTAL TUFF.

Sgd. J. Pemberton

Date 9/6/82

Reports WILL BE REPORTED ON IN 1981-82 REPORT

Updates

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A Division of Peko-Wallsend Operations Ltd - Devonport

GEOPEKO

743162

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY
PROSPECT VOYAGER 34
LOCATION 381000E 5251000N
DEFINITION AREA ON E OF OSMUND SYNCLINE
FAVOURABLE STRATIGRAPHY

STYLE OF MINERALIZATION STRATIFORM
Cu Pb Zn Ag

Work Completed		Details		Significant Results
GRIDDING	GRID DIMENSIONS	1.60	sq.km	
	GRID ORIENTATION	TRUE NORTH		
	LINE SPACING	200	metres	
	INFILL GRIDDING	NONE		
GEOCHEMISTRY	SOIL SAMPLING			
	Method	JACRO		Pb-Zn ANOMALIES IN NE OF
	No. of samples	330		GRID UPTO 0.8% COMBINED
	Horizon sampled	C HORIZON		
	Elements assayed for	Cu Pb Zn As Fe		Pb/Zn
	STREAM SAMPLING			
	Method			
	No. of samples			
	Sample density			
	Elements assayed for			
	COSTEAN SAMPLING			
	Method			
	No. of samples			
	Sampling spacing			
	Elements assayed for			
	OTHER SAMPLING			
	Method			
	No. of samples			
	Elements assayed for			
GEOLOGY	Area mapped	1.60	sq.km	QUARTZ PORPHYRITIC LAVAS
	Scale used	1.2500		AND TUFFS UNCONFORMABLE
	Geologist	D. MOORE		OVERLAIN BY TYNDAL
GEOPHYSICS	I.P. Gradient Array		line km	EPICLASTICS
	Dipole-Dipole		line km	
	S.P.		line km	
	Magnetics	4.10	line km	FLAT MAGNETIC CHARACTER
	Station spacing	12.5	metres	
	E.M. V.L.F.		line km	
	Turam (M.S.T.)			
	Gravity No. of stations			
	Station spacing		metres	
DRILLING	Diamond drilling		metres	
	Jacro A.Q. Holes		metres	

Summary GOOD Pb-Zn ANOMALIES AND FAVOURABLE GEOLOGY HIGH POTENTIAL FOR V19 STYLE MINERALIZATION

Sgd. [signature]

Date 9.6.82

Reports

Updates

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743163

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GEOPEKO

PROSPECT SUMMARY SHEET

AREA ELLIOTT BAY

PROSPECT VOYAGER 35

LOCATION 377300mE 5253500mN

DEFINITION DRAINAGE ANOMALIES IN THE MAINWARING RIVER

STYLE OF MINERALIZATION UNKNOWN

Work Completed		Details	Significant Results
GRIDDING	GRID DIMENSIONS	sq.km	
	GRID ORIENTATION		
	LINE SPACING	metres	
	INFILL GRIDDING		
GEOCHEMISTRY	SOIL SAMPLING		
	Method		
	No. of samples		
	Horizon sampled		
	Elements assayed for		
	STREAM SAMPLING		
	Method	-80 MESH	REGIONAL STREAM SEDIMENT
	No. of samples		SURVEY IN MAINWARING RIVER
	Sample density	Cu Pb Zn Fe Mn Ag Au Sn W	BY POLTOCK BROS.
	Elements assayed for		TWO ANOMALOUS Au VALUES
	COSTEAN SAMPLING		OF 290 + 740ppb Au
	Method		
	No. of samples		
	Sampling spacing		
	Elements assayed for		
	OTHER SAMPLING		
	Method		
	No. of samples		
	Elements assayed for		
GEOLOGY	Area mapped	sq.km	
	Scale used		
	Geologist		
GEOPHYSICS	I.P. Gradient Array	line.km	
	Dipole-Dipole	line.km	
	S.P.	line km	
	Magnetics	line km	
	Station spacing	metres	
	E.M. V.L.F.	line km	
	Turam (M.S.T.)		
	Gravity No. of stations		
	Station spacing	metres	
DRILLING	Diamond drilling	metres	
	Jacro A.Q. Holes	metres	

Summary PART OF THE NORTHERLY EXTENSION OF THE V24 GOLD ANOMALY

Sgd. I. Parker

Date 4/4/82

Reports PROGRESS REPORT E.L. 27/76, 80/81, P.WILSON

Updates

88-2853

GEOPEKO 'VOYAGER' PROSPECTS

1: 377,300m E / 5,242,100m N
Old workings (Penders Prospect)

2: 384,100m E / 5,245,600m N
Old workings (Lewis River Prospect)

3: 383,000m E / 5,241,300m N
Old workings (Drake Creek Prospect)

4: 381,600m E / 5,244,800m N
AEM anomaly no. 18

5: 378,300m E / 5,243,000m N
Aeromagnetic anomaly

6: 380,200m E / 5,243,800m N
Aeromagnetic anomaly

7: 378,000m E / 5,244,000m N
Aeromagnetic anomaly

8: 382,600m E / 5,242,800m N
Anomalous Au in stream sediments

9: 380,300m E / 5,246,500m N
Aeromagnetic anomaly, plus alteration

10: 384,700m E / 5,244,300m N
Anomalous base metals in stream sediments

11: 378,300m E / 5,242,200m N
AEM anomaly no. 7

12: 384,800m E / 5,246,500m N
Anomalous base metals in stream sediments

14: 387,600m E / 5,244,500m N
Aeromagnetic anomaly

15: 386,400m E / 5,242,300m N
Aeromagnetic anomaly

16: 382,600m E / 5,247,300m N
Anomalous base metals in stream sediments and soil samples, plus aeromagnetic anomaly

17: 378,200m E / 5,249,700m N
Aeromagnetic anomaly

18: 376,100m E / 5,247,300m N
Outcropping sulphides

19: 379,600m E / 5,251,600m N
Alteration zone

20: 384,500m E / 5,256,900m N
Anomalous base metals in stream sediments and soil samples

21: 377,300m E / 5,244,700m N
Northwards strike extension of VI

22: 380,800m E / 5,249,000m N
Alteration zone

23: 376,100m E / 5,245,500m N
Outcropping mineralisation

24: 378,400m E / 5,247,800m N
Anomalous gold in streams, soil and rock chips

25: 384,600m E / 5,250,400m N
Anomalous tungsten in stream sediments

26: 376,000m E / 5,251,700m N
AEM and aeromagnetic anomalies

27: 384,800m E / 5,253,200m N
(Weak) AEM anomaly (no.66) with anomalous base metal stream sediments

28: 378,000m E / 5,257,900m N
Anomalous Au in soil samples

29: 379,700m E / 5,248,900m N
Anomalous base metals in soil samples

29W: 378,100m E / 5,249,800m N
Anomalous Au in panned concentrate

30: 378,800m E / 5,246,600m N
Anomalous Au and base metals in stream and soil samples

31: 378,200m E / 5,251,200m N
Anomalous base metals in rock chips

32: 384,000m E / 5,243,000m N
Favourable stratigraphy between V3 & V10

33: 378,900m E / 5,252,600m N
Anomalous base metals in soil samples to the north of V19

34: 381,000m E / 5,252,000m N
Favourable stratigraphy

35: 377,100m E / 5,253,500m N
Anomalous Au in stream sediments

36: 374,900m E / 5,253,700m N
Anomalous copper in stream sediments

MOORES VALLEY AIRSTRIP

WANDERER RIVER

MAINWARING

COPPER CREEK FAULT

MT. OSMUND ▲368m

WART HILL ▲238m

Sericite Alt.

Wart Hill Pyroclastics / Hudson River Pyroclastics
(From Large et. al; 1982)

Sericite Qtz

Chlorite Pyrite

Sericite Quartz

WATERLOO CREEK PROSPECT

Chlorite Magnetite

Qtz-chl-py-tourmaline

LEWIS RIVER FAULT

LEWIS RIVER PROSPECT

OSMUND FAULT

DIORITE POINT

VERIDIAN POINT

PENDERS PROSPECT

Qtz. sericite talc ± chl.

BLACK ISLAND

DRAKE CREEK PROSPECT

SOUTHERN OCEAN

ELLIOTT BAY

LOW ROCKY POINT

E.L. 40 / 85

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

5 cm

LEGEND

TERTIARY
1 Quartzose Gravel

JURASSIC
2 Dolerite

LATE CAMBRIAN – EARLY ORDOVICIAN
3 Owen Conglomerate – undifferentiated
3a – coarse quartzose sandstone
3b – siltstone

4 Waterloo Creek Group – undifferentiated
4a – hematitic volcaniclastic conglomerate
4b – tuffaceous coarse sandstone and grit
4c – black shale ± pyrite
4d – fine–med. grained rhyolitic volcaniclastic

CAMBRIAN – MT. READ VOLCANICS
5 Wart Hill and Hudson River Volcanics – undifferentiated
5a – fine to med. grained rhyolitic volcaniclastic
5b – rhyolitic quartz–feldspar porphyry (lavas and intrusives)
5c – dacitic porphyry
5d – coarse rhyolitic volcaniclastic
5e – siltstone
5f – siliceous conglomerate
5g – greywacke and siltstone

CAMBRIAN INTRUSIVES
6 Elliott Point Porphyry
7 Granite
8 Microgranite
9 Porphyritic Microgranite

CAMBRIAN – WESTERN EPICLASTICS
10 Western Epiclastics – undifferentiated
10a – andesitic – basaltic volcanics
10b – brown–grey tuffaceous siltstone and quartzose conglomerate
10c – black shale ± pyrite
10d – fine to medium grained rhyolitic volcanics
10e – gabbro
10f – coarse rhyolitic volcaniclastic sandstone

CAMBRIAN – MAINWARING GROUP
11 Mainwaring Group – undifferentiated
11a – gabbro
11b – andesite–basaltic volcanics
11c – dolomite
11d – black shale ± pyrite
11e – siltstone and sandstone

PRECAMBRIAN
12 Metamorphics – quartzite, schist and phyllite

Geological contact
Unconformity
Fault
Plunging syncline
Old workings
Boundary between Wart Hill and Hudson River Pyroclastics. (Large et. al; 1982)
Alteration boundary

743164

CM/M687/II

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

GEOLOGY AND PROSPECT LOCATION PLAN

DRAWN BY : C.T.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 (500 0 500 1000 METRES)

FIG. 1

133

75000mE. 80000mE. 85000mE. 90000mE.

260000mN.

MOORES VALLEY AIRSTRIP

WANDERER RIVER

RIVER

10800 N
10000 N
9600 N
9200 N
8800 N

255000mN.

MAINWARING

AEM 74
AEM 75
AEM 77
AEM 78

AEM 69
14800 N
14600 N
14400 N
14200 N
14000 N
13800 N
13600 N
13400 N.
13000 N.
12600 N.
12200 N.
11800 N
11600 N
11400 N
11200 N
11000 N
10800 N
10600 N
10400 N
10200 N
AEM 30 approx.
10000 N
9800 N
9600 N
9400 N
9200 N
9000 N
8800 N
8600 N
8400 N
8200 N
8000 N
7800 N
14800 N
14600 N
14400 N
14200 N
14000 N
13800 N
13600 N
13400 N
13000 N
12800 N
12600 N
12400 N
12200 N
12000 N
11800 N
11600 N
11400 N
11200 N
11000 N
10800 N
10600 N
10400 N
BLACK ISLAND
10000 N
9800 N
9600 N

V33/1 (65m)
V33/2 (116m)
V19/1 (200m)
V19/4 (71m)
V19/2 (160m)
V19/3 (301m)
V19/5 (150m)
V24/4 (223m)
V24/2 (26m)
V24/1 (28m)
V24/3 (87m)
V9/2 (232m)
V9/3 (159m)
V9/1 (60m)

MT. OSMUND
▲ 368m

13600 N
13400 N
13200 N
13000 N
12800 N
12600 N
12400 N

AEM 62 GRID
100 N
00 N
100 S

AEM 44
AEM 43
AEM 41
AEM 46
1000 N
800 N
600 N
400 N
200 N
AEM45
00 N
10000 N
9600 N
9200 N
8800 N
8600 N
8400 N
8200 N
10325 N
9800 N

AEM 45
200 N
00 N
100 S
400 N
200 N
00
200 S
400 S
600 S

V12/2 (17m)
V12/4 (47m)
V12/5 (164m)
V12/1 (31m)
V12/3 (182m)

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT
V2/1 (33m)
V2/5 (65m)
V2/3 (42m)
V2/2 (47m)
V2/4 (31m)

V3/1 (?)
V3/3 (20m)
V3/2 (?)

DRAKE CREEK PROSPECT

250000mN.

DIORITE POINT

VERIDIAN POINT

245000mN.

PENDERS PROSPECT

SOUTHERN OCEAN

240000mN.

LOW ROCKY POINT

ELLIOTT BAY

E.L. 40 / 85

5 cm

239000mN.

LEGEND

Grids and drill holes shown are from Geopeko exploration of E. L. 27/76

DRILL-HOLE REFERENCES

V2 Strickland & Herrmann '80
V3 Wilson et al '81
V9/1 Large '81
V9/2 Wilson et al '81
V9/3 Wilson '82
V12 Large '81
V19 Wilson '82
V24/1 Wilson '82
V24/2-4 Herrmann & Sumpton '84
V33/1,2 Herrmann & Sumpton '84

GRID CONVERGENCE 1.2°
GRID/MAGNETIC ANGLE 12.5°

CM/MGS7/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

GRID & D.D.H. LOCATIONS

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000

FIG. 2

88-2853

743165

134

75000mE. 80000mE. 85000mE. 90000mE.

260000mN.

255000mN.

250000mN.

245000mN.

240000mN.

MOORES VALLEY AIRSTRIP

WANDERER RIVER

RIVER

V28 & 8HP Track Magnetics from 4500W-00W Wilson '81

MAINWARING

MT. OSMUND ▲368m

WART HILL ▲238m

CREEK

WOOLCOOLOOLOO CREEK

V33-V34 (Coarse contours only) Herrmann '83

V33 Wilson '82

V34 Wilson '82

V26 Wilson '81

V19 (Coarse contours only) Herrmann '83

V19 Wilson '81

V35 Wilson '82

V17 Large '81

V29 & V29W (Coarse contours only) Herrmann '83

V29W Wilson '82

V29 Wilson '82

V22 Wilson '82

V22 Large '81

V22 & 24 (Coarse contours only) Herrmann '83

V24 Wilson '81

DIORITE POINT

V9 (Coarse contours only) Herrmann '83

V9 Large '81

V9 Mudge '78

V9 Wilson '82

V30 Wilson '82

V30 (Coarse contours only) Herrmann '83

VERIDIAN POINT

V4 Deakin '77

V21 Large '81

V7 Large '81

V6 Large '81

V6 Deakin '77

V5 Deakin '77

V5 Large '81

V1 & V5 Mudge '78

V1 Deakin '77

V1 Large '81

PENDERS PROSPECT

BLACK ISLAND

SOUTHERN OCEAN

LOW ROCKY POINT

DOPPER

CAMP

SASSY

HUDSON

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

LEWIS

JERBOA

BARREL

LITTLE ROCKY RIVER

V16 Wilson '81

V16 Wilson '82

V2 Mudge '78

V2 Deakin '77

V14 Large '81

V10 (Assumed coverage) Strickland '80

V3 Mudge '78

V3 Deakin '77

E.L. 40 / 85

ELLIOTT BAY

5 cm

185

743166

88-2853

LEGEND

Surveys compiled are from Geopeko's exploration of E. L. 27/76

GN TN MN

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

MAGNETIC SURVEYS COVERAGE PLAN

DRAWN BY : J.B.

DRAFTSMAN : T.G.D.S.

DATE : Nov. '87

REVISIONS :

FILE No.

SCALE 1 : 25000 500 0 500 1000 METRES

FIG. 3

75000mE. 80000mE. 85000mE. 90000mE.

260000mN.

255000mN.

250000mN.

245000mN.

240000mN.

MOORES VALLEY AIRSTRIP

WANDERER RIVER

MAINWARING

V33 Part of Wart Hill d-d IP survey Bishop '86

MT. OSMUND ▲368m

V19 gradient array IP Wilson '81

V19 part of Wart Hill d-d IP survey, Bishop '86

X V19 Applied Potential, Hermann '83

V19 detailed IP Herrmann & Sumpton '84 a=20, a=10 lines 13300, 13050

V19 d-d IP survey Wilson '81 & '82

WART HILL ▲238m

V29W d-d Hermann/Sumpton '84

V29 gradient array IP Wilson '81

V29 d-d IP Wilson '82

V24 Part of Wart Hill d-d IP Bishop '86

V24 gradient array IP Wilson '81

V24 d-d IP Wilson '81

DIORITE POINT

V8 Part of Wart Hill d-d IP Bishop '86

V9 d-d IP Wilson '81

V9 gradient array IP Wilson '81

V9 d-d IP Mudge Aug. '78

V30 d-d IP Wilson '82

V30 Part of Wart Hill d-d IP Bishop '86

VERIDIAN POINT

OCEAN

X VI ves Mudge '78

VI d-d IP (Mudge Sept. '78)

VI gradient array IP Deakin '77

PENDERS PROSPECT

BLACK ISLAND

SOUTHERN

LOW ROCKY POINT

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

ELLIOTT BAY

E.L. 40 / 85

V34 Part of Wart Hill d-d IP Survey. Bishop '86

AEM 62 d-d IP Mudge June 1979

AEM 45 d-d IP Mudge '79

V12 d-d IP Mudge May. '79

V2 d-d IP Mudge Aug. '78

X V2 VES Mudge '78

V10 d-d IP Mudge Mar. '79

V3 d-d IP Mudge Apr. '79

V3 d-d IP Wilson '81

V3 d-d IP Mudge Aug. '78

V3 d-d IP Misc. Sheet '80

X V3 VES Mudge '78

5 cm

88-2853

743167

7626

LEGEND

Surveys compiled are from Geopeko's exploration of E. L. 27/76

Gradient array IP results shown as contours (—)

Dipole-dipole IP anomalies shown as (▬) and (——)

GRID CONVERGENCE 1.2° GN TN MN GRID/MAGNETIC ANGLE 12.5°

CM/MGB7/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

IP COVERAGE AND ANOMALIES PLAN

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 500 0 500 1000 METRES

FIG. 4

MOORES VALLEY AIRSTRIP

WANDERER RIVER

RIVER

MAINWARING

RIVER

MT. OSMUND ▲368m

CREEK

CREEK

CREEK

CREEK

RIVER

RIVER

RIVER

RIVER

RIVER

RIVER

LEWIS

LEWIS

HUDSON

CAMP

DIORITE POINT

VERIDIAN POINT

PENDERS PROSPECT

BLACK ISLAND

LOW ROCKY POINT

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

ELLIOTT BAY

SOUTHERN OCEAN

V23 Part of Wart Hill d-d IP survey Bishop '86

V19 gradient array IP Wilson '81

V19 part of Wart Hill d-d IP survey, Bishop '86

V19 Applied Potential, Hermann '83

V19 detailed IP Herrmann & Sumpton '84 a=20, acto lines 13300, 13050

V19 d-d IP survey Wilson '81 & '82

V29W d-d Hermann/Sumpton '84

V29 gradient array IP Wilson '81

V29 d-d IP Wilson '82

V24 Part of Wart Hill d-d IP Bishop '86

V24 gradient array IP Wilson '81

V24 d-d IP Wilson '81

V9 Part of Wart Hill d-d IP Bishop '86

V9 d-d IP Wilson '81

V9 gradient array IP Wilson '81

V9 d-d IP Mudge Aug. '78

V30 d-d IP Wilson '82

V30 Part of Wart Hill d-d IP Bishop '86

X V1 ves Mudge '78

V1 d-d IP (Mudge Sept. '78)

V1 gradient array IP Deakin '77

V34 Part of Wart Hill d-d IP Survey, Bishop '86

AEM 62 d-d IP Mudge June 1979

AEM 45 d-d IP Mudge '79

V12 d-d IP Mudge May. '79

V2 d-d IP Mudge Aug. '78

X V2 VES Mudge '78

V10 d-d IP Mudge Mar. '79

V3 d-d IP Mudge Apr. '79

V3 d-d IP Wilson '81

V3 d-d IP Mudge Aug. '78

V3 d-d IP Misc. Sheet '80

X V3 VES Mudge '78

E.L. 40 / 85

5 cm

743168

7627

88-2853

LEGEND

Surveys compiled are from Geopeko's exploration of E. L. 27/76

Gradient array IP results shown as contours (——)

Dipole-dipole IP anomalies shown as (▬) and (——)

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

RESISTIVITY COVERAGE AND ANOMALIES PLAN

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 METRES

FIG. 5

75000mE 80000mE 85000mE 90000mE

260000mN

255000mN

250000mN

245000mN

240000mN

239000mN

AEM 108

MOORES VALLEY AIRSTRIP

AEM 106 AEM 100 AEM 103 AEM 104 AEM 102 AEM 101 AEM 98 AEM 97 AEM 96 AEM 95 AEM 94 AEM 99 AEM 90 AEM 88 AEM 89 AEM 86 AEM 85 AEM 83 AEM 84 AEM 79 AEM 85 AEM 91

WANDERER RIVER

RIVER

V20 VLF Wilson '82

AEM 72 AEM 73 AEM 71 AEM 70 AEM 75 AEM 74 AEM 77 AEM 76 AEM 68 AEM 69 AEM 67 AEM 66 AEM 78 AEM 53 AEM 51 AEM 50 AEM 52 AEM 60 AEM 61 AEM 54 AEM 55 AEM 56 AEM 58 AEM 59 AEM 62 AEM 57 AEM 65 AEM 64 AEM 63

MAINWARING

MT. OSMUND ±368m

COVERAGE

UTEM

WART HILL

V29 VLF Wilson '82
V29 SP Wilson '82
V29 Utem Bishop '86
V29W VLF Wilson '82
V29W Utem Bishop '86
AEM 49
V22 VLF Large '81
V24 SP Wilson '81
V16 VLF Wilson '82
V9 Utem Bishop '86
V9 VLF Large '81
V30 SP Wilson '82
V30 VLF Wilson '82

V19 Utem Bishop '86
V19 VLF Wilson '82
V19 SP Wilson '81
V19 MST Wilson '81
V31 VLF Wilson '82

AEM: 36, 40, 41, 43, 44, 45, 46 & 62
VLF Mudge June '79

V12 SP Mudge May '79
V12 VLF Mudge May '79

V2 VLF Deakin '77
V2 SP Mudge Aug. '78
V2 VLF Mudge Aug. '78

V10 SP Mudge Mar. '79

V3 VLF Mudge Apr. '79
V3 SP Mudge Apr. '79
V3 Turam Mudge Apr. '79
V3 VLF Deakin '77

AEM 48 AEM 47 AEM 29 AEM 30 AEM 46 AEM 43 AEM 42 AEM 41 AEM 40 AEM 39 AEM 38

CAMP CREEK

HUDSON RIVER

AEM 34 AEM 33 AEM 31 AEM 32 AEM 28 AEM 27

WATERLOO CREEK PROSPECT

SASSY CREEK

AEM 35 AEM 36 AEM 37

RIVER

VERIDIAN POINT

AEM 23 AEM 24 AEM 22 AEM 19 AEM 21 AEM 20 AEM 12 AEM 13 AEM 14 AEM 18 AEM 16 AEM 17 AEM 11 AEM 15

LEWIS RIVER PROSPECT

LEWIS RIVER

V7 & V21 VLF Large '81
V7 & V21 SP Large '81
V4 VLF Deakin '77
V6 VLF Large '81
V6 VLF Deakin '77
V1 Turam Large '81
V1 VLF Large '81
V1 VLF Mudge Sep.'78
V5 VLF Deakin '77
V1 VLF Deakin '77
V1 SP Deakin '77
V11 (AEM 71 Deakin '77

PENDERS PROSPECT

BLACK ISLAND

AEM 7 AEM 9 AEM 2 AEM 3 AEM 4 AEM 1 AEM 10 AEM 6 AEM 5

DRAKE CREEK PROSPECT

BARREL CREEK

LITTLE ROCKY RIVER

OCEAN SOUTHERN

ELLIOTT BAY

LOW ROCKY POINT

E.L. 40 / 85

5 cm

7628

743169

88-2853

LEGEND

Surveys compiled are from Geopeko's exploration of E. L. 27/76

Surveys include:- Airborne EM/magnetic survey (HEM-400; 1975) over all of E. L. Anomalies shown as ●

VLF surveys. Anomalies shown as 'Fraser' contours or as ■

UTEM surveys. Anomalies shown as ▌

SP surveys. Anomalies shown as ●

GRID CONVERGENCE 1.2° GN TN MN GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EM & SP

COVERAGE & ANOMALIES

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 500 0 500 1000 METRES

FIG. 6

75000mE. 80000mE. 85000mE. 390000mE.

260000mN.

255000mN.

250000mN.

245000mN.

240000mN.

239000mN.

MOORES VALLEY AIRSTRIP

WANDERER RIVER

WANDERER RIVER

RIVER

RIVER

MANWARING

CREEK

MT. OSMUND
▲388m

10000 E

9800 E

9400 E

9000 E

V33/1 (80m)
V33/2 (115m)

V19/3

V24/4 (220m)

V24/2 (25m)

V24/1 (25m)

V24/3

V9/2

V9/3

V9/1 (60m)

WATERLOO CREEK PROSPECT

V12/4 (147m)

V12/5 (164m)

V12/1 (51m)

V2/6 (200m)

V2/5 (66m)

V2/2 (47m)

V2/3 (142m)

V2/4 (36m)

LEWIS RIVER PROSPECT

LEWIS

HUDSON

RIVER

RIVER

LITTLE ROCKY RIVER

V3/1 (m)

V3/3 (120m)

V3/2 (m)

DRAKE CREEK PROSPECT

DIORITE POINT

VERIDIAN POINT

PENDERS PROSPECT

BLACK ISLAND

LOW ROCKY POINT

OCEAN

SOUTHERN

ELLIOTT BAY

E.L. 40 / 85

5 cm

7629

T43170

88-2853

LEGEND

- Discrete Magnetic Anomaly (1985 Mines Dept. Aeromagnetic Survey)
- IP
- VLF
- UTEM
- SP
- AEM

GRID CONVERGENCE 1.2

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

GEOPHYSICAL ANOMALY COMPILATION PLAN

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Nov. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 (500 0 500 1000 METRES)

FIG. 7

60000m N.

55000m N.

50000m N.

45000m N.

40000m N.

75000m E.

80000m E.

85000m E.

90000m E.

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

PENDERS PROSPECT

DIORITE POINT

VERIDIAN POINT

BLACK ISLAND

LOW ROCKY POINT

ELLIOTT BAY

OCEAN

SOUTHERN

E.L. 40/85

@ 6 @ 7 @ 8 @ 9 @ 10 @ 11 @ 12

1 # 2 # 3 # 4 # 5

LEGEND

\# Magnetic anomalies investigated by Torrey et al (1987)

@ Magnetic anomalies recommended for further investigation by Bishop (1987)

NOTE: Survey for Tas. Mines Department 1985

88-2853

743171

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY — E.L. 40/85

AEROMAGNETIC CONTOURS

DRAWN BY : J.B.

DRAFTSMAN: T.G.D.S.

DATE : Jan. '87

REVISIONS :

FILE No.

SCALE 1:25000 500 0 500 1000 METRES

FIG. 8

MOORES VALLEY AIRSTRIP

WANDERER RIVER

RIVER

MAINWARING RIVER

MAINWARING CREEK

MT. OSMUND ▲368m

WART HILL ▲238m

CAMP 1

SASSY CREEK

WOLOGORDO CREEK

RIVER

HUDSON RIVER

LEWIS RIVER

BARREL CREEK

LITTLE ROCKY RIVER

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

PENDERS PROSPECT

DIORITE POINT

VERIDIAN POINT

BLACK ISLAND

LOW ROCKY POINT

SOUTHERN OCEAN

ELLIOTT BAY

E.L. 40 / 85

5 cm

7631

88-2853

743172

NOTES:

Survey by : Geometrics

Date : 1985

Line spacing : 500m

Height : 150m

Lineaments interpreted from processed images of aeromagnetic data.

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

AEROMAGNETIC LINEAMENTS

DRAWN BY : J.B.

DRAFTSMAN : T.G.D.S.

DATE : June '87

REVISIONS :

FILE No.

SCALE 1 : 25000

FIG. 9

MOORES VALLEY AIRSTRIP

WANDERER RIVER

MAINWARING RIVER

MT. OSMUND ▲368m

WART HILL ▲338m

WOOLOMOOLOO CREEK

LEWIS RIVER

HUDSON RIVER

BARREL CREEK

LITTLE ROCKY RIVER

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

PENDERS PROSPECT

DIORITE POINT

VERIDIAN POINT

BLACK ISLAND

LOW ROCKY POINT

OCEAN

SOUTHERN

ELLIOTT BAY

E.L. 40 / 85

5 cm

743173

7632

88-2853

NOTES:

Survey by : Mines Department

Date : 1986/87

Contour Interval : 1 mgal

Regional helicopter-borne survey accurate to about 0.5 mgal.

..... Geopeko detailed surveys (Sumpton, 1982)

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

REGIONAL BOUGUER GRAVITY CONTOURS

DRAWN BY : J.B.

DRAFTSMAN : T.G.D.S.

DATE : June '87

REVISIONS :

FILE No.

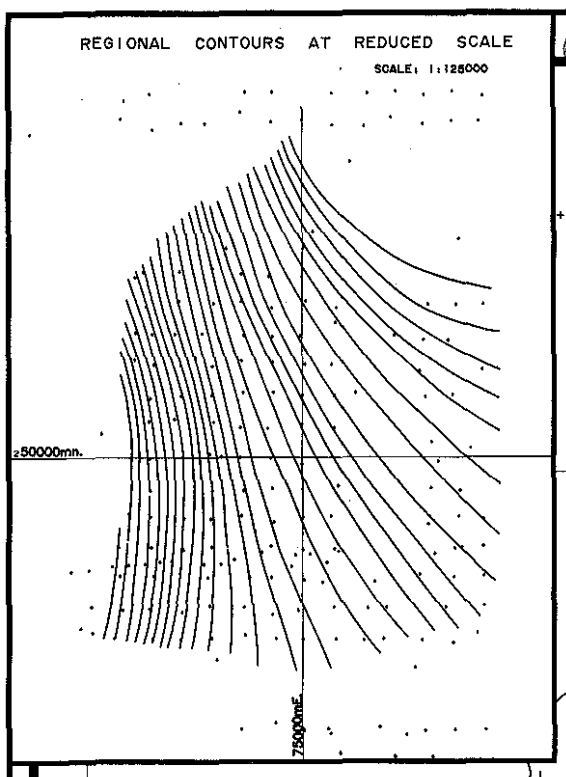
SCALE 1 : 25000

METRES

FIG. 10

REGIONAL CONTOURS AT REDUCED SCALE

SCALE: 1:125000



MOORES VALLEY AIRSTRIP

WANDERER RIVER

MANWARING

MT. OSMUND ▲368m

WART HILL ▲238m

WATERLOO CREEK PROSPECT

LEWIS RIVER PROSPECT

DIORITE POINT

VERIDIAN POINT

PENDERS PROSPECT

BLACK ISLAND

LOW ROCKY POINT

DRAKE CREEK PROSPECT

SOUTHERN OCEAN

ELLIOTT BAY

E.L. 40 / 85

5 cm

NOTES:

Survey by : Mines Department

Date : 1986/87

Contour interval : 0.5 mgal

Residual values determined by subtraction of hand drawn regional from corrected data.

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CM/MG87/11

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

RESIDUAL BOUGUER GRAVITY CONTOURS

DRAWN BY : J.B.

DRAFTSMAN : T.G.D.S.

DATE : June '87

REVISIONS :

FILE No.

SCALE 1 : 25000

FIG. 11

88-2853

743174

7633

78000m E.
80000mE
2000m E.

AEM 69

MT. OSMUND
△ 368m

LEGEND
Aeromagnetic
I
Resistivity
VLF
UTEM
SP
AEM

52000m N.
50000m N.
48000m N.

14600 N
14200 N
13800 N
13400 N.
13000 N.
12600 N.
12200 N.
11800 N
11600 N
11200 N
10800 N
9600 N
9200 N
8800 N
8400 N
8000 N
7600 N
7200 N

V33/1 (185m)
V33/2 (116m)
V09/1 (200m)
V19/1 (160m)
V19/3 (130m)
WART △238m
V19/2 (180m)
V24/4 (220m)
V24/2 (25m)
V24/1 (28m)
V24/3 (27m)
V9/2
V9/3
V9/1 (60m)

CREEK
COPPER CREEK
SASSY CREEK
CAMP
WATERLOO CREEK PROSPECT

AEM 30
approx.

AEM 62
GRID
100 N
00 N
100 S
200 E
450 W
50 E

AEM 46
850 W
225 W

1500 E
10000 E
11500E
13200 N
14000 N
10850 N
11750 N
11350 N

5 cm

GRID CONVERGENCE 1.2°
GRID/MAGNETIC ANGLE 12.5°

743175 7634

CM/MG87/11

CYPRUS INERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85
WART HILL
GEOPHYSICAL ANOMALY
COMPILATION

DRAWN BY : J.B
DRAFTSMAN : T.G.D.S.
DATE : Jan.'88
REVISIONS :
FILE No.

SCALE 1 : 10000
200 0 200 400
METRES

FIG. 23

LEGEND

- Aeromagnetic
- IP
- Resistivity
- VLF
- UTEM
- SP
- AEM

V12/4 (47m)
V12/5 (164m)
V12/1 (31m)
V12/2 (90m)
V12/3 (47m)
V2/6 (200m)
V2/1 (33m)
V2/5 (55m)
V2/2 (47m)
V2/3 (42m)
V2/4 (31m)
V3/1 (?)
V3/3 (201m)
V3/2 (?)

LEWIS RIVER PROSPECT
DRAKE CREEK PROSPECT
ELLIOTT BAY

82000m E. 84000m E. 86000m E.
8800 N 8600 N
10900 E 10000 E
400 N 200 N 00 200 S 400 S 600 S
10400 N 10200 N 10000 N 9800 N 9600 N 9400 N 9200 N 9000 N 8800 N 8600 N 8400 N 8200 N
10000 E
46000m N.
10325 N 9800 N
10000 E 44000m N.
LEWIS RIVER
BARREL CREEK
ROCKY RIVER
LITTLE
13000 E 42000m N.
12300 E 9600 N
9600 E
10000 N
E.L. 40 / 85 40000m N.

GN TN MN
GRID CONVERGENCE 1.2°
GRID/MAGNETIC ANGLE 12.5°

5 cm

743176 7635

CM/MG87/11

88-2853

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.	
ELLIOTT BAY – E.L. 40/85 V 3 TO V 12 GEOPHYSICAL ANOMALY COMPILATION	DRAWN BY : J.B. DRAFTSMAN : T.G.D.S. DATE : Jan.'88 REVISIONS : FILE No.
SCALE 1 : 10000 200 0 200 400 METRES	FIG. 24

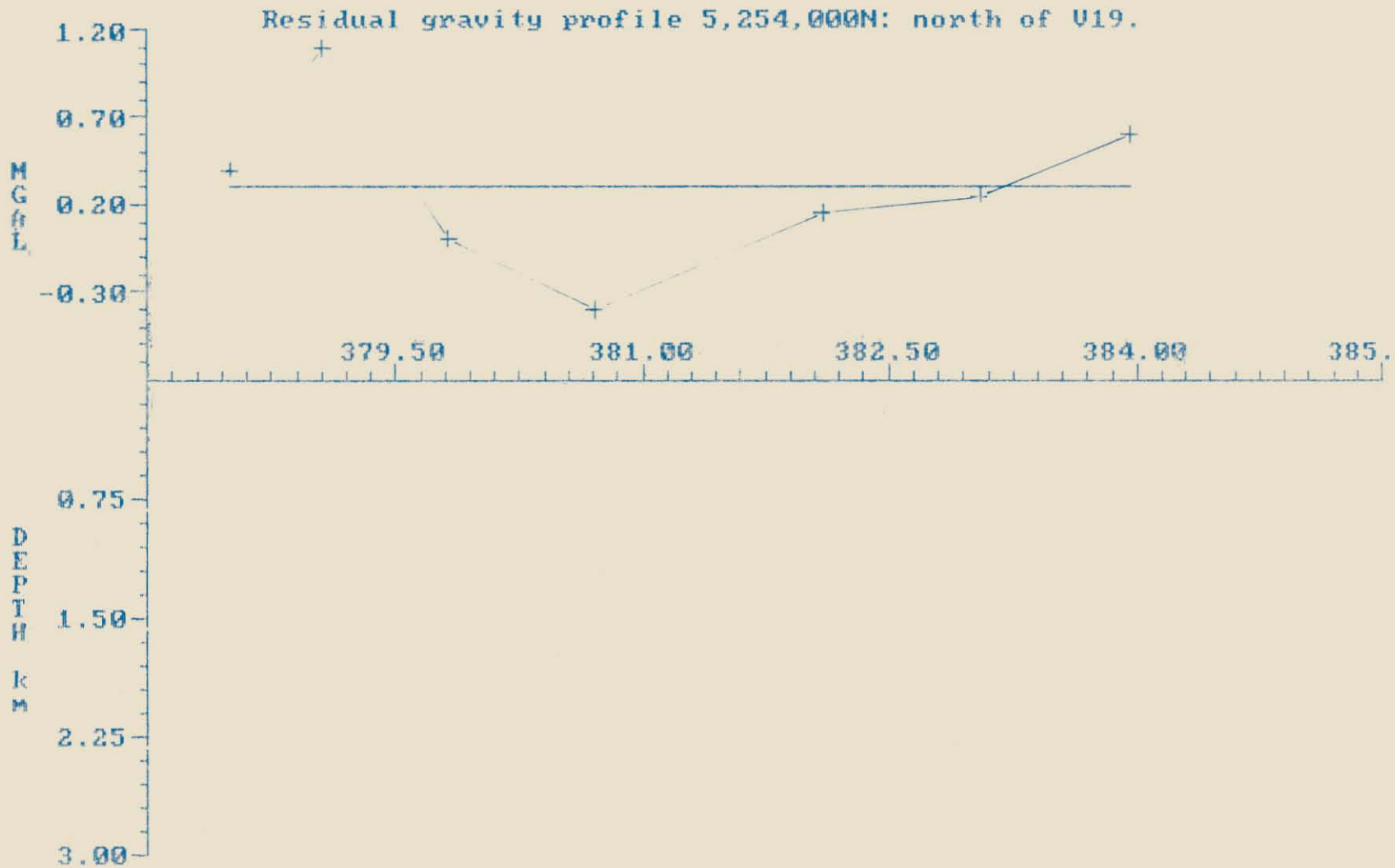
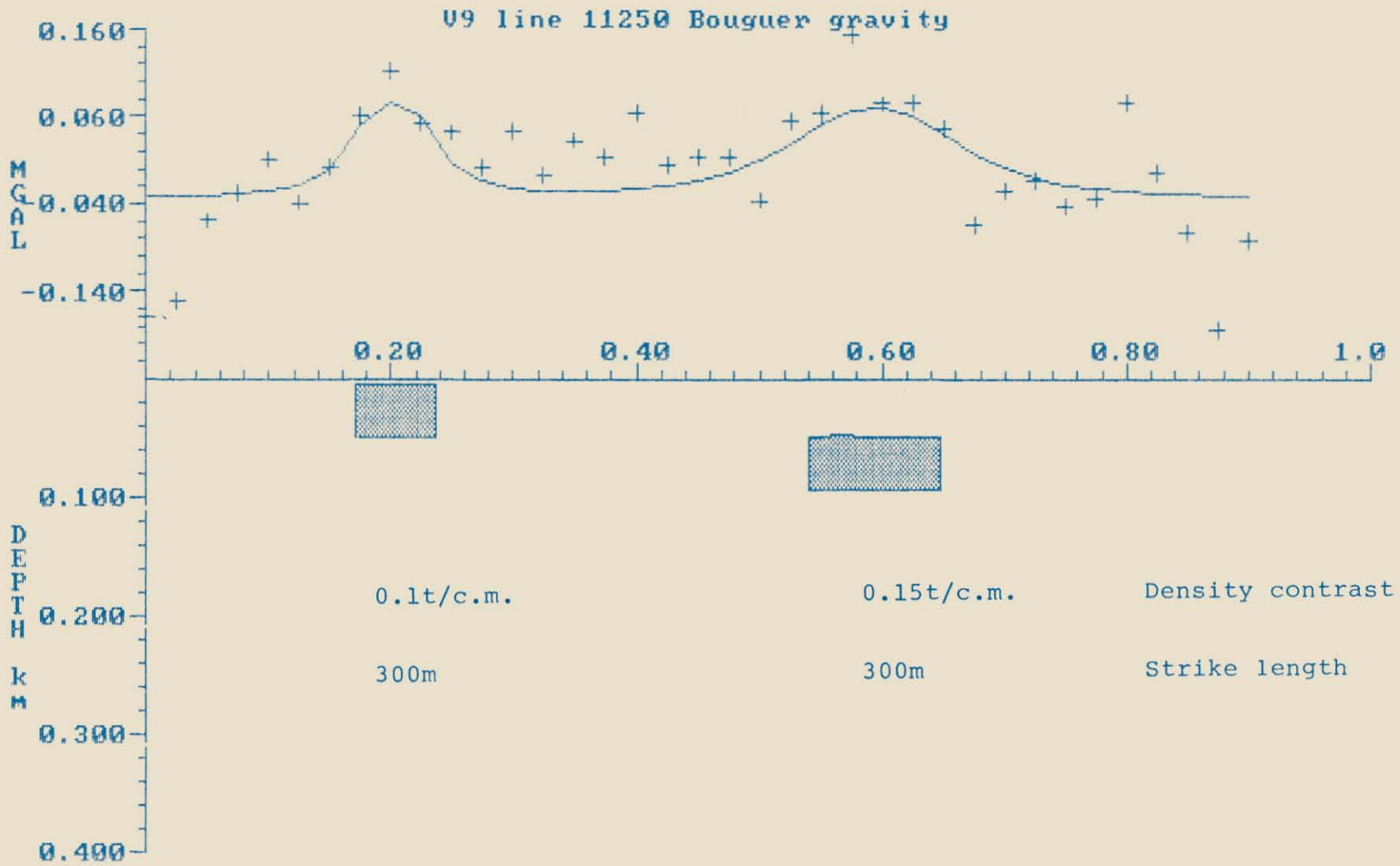

Residual gravity profile 5,254,000N: north of V19.
1.20
0.70
0.20
-0.30
MGAL
379.50
381.00
382.50
384.00
385.
0.75
1.50
2.25
3.00
DEPTH km

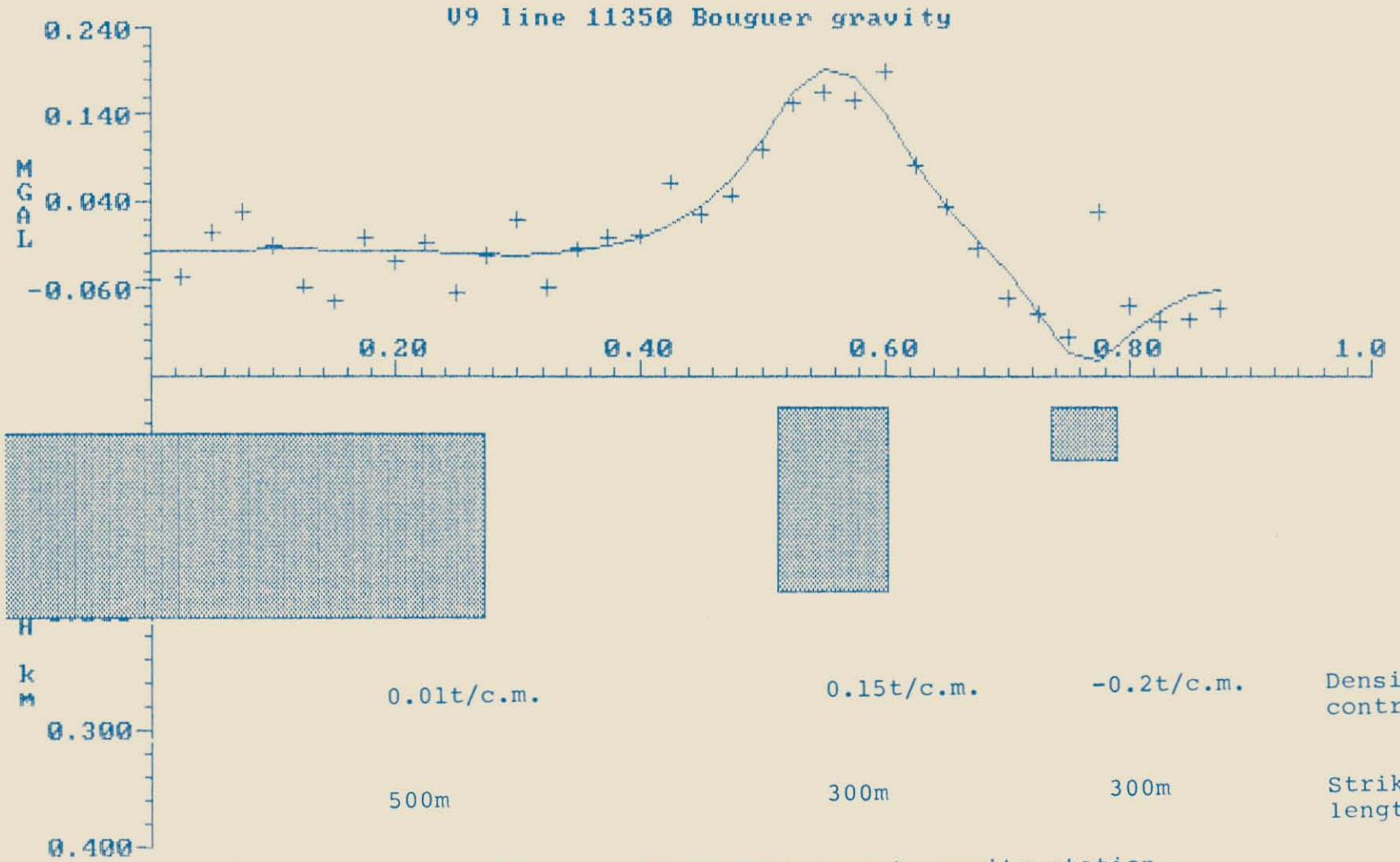
Figure 12.



n.b. Arbitrary eastings: 00E is westernmost gravity station.

Figure 13.

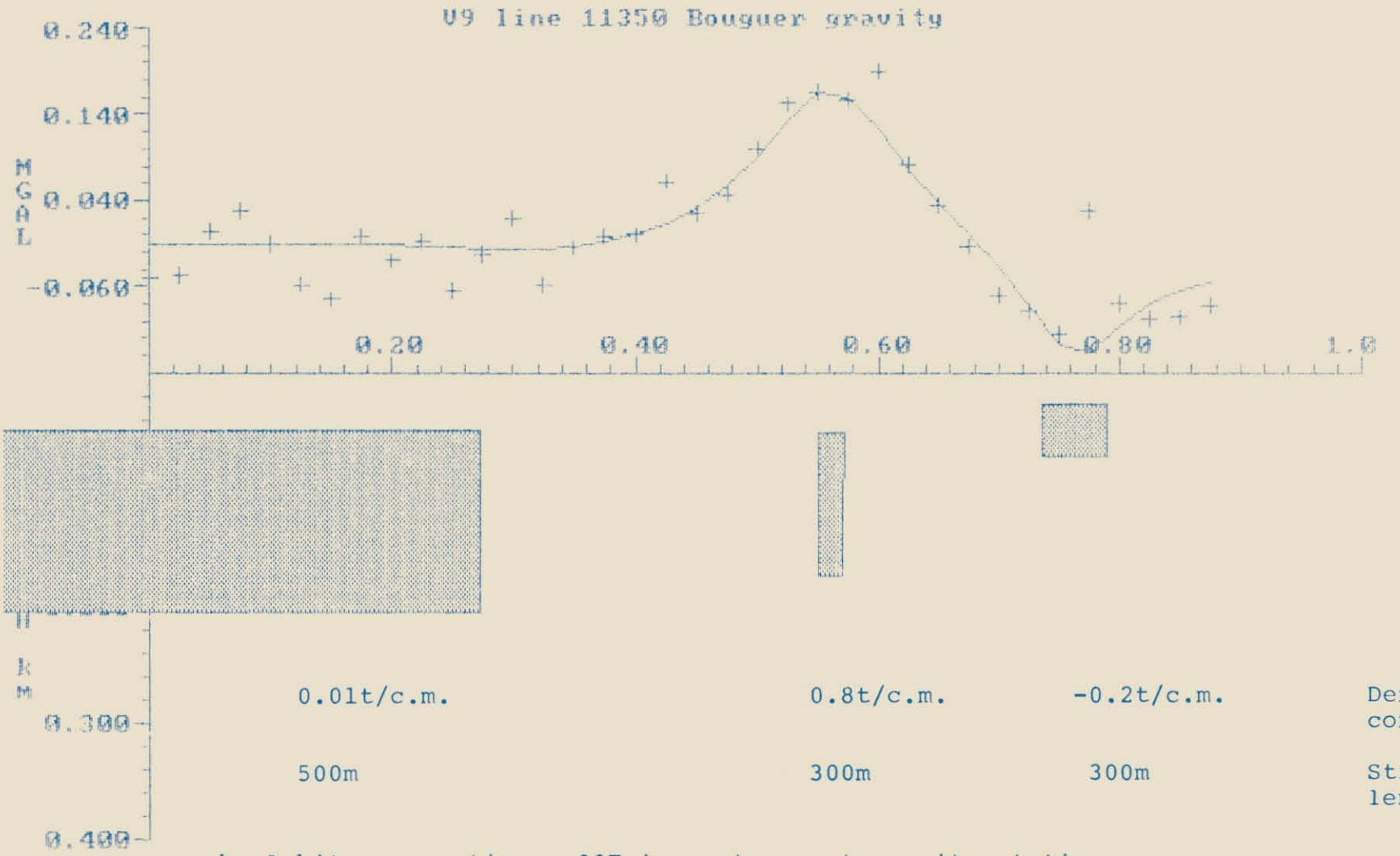
743178



n.b. Arbitrary eastings: 00E is westernmost gravity station.

Figure 14a.

74317/9



n.b. Arbitrary eastings: 00E is westernmost gravity station.

Figure 14b.

743180

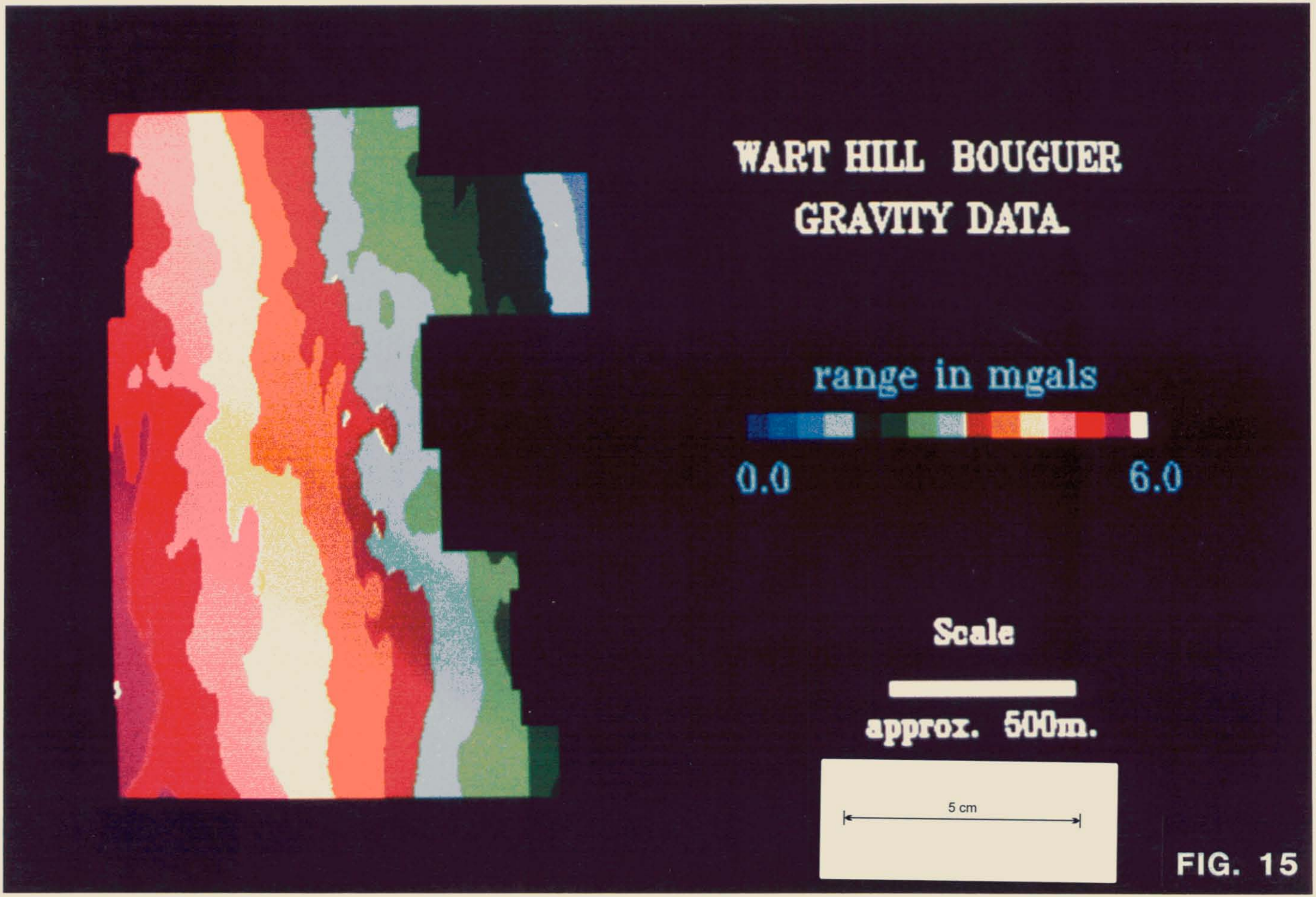


FIG. 15

7431181

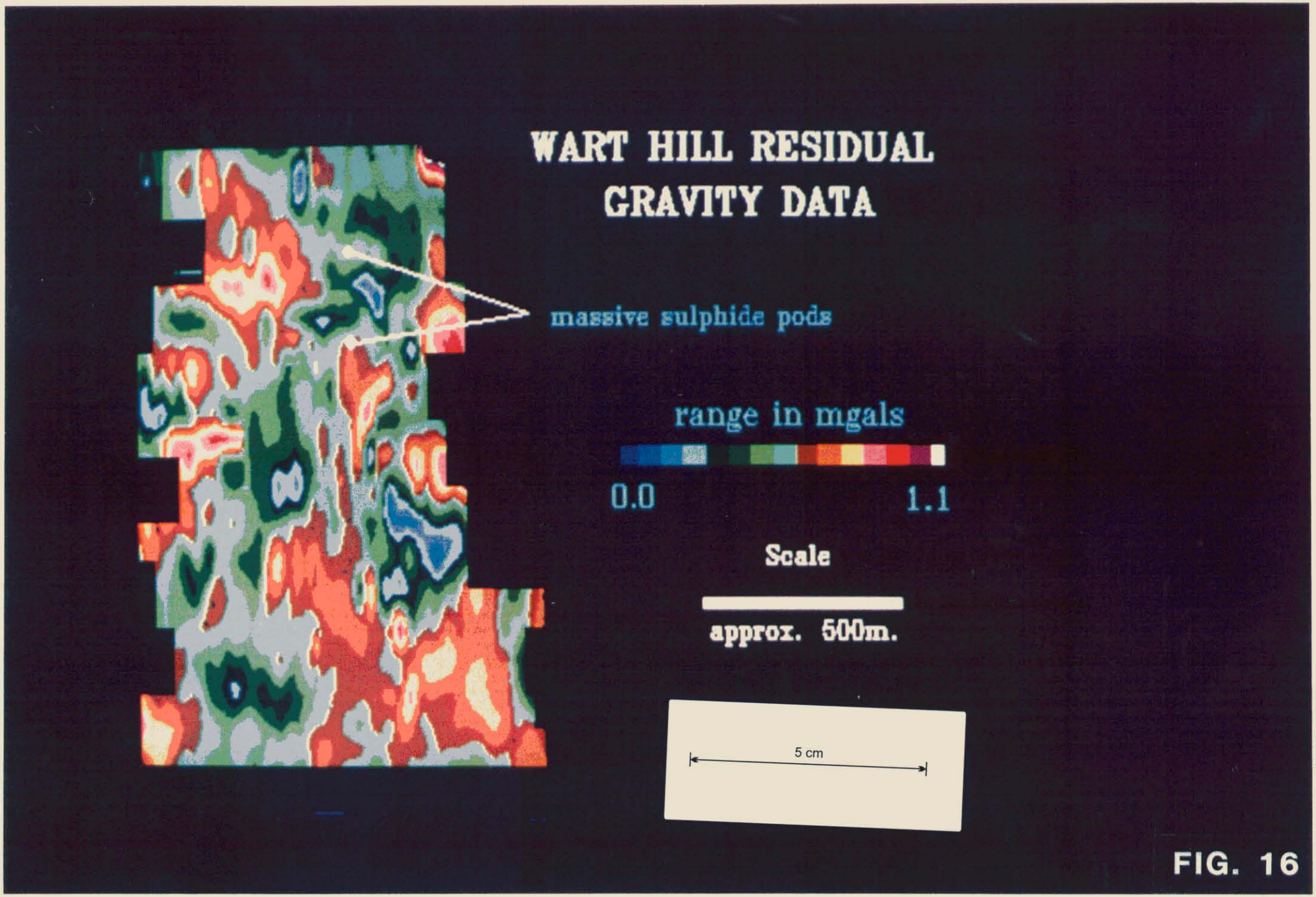
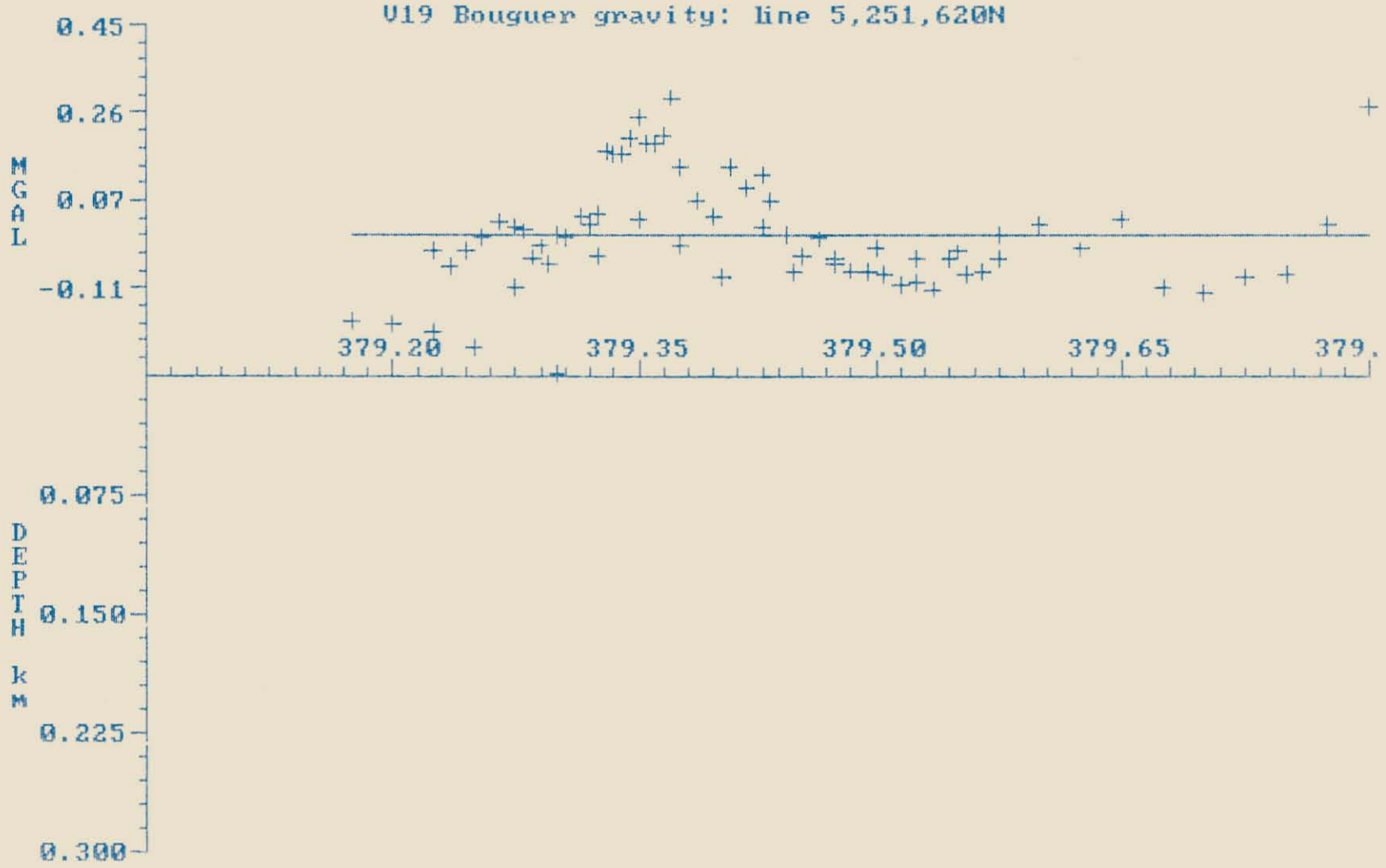
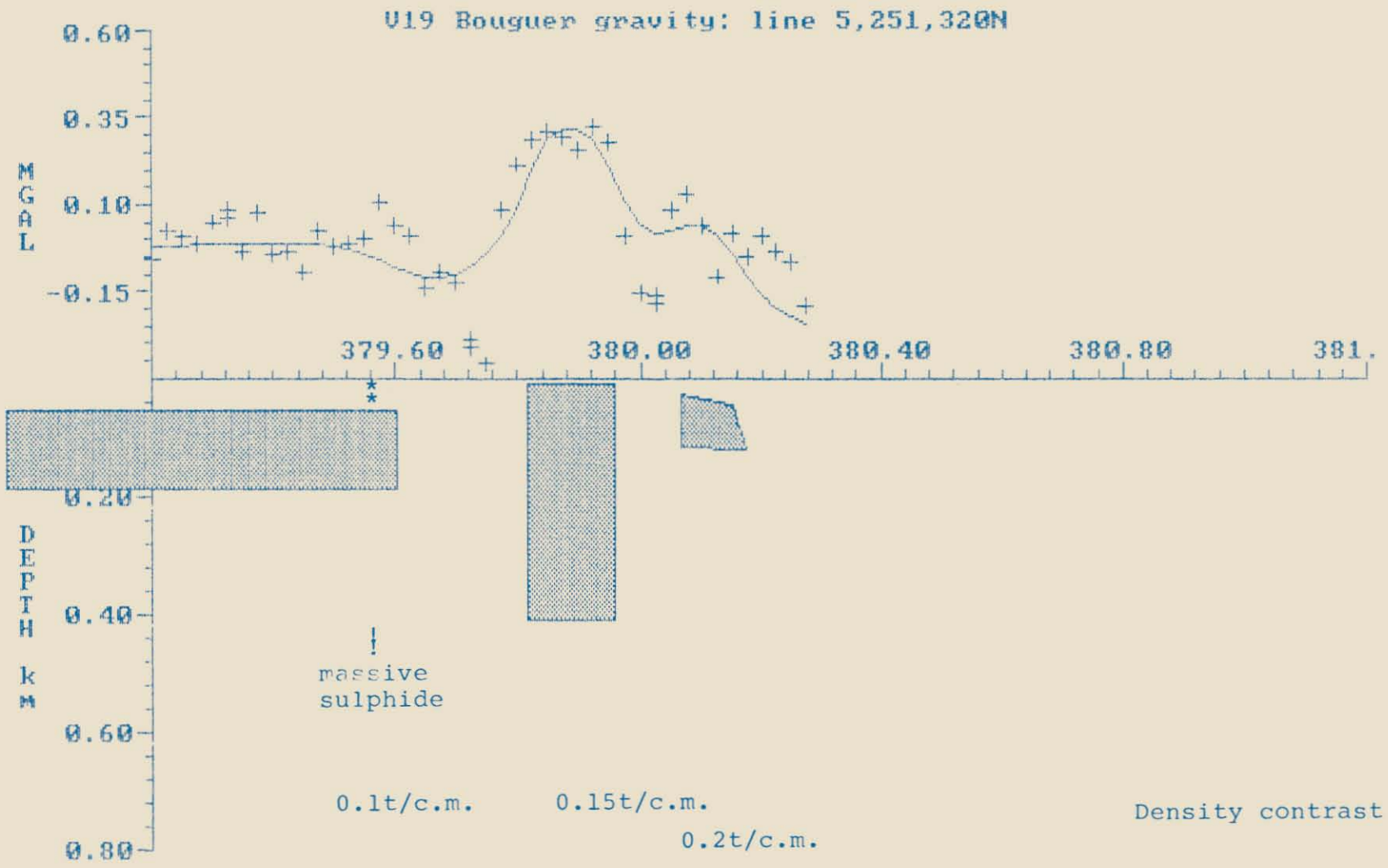

WART HILL RESIDUAL
GRAVITY DATA
massive sulphide pods
range in mgals
0.0
1.1
Scale
approx. 500m.
5 cm

FIG. 16



74318.3

Figure 17.



74318A

Figure 18.

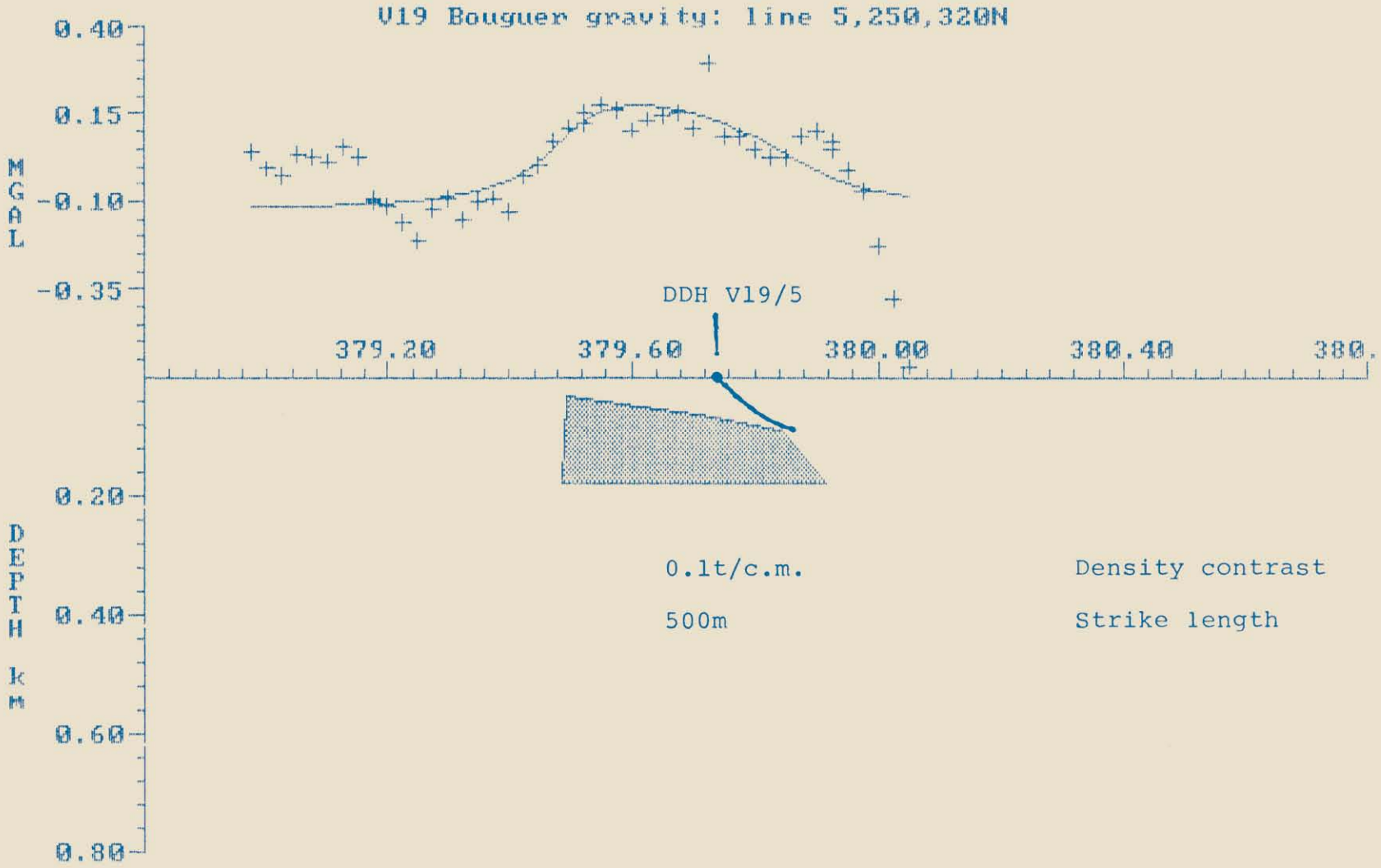


Figure 19.

74131 83

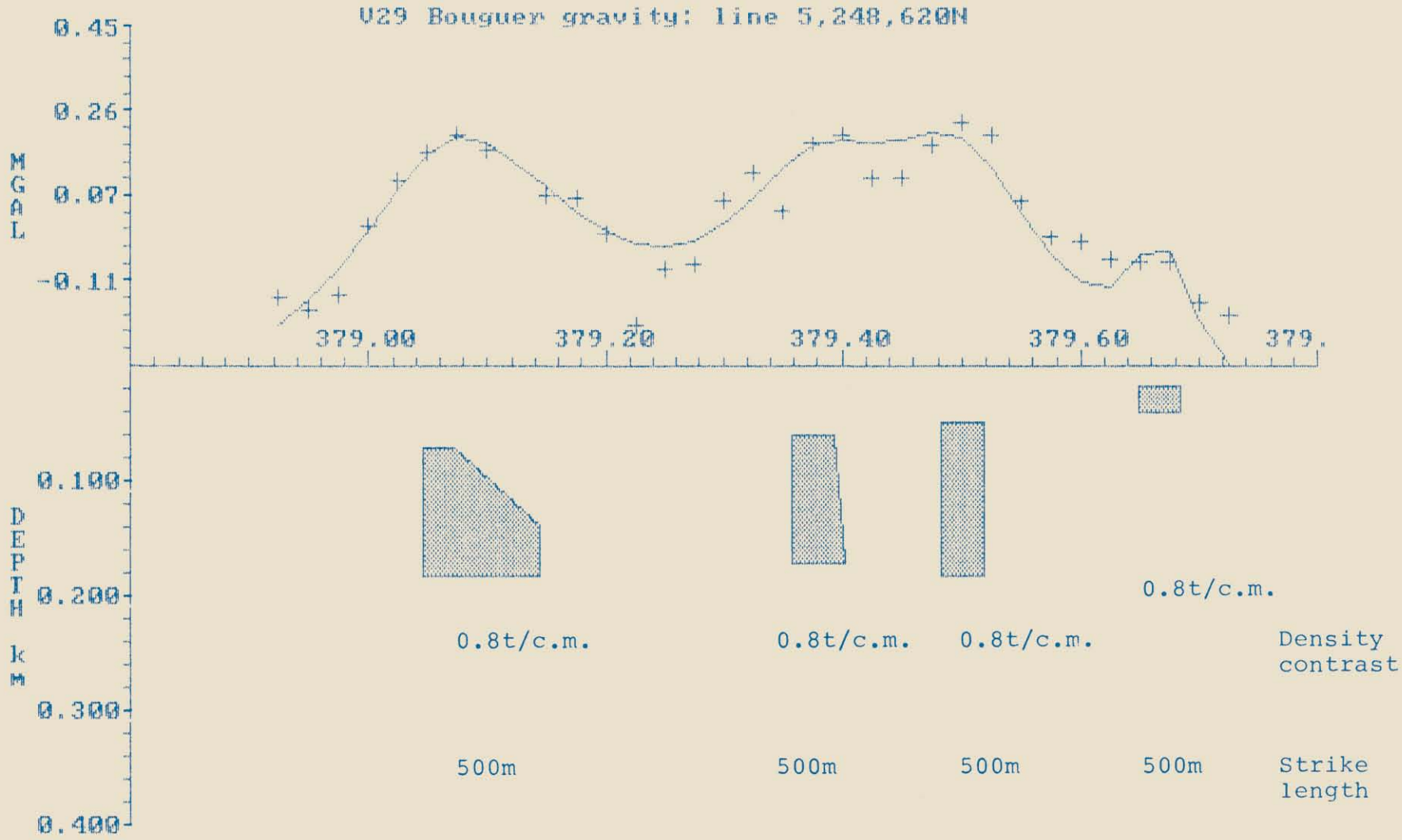


Figure 20.

743186

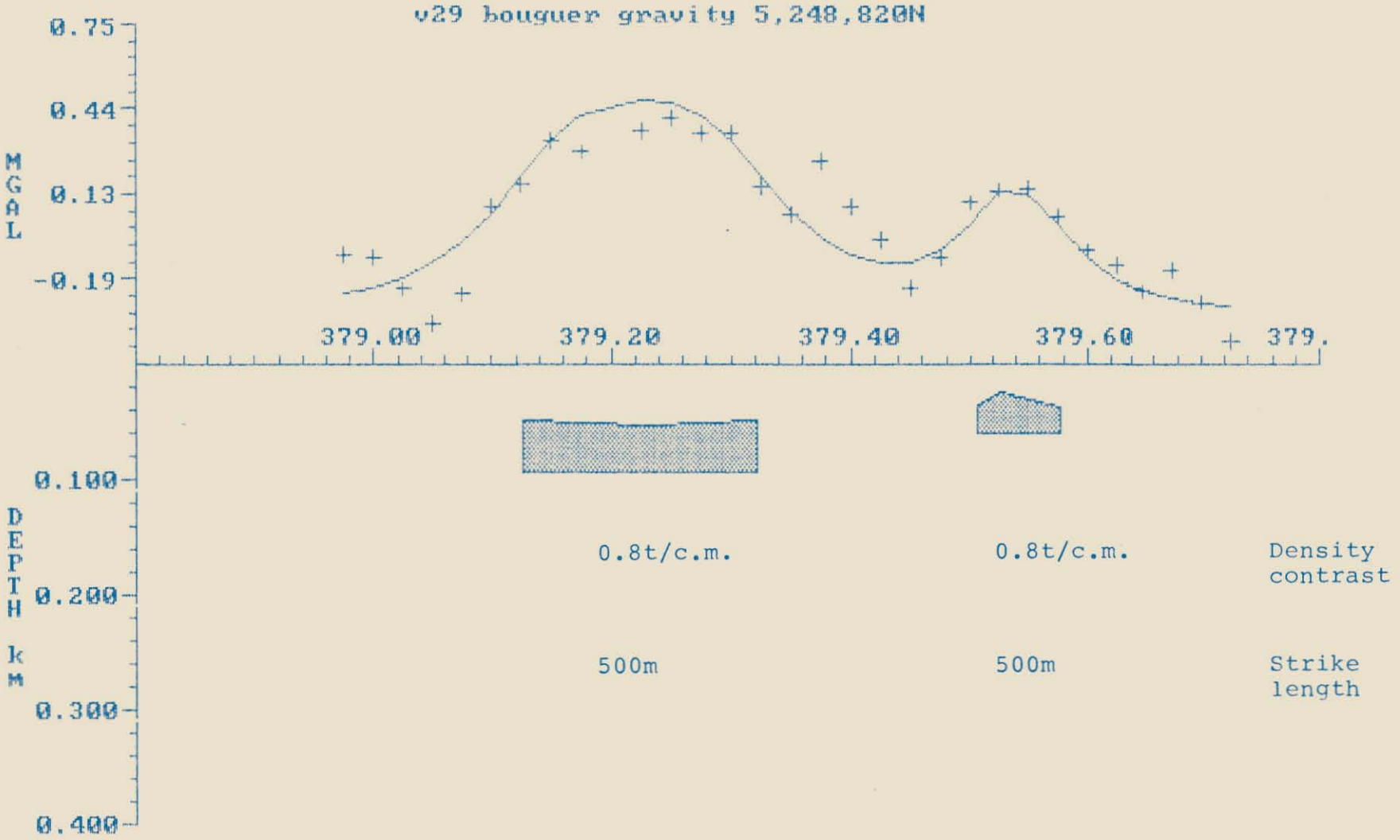
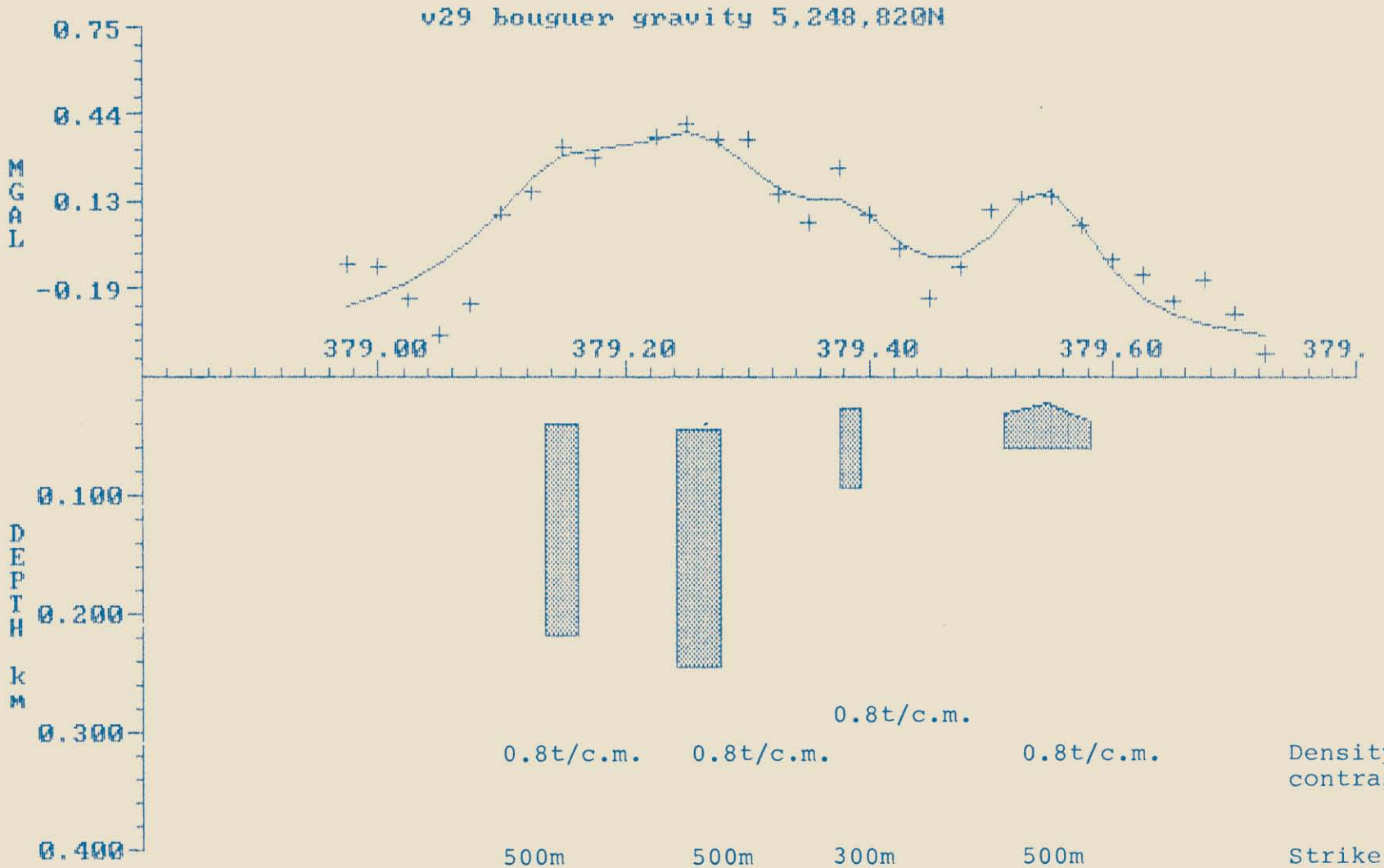

v29 bouguer gravity 5,248,820N
0.75
0.44
0.13
-0.19
MGAL
379.00
379.20
379.40
379.60
379.
0.100
0.200
0.300
0.400
DEPTH km
0.8t/c.m.
0.8t/c.m.
Density contrast
500m
500m
Strike length

Figure 21a.



C.R.A. 1983

Figure 21b.

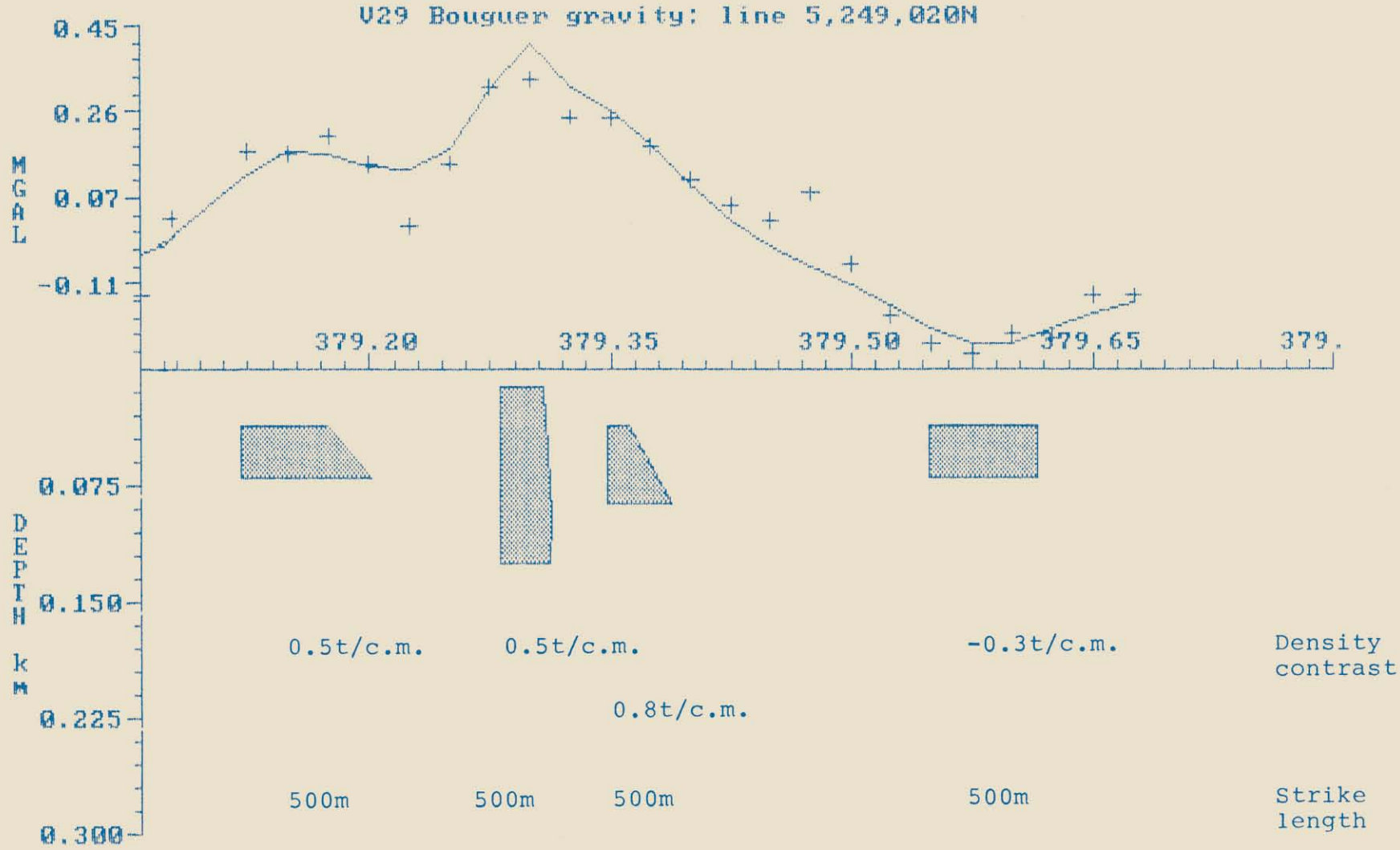


Figure 22.

7431889

APPENDIX 2

REPORT ON DOWNHOLE SIROTEM SURVEYS WART HILL, TASMANIA (INCLUDES PROFILES)

By Steve Collins

REPORT ON DOWNHOLE SIROTEM SURVEYS
WART HILL, TASMANIA

By Steve Collins

Of seven holes drilled by Cyprus on the Wart Hill prospect in the 1987/88 field season, six have been logged using the downhole Sirotem technique. The work was done by McSkimming Geophysics late in the field season and consisted of readings every 5 meters downhole with 200 meter square transmitter loops both east and west of the north-south striking prospective horizon. Drillholes WH1, WH2 and WH4 to WH7 were each logged with both transmitters and two time bases, resulting in a total of 24 downhole profiles. It was found that the early time results did not provide any more information than the standard time data and hence only the latter are considered here.

The primary observations resulting from examination of the data are that:

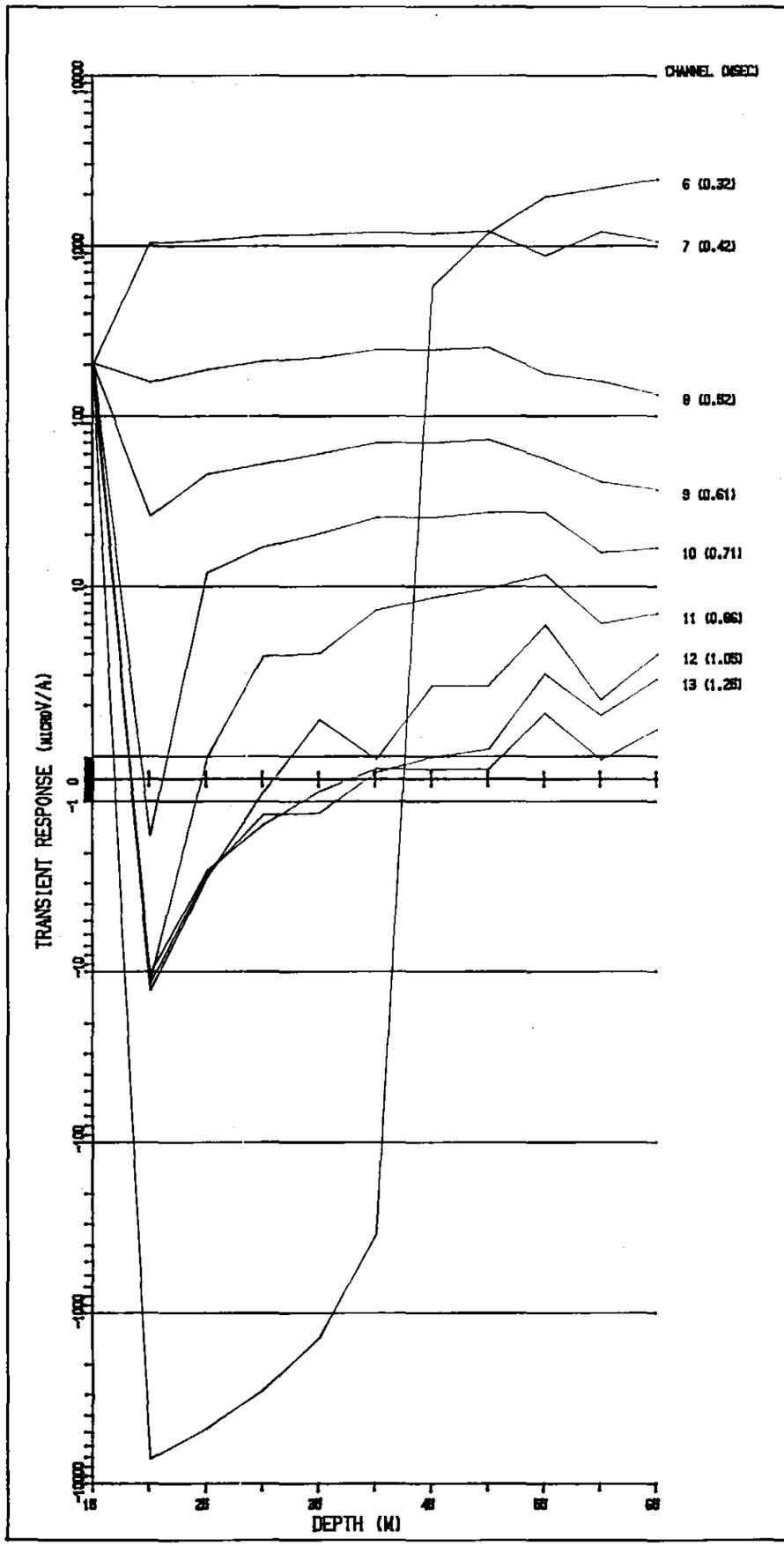
- Sulfide mineralization intersected in the drillholes did not respond at all to the system
- No obvious off hole anomalies are seen in the data for planes perpendicular to the drilled holes.

Possible causes of the lack of response to the sulfide intersections are either that the mineralization is not conducting or that it is too small to respond to the system. The latter is considered the most likely. Crude tests on the core for conductivity using a multimeter gave ambiguous results.

Although no clear off hole anomalies can be observed in the data, several of the drillholes exhibit some variation of response which may be interpreted as possible off hole responses past the end of the hole. In particular drillholes WH5 and WH7. As this response is excited only by the western transmitter loop a westerly dip is implied. The responses are only partly measured and it is not possible to measure the distance off hole or decay rate from these.

It is suggested that further drilling in the area assume a westerly dip and possible conductors beneath the end of holes WH5 and WH7.

743192



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

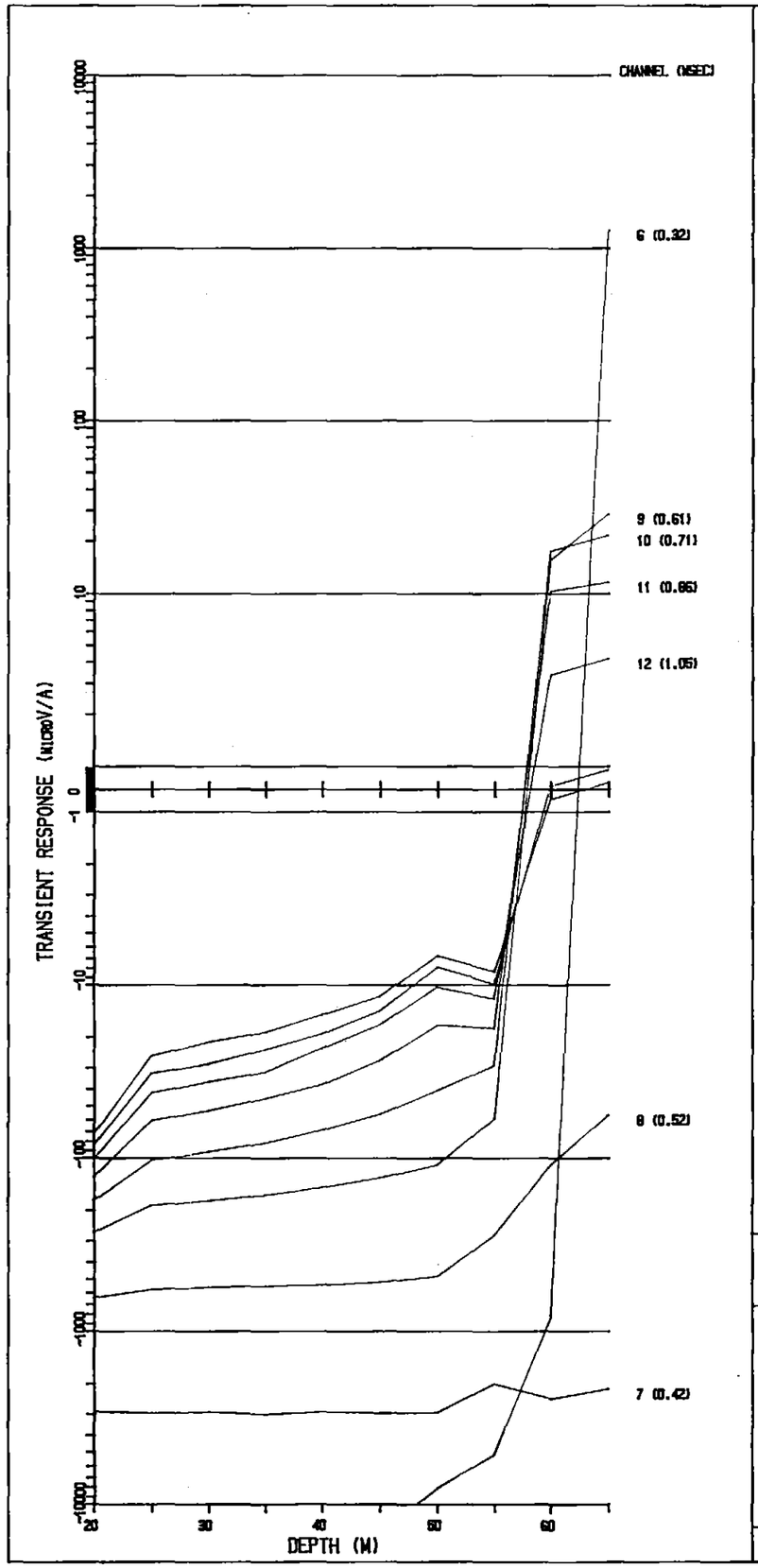
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH1 LOOP 1

SCALE - 1:500

88-2853

181

743193



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

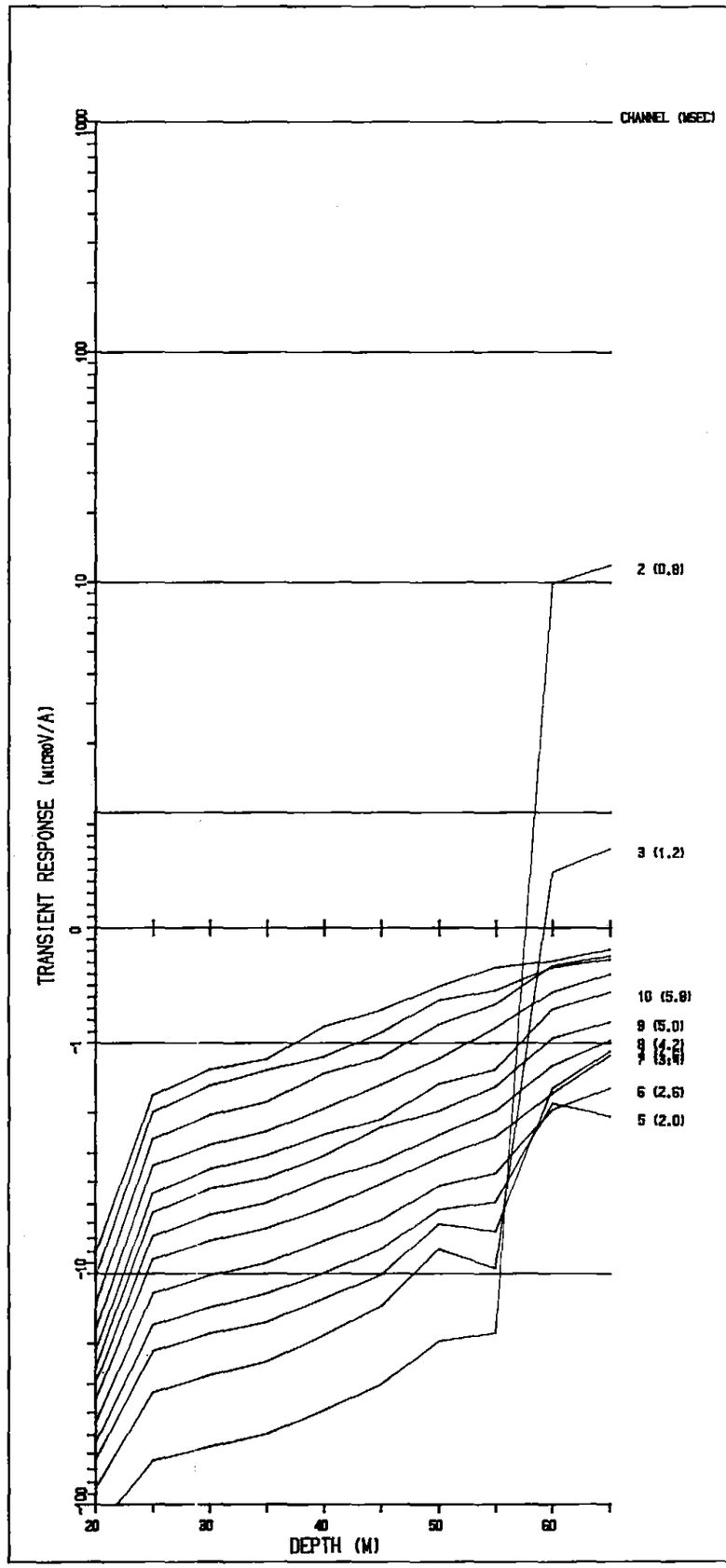
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH1 EAST LOOP

SCALE - 1:600

88-2853

182

743194



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

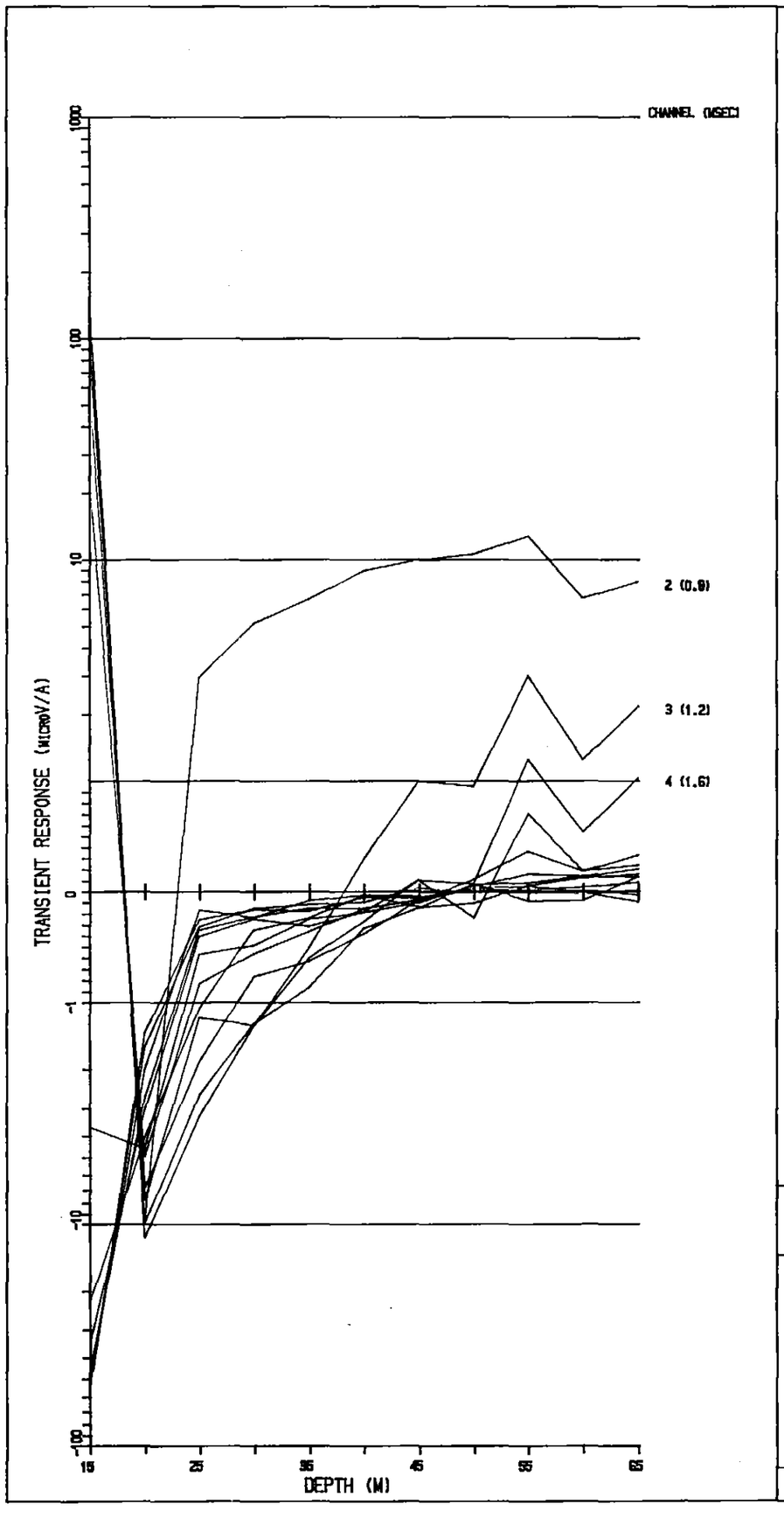
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH1 EAST LOOP

SCALE - 1:500

88-2853

123

743195



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

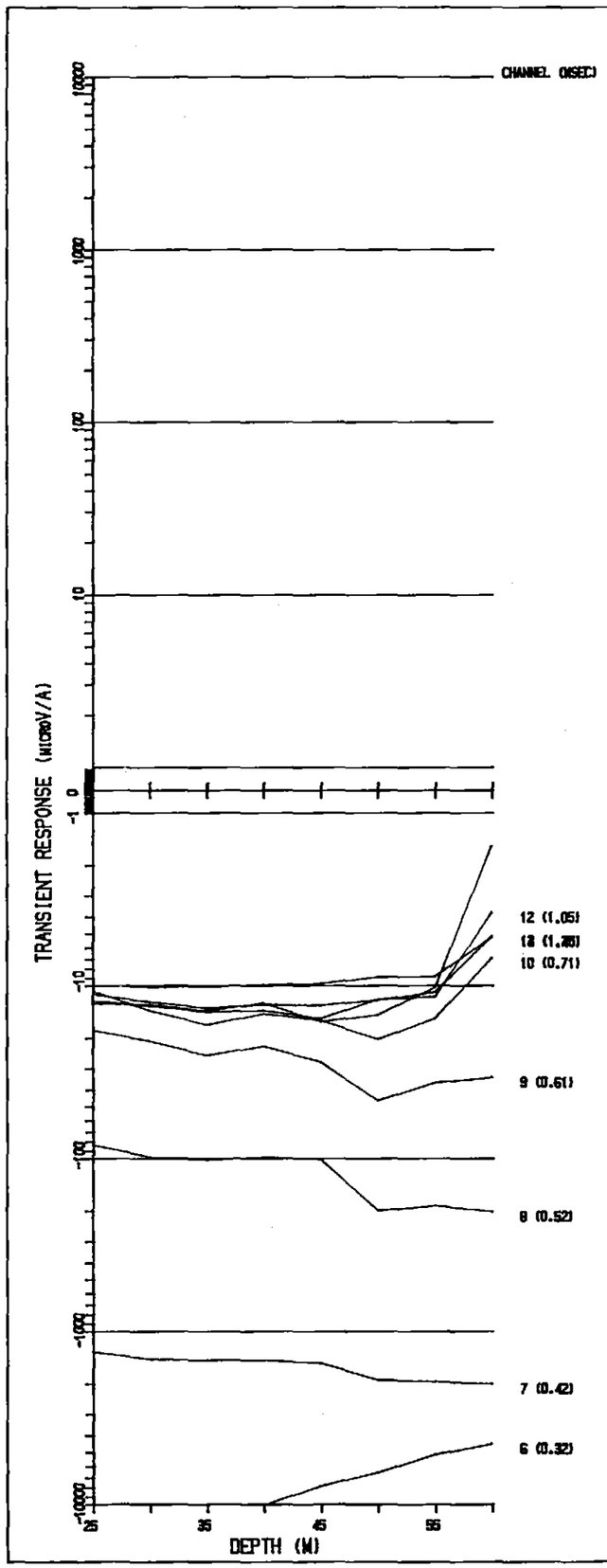
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH1 WEST LOOP

SCALE - 1:500

184

88-2853

T43100



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP,
DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

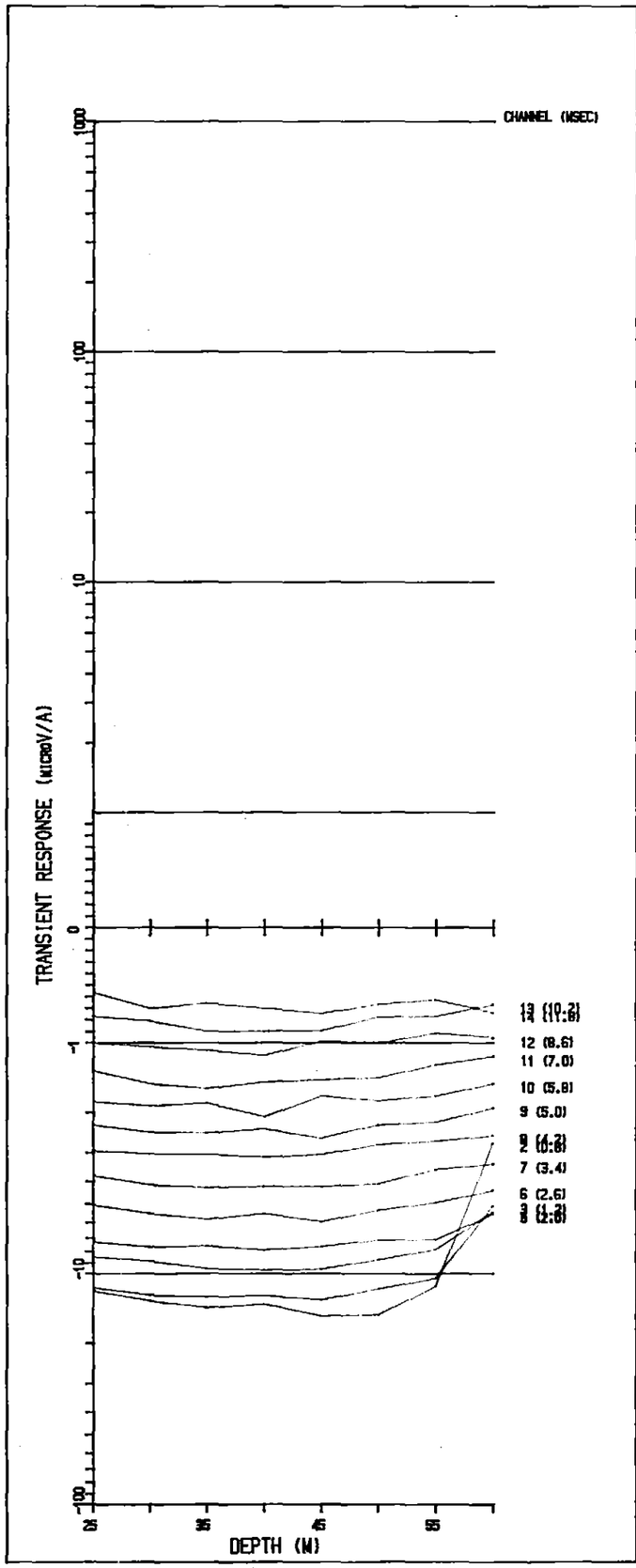
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH2 EAST LOOP

SCALE - 1:500

FILE
NO.
02-2853
135

88-2853
126

743197



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP,
DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA

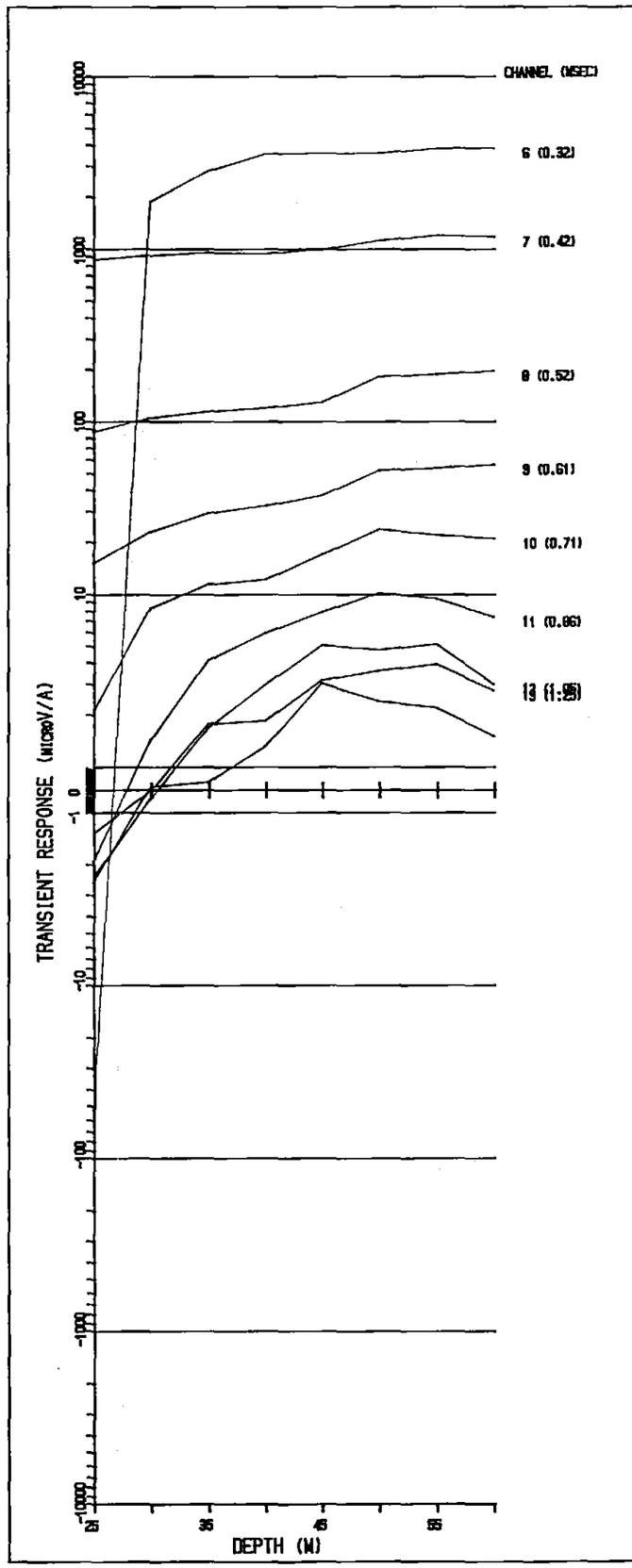
WART HILL

SIROTEM PROFILE

LINE WH2 EAST LOOP

SCALE - 1:500

743198



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

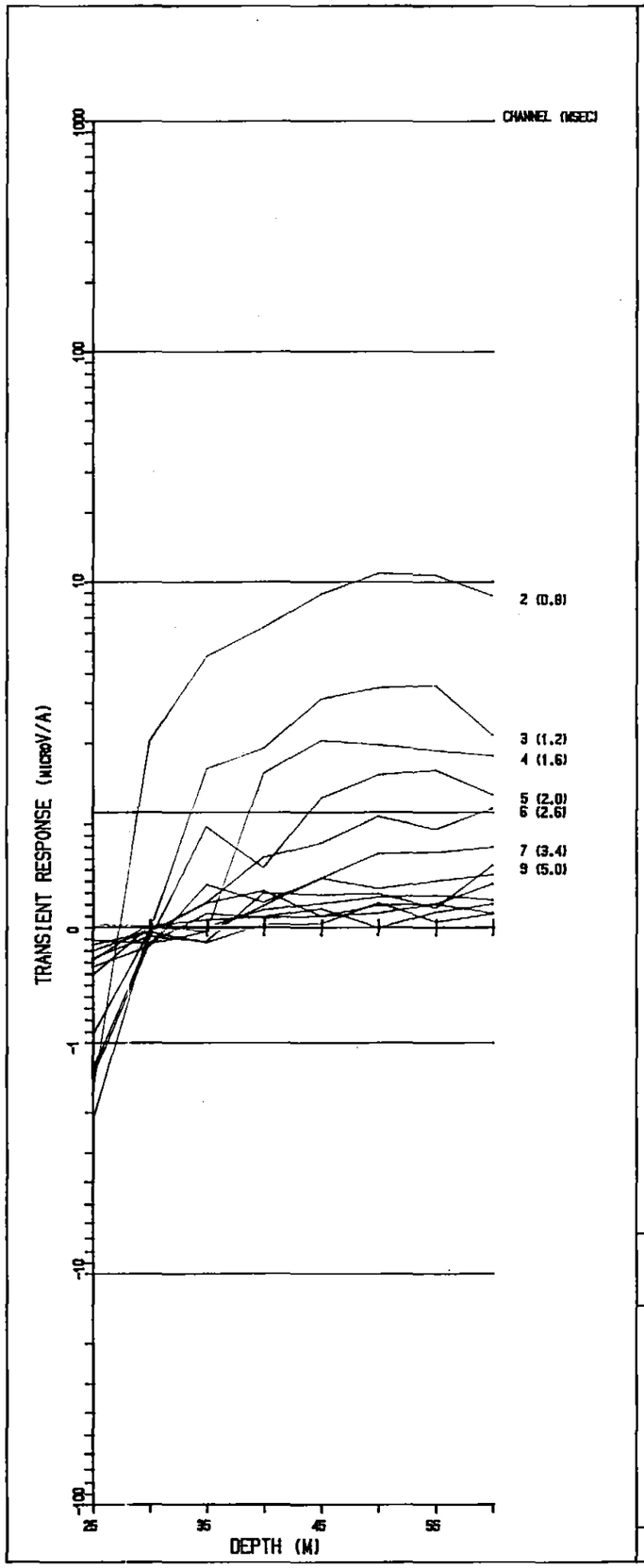
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH2 WEST LOOP

SCALE - 1:500

88-2853

127

743199



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP,
DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA

WART HILL

SIROTEM PROFILE

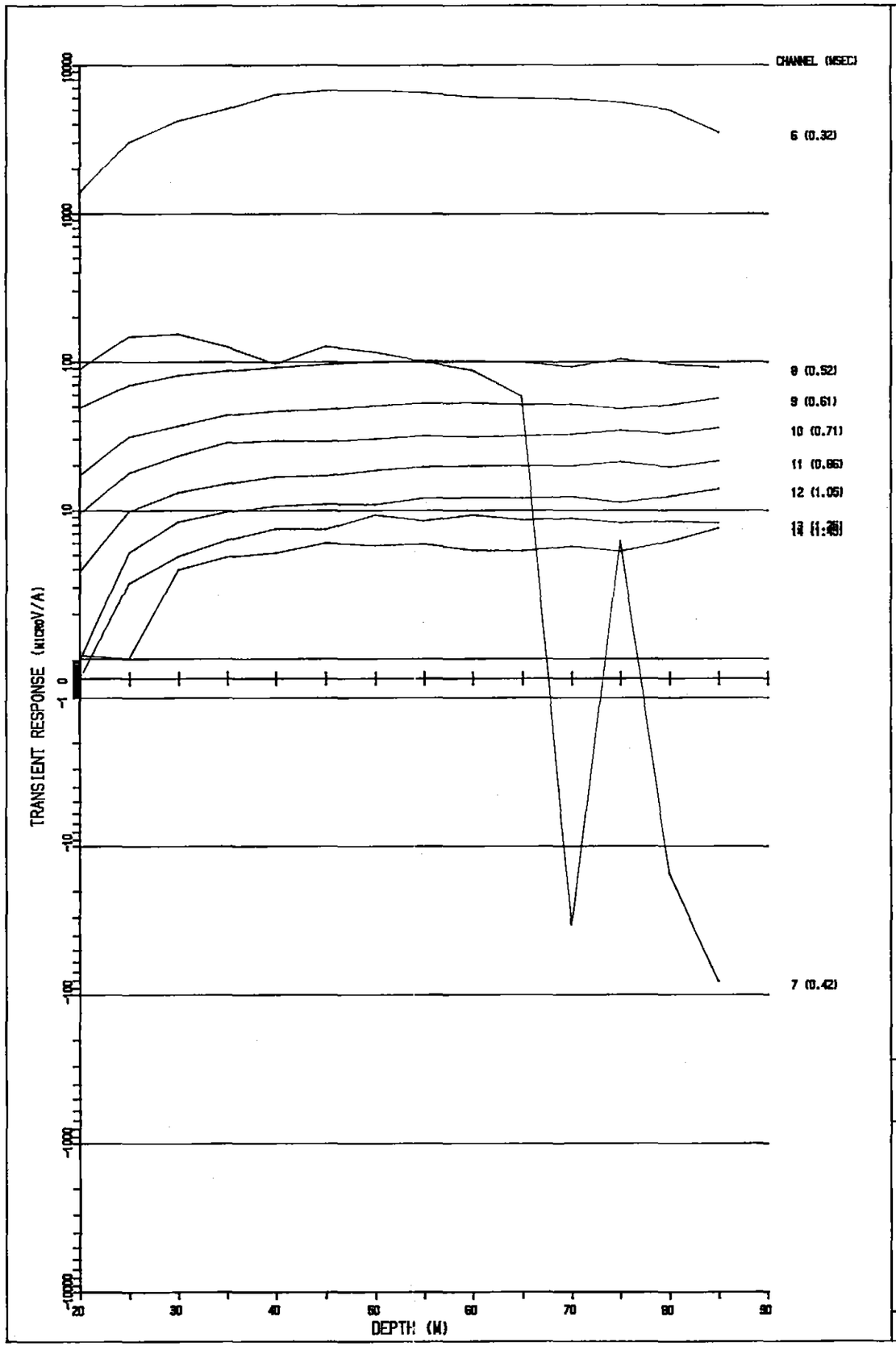
LINE WH2 WEST LOOP

SCALE - 1:500

88-2853

138

743200



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

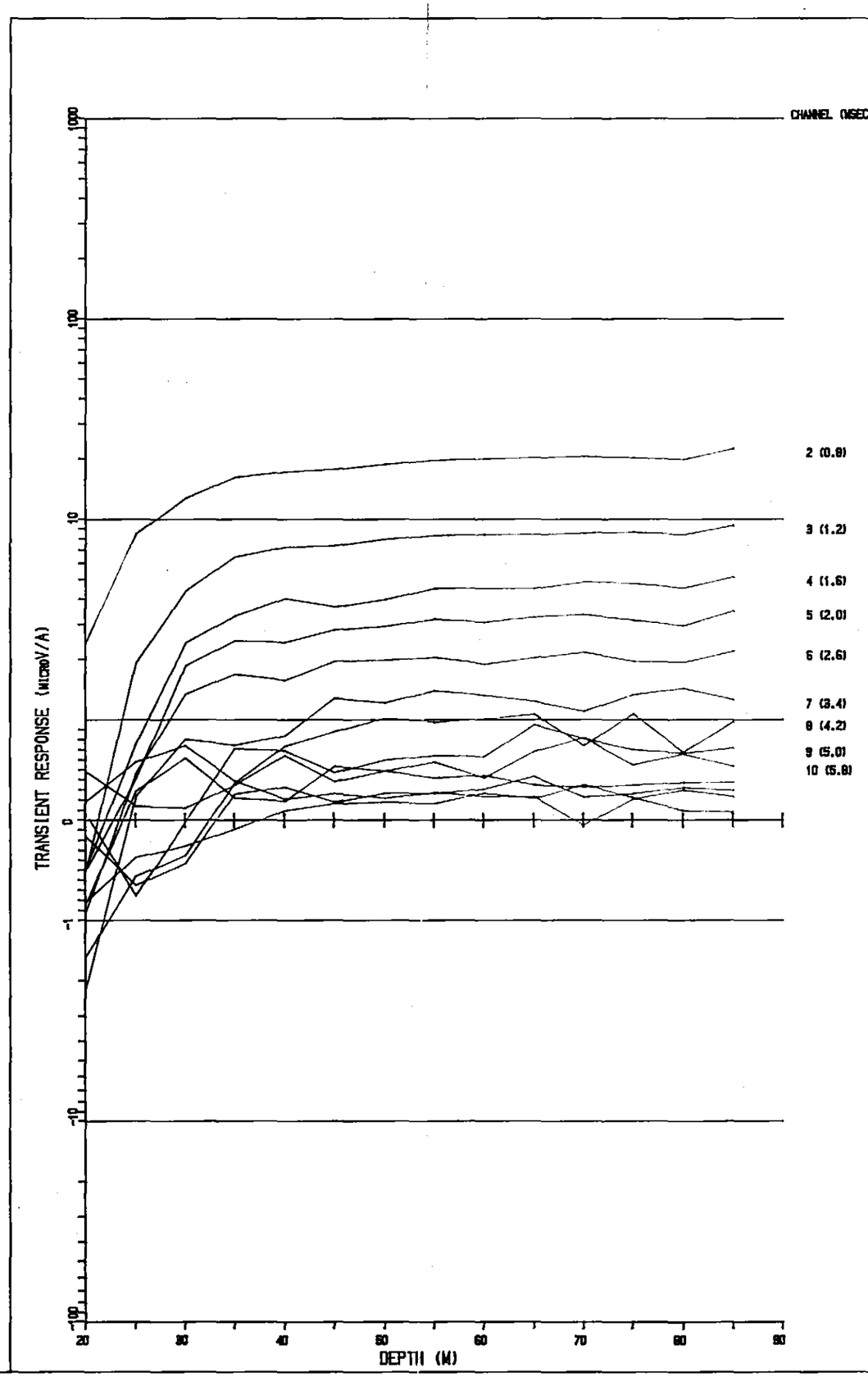
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH4 EAST LOOP

SCALE - 1:500

88-2853

123

743201



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA

WART HILL

SIROTEM PROFILE

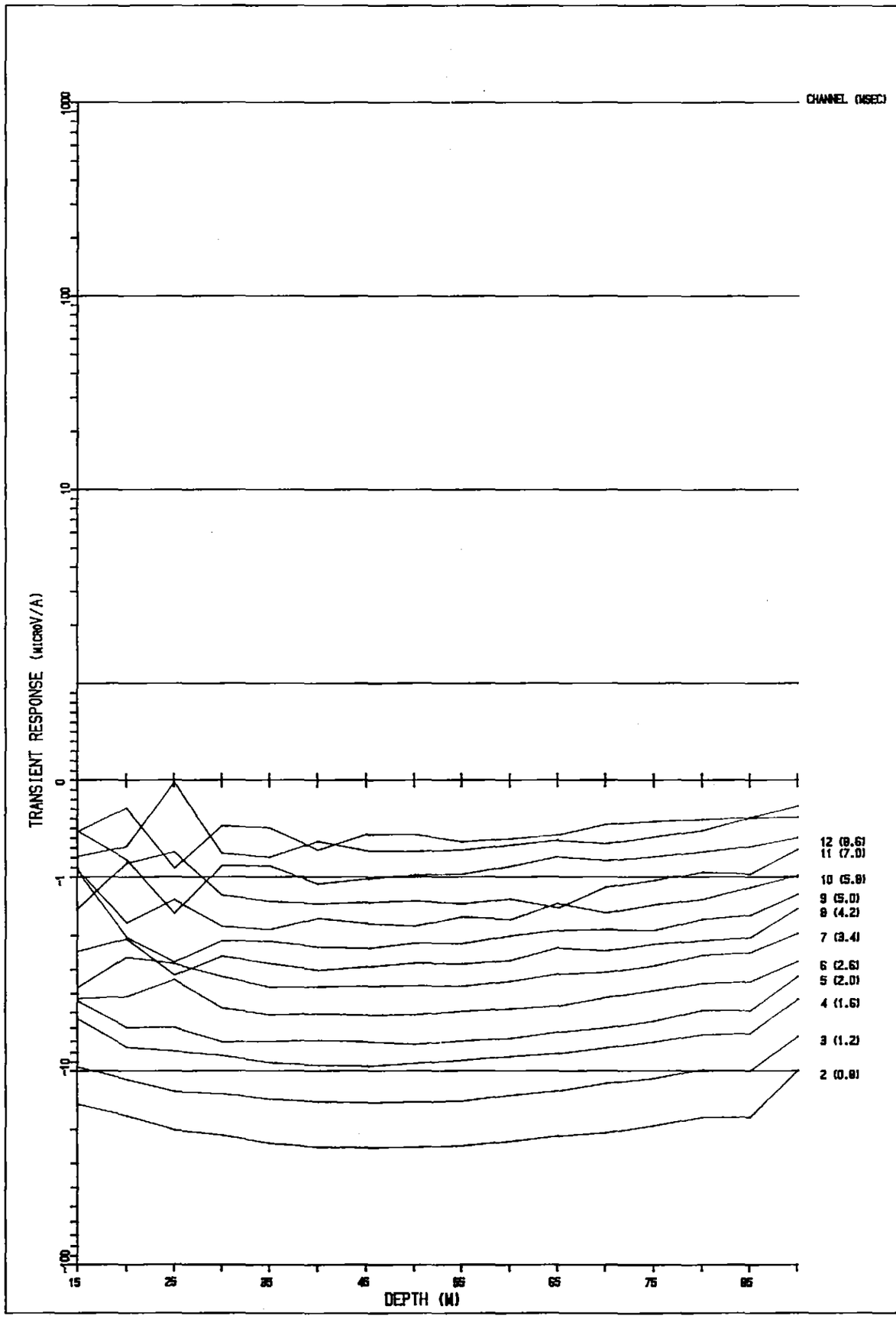
LINE WH4 EAST LOOP

SCALE - 1:500

88-2853

130

743202



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA

WART HILL

SIROTEM PROFILE

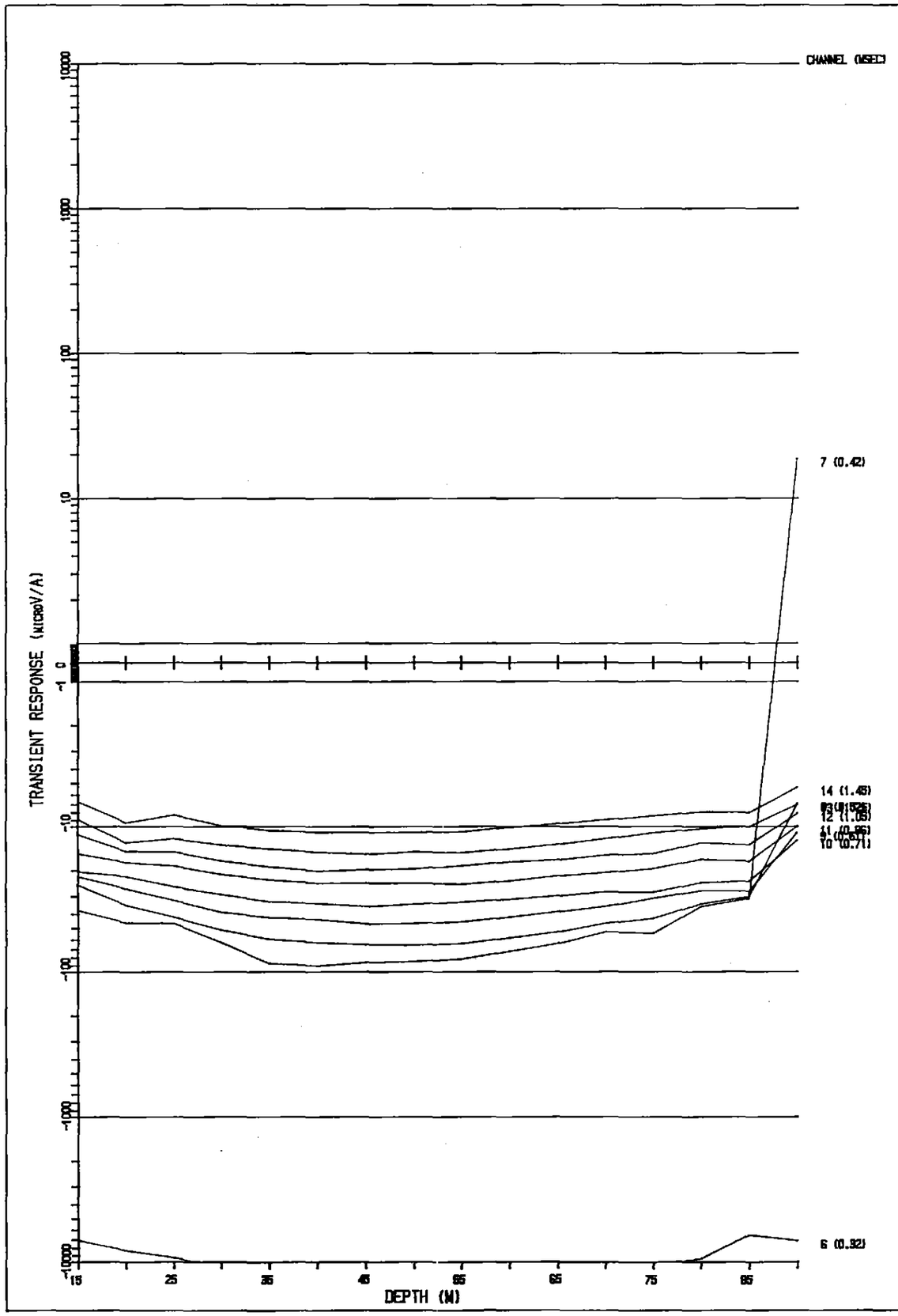
LINE WH4 WEST LOOP

SCALE - 1:500

88-2853

151

743203



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

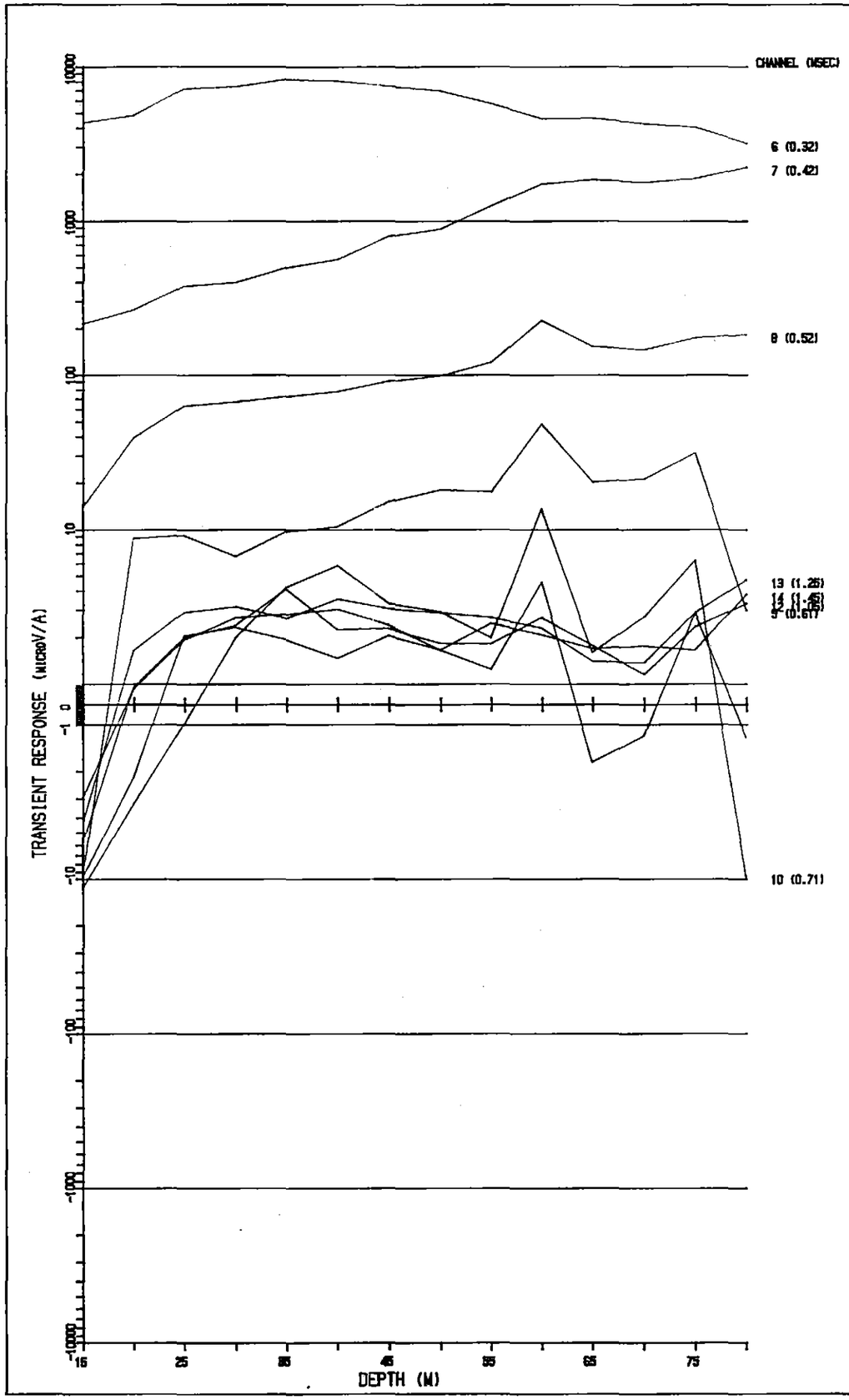
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH4 WEST LOOP

SCALE - 1:500

88-2853

702

743204



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:600
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

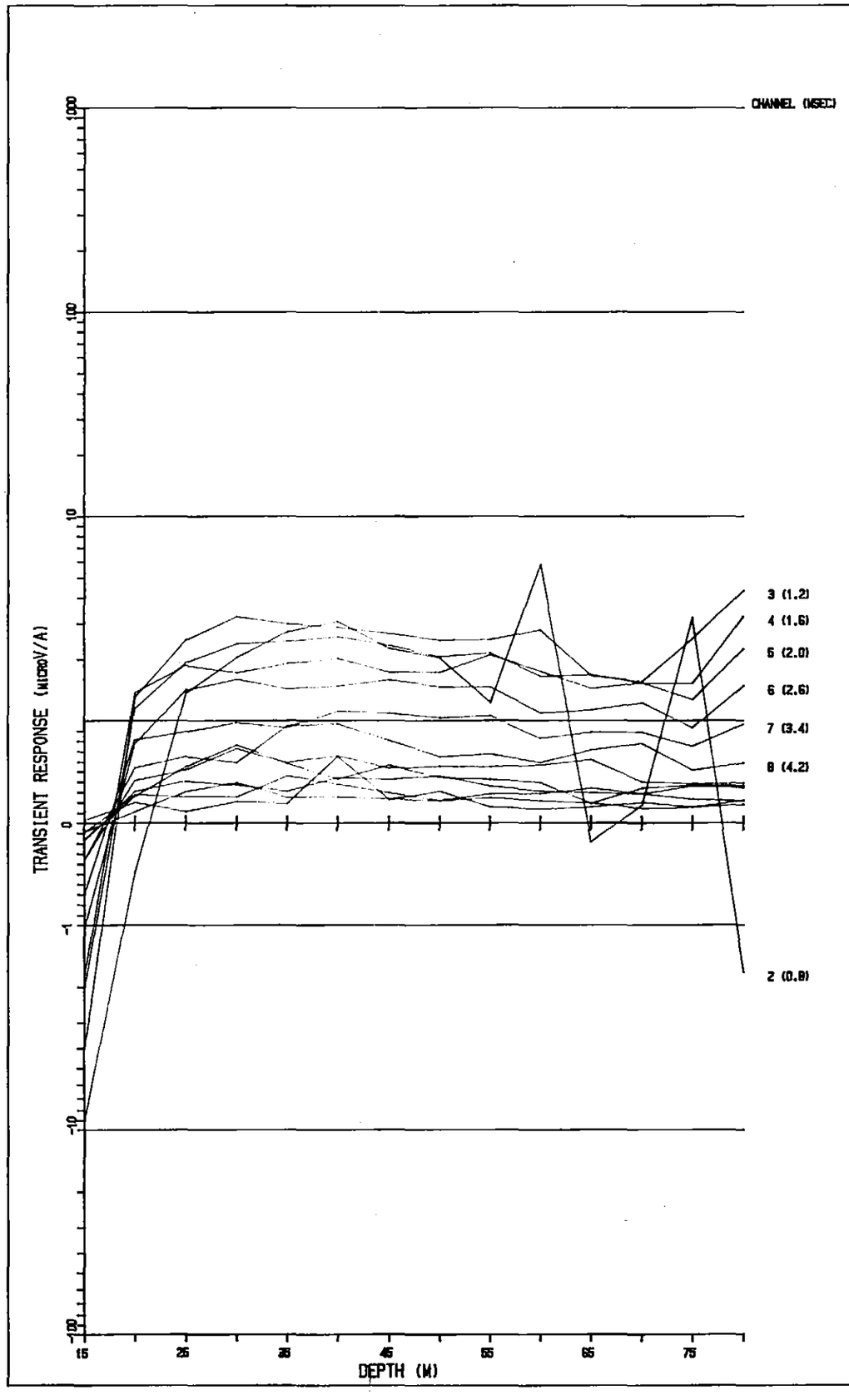
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH5 EAST LOOP

SCALE - 1:600

88-2853

133

743205



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP,
DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

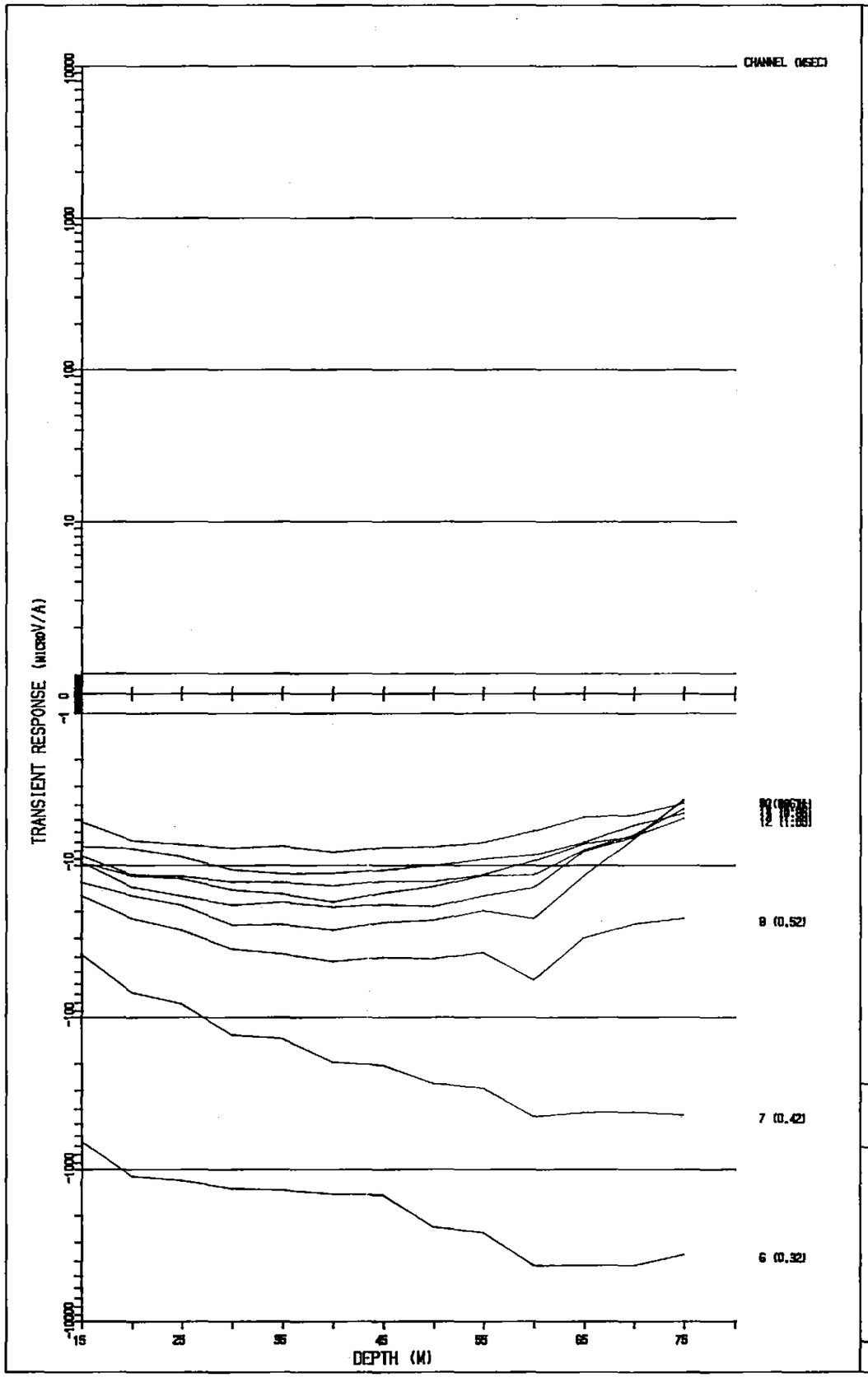
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH5 EAST LOOP

SCALE - 1:500

88-2853

194

743206



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

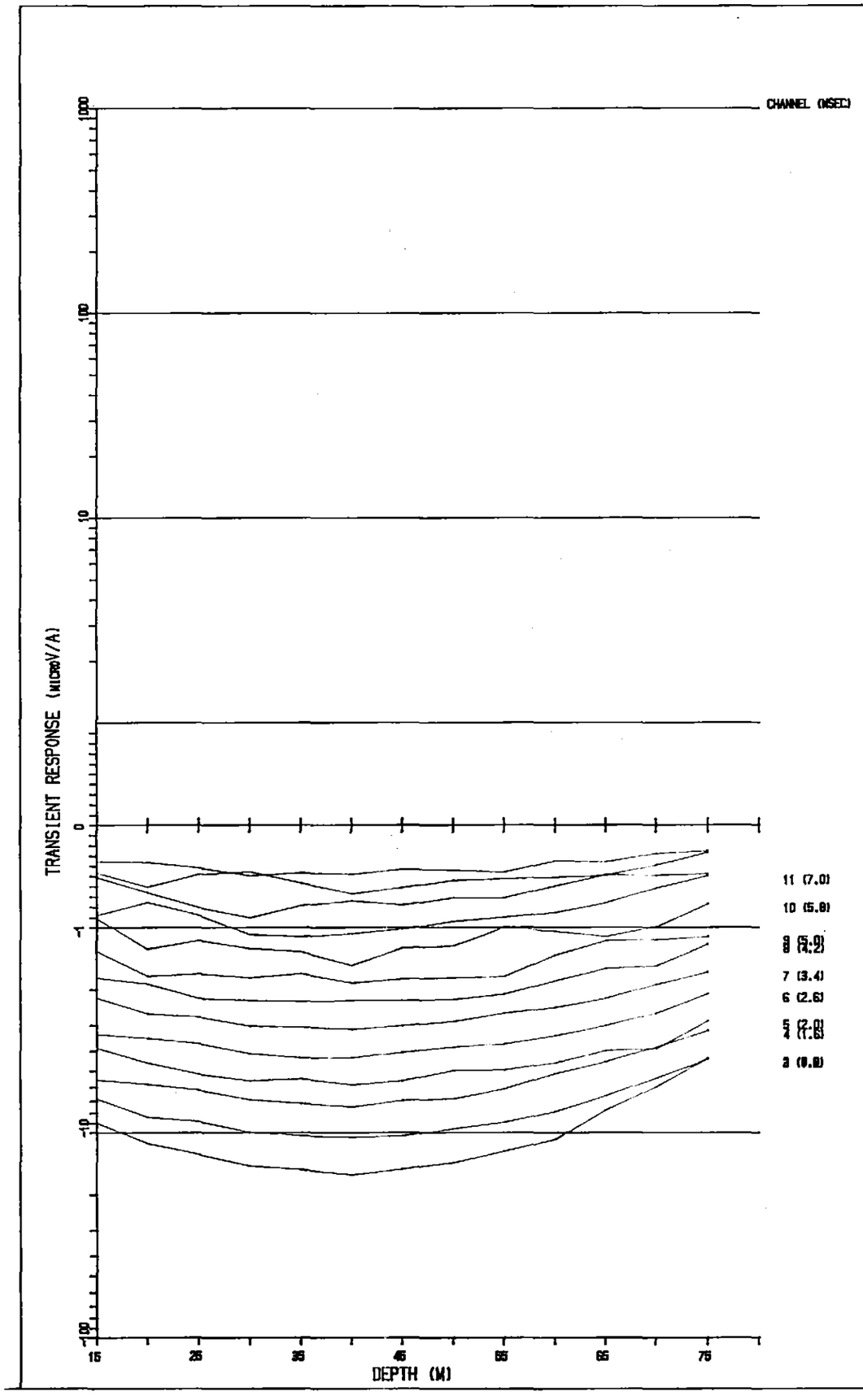
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH5 WEST LOOP

SCALE - 1:500

88-2853

195

743207



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP,
DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 11.6 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

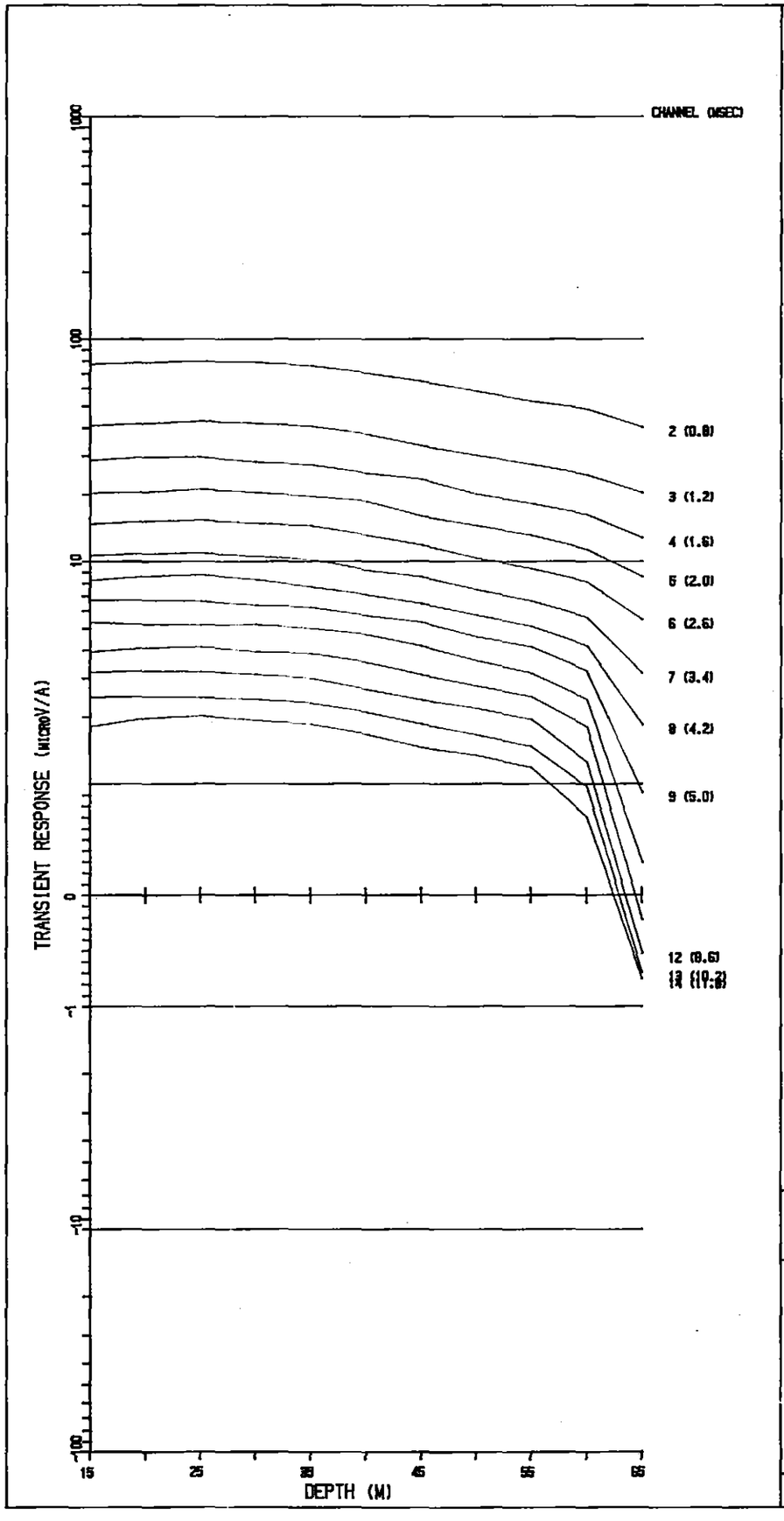
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH5 WEST LOOP

SCALE - 1:500

88-2853

136

743208



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

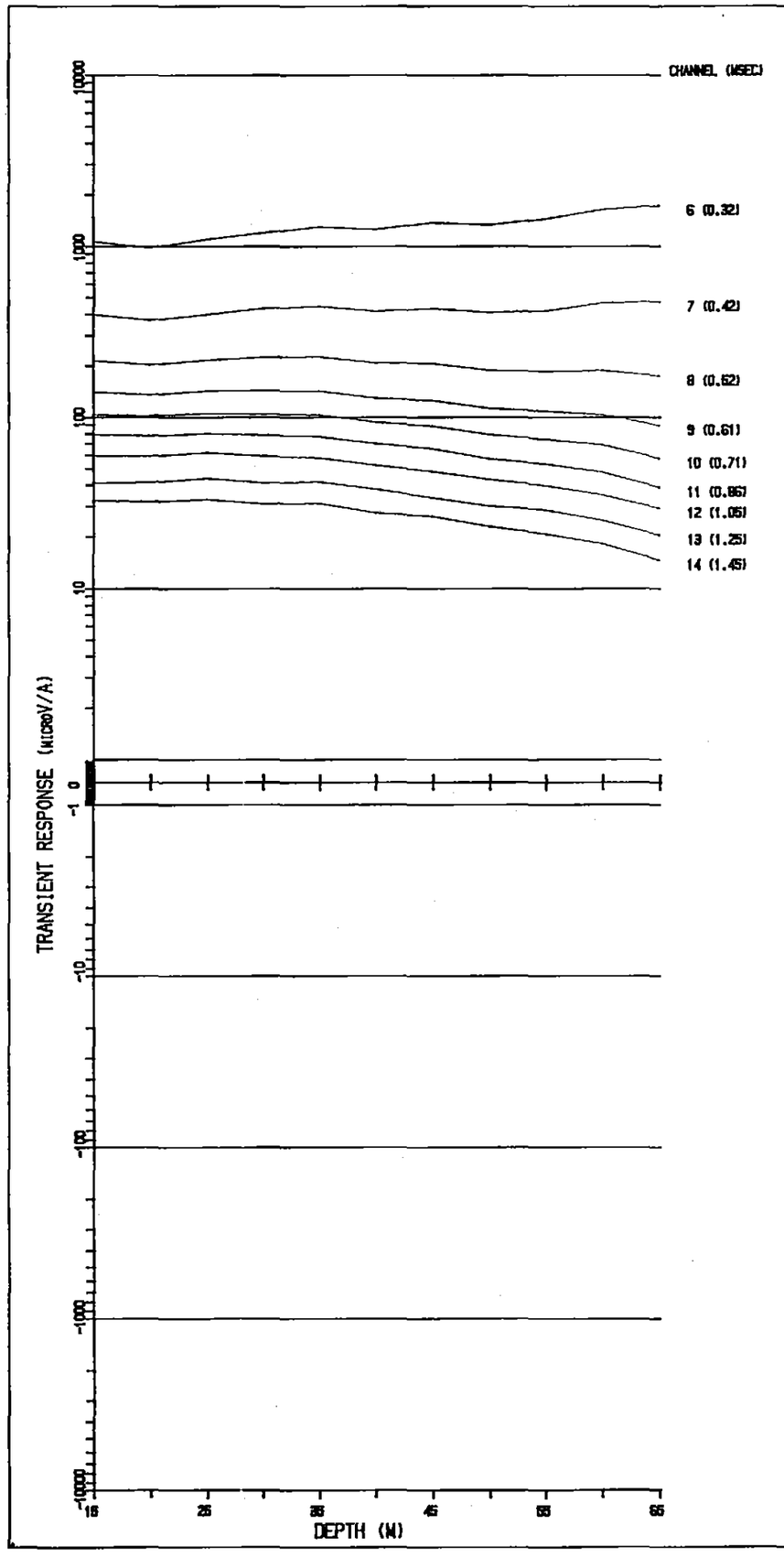
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH6 EAST LOOP

SCALE - 1:500

197

88-2853

743209



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

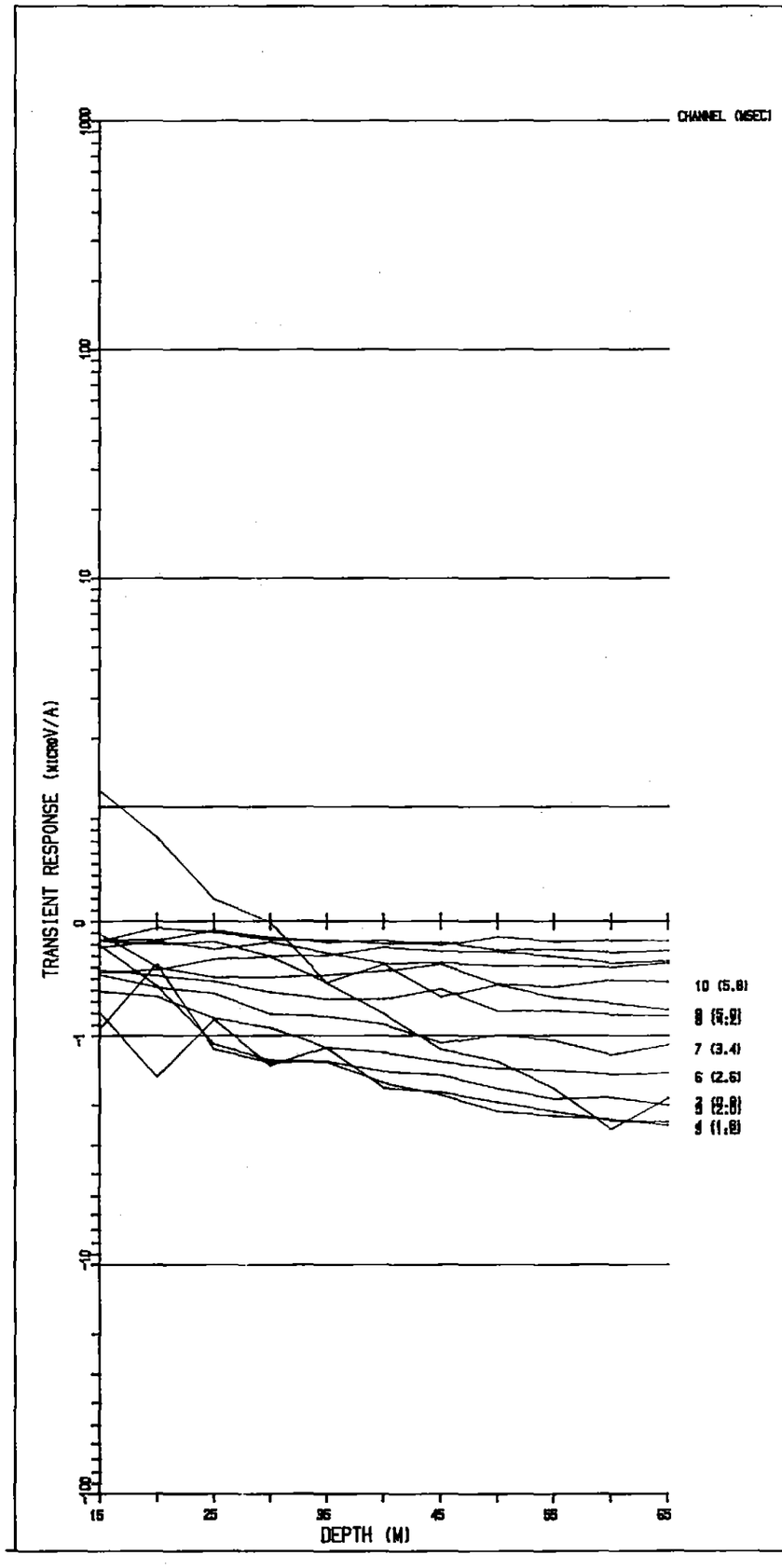
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH6 EAST LOOP

SCALE - 1:500

88-2853

138

743210



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

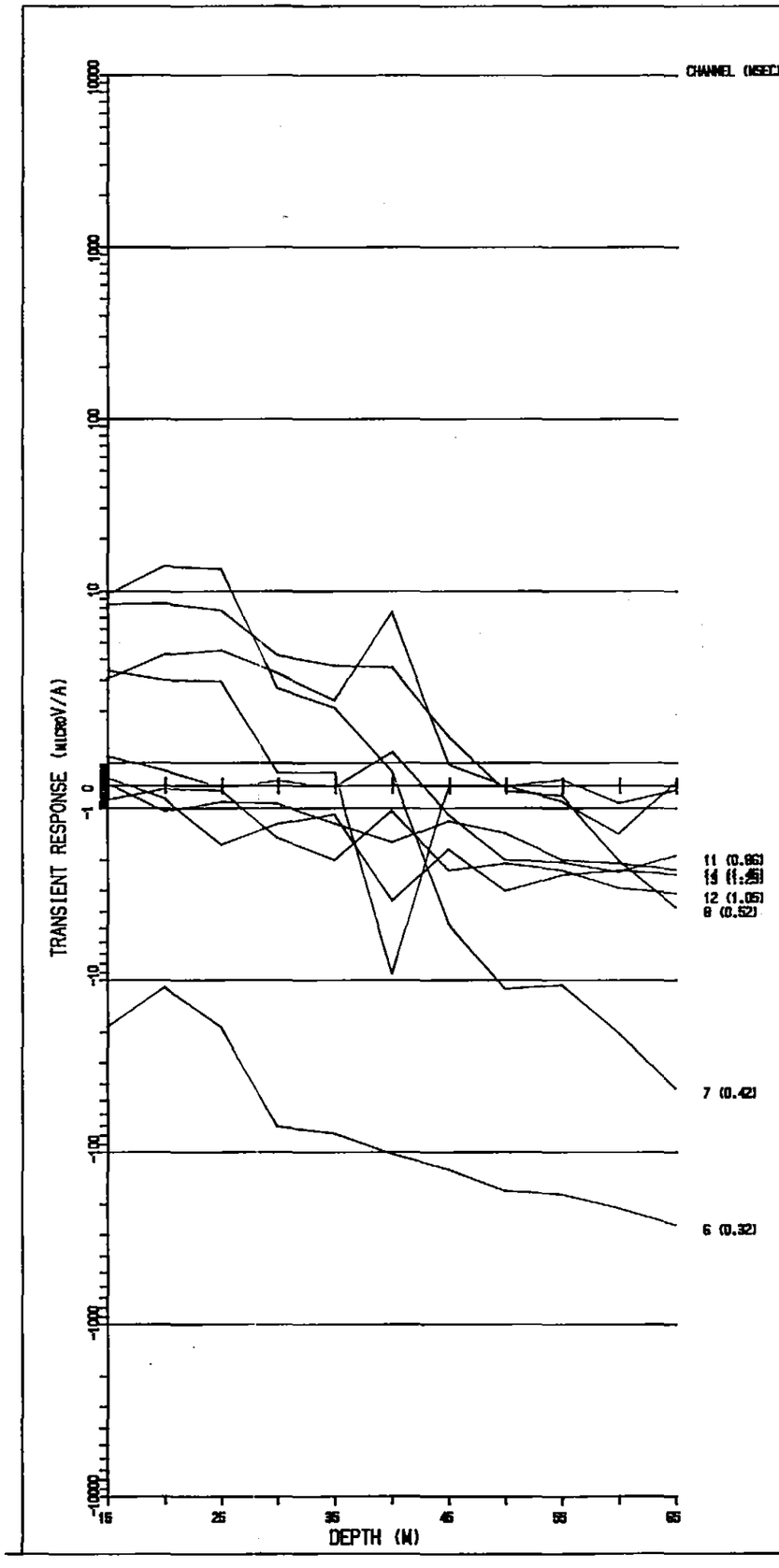
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH6 WEST LOOP

SCALE - 1:500

88-2853

139

743211



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

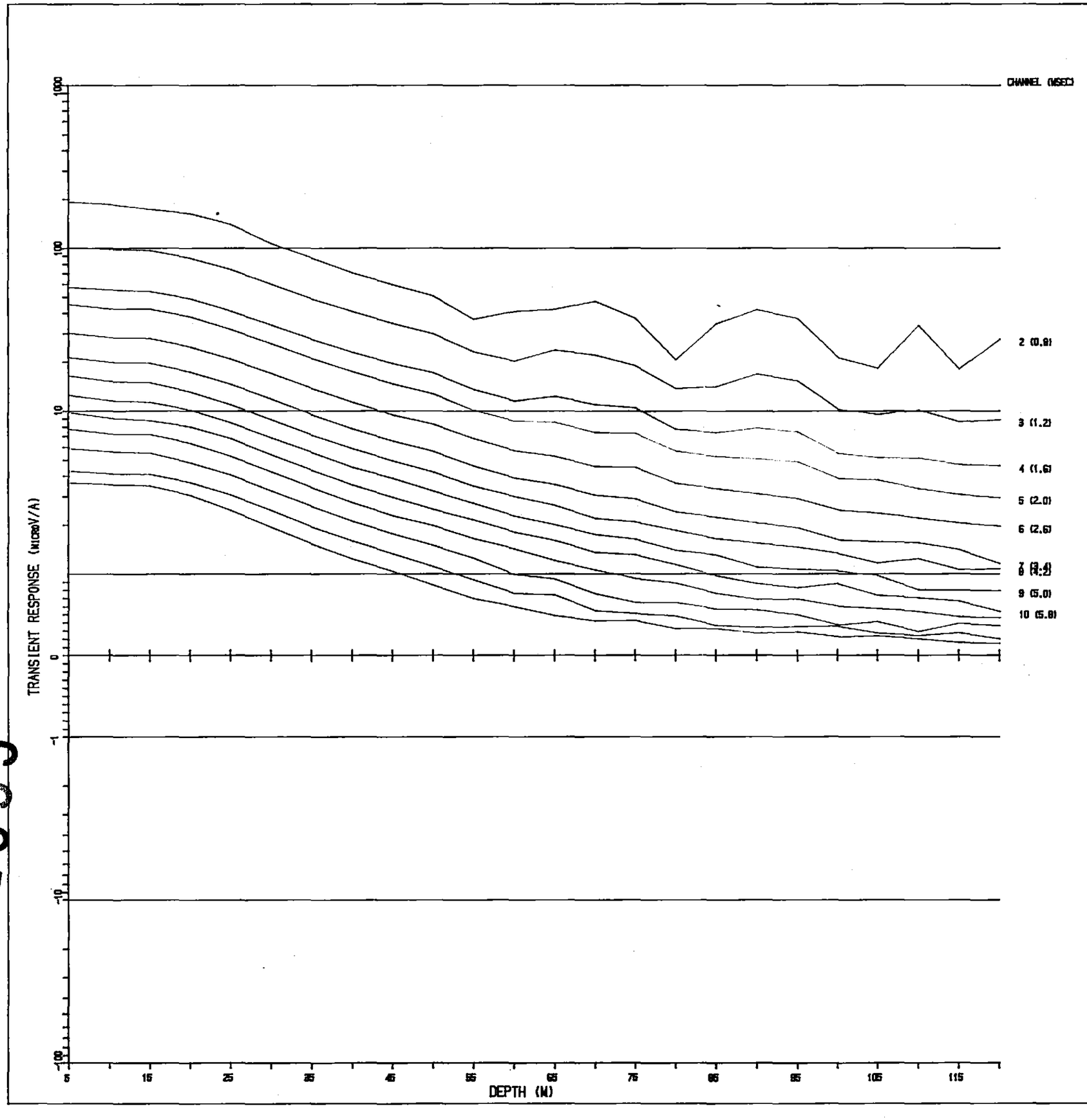
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH6 WEST LOOP

SCALE - 1:500

88-2853

330

743212



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

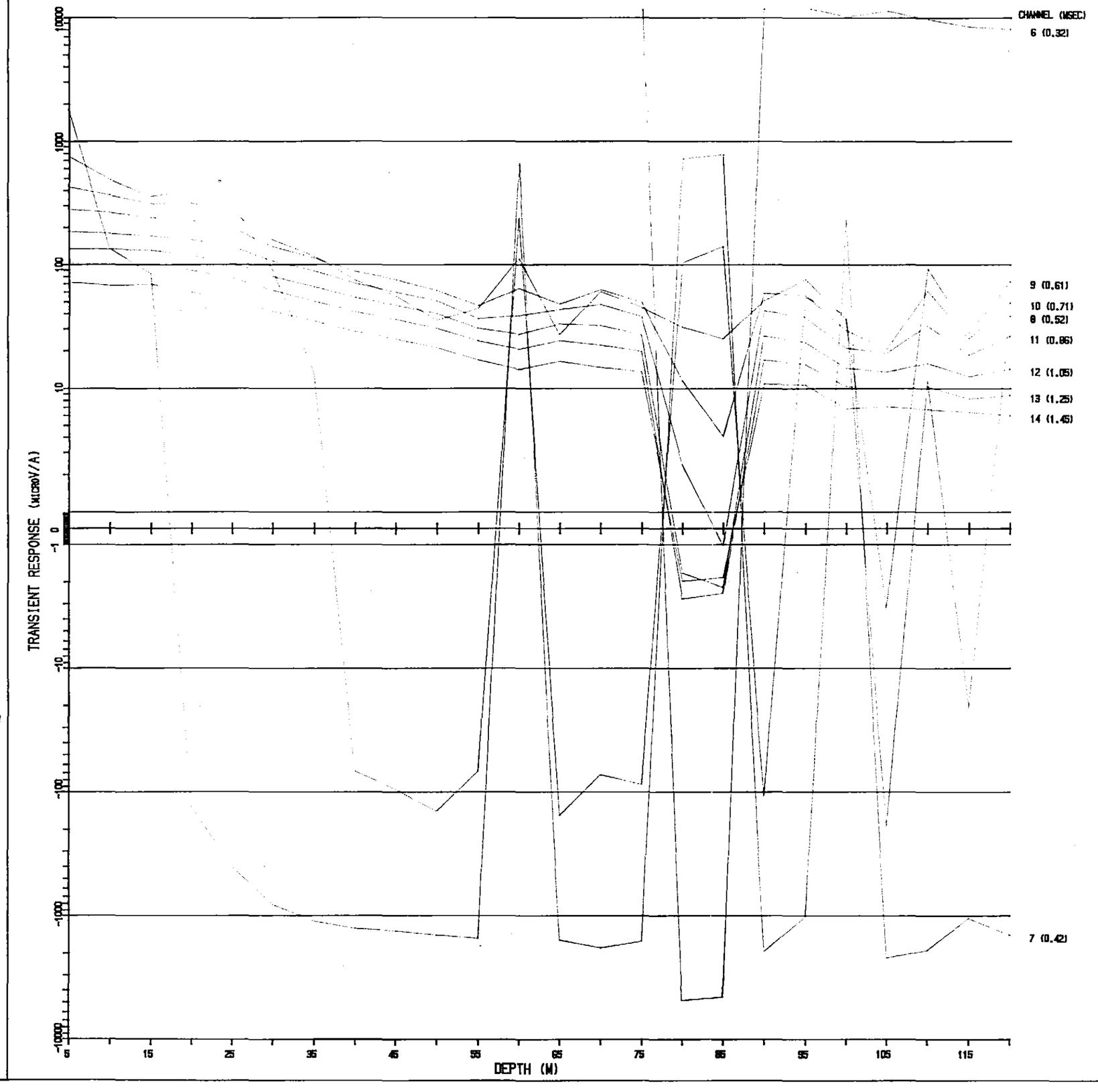
TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH7 EAST LOOP

SCALE - 1:500

88-2853

201

743213



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

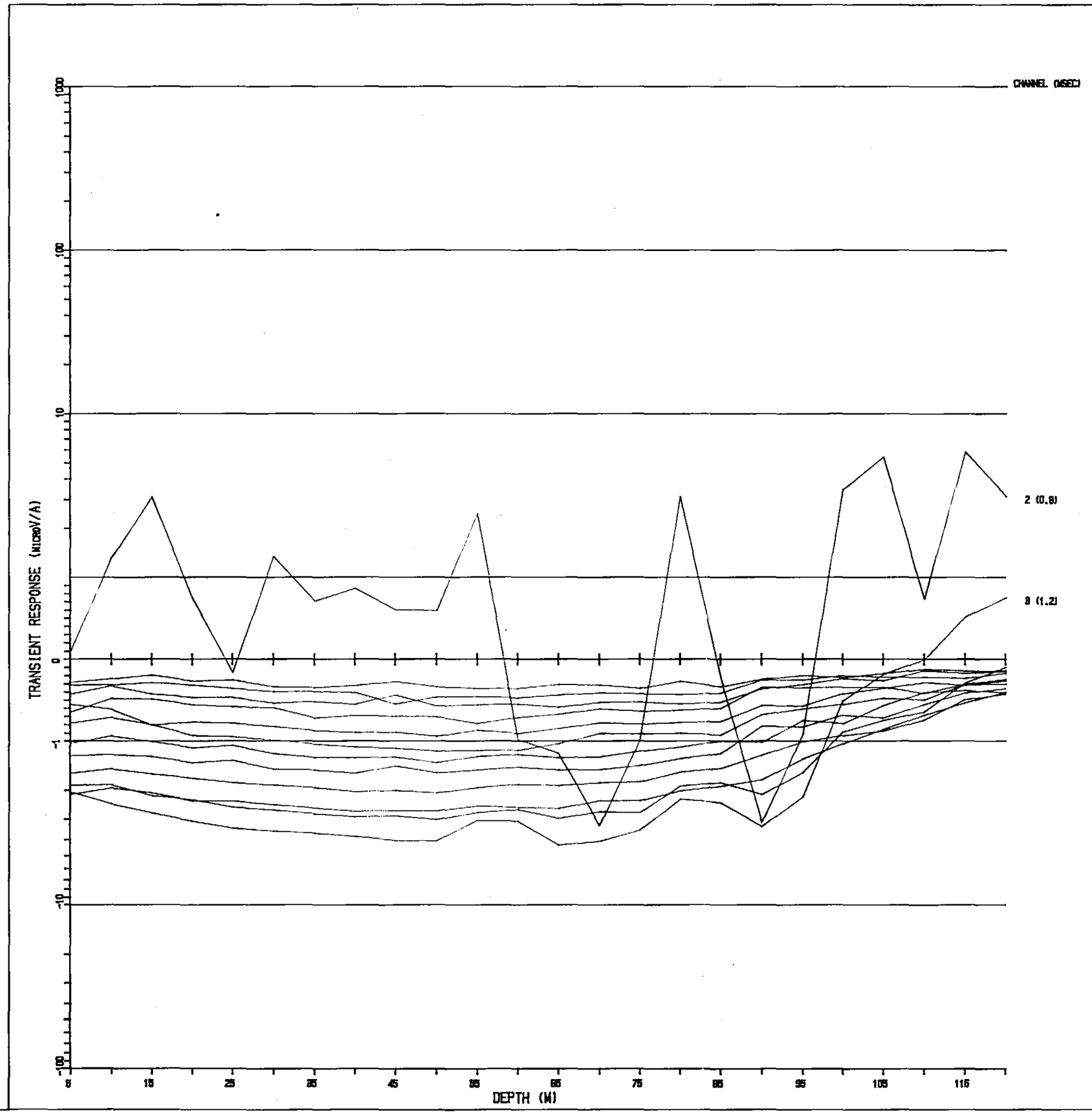
CYPRUS

TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH7 EAST LOOP

SCALE - 1:500

88-2853

743214



SURVEY SPECIFICATIONS

DATA ACQUIS'N : McSKIMMING GEOPHYSICS P/L

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 1024
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
4CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA

WART HILL

SIROTEM PROFILE

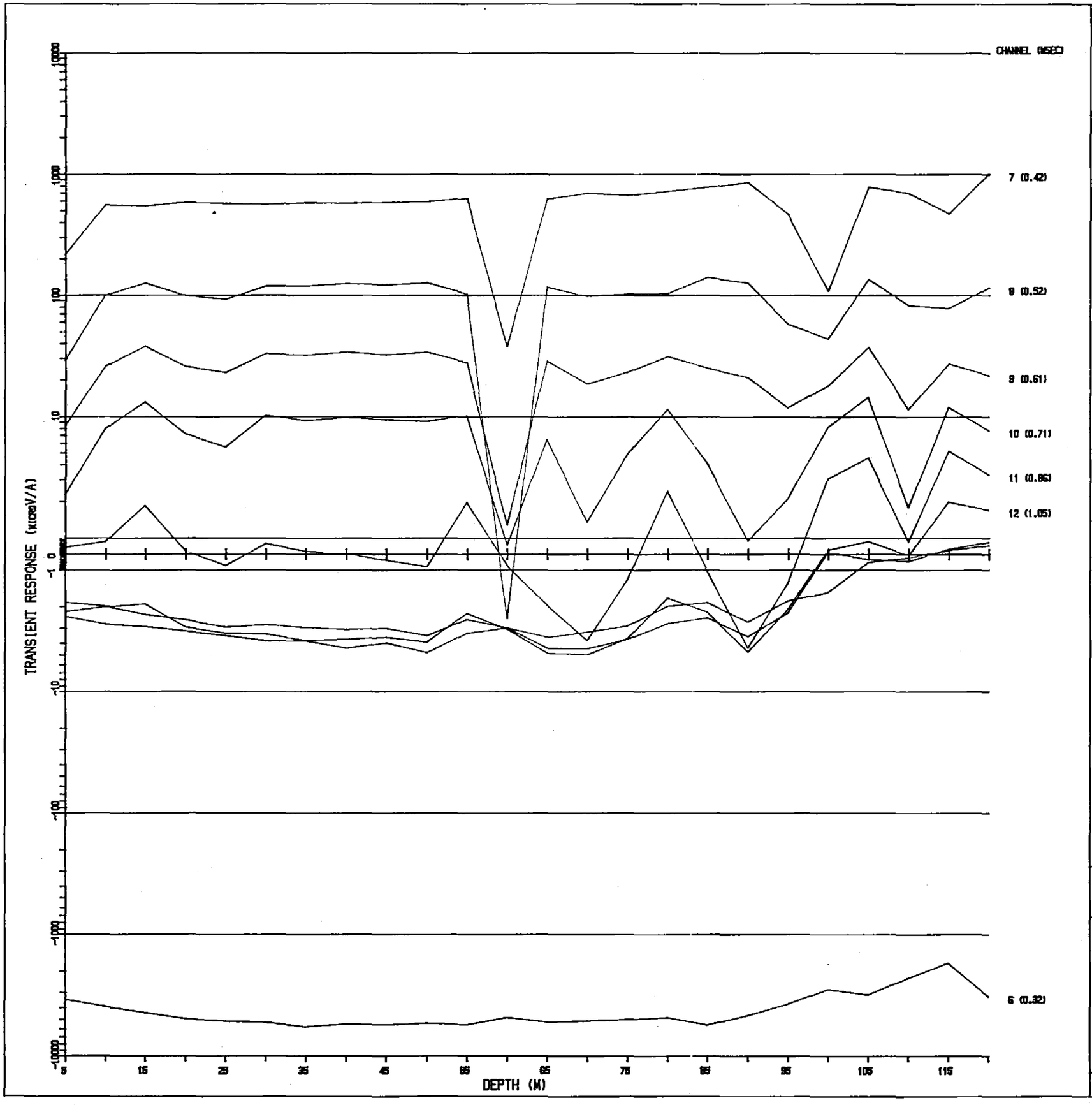
LINE WH7 WEST LOOP

SCALE - 1:500

88-2853

233

743215



SURVEY SPECIFICATIONS

SURVEY DATE : MARCH 1988
CONFIGURATION : 200M SQUARE TRANSMITTER LOOP, DRILL HOLE SURVEY
READING INT. : 5 METRES
NO. OF STACKS : 512
TRANSMITTER : MEDIUM POWER
RECEIVER : SIROTEM II S/N 1236
CURRENT : 14.0 AMPS
OPERATOR : P McSKIMMING

5 cm

PLOT SPECIFICATIONS

HORIZONTAL SCALE - 1:500
VERTICAL SCALE - LOGARITHMIC
3CM. PER DECADE
LINEAR BETWEEN -1 AND +1

CYPRUS

TASMANIA
WART HILL
SIROTEM PROFILE
LINE WH7 WEST LOOP

SCALE - 1:500

88-2853

884

APPENDIX 3

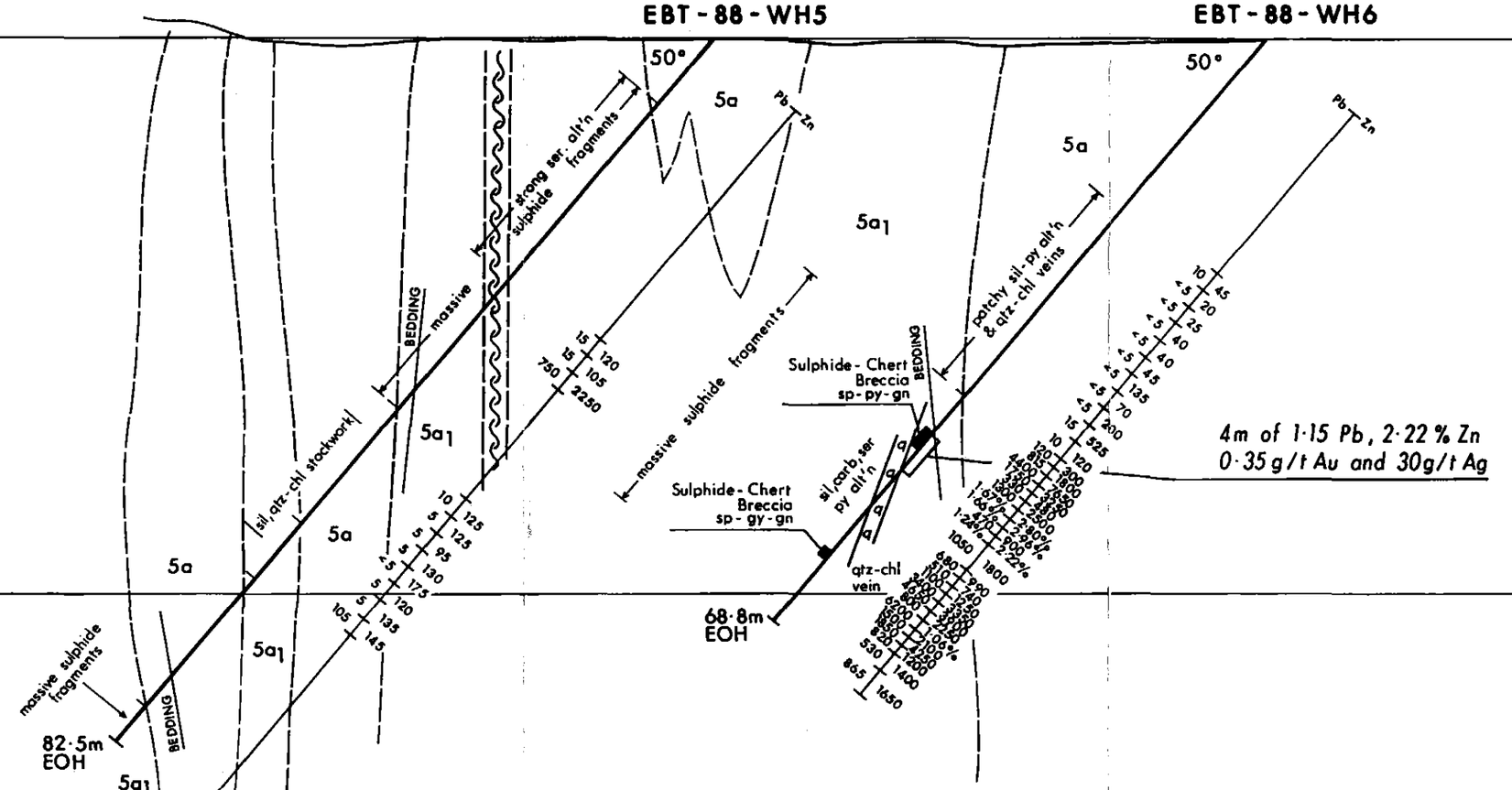
DRILL SECTIONS: WART HILL LINES 13100N, 13150N, 13210N, 13350N
NORTH LEWIS EBT-88-V12/6 TO V12/10

743217 CYPRUS

9950E | 10000E | 10500E

EBT - 88 - WH5 | EBT - 88 - WH6 | 100 m ASL

50 m ASL



Legend

Black Shale	4c
Tuffaceous coarse sandstone and grit	4b
Agglomerate / conglomerate	4a
Rhyolitic quartz-feldspar lithic tuff	5a
Epiclastic tuffaceous sandstones and breccias	5a1
Chert	5a2
Rhyolitic quartz-feldspar-biotite porphyry	5b
Dolerite	5h

Massive Sulphide Intercept

Geological Contact

Shear - Fault Zone

Mineralization / Alteration Abbreviations

sp — sphalerite	chl — chlorite
gn — galena	ser — sericite
py — pyrite	carb — carbonate
cpy — chalcopyrite	sil — silicification

5 cm

25 m

Elliott Bay EL 40/85 Wart Hill

Diamond Drillhole Section

LINE 13100N

88 2853

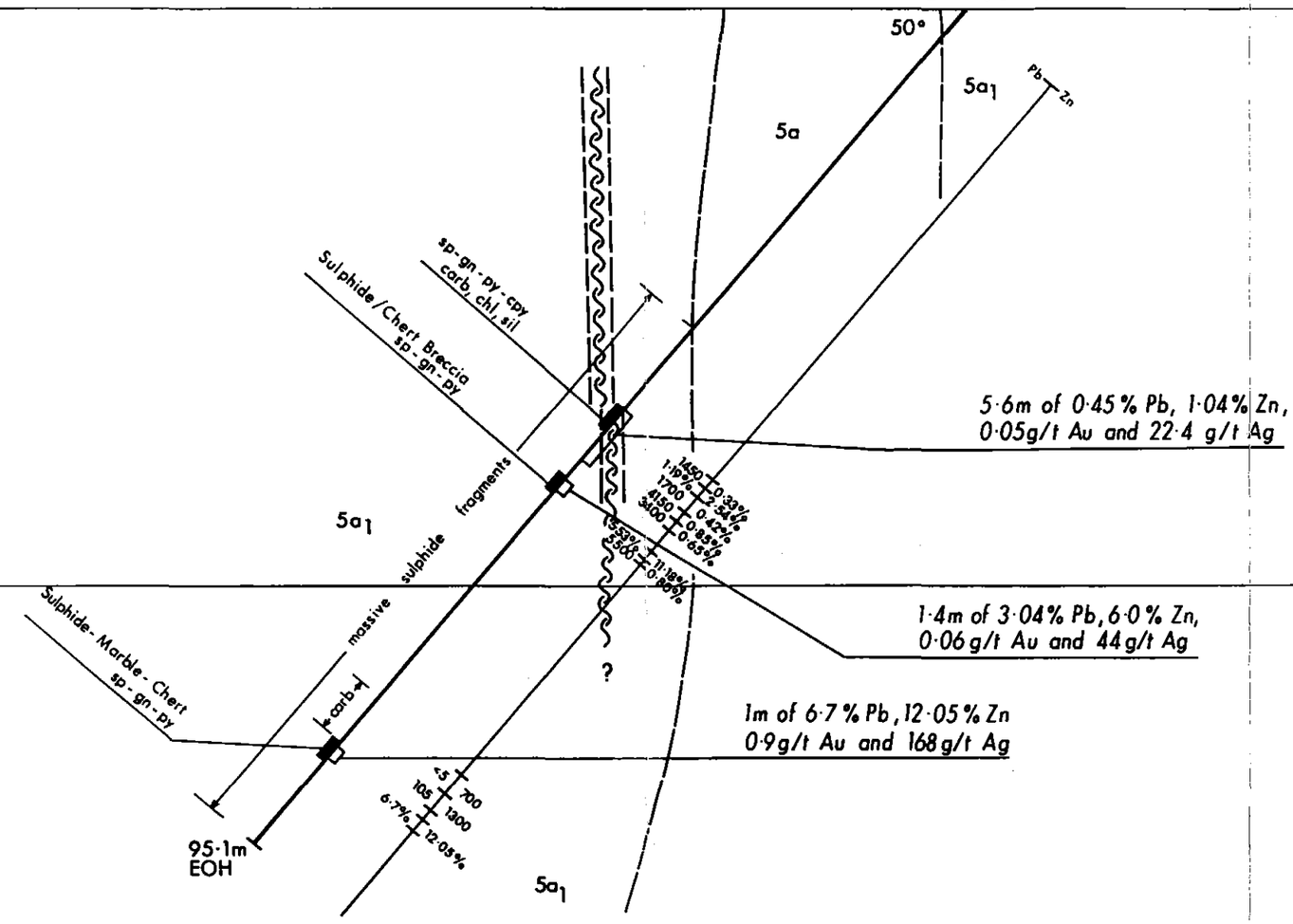
743218

CYPRUS

9950 E | 10000 E | 10050 E

EBT - 88 - WH4

100 m ASL



50 m ASL

88-2853

207

Legend

Black Shale	4c
Tuffaceous coarse sandstone and grit	4b
Agglomerate / conglomerate	4a
Rhyolitic quartz-feldspar lithic tuff	5a
Epiclastic tuffaceous sandstones and breccias	$5a_1$
Chert	$5a_2$
Rhyolitic quartz-feldspar-biotite porphyry	5b
Dolerite	5h

Massive Sulphide Intercept

Geological Contact

Shear - Fault Zone

Mineralization / Alteration Abbreviations

sp — sphalerite	chl — chlorite
gn — galena	ser — sericite
py — pyrite	carb — carbonate
cpy — chalcopyrite	sil — silicification

5 cm

25 m

Elliott Bay E L 40/85 Wart Hill

Diamond Drillhole Section

LINE 13150N

743219

CYPRUS

9950 E | 10000 E | 10050 E

WH2 | WH1 | WH7

100 m ASL

50 m ASL

OSMUND FAULT

WATERLOO CREEK GROUP ?

8m of 0·42% Pb, 0·99% Zn, 0·05g/t Au and 11·2g/t Ag

8m of 1·2% Pb, 3·1% Zn, 0·18g/t Au and 24g/t Ag

Including 1m of 3·4% Pb, 10·67% Zn, 0·28g/t Au and 52g/t Ag

massive sulphide fragments

abundant mass. sulph. fragments

sp-gn-py-cpy

massive sulphide + chert breccia

sp-gn-py

chl

chl-ser

sulphide frags

ser

chert

Patchy sil - carb alt'n

pervasive ser alt'n

Increasing intensity of sil-carb alt'n

mylonite zone (?)

sil-carb-ser-py alt'n

qtz-carb-py veins

ser-py alt'n

massive sulphide fragments

64m EOH

78·5m EOH

120m EOH

5 cm

25 m

Legend

Black Shale	4c
Tuffaceous coarse sandstone and grit	4b
Agglomerate / conglomerate	4a
Rhyolitic quartz-feldspar lithic tuff	5a
Epiclastic tuffaceous sandstones and breccias	$5a_1$
Chert	$5a_2$
Rhyolitic quartz-feldspar-biotite porphyry	5b
Dolerite	5h

Massive Sulphide Intercept

Geological Contact

Shear - Fault Zone

Mineralization / Alteration Abbreviations

sp — sphalerite	chl — chlorite
gn — galena	ser — sericite
py — pyrite	carb — carbonate
cpy — chalcopyrite	sil — silicification

Elliott Bay EL 40/85 — Wart Hill

Diamond Drillhole Section

LINE 13210N

88-2853

743220 CYPRUS

10000 E

10050 E

10100 E

0m ASL

50 m ASL

V19/1

LENS 'A'

Massive sulphide
Projected 50m along strike

EBT-88-WH3

Projected 50m onto section V19/1 (Geopeko) 100 m ASL

50°

50°

qtz-carb-gn ± sp veins

massive sulphide fragments

mass. sulph. fragments

minor py fragments

carb alth

chert

patchy and pervasive sil-carb alt'n

SEE CONTINUATION

5h

5a

5b

$5a_1$

$5a_1$(?)

$5a_2$

200·36m EOH

69·2m EOH

88-283

Legend

Black Shale	4c
Tuffaceous coarse sandstone and grit	4b
Agglomerate / conglomerate	4a
Rhyolitic quartz-feldspar lithic tuff	5a
Epiclastic tuffaceous sandstones and breccias	$5a_1$
Chert	$5a_2$
Rhyolitic quartz-feldspar-biotite porphyry	5b
Dolerite	5h

Massive Sulphide Intercept

Geological Contact

Shear-Fault Zone

Mineralization / Alteration Abbreviations

sp — sphalerite	chl — chlorite
gn — galena	ser — sericite
py — pyrite	carb — carbonate
cpy — chalcopyrite	sil — silicification

5 cm

25 m

Elliott Bay EL 40/85 Wart Hill

Diamond Drillhole Section

LINE 13350N

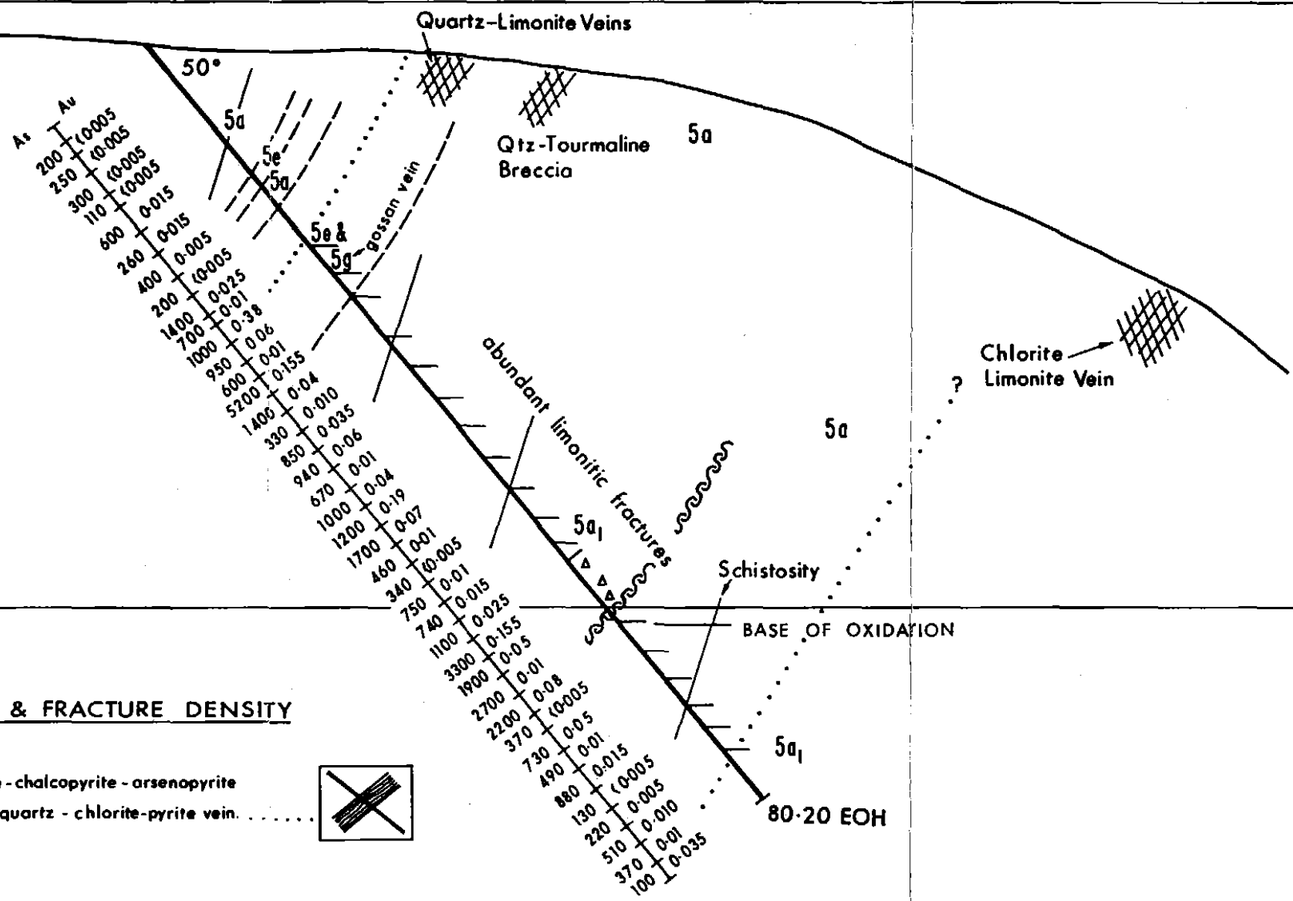
743221

CYPRUS

EBT-88-V12/6

100 m ASL

50 m ASL



LITHOLOGIES

- Fine to medium grained rhyolitic volcaniclastic (undifferentiated) ... 5a
- Rhyolite, quartz-bearing vitric tuff. . 5a1
- Tuffaceous siltstone ... 5e
- Tuffaceous sandstone/greywacke ... 5g
- Elliott Point Porphyry ... 6
- Inferred geological contact ...

ALTERATION INTENSITY & FRACTURE DENSITY

- Vein - Limonitic-hematitic (pyrite-chalcopyrite-arsenopyrite bearing) quartz-tourmaline or quartz-chlorite-pyrite vein. ...
- Intense shatter/breccia zone. Milling and fragment rotation evident. Intense tourmaline-quartz & pyrite(or limonite)-chlorite-quartz matrix infill and repeated fracture. Strong localized sericitization ...
- Moderate to intense shatter. Breccia zones localized and narrow Crackle brecciation only. Little or no fragment rotation. Low tourmaline-quartz vein density, moderate-high quartz-chlorite-pyrite (± sphalerite ± arsenopyrite ± chalcopyrite ± galena) veins. Mod-strong localized sericitization ...
- Shear Zone ...
- Boundary of Shatter Zone ...

5 cm

25 m

Elliott Bay E.L. 40/85 North Lewis

Diamond Drillhole Section

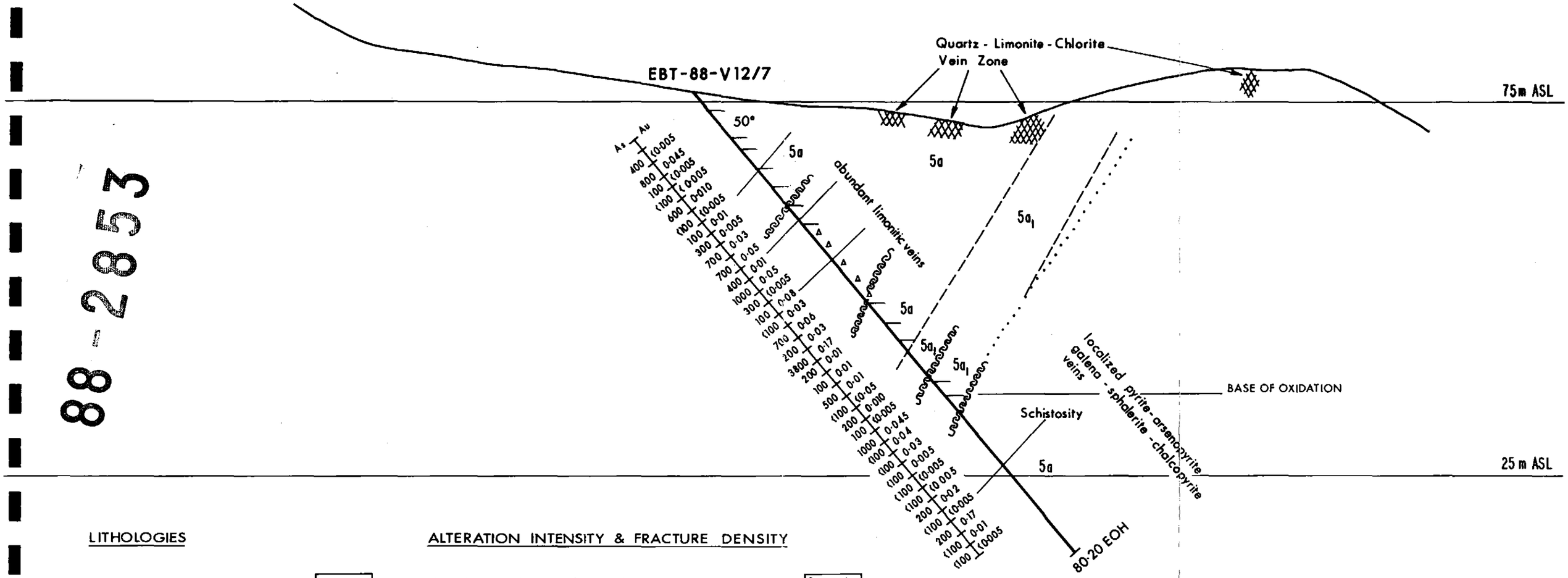
EBT-88-V12/6

88-2853

743222

CYPRUS

88-2853



LITHOLOGIES

Fine to medium grained rhyolitic volcaniclastic (undifferentiated). . . . 5a

Rhyolite, quartz-bearing vitric tuff. . 5a1

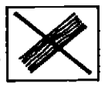
Tuffaceous siltstone. 5e

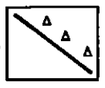
Tuffaceous sandstone/greywacke . . . 5g

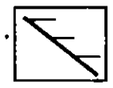
Elliott Point Porphyry. 6

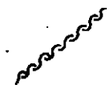
Inferred geological contact. . . . . /

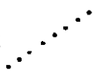
ALTERATION INTENSITY & FRACTURE DENSITY

Vein - Limonitic - hematitic (pyrite - chalcopyrite - arsenopyrite bearing) quartz - tourmaline or quartz - chlorite-pyrite vein. . . . . 

Intense shatter/breccia zone. Milling and fragment rotation evident. Intense tourmaline - quartz & pyrite(or limonite)-chlorite - quartz matrix infill and repeated fracture. Strong localized sericitization . . . . . 

Moderate to intense shatter. Breccia zones localized and narrow Crackle brecciation only. Little or no fragment rotation. Low tourmaline-quartz vein density, moderate-high quartz - chlorite - pyrite (± sphalerite ± arsenopyrite ± chalcopyrite ± galena) veins. Mod-strong localized sericitization . . . . . 

Shear Zone . . . . . 

Boundary of Shatter Zone . . . . . 

5 cm

25 m

Elliott Bay E.L. 40/85 North Lewis

Diamond Drillhole Section

EBT-88-V12/7

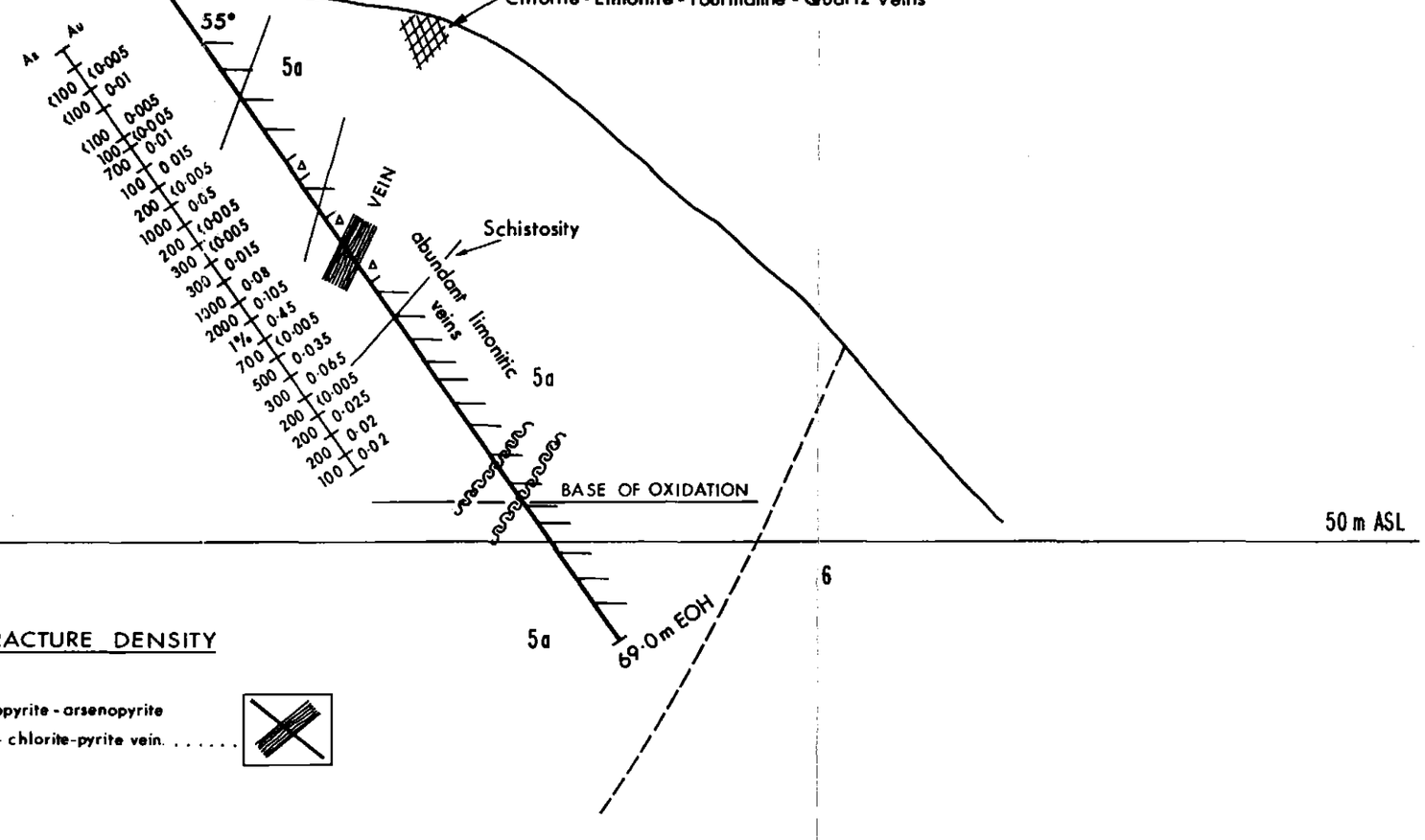
743223

CYPRUS

28537

EBT-88-V12/8

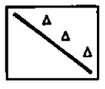
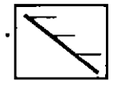
100 m ASL



LITHOLOGIES

- Fine to medium grained rhyolitic volcaniclastic (undifferentiated). . . . 5a
- Rhyolite, quartz-bearing vitric tuff. . 5a1
- Tuffaceous siltstone. 5e
- Tuffaceous sandstone/greywacke . . . 5g
- Elliott Point Porphyry. 6
- Inferred geological contact. . . . . /

ALTERATION INTENSITY & FRACTURE DENSITY

- Vein - Limonitic - hematitic (pyrite - chalcopyrite - arsenopyrite bearing) quartz - tourmaline or quartz - chlorite-pyrite vein. . . . .
- Intense shatter/breccia zone. Milling and fragment rotation evident. Intense tourmaline - quartz & pyrite(or limonite)-chlorite - quartz matrix infill and repeated fracture. Strong localized sericitization . . . . . 
- Moderate to intense shatter. Breccia zones localized and narrow Crackle brecciation only. Little or no fragment rotation. Low tourmaline-quartz vein density, moderate-high quartz-chlorite-pyrite (± sphalerite ± arsenopyrite ± chalcopyrite ± galena) veins. Mod-strong localized sericitization . . . . . 
- Shear Zone . . . . . 
- Boundary of Shatter Zone . . . . . 

5 cm

25 m

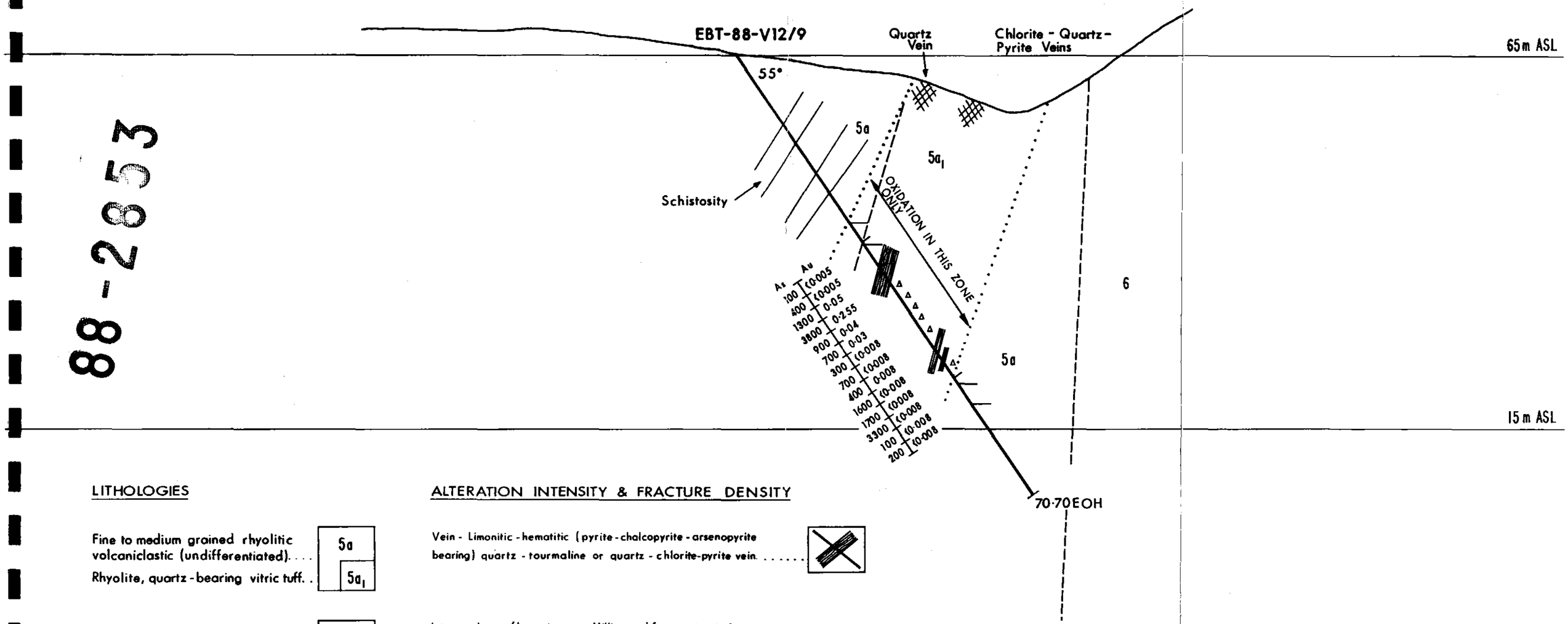
Elliott Bay E.L. 40/85 North Lewis

Diamond Drillhole Section

EBT-88-V12/8

743224 CYPRUS

88-2853



LITHOLOGIES

Fine to medium grained rhyolitic volcaniclastic (undifferentiated)	5a
Rhyolite, quartz-bearing vitric tuff.	5a1
Tuffaceous siltstone	5e
Tuffaceous sandstone/greywacke	5g
Elliott Point Porphyry	6
Inferred geological contact	

ALTERATION INTENSITY & FRACTURE DENSITY

Vein - Limonitic - hematitic (pyrite - chalcopyrite - arsenopyrite bearing) quartz - tourmaline or quartz - chlorite-pyrite vein.

Intense shatter/breccia zone. Milling and fragment rotation evident. Intense tourmaline - quartz & pyrite(or limonite) - chlorite - quartz matrix infill and repeated fracture. Strong localized sericitization

Moderate to intense shatter. Breccia zones localized and narrow Crackle brecciation only. Little or no fragment rotation. Low tourmaline-quartz vein density, moderate - high quartz - chlorite - pyrite (± sphalerite ± arsenopyrite ± chalcopyrite ± galena) veins. Mod - strong localized sericitization

Shear Zone

Boundary of Shatter Zone

5 cm

25 m

Elliott Bay E.L. 40/85 North Lewis

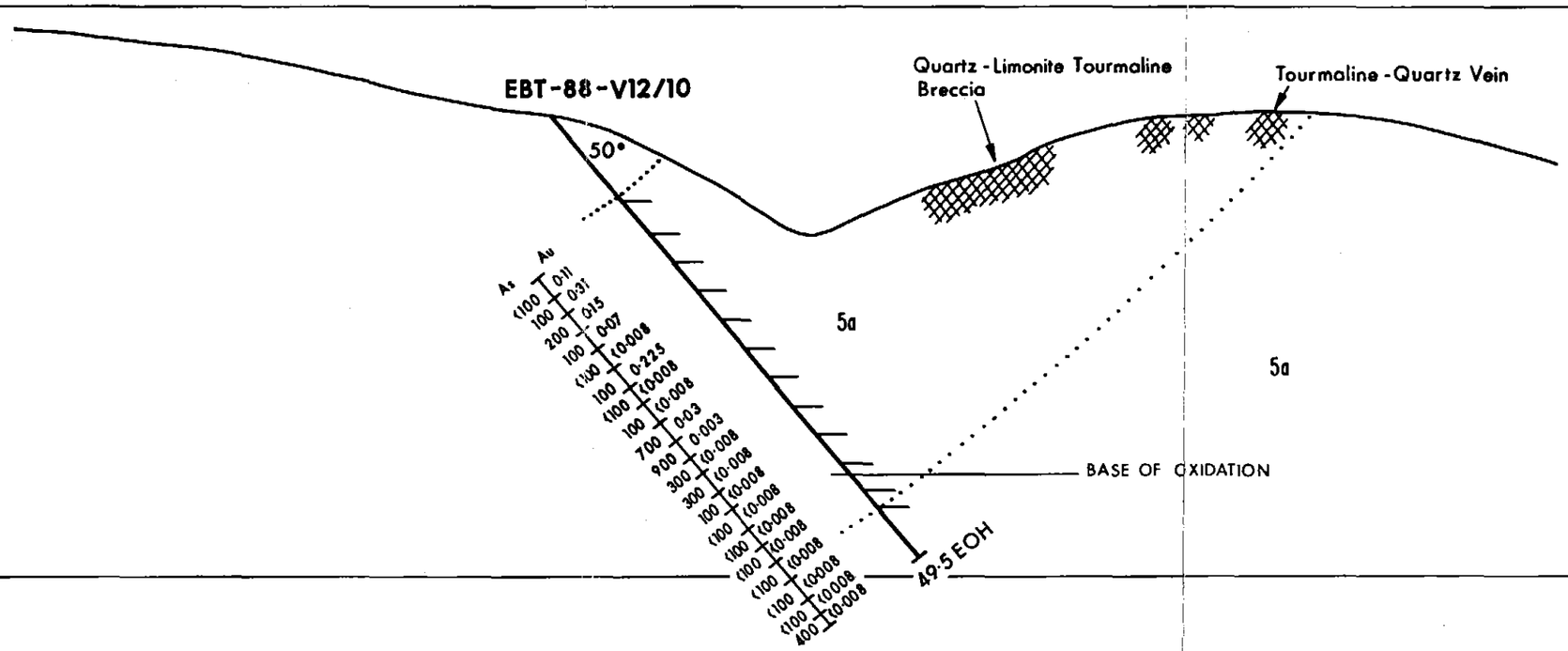
Diamond Drillhole Section

EBT-88-V12/9

743225

CYPRUS

88-2853



LITHOLOGIES

Fine to medium grained rhyolitic volcaniclastic (undifferentiated). . . . 5a
Rhyolite, quartz-bearing vitric tuff. . 5a$_1$

Tuffaceous siltstone. 5e

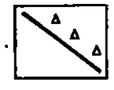
Tuffaceous sandstone/greywacke . . . 5g

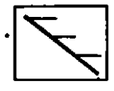
Elliott Point Porphyry. 6

Inferred geological contact. . . . . /

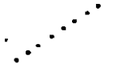
ALTERATION INTENSITY & FRACTURE DENSITY

Vein - Limonitic-hematitic (pyrite-chalcopyrite-arsenopyrite bearing) quartz-tourmaline or quartz-chlorite-pyrite vein. . . . . 

Intense shatter/breccia zone. Milling and fragment rotation evident. Intense tourmaline-quartz & pyrite(or limonite)-chlorite-quartz matrix infill and repeated fracture. Strong localized sericitization . . . . . 

Moderate to intense shatter. Breccia zones localized and narrow Crackle brecciation only. Little or no fragment rotation. Low tourmaline-quartz vein density, moderate-high quartz-chlorite-pyrite (± sphalerite ± arsenopyrite ± chalcopyrite ± galena) veins. Mod-strong localized sericitization . . . . . 

Shear Zone . . . . . 

Boundary of Shatter Zone . . . . . 

5 cm

25 m

Elliott Bay E.L. 40/85 North Lewis

Diamond Drillhole Section

EBT-88-V12/10

APPENDIX 4

DRILL LOGS: WART HILL EBT-88-WH1 TO WH7
NORTH LEWIS EBT-88-V12/6 TO V12/10

743227

drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH1

Co-ordinates 13210 mN 10010 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ, NQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 78 M T	Assay sample type	HALF CORE
Commenced	13.2.88	Water table	
Completed	14.2.88	Water yields	
Total depth	78.5m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

0.0-1.5 ROLLER BIT
1.5-20.8 HQ
20.8-78.5 NQ

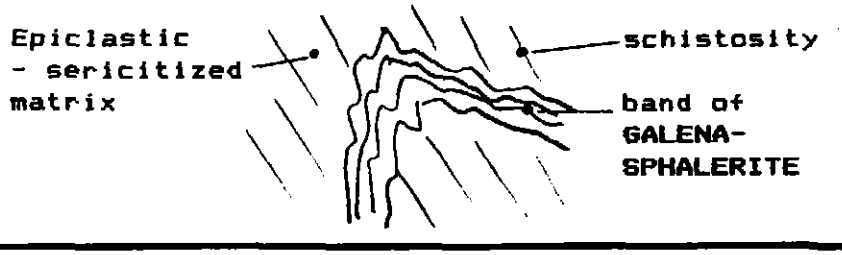
CYPRUS

217

743228

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH1** Page 1

From	To	Code	Description (mineralization in bold type)
1.5	14.0		RHYOLITIC LAPILLI TUFF Moderately weathered, strongly sericitized, weakly chloritized quartz-bearing schistose lapilli tuff. Abundant angular quartz crystals (0.5 to 1mm size). Rock fragments up to 4cm (elongate) are chloritized or sericitized - are elongate subparallel schistosity (fiame). Schistosity at an angle of 30-40deg to core axis. Core is pitted - pits contain remnant feldspar? and quartz. At 2 meters, pits contain disseminated **PYRITE** over approximately 10cm. 8.8m-9.0m - Grey green **CHLORITIZED-PYRITIC** crush zone. 9.5m-9.9m - Fine siltstone. Contact with above at an angle of 35deg to core axis - fine green grey - tuffaceous siltstone. Bottom end appears to be feathered and interdigitates with coarses lapilli tuff. Possibly a folded bed displaced by schistosity - gives impression of very high angle to core axis, about 10deg.
14.0	37.8		MIXED RHYOLITIC LAPILLI TUFF AND EPICLASTIC SEDIMENTS Moderate to strong sericitization. 14.5m - chert and **PYRITE** clasts to 4cm in size. Rocks include: medium to fine grained, green, moderately well sorted, tuffaceous sandstone and finer lapilli tuff than above - possible reworked tuff. 16.6m-17.9m - Epiclastic breccia. Matrix supported rhyolitic volcanoclastic breccia containing sheared (schistose) fragments of grey-weathered **GALENA-SPHALERITE** (massive), grey-weathered **PYRITE**, fine grey locally **PYRITIC CHERT** and chlorite. All fragments are sheared along schistosity and give the impression of banding in core. In weathered rock, chert? is relatively soft (scratches with knife). Clast size up to 5cm elongate direction. Schistosity and clast elongation at an angle of 40deg to core axis. 17.9m - Band of very fine **GALENA-SPHALERITE** is aligned parallel to schistosity and appears to be either a fine bed transposed by schistosity or a stretched clast. 

CYPRUS

743229

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH1** Page **2**

From	To	Code	Description (mineralization in bold type)
			17.9m-23.5m - Medium-coarse grained volcaniclastic sandstone. Green, moderately sericitized, with quartz crystals up to 2mm, rock fragments up to 5mm. Fragments are often highly elongated along schistosity and strongly sericitized. Fragments are locally pale green and extremely fine grained and siliceous giving the rock a blotchy appearance. Minor (<5%) **SPHALERITE-GALENA-PYRITE** fragments occur usually about 2mm in size. Schistosity is at an angle of 20-30deg to core axis. 23.5m-25.1m - Silicified quartz porphyritic rock. Fine quartz porphyry (quartz to 1mm in size) set in fine siliceous but weakly sericitized matrix. Crystals of chlorite (after biotite) occur as phenocrysts? (about 2%.) At 22.7m a 10cm zone of breccia occurs with fragments of coarse-fine grained quartz porphyry. 25.1m-28.0m - Green volcanoclastic breccia. Matrix supported clasts of grey chert which locally contain **PYRITE** stringers; white fragments with a soft pumiceous texture; **PYRITE**; **SPHALERITE-GALENA** (massive); feldspar-quartz porphyry. Cavities lined with soft pumiceous material are possible remnants of sulphide bearing clasts which have weathered out of rock. Matrix to breccia is a green lithic-rich feldspar and quartz-bearing tuffaceous sandstone. 28.0m-35.0m - Green volcanoclastic sandstone and siltstone. Same as matrix for above breccia. From 29.3m to 32.5m sandstone alternates with very fine siltstone of same composition. Core angle between bed about 30-40deg to core axis. 32.1m-32.5m - Possible graded bedding suggests younging direction toward top of hole. Bedding is at an angle of 30deg to core axis. Fine sand grain size **PYRITE-SPHALERITE-GALENA** rich rock fragments occur throughout. At 34.5m schistosity is at an angle of 30deg to core axis. 35.0m-37.75m - Epiclastic breccia and chert. Matrix supported breccia with fragments of white porcelanous material (dolomite?) and chloritized rock?; grey chert locally containing **PYRITE**; **PYRITE** rock fragments; sericitized quartz-feldspar-lithic tuff; fine biotite bearing (now chlorite) porphyry; **SPHALERITE-GALENA-PYRITE** rock fragments. From 35.4m to 35.9m grey chert? fragments with fine **PYRITE** disseminated throughout and in veins occuring along fractures. 37.4m-37.5m - Fine volcanoclastic sediment with up to 30% very fine disseminated **PYRITE**.

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH1** Page 3

mineralization in bold type

From	To	Code	Description
37.8	73.8		PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF Displays a crowded porphyritic texture. Cream anhedral feldspars 20% (2-3mm) Anhedral quartz 40% (1-4mm) Anhedral biotite 10% (1-2mm) - in a quartz-feldspar-sericite matrix. Schistosity is moderately developed - more massive than upper hole. Weak PYRITIC dissemination <2% occur intermitently. The rock has a blotchy-patchy appearance where sericitization appears stronger. The clast-type zones appear to be coarser grain and the "matrix" appears to be silicified, fine grained, carbonatized, sericitized, biotite free and devoid of feldspars. ALTERATION INDUCED BRECCIA TEXTURE 'FRAGMENT' Biotite-bearing, feldspar-stable quartz-rich porphyritic rock schistosity 'MATRIX' -siliceous, carbonatized, sericitic, biotite-free feldspar destroyed In upper part of hole porphyritic "fragments" dominate a silicified-carbated matrix. Downhole, silicification begins to increase with nearly complete destruction of biotiteand feldspar to produce a sparse quartz porphyry texture in a pale green brown siliceous matrix. 61.6m-61.9m - Open cavity, quartz and exsulphide vein runs parallel to core. 69.4m-73.8m - Extreme silicification carbonation combined with calcite veining and occurence of disseminated SPHALERITE and PYRITE <5%.
73.8	76.9		GREEN VOLCANOCLASTIC SANDSTONE Well sorted fine to medium grained feldspar-lithic quartz sandstone containing orange-brown ankerite? veins. Lower contact is at an angle of 70-80deg to core axis.
76.9	78.5		PORPHYRITIC QUARTZ-FELDSPAR-BIOTITE TUFF As above. Highly mylonitized? siliceous sericitic and contains minor quartz-ankerite veins in association with minor fine SPHALERITE. END OF HOLE.

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assays

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH1 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292881	1.5	3	1.5	5	65	155	1.0	<100	<0.005
292882	14	15	1.0	15	295	1250	2.0	<100	<0.005
292883	15	16	1.0	20	540	2600	3.0	<100	0.015
292884	16	17	1.0	80	0.34	0.71	15.0	<100	0.01
292885	21	22	1.0	10	50	180	2.0	100	<0.005
292886	22	23	1.0	10	70	180	2.0	100	<0.005
292887	23	24	1.0	20	155	420	2.0	<100	0.020
292888	24	25	1.0	10	35	80	1.0	100	0.015
292889	25	26	1.0	35	270	520	2.0	<100	0.01
292890	26	27	1.0	240	0.24	0.41	3.0	100	0.045
292891	29	30	1.0	10	30	75	<0.5	200	<0.005
292892	30	32	1.0	10	40	105	1.0	100	0.025
292893	39	40	1.0	5	40	45	2.0	100	<0.005
293201	27	28	1.0	315	1800	3000	3.5	29	0.04
293202	28	29	1.0	5	10	65	<0.5	2	<0.005
293203	35	36	1.0	15	180	225	0.5	76	<0.005
293204	36	37	1.0	40	525	1200	2.5	75	<0.005
293205	37	38	1.0	30	515	1100	2.0	29	0.01

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Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH1 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					
1.5	3.0					87					
3.0	4.5					90					
4.5	6.0					87					
6.0	7.5					87					
7.5	9.0					83					
9.0	10.5					93					
10.5	12.0					93					
12.0	13.5					93					
13.5	15.0					87					
15.0	16.5					77					
16.5	17.6					82					
17.6	19.1					93					
19.1	20.8					88					
20.8	22.5					88					
22.5	25.1					88					
25.1	28.1					90					
28.1	30.3					91					
30.3	32.1					33					Cavity 1.1m
32.1	34.5					94					
34.5	37.5					87					
37.5	40.5					93					
40.5	43.5					100					
43.5	46.5					100					
46.5	49.5					93					
49.5	51.4					89					
51.4	52.5					82					
52.5	55.5					100					
55.5	57.8					83					
57.8	58.5					86					
58.5	61.5					87					
61.5	64.4					95					
64.4	67.5					94					
67.5	70.5					97					
70.5	73.5					92					
73.5	76.5					85					
76.5	78.5					95					
											Average recovery 88%

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drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH2

Co-ordinates 13210 mN 9985 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		*Drilling type*	*DIAMOND*
Portion		Hole size	NQ
Elevation		Core size	
Declination	-50	Depth of casing	20 m
Direction	G 78 M T	Assay sample type	HALF CORE
Commenced	14.2.88	Water table	
Completed	15.2.88	Water yields	
Total depth	64.0m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

HQ CASING 0-20m STUCK IN HOLE

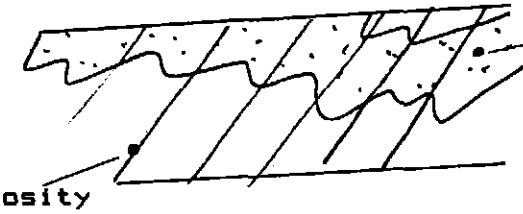
CYPRUS

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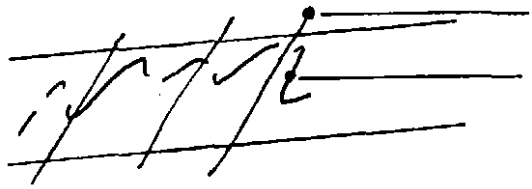
geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH2** Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit. No core.
1.5	11.0		RHYOLITIC QUARTZ-FELDSPAR-LITHIC TUFF Weathered cream-grey schistose, moderately sericitized medium grained quartz feldspar and rock fragments bearing tuff. Quartz grains 5-10% 1-2mm in size. Remnant feldspar occurs in pits on core surface. Schistosity is at an angle of 30-40deg to core axis. Weak PYRITE on fractures at 7.5m. 9.5m-10.4m - Rock is strongly sericitized, contains 2% disseminated PYRITE, 5mm clots of PYRITE and quartz veinlets. At 10.3m a fine but feathered sedimentary layer runs parallel to core.
			
			Quartz veins 2-3mm wide occur at an angle of 20deg to core axis and contain fine PYRITE. 10.4m-11.0m - Intense quartz veining - core loss.
11.0	37.1		EPICLASTIC SEDIMENTS 11.0m-11.5m - Green, well sorted, porous very fine grained sandstone. 11.5m-12.4m - Volcanoclastic breccia - fragments of weathered chert? and PYRITE occur in a sericite-quartz feldspar matrix. PYRITE fragments are slabby up to 4cm long and 1cm wide. Appear to be fragments of pre-existing beds. 12.1m - Quartz vein zone - rubble due to bad recovery. 10.3m - As above. 12.4m-16.5m - Mixed sandstone-breccia rocks. Schistose rock containing feldspar, quartz and rock fragments in a sericitized felsic fine grained groundmass. Rock fragments range in size from 1mm to 5mm. Bright green fuchsite? alteration occurs with streaky chlorite. Sulphide blebs or clasts are smeared out along schistosity and consist of SPHALERITE-GALENA-PYRITE possibly up to 5% of rock. Some smeared out zones may be beds or transposed slabby fragments.

From To Code Description mineralization in bold type

For example at 17.9m:



12.6m - Clast 4cm long of massive **SPHALERITE-GALENA** occurs in sandstone.
16.5m-20.6m - Green volcanoclastic sandstone and breccia. Rock consists of green chloritic medium grained sandstone and locally matrix supported breccia. Clasts up to 1cm size occur. They consist of massive **GALENA-SPHALERITE** and chlorite. Centred at 11.95m is a zone of very fine chloritic material - possibly chloritic mud.
17.0m - Schistosity is at an angle of 30deg to core axis. Feldspar-quartz rich, sericitized patches occur locally.
20.6m-24.8m - Feldspar-quartz-lithic breccia. Silicified at 20.7m. Generally sericitized very fine green sandstone which is chloritized. Contains abundant blebs, fragments, smears of dark (5-10%) **SPHALERITE-PYRITE**. Quartz fragments or eyes occur up to 5mm in size. Contains minor quartz-carbonate-**GALENA** veins.
24.9m-25.8m - Green sandstone breccia. As above - chloritized with fragments of chert, **PYRITE-SPHALERITE-GALENA, PYRITE**.
25.8m-26.5m - Sheared, highly sericitized rock - mudstone? Fine pale green with grey fine grained **SPHALERITE-PYRITE** stringers and streaks - possibly just a large fragment. Schistosity is at an angle of 40-30deg to core axis.
26.5m - Green sandstone-breccia as above. Larger clast (to 5cm) of white pitted silica which lines cavities where rock fragments once were. It appears that these result from weathering of **PYRITIC**-chert (dolomite?).
Fragments also include:
1. Grey **PYRITIC** pitted chert.
2. White soft carbonate? (dolomite?).
3. Quartz porphyry.
4. **PYRITE.**
5. Sericitic-chloritic mud containing massive **PYRITE-SPHALERITE-GALENA** clasts, for example 28.1m-28.3m.
6. **PYRITE-SPHALERITE-CHALCOPYRITE.**

Quartz-calcite-GALENA veins occur intermittently.
Localized feldspar-quartz-sericite tuff zones occur within sandstone, possibly as fragments but also possibly bedded. At 31.3m, at an angle of 25deg to core axis is a sedimentary contact. From 32.5m to 33.5m rock contains

From	To	Code	Description (mineralization in bold type)
			slabby clasts of massive **GALENA-PYRITE** ore to 6cm long, grey **PYRITIC** chert and brown siderite. Tension fracture and schistosity are infilled with **GALENA** and **PYRITE**. 32.9m-33.0m - Rock is banded. Massive sulphide consisting of chlorite, dark **SPHALERITE**, **PYRITE**, **GALENA** and **CHALCOPYRITE** banding is parallel to schistosity at an angle of 35deg to core axis. 33.5m-33.9m - Fine green sericitic siltstone. Top bedding? contact is at an angle of 60deg to core axis. Bottom contact is at an angle of 30deg to core axis. 33.9m-37.1m - Green sandstone-breccia as above. Large quartz porphyry fragments contain fine **SPHALERITE** disseminsations. Slabby white porous mineral clasts occur and have **GALENA** rich cores.
37.1	51.0		*MASSIVE SULPHIDE SEQUENCE* 37.1m-38.0m - Fractured **PYRITIC** fine grey silica-chert. 38.0m-42.0m - Sandstone breccia but with abundant massive quartz-feldspar porphyry fragments in a sericite-chlorite matrix with fine **SPHALERITE-PYRITE-CHALCOPYRITE** (5%). Silicified rock contains thin beds of fine **SPHALERITE-PYRITE** which appear to have been transposed in schistosity and form indiscreet folds. The rock in this zone appears to be a quartz-feldspar porphyry and contains spheroids of intergrown quartz-feldspar up to 7mm in diameter. These appear as reaction rims around feldspars. 42.0m-42.6m - *Grey shale with clast of quartz-feldspar porphyry.* 42.6m-44.1m - Strongly sericitized sandstone-breccia. Clasts include: 1. Banded-laminated calcite-hematite rock. 2. Grey chert. 3. **PYRITE-GALENA-SPHALERITE.** 4. Quartz-feldspar porphyry. 44.1m-44.4m - Massive **SPHALERITE-PYRITE-GALENA** rock with cavities infilled with quartz-calcite. Fragments of quartz-feldspar porphyry visible. Strong banding parallel to schistosity at an angle of 20deg to core axis. **SPHALERITE** *dominant 80% of sulphide - amber colored.* **PYRITE** - 10%. **GALENA** - 10%. Total estimated sulphide - 70%. 44.4m-48.7m - Chert-sulphide breccia. Amber **SPHALERITE**, **GALENA**, **PYRITE** and minor **CHALCOPYRITE** occurs as a fine anastomosing veinlet system parallel to schistosity in

From	To	Code	Description (mineralization in bold type)
			fractured chert. Slabby fragments of chert also occur as clasts in a silica-sulphide matrix. Brittle fracture by sulphide-bearing fluid has produced a crackle breccia. In more massive chert zones, laminations occur at an angle of 20deg to core axis = bedding. 48.7m-48.9m - Massive **SPHALERITE-GALENA**-silica rock. 48.9m-50.0m - Quartz-feldspar porphyritic rock sericitized with fine carbonate-bearing fractures. 50.0m-51.0m - Green sandstone-breccia with chert and carbonate clasts. The rock is sericitized, chloritized and contains patches and clasts of **SPHALERITE-GALENA-PYRITE** and *minor* **CHALCOPYRITE.**
51.0	64.0		EPICLASTIC SEDIMENTS Predominantly a green chloritized sandstone sequence with few clasts. Close to sulphide zone, above clasts are carbonate, chert, quartz-feldspar porphyry. Predominantly well sorted, fine to very fine sandstone. 56.5m-60.0m - Light grey blotches appear in green sandstone - appears that these are less chloritized, more massive 'islands' in predominantly chloritized rock. 58.8m - 10cm band of silicified-carbonate alteration with minor **SPHALERITE** and sericite halo. 60.2m - Similar band of **SPHALERITE-PYRITE** 2cm wide with sericite halo. 60.9m - Chert-**PYRITE-SPHALERITE-GALENA-CHALCOPYRITE** fragment. 61.0m - Carbonate fragments. 61.9m - Chert-**PYRITE**-carbonate fragments. 58.8m-64.0m - Sulphide fragments occur but are minor. Sulphide is mainly **SPHALERITE-PYRITE** and is locally disseminated, for example 61.4m. END OF HOLE

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assays

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Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH2 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292138	27	28	1.0	180	1030	2350	5	<101	0.015
292139	28	29	1.0	150	3100	7500	9	<101	0.075
292140	29	30	1.0	115	2200	5100	8	<101	0.035
292141	30	31	1.0	30	385	855	3	<101	0.01
292142	31	32	1.0	30	105	425	3	<101	0.035
292143	32	33	1.0	3725	1%	1.60	43	<101	0.065
292144	33	34	1.0	545	7000	4.40	13	<101	0.075
292894	34	35	1.0	160	0.37	0.83	3	200	0.035
292895	35	36	1.0	380	0.75	2.70	16	200	0.18
292896	36	37	1.0	60	380	1400	2	100	0.01
292897	37	38	1.0	60	700	2650	3	200	0.01
292898	38	39	1.0	55	800	2900	5	<100	0.01
292899	39	40	1.0	100	0.33	0.76	5	100	0.03
292900	40	41	1.0	10	80	120	2	100	0.005
292113	41	42	1.0	10	340	490	3	200	0.01
292114	42	43	1.0	20	575	900	3	100	0.01
292115	43	44	1.0	215	0.57	1.43	18	200	0.06
292116	44	45	1.0	1200	3.40	10.67	52	300	0.275
292117	45	46	1.0	1700	1.24	2.96	23	400	0.20
292118	46	47	1.0	335	0.29	1.03	16	300	0.17
292119	47	48	1.0	1000	0.67	1.74	31	500	0.48
292120	48	49	1.0	950	1.65	3.57	31	200	0.19
292121	49	50	1.0	120	0.86	1.25	18	<100	0.04
292122	50	51	1.0	150	0.96	2.22	18	200	0.05

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Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH2 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					Tricone
1.5	3.0					13					NQ coring
3.0	3.5					80					
3.5	4.0					80					
4.0	4.5					80					
4.5	5.5					75					
5.5	6.4					72					
6.4	7.6					42					
7.6	8.3					50					
8.3	9.5					46					
9.5	10.0					58					
10.0	10.5					90					
10.5	11.5					50					
11.5	12.1					33					
12.1	12.5					87					
12.5	13.1					83					
13.1	13.7					58					
13.7	14.5					75					
14.5	16.0					100					
16.0	17.5					97					
17.5	18.9					96					
18.9	20.4					100					
20.4	21.9					93					
21.9	23.5					87					
23.5	25.0					100					
25.0	25.8					87					
25.8	28.0					84					
28.0	30.4					75					
30.4	31.0					75					
31.0	31.9					78					
31.9	34.0					95					
34.0	35.8					89					
35.8	37.0					100					
37.0	38.4					71					
38.4	40.0					87					
40.0	42.8					96					
42.8	45.9					100					
45.9	48.9					100					
48.9	52.0					97					
52.0	55.0					97					
55.0	58.0					100					
58.0	61.0					100					
61.0	64.0					100					

743240

drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH3

Co-ordinates 13350 mN 10080 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		*Drilling type*	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 258M T	Assay sample type	HALF CORE
Commenced	15.2.88	Water table	
Completed	17.2.88	Water yields	
Total depth	69.2m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

NO ASSAYS

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geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH3** Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit. No core.
1.5	2.0		Vegetation, weathered rock, quartz gravel.
2.0	26.7		PORPHYRITIC-QUARTZ-FELDSPAR-BIOTITE TUFF Same rock as in base of WH1. Has a tiger striped appearance caused by differential zones of sericitization and silicification. Comprised of fine quartz-feldspar-biotite in a fine grey sericitized felsic groundmass. 4.8m-5.0m - **PYRITIC** crush zone. 12.3m - 5cm quartz vein. Locally fine layers suggest the rock is a tuff or sediment in origin for example 13.5m. Schistosity is at an angle of 20-35deg to core axis. In places the rock contains up to 1% disseminated **PYRITE**. 20.5m-26.7m - Rock contains fine clasts of **PYRITIC** and silicified blocks containing fine **PYRITE**. Appears to grade downhole into next unit so probably is a tuff or tuffaceous sediment. 25.0m-26.7m - Fragments most abundant. Sulphide is weathered out and leaves pitted siliceous lined cavities. Strongly sericitized zone. 24.0m-24.3m - Unconsolidated sandstone.
26.7	42.9		EPICLASTIC SANDSTONE AND BRECCIA Medium grained, moderately sorted, green-grey, sericitized quartz-feldspar-lithic volcanoclastic sandstone containing fragments up to 6cm of chloritic quartz-feldspar tuff. 28.8m-30.0m - Sheared, sericitic, quartz veined, fine fault pug - on either side of zone for up to 1 meter, the rock is fine grained, sheared, sericitic (yellow green) and locally siliceous. This is possibly a fine silty bed in which shearing has taken place. 33.0m-34.1m - Same sheared fine grained rock, highly sericitized. Lower contact, bedding is at an angle of 40deg to core axis.. 34.1m - Medium grained green sandstone as above but containing laminated beds of grey chert at an angle of 35deg to core axis up to 5-6cm thick. Sandstone contains few minor and fine **PYRITE** fragments. 36.3m-37.8m - Rock has a pervasive and vein controlled pink alteration that gives it a massive granitic appearance - probably dolomite-ankerite alteration. 39.8m-42.0m - Sandstone contains minor **PYRITE** clasts and is affected by fine brown carbonate-silica alteration

geology

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH3 Page 2

From	To	Code	Description (mineralization in bold type)
			which gives the rock a brecciated appearance. Islands of unaltered green sandstone remains in the light brown silica matrix. 42.0m-42.4m - Grey chert. Upper contact - diffuse but at a high angle to the core axis. Lower contact is at an angle of 60deg to core axis. 42.4m-42.9m - Siliceous fine grained brown alteration and breccia zone. Probably a type of hornfels.
42.9	48.7		MAFIC DYKE Dark green, non-schistose, very fine grained mafic dyke. Contains minor quartz-carbonate veining and disseminated **PYRITE**. 46.2m-46.4m - Unconsolodated sandstone. 46.4m-47.0m - Brown silicified, altered green sandstone fragment in dyke. Abundant quartz-carbonate veining. 47.0m-48.7m - Mafic dyke.
48.7	69.2		MASSIVE GREY-BROWN QUARTZ-FELDSPAR-BIOTITE PORPHYRY Phenocrysts less than 10%. Quartz 1-2mm Feldspar 1-2mm Biotite 1mm in a light grey-brown fine grained matrix. Minor quartz-carbonate veining. END OF HOLE.

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geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH3 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					
1.5	2.5					100					
2.5	3.6					100					
3.6	4.8					92					
4.8	6.0					92					
6.0	7.5					93					
7.5	9.0					87					
9.0	10.5					93					
10.5	12.0					100					
12.0	13.5					97					
13.5	14.1					75					
14.1	15.0					89					
15.0	16.5					93					
16.5	18.0					97					
18.0	19.5					97					
19.5	21.0					90					
21.0	22.5					83					
22.5	24.0					90					Sand seam 24-24.3m
24.0	25.4					100					
25.4	26.8					100					
26.8	28.3					93					
28.3	29.5					92					
29.5	31.0					80					
31.0	32.5					93					
32.5	33.0					100					
33.0	33.9					78					
33.9	35.3					57					
35.3	36.0					86					
36.0	36.8					100					
36.8	38.1					100					
38.1	38.7					100					
38.7	40.3					94					
40.3	41.8					100					
41.8	43.3					97					
43.3	44.2					100					
44.2	45.0					81					
45.0	46.2					92					Sand seam
46.2	46.5					50					
46.5	48.0					87					
48.0	49.5					80					
49.5	50.2					62					
50.2	51.0					94					
51.0	52.5					93					
52.5	54.0					93					
54.0	55.5					83					
55.5	57.0					80					
57.0	58.0					50					
58.0	59.0					80					

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743244

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH3 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
59.0	60.0					90					
60.0	61.2					83					
61.2	62.7					93					
62.7	64.2					80					
64.2	65.7					80					
65.7	66.7					60					
66.7	68.1					79					
68.1	69.0					83					

CYPRUS

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743245

drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4

Co-ordinates 13150 mN 10040 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 258M T	Assay sample type	HALF CORE
Commenced	17.2.88	Water table	
Completed	19.2.88	Water yields	
Total depth	95.1m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

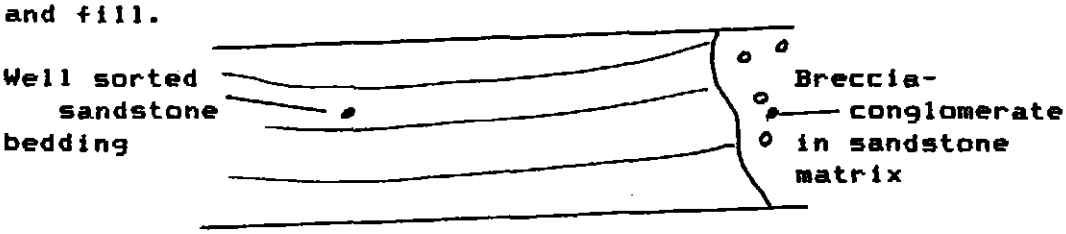
Notes

CYPRUS

geology

743246

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4 Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit. No core.
1.5	1.8		Peat-gravel.
1.8	2.1		MUDSTONE Soft, weathered, fine grained grey mudstone.
2.1	36.0		QUARTZ-FELDSPAR CHLORITIC LAPILLI TUFF Light green, moderately schistose rock consisting of abundant dark green chloritized fragments (up to 5cm in elongate), anhedral quartz (1-3mm) and feldspar (1-4mm) in a pale green fine grained felsic matrix. Locallised clasts or bands of fine green mudstone occur, for example 12.7m.
36.0	45.4		EPICLASTIC SANDSTONE AND POLYMICTIC BRECCIAS 36.0m-38.6m - Pale green medium to fine grained quartz-feldspar bearing moderately sorted sandstone. Moderately chloritized, moderately sericitized with isolated bands of chloritic fragmental material, clasts of quartz porphyry and weak PYRITE layers. 38.6m-39.1m - Arkosic sandstone. Quartz-feldspar rich, moderately sorted, medium-coarse grained. Lower bedding contact is at an angle of 30deg to core axis. 39.1m-45.4m - Sandstone and breccia. Alternating layers (beds?) of very coarse grained sandstone-conglomerate containing quartz-feldspar plus fragments of quartz-feldspar porphyry and medium-fine green sandstone and siltstone. Rock contains up to 2% disseminated PYRITE. Finer layers are better sorted and bedding visable at an angle of 10-15deg to core axis, that is down core axis. At 44.5m chert fragment (5cm) with disseminated and banded PYRITE. At 41.0m coarse breccia zone appears to truncate bedding of fine sandy layer suggestive of channel erosion and fill.  44.5m-45.4m - Rock becomes sheared, silicified and contained minor quartz-carbonate veins.

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From	To	Code	Description mineralization in bold type
45.4	49.0		FAULT Zone of highly sheared chlorite-quartz-calcite-**PYRITE** breccia and veining. Chlorite and **PYRITE** form matrix to breccia zones. 46.2m-47.2m - Within the fault is a relatively intact zone of green sandstone containing a massive sulphide zone (25cm) of amber **SPHALERITE, GALENA, PYRITE** and **CHALCOPYRITE**. Mineralization is associated with grey chert fragments and minor quartz-calcite veining.
49.0	54.35		EPICLASTIC SANDSTONE-BRECCIA As described above. But fragments now include quartz-feldspar porphyry, sulphide (**PYRITE, PYRITE-SPHALERITE-GALENA**) and other blocks of green sandstone and chert.
54.35	55.5		SULPHIDE-CHERT BRECCIA Slabby fragments of **PYRITIC** grey chert, **SPHALERITE-GALENA-PYRITE, PYRITE** occur in a fine chlorite-**PYRITE** matrix. 54.0m -A banded zone of massive, relatively coarse grained **SPHALERITE-GALENA-PYRITE** probably occurs as a fragment. In lower part breccia is finer grained and siliceous. The contact of bedding with the lower unit is at an angle of 25deg to the core axis.
55.5	84.0		EPICLASTIC SANDSTONES AND BRECCIAS Unit as described above. Contains matrix supported clasts of massive sulphide (**PYRITE, PYRITE-SPHALERITE-GALENA**) up to 5cm, grey chert, massive siliceous quartz-feldspar porphyry and white cryptocrystalline silica (chert?). Matrix is a green medium-coarse grained sandstone with quartz-feldspar and chlorite matrix. At 58m schistosity is at an angle of 30deg to the core axis. Fragments appear to increase in size down hole. Sections of fragments to 10cm of quartz-feldspar porphyry and white silica occur in core. White silica clast display crude banding in places, are locally hematitic and contain very fine **PYRITE** - petrography indicates these are calcite-quartz clasts. Fragments of green crowded feldspar-quartz porphyry plus **PYRITE**-chlorite also occur. At 62.4m quartz porphyry breccia with a matrix of quartz and carbonate and clasts of quartz porphyry occurs as clast inside the green sandstone. 62.7m-74.2m - Green sandstone predominates over coarse

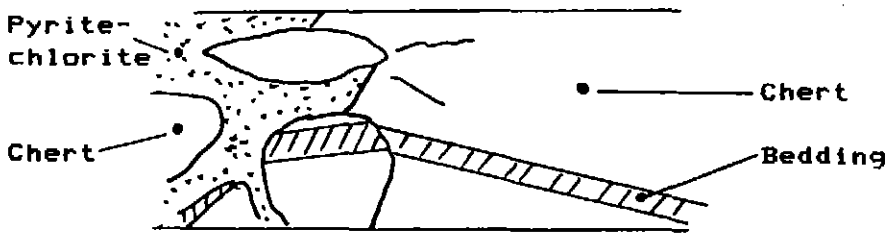
From	To	Code	Description (mineralization in bold type)
			breccia. Clasts which occur probably only comprise 1-2% of rock and are dominantly chlorite-**PYRITE**. 74.2m-83.6m - Breccia with large fragments predominates. Fragments of: 1. Siliceous, massive quartz-feldspar porphyry. 2. Crowded chloritic porphyritic quartz-feldspar tuff. 3. White fine silica-calcite. 4. Laminated **PYRITIC** grey chert. 5. **SPHALERITE-GALENA-PYRITE** (massive). 6. **PYRITE**. At 75.8m a pressure shadow of **PYRITE** has formed along schistosity behind a massive sparce quartz-feldspar porphyry fragment. 78.3m-83.6m - Silicified-carbonated zone. Same rock as above but now near white due to pervasive and vein alteration. Downhole texture became more obliterated. Veins of calcite and quartz occur and locally contain **GALENA** and **PYRITE**. Veins cross-cut fragments, matrix and schistosity. Large vein centred at 83.5m, 8cm thick, coarse intergrown quartz-calcite.
84.0	85.4		MASSIVE SULPHIDE SEQUENCE Top 20cm - Zone of chert-sulphide breccia and sericite sandstone. Small slabby fragments of grey chert **PYRITE**, **SPHALERITE** and green sandstone occur in a siliceous **PYRITIC** fine grained matrix. Next 10cm is a zone of quartz-calcite veining. Veins cut sediment plus sulphide. 84.54m-84.9m - Massive banded sulphides. Alternating bands of **PYRITE**-rich (5mm) and **SPHALERITE-GALENA** rich rock occur. Interbanded quartz-calcite blebs are common. **GALENA** only appears to occur in quartz-calcite zones. Banding is at an angle of 80deg to core axis. At 84.85m large remnant clast of silicified-calcified sediment occurs and contains disseminated sulphide which is capped by a narrow 1.5cm thick zone of chloritic mudstone? then passes downhole into a grey brittle fractured chert. Contact is at an angle of 80deg to core axis. In the immediate contact zone, the chert appears to be conformable with sulphide banding. Narrow sulphide layers in chert are disrupted by later brittle fracture. At 84m, rock is sheared and brecciated and passes immediately into a zone of chert with layering subparallel to core axis at an angle of 10deg. Suggest fracture and rotation.

743249

geology

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4 Page 4

From	To	Code	Description (mineralization in bold type)
			This is evident in this zone, for example cut section:



It appears that bedding is rotated perpendicular to itself over 2-3cm. Chert passes down hole in approximately one meter of fine green sandstone.

85.4 95.1

EPICLAST SANDSTONE AND BRECCIA

Green, well sorted, fine-medium grained volcanoclastic feldspar-quartz-lithic sandstone with fragment as above.
86.3m-86.5m - Brecciated weakly PYRITIC grey chert.
87.3m - 10cm zone of brecciated sulphide chert. These appear to be fragments. Other fragments include:
1. Sulphides - GALENA, SPHALERITE, PYRITE.
2. Chlorite.
3. White silica-dolomite.
4. Quartz-feldspar porphyry.
5. Quartz-feldspar-biotite porphyry.

87.0m-87.5m - Quartz-calcite veins with GALENA-SPHALERITE-chlorite occur up to 1cm thick at an angle of 30deg to core axis.
91.1m-91.3m - Sheared sericite-chlorite zone at an angle of 20deg to core axis.

END OF HOLE.

743250

assays

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292126	45.4	46.4	1.0	120	1450	0.33	11	<101	0.03
292127	46.4	47.4	1.0	400	1.19	2.54	48	<100	0.085
292128	47.4	49.0	1.6	85	1700	0.42	16	<101	0.03
292129	49.0	50.0	1.0	170	4150	0.85	19	<101	0.055
292130	50.0	51.0	1.0	100	3400	0.65	18	<101	0.055
292131	53.3	54.3	1.0	750	5.53	11.18	74	300	0.085
292132	84.0	85.5	1.0	450	6.70	12.05	168	200	0.88
292133	54.3	54.7	0.4	100	5500	0.80	14	<101	0.03
292145	79.0	81.0	2.0	10	75	700	3	<101	0.005
292146	81.0	83.0	2.0	10	105	1300	4	<101	0.010
292147	83.0	84.0	1.0	20	380	1950	5	<101	0.025

CYPRUS

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743251

geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					Triconed
1.5	3.0					73					
3.0	4.0					70					
4.0	5.0					90					
5.0	6.0					90					
6.0	6.7					86					
6.7	7.9					100					
7.9	9.0					91					
9.0	10.5					100					
10.5	12.0					93					
12.0	13.3					92					
13.3	14.8					100					
14.8	16.8					85					
16.8	18.0					83					
18.0	19.4					86					
19.4	20.9					93					
20.9	22.5					100					
22.5	24.0					90					
24.0	25.5					93					
25.5	25.8					100					
25.8	27.0					92					
27.0	28.5					87					
28.5	30.0					93					
30.0	31.5					100					
31.5	33.0					80					
33.0	34.5					80					
34.5	36.0					100					
36.0	37.5					53					
37.5	39.0					67					
39.0	40.5					100					
40.5	42.0					100					
42.0	43.5					100					
43.5	45.0					90					
45.0	46.2					62					
46.2	47.3					100					
47.3	48.0					86					
48.0	49.0					80					
49.0	50.5					83					
50.5	51.6					82					
51.6	53.1					100					
53.1	54.2					77					
54.2	55.7					93					
55.7	57.0					100					
57.0	58.4					100					
58.4	59.9					93					
59.9	61.4					93					
61.4	62.8					100					
62.8	64.2					100					

CYPRUS

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743252

geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH4 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
64.2	65.7					100					
65.7	67.2					93					
67.2	68.6					100					
68.6	70.0					100					
70.0	71.4					87					
71.4	72.8					100					
72.8	74.3					100					
74.3	75.8					93					
75.8	77.3					97					
77.3	78.8					100					
78.8	80.3					97					
80.3	81.8					90					
81.8	83.3					100					
83.3	84.8					100					
84.8	86.0					92					
86.0	87.5					97					
87.5	89.2					100					
89.2	90.6					89					
90.6	92.2					100					
92.2	93.7					97					
93.7	95.1					100					

743253

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drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH5

Co-ordinates 13100 mN 10040 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ,NQ
Elevation		Core size	
Declination	-50	Depth of casing	33m
Direction	G 258M T	Assay sample type	HALF CORE
Commenced	23.2.88	Water table	
Completed	25.2.88	Water yields	
Total depth	82.5m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

HQ 0-33
NQ 33-82.5

CYPRUS

743254

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH5** Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit. No core.
1.5	7.5		RHYOLITIC QUARTZ-FELDSPAR-LITHIC TUFF Weathered medium grained quartz-feldspar tuff with sericitized fragments and fiame up to 5cm long in a fine felsic groundmass. Quartz and feldspar 1-2mm in size. Moderately well lithified.
7.5	43.0		EPICLASTIC SANDSTONE AND BRECCIAS 7.5m-25.0m - Extremely soft, sericitized locally PYRITIC rock. Medium grained sandstone with quartz-feldspar-lithics in a fine felsic groundmass. 25.0m-27.5m - Lithified rock. Fine grained mudstone clasts, chloritized fragments, soft white carbonatized porphyry fragments, fine PYRITE fragments, SPHALERITE-PYRITE clasts in a green moderately sorted medium grained quartz-feldspar sandstone. 27.5m-30.5m - Fault melange. The above rock has been silicified, sericitized and highly sheared. Fragments are locally rectangular. Tensional cracks contain quartz veins. 30.5m-32.0m - Sandstone as above. White fragments probably silica after sulphide weathering. 40.8m - Chlorite-PYRITE bands subparallel to schistosity at an angle of 30deg to core axis. 32.0m-41.3m - Predominantly medium grained, moderately sorted pale green volcanoclastic sandstone. 41.3m - Sandstone contains abundant clasts of massive quartz-feldspar-porphyry and grey chert. Bedding is at an angle of 35deg to core axis.
43.0	46.0		GREEN RHYOLITIC QUARTZ-FELDSPAR-LITHIC LAPILLI TUFF Contains abundant dark green chloritized clasts in a pale green quartz-feldspar matrix.
46.0	60.3		SILICIFIED ZONE Rock of the above rock type becomes bleached cream white (overprinting chlorite green) and quartz-calcite veined. Veins are abundant at 20-25 per meter and contain quartz-calcite and dark green chlorite and PYRITE. In zones of more pervasive alteration the rock takes on a massive brown grey color with remnant grey chloritic islands and yellow-white carbonate replaced feldspars.

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH5** Page **2**

From	To	Code	Description (mineralization in bold type)
60.3	63.0		EPICLASTIC SANDSTONE AND BRECCIA Predominantly coarse breccia in fine-medium grained green quartz-feldspar-lithic sandstone. Fragments: 1. Massive quartz-feldspar porphyry. 2. Coarse quartz feldspar-lithic breccia which contains chloritic-hematitic-**PYRITIC** fragments. At 62.6m 3cm **PYRITE** zone at an angle of 20deg to core axis formed in fractured porphyry fragment.
63.0	77..8		RHYOLITIC-QUARTZ-FELDSPAR-LITHIC TUFF Mottled dark green chloritized fragments. Must be water lain or reworked as contains narrow sandstone layer. For example at 74.4m bedding is at an angle of 50deg to core axis. Contains patchy silicification, for example at 65m and carbonate veining for example 72.2m with sericite halos.
77.8	82.5		EPICLASTIC SANDSTONE AND BRECCIA Predominantly breccia. Matrix is moderately to poorly sorted, fine to medium grained, green quartz-feldspar-lithic sandstone. Fragments are 2mm to 20cm. 1. Quartz-feldspar breccia in a pale cream siliceous groundmass. 2. Massive grey quartz-feldspar porphyry. 3. Grey chert. 4. **PYRITE** and **SPHALERITE-GALENA.** 5. Fine grained cryptocrystalline silica-calcite. 6. Crustiform silica-lined cavities (after sulphide). 7. Crowded quartz-feldspar tuff. 81.7m-82.3m - Crowded quartz-feldspar chloritic-sericitic tuff bed lower contact with sandstone-breccia bedding at an angle of 50deg to core axis. END OF HOLE.

743256

assays

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH5 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
293215	27	29	2.0	<5	15	120	0.5	14	<0.005
293216	29	31	2.0	<5	15	105	1.0	12	<0.005
293217	31	33	2.0	75	750	2250	6.0	24	<0.005
293207	46	48	2.0	5	10	125	1.0	2	0.01
293208	48	50	2.0	5	5	125	0.5	2	<0.005
293209	50	52	2.0	5	5	95	1.5	1	<0.005
293210	52	54	2.0	5	5	130	0.5	2	<0.005
293211	54	56	2.0	10	<5	175	<0.5	2	<0.005
293212	56	58	2.0	5	5	120	1.0	2	<0.005
293213	58	60	2.0	5	5	135	0.5	1	<0.005
293214	60	62	2.0	10	105	145	0.5	8	0.05

CYPRUS

743257

geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH5 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					
1.5	3.0					73					
3.0	4.5					60					
4.5	6.0					93					
6.0	7.5					33					
7.5	9.0					40					
9.0	10.3					69					
10.3	11.8					40					
11.8	13.3					93					
13.3	14.5					67					
14.5	16.0					97					
16.0	17.5					33					
17.5	18.5					90					
18.5	20.0					93					
20.0	21.5					100					
21.5	23.0					100					
23.0	24.5					90					
24.5	26.0					100					
26.0	27.5					87					
27.5	29.0					100					
29.0	30.5					100					
30.5	32.0					93					
32.0	32.9					89					
32.9	33.0					100					
33.0	34.5					90					
34.5	36.0					93					
36.0	37.5					100					
37.5	39.0					100					
39.0	40.5					100					
40.5	42.0					87					
42.0	43.5					100					
43.5	45.0					100					
45.0	46.5					97					
46.5	48.0					100					
48.0	48.9					61					
48.9	50.0					73					
50.0	51.0					85					
51.0	52.5					93					
52.5	54.0					100					
54.0	55.7					100					
55.7	57.0					100					
57.0	59.0					100					
59.0	60.0					90					
60.0	61.5					100					
61.5	63.0					100					
63.0	64.5					100					
64.5	66.0					90					
66.0	67.5					93					

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743258

geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH5 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
67.5	69.0					100					
69.0	70.5					100					
70.5	72.0					100					
72.0	73.5					100					
73.5	75.0					93					
75.0	76.5					100					
76.5	77.9					100					
77.9	79.5					100					
79.5	81.0					100					
81.0	82.5					93					

CYPRUS

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743259

drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH6

Co-ordinates 13100 mN 10090 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ, NQ
Elevation		Core size	
Declination	-50	Depth of casing	34m
Direction	G 258M T	Assay sample type	HALF CORE
Commenced	25.2.88	Water table	
Completed	27.2.88	Water yields	
Total depth	68.8m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

HQ 1.5- 32.4
NQ 32.4- 68.8

CYPRUS

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH6** Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller Bit. No core.
1.5	42.0		RHYOLITIC QUARTZ-FELDSPAR-BIOTITE TUFF Cream grey, soft, weathered, sericitized tuff with 10-15% phenocrysts of quartz (eyes) 1 to 4mm and sericitized feldspar 1 to 2mm in a grey micaceous (sericite) felsic matrix. Green chloritic flakes replace biotite? 6.0m-7.6m - Quartz-chlorite vein. 20.7m - 2cm band of **PYRITE** replacement of rock possible an incipiently developed vein. 22.7m-25.2m - Rock has a grey-green appearance due to patchy silicification and **PYRITE** alteration. Narrow fractures are loci for alteration. 26.7m-27.5m - Quartz-chlorite vein. 30.4m-30.6m - Quartz-chlorite vein. 30.4m-42.0m - Patchy development of quartz-chlorite-**PYRITE** veins, white-grey silica-**PYRITE** alteration. Rock fractured parallel to core axis. Fragments begin to occur at approximately 35.5m, generally fine grained sandstone fragments. Contact gradational.
42.0	68.8		EPICLASTIC SANDSTONE AND BRECCIAS Upper contact with tuff is at an angle of 30deg to core axis. Rock consists of green very fine to medium grained sandstone which is moderately to well sorted, bedded and composed of quartz-feldspar and volcanic rock fragments. Breccia zones with the sequence are matrix supported (with green sandstone matrix) and fragments. Fragments include (up to 4cm size): 1. Coarse quartz-feldspar sandstone-grit. 2. Grey chert. 3. Chert-**PYRITE**. 4. **PYRITE**. 5. Massive **GALENA-SPHALERITE** and **CHALCOPYRITE**. 6. Quartz-feldspar porphyry. 7. White fine grained silica-calcite. 8. Chert-**GALENA-SPHALERITE**. At 42.5m bedding is at an angle of 45deg to core axis. At 45.3m - as above. From 42.0m to 46.5m sediments are very fine grained and silty. 46.5m-47.8m - Chert. Highly fractured grey **PYRITIC** chert. 47.8m-48.6m - Sulphide chert breccia. Abundant chert, **GALENA-SPHALERITE** and **PYRITE** fragments in green sandstone.

geology

Project **ELLIOTT BAY** Prospect **WART HILL** Hole **EBT-88-WH6** Page **2**

From	To	Code	Description (mineralization in bold type)
			Patchy sulphides, especially **PYRITE** tend to be smeared along schistosity. 48.6m-49.5m - Tuff unit in sandstone sequence - pale green, sericitized. 49.5m-50.5m - Green sandstone-breccia. Abundant high grade **GALENA-SPHALERITE** clasts around 50m have slabby shape aligned subparallel to core axis. 50.5m-51.1m - Sandstone-breccia. As above but with strong sericite overprint and fine contorted quartz-**PYRITE** veinlets and patchy white silicification. 51.1m-53.5m - Quartz-chlorite-**PYRITE-GALENA** vein. Upper contact is strongly sericitized at an angle of 20deg to core axis. 53.5m-53.9m - Medium grained, well sorted quartz-feldspar sandstone with fine **PYRITE** veinlets and strong sericite overprint. 53.9m-55.5m - Strong calcite-sericite alteration of sediments. Core is pale brown-green with mottled texture. 55.5m-60.0m - Strong sericite-silica alteration with minor carbonate and **PYRITE**. 60.0m-61.0m - Chert-**PYRITE** breccia. Fragments of grey chert containing **PYRITE** and hematite occur in a matrix of **PYRITE** and chert fragments. 61.0m-64.0m - Sandstone-breccia with patchy calcite-quartz-**PYRITE**-sericite blebs and veins. Shearing occurs subparalel to core axis. 64.0m-68.8m - Green sericitized sandstone with abundant dark streaks of very fine **PYRITE** subparallel to schistosity at an angle of 50deg to core axis. END OF HOLE.

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assays

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH6 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
293221	19	21	2.0	5	<10	45	<0.5	12	0.005
293222	21	23	2.0	5	5	20	0.5	3	0.045
293223	23	25	2.0	5	<5	25	0.5	3	0.01
293224	25	27	2.0	<5	<5	40	0.5	4	<0.005
293225	27	29	2.0	<5	<5	40	1.0	4	<0.005
293226	29	31	2.0	<5	<5	45	1.0	2	<0.005
293227	31	33	2.0	5	<5	135	1.0	5	<0.005
293228	33	35	2.0	5	<5	70	0.5	9	<0.005
293229	35	37	2.0	5	<5	200	0.5	63	<0.005
293230	37	39	2.0	5	15	525	0.5	44	<0.005
293231	39	41	2.0	5	10	120	<0.5	22	<0.005
293232	41	42	1.0	5	120	300	<0.5	11	<0.005
293233	42	43	1.0	30	815	1800	2.5	53	<0.005
293234	43	44	1.0	260	4400	7650	6.0	63	0.08
293235	44	45	1.0	140	1750	3250	3.0	33	0.07
293236	45	46	1.0	25	330	480	<0.5	20	<0.005
293237	46	47	1.0	75	1300	2500	36.0	25	0.025
293238	47	48	1.0	980	1.67	2.80	77.0	103	0.78
293239	48	49	1.0	1350	1.66	2.96	24.0	100	0.57
293240	49	50	1.0	30	470	900	2.0	10	<0.005
293241	50	51	1.0	1600	1.24	2.22	17.0	24	0.045
293242	51	54	3.0	35	1050	1800	4.5	12	<0.005
293243	54	55	1.0	20	680	990	2.5	8	<0.005
293244	55	56	1.0	35	510	740	4.5	7	<0.005
293245	56	57	1.0	45	1100	1250	4.0	4	<0.005
293246	57	58	1.0	90	3400	3350	21.0	19	0.02
293247	58	59	1.0	175	4650	3900	26.0	33	0.02
293248	59	60	1.0	70	800	2250	6.5	13	0.01
293249	60	61	1.0	405	6200	1.06	77.0	67	0.52
293250	61	62	1.0	145	1500	2100	17.0	31	0.045
293509	62	63	1.0	60	1850	4250	21.0	39	0.02
293510	63	64	1.0	30	820	1200	17.0	31	0.01
293511	64	66	2.0	25	530	1400	18.0	40	<0.005
293512	66	68.8	2.8	20	865	1650	8.5	92	<0.005

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Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH6 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					Triconed
1.5	3.0					33					
3.0	4.5					33					
4.5	5.0					60					
5.0	6.0					-					
6.0	6.5					40					
6.5	7.5					100					
7.5	8.8					38					
8.8	10.4					84					
10.4	12.0					94					
12.0	13.5					87					
13.5	15.0					73					
15.0	16.5					80					
16.5	17.7					92					
17.7	19.2					67					
19.2	20.8					34					
20.8	22.3					73					
22.3	23.7					100					
23.7	25.2					100					
25.2	26.7					93					
26.7	27.7					50					
27.7	29.0					96					
29.0	30.4					100					
30.4	31.9					100					
31.9	32.4					100					
32.4	33.9					87					
33.9	35.1					83					
35.1	36.0					78					
36.0	37.5					100					
37.5	39.0					93					
39.0	40.5					100					
40.5	42.0					90					
42.0	43.5					97					
43.5	45.0					97					
45.0	46.5					100					
46.5	47.5					75					
47.5	48.0					100					
48.0	49.5					93					
49.5	51.0					100					
51.0	51.6					33					
51.6	52.3					7					
52.3	53.3					5					
53.3	53.9					75					
53.9	55.5					94					
55.5	56.3					94					
56.3	57.0					93					
57.0	58.5					100					
58.5	60.0					100					

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Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH6 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
60.0	61.4					89					
61.4	62.6					96					
62.6	64.2					97					
64.2	65.7					100					
65.7	67.3					94					
67.3	68.8					100					

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drill log cover sheet

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7

Co-ordinates 13210 mN 10070 mE Logged by C.TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ, NQ
Elevation		Core size	
Declination	-60	Depth of casing	
Direction	G 258M T	Assay sample type	HALF CORE
Commenced	28.2.88	Water table	
Completed	1.3.88	Water yields	
Total depth	120.0m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.

Notes

HQ 1.5- 29.3
NQ 29.3-120.0

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geology

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit. No core.
1.5	90.5		RHYOLITIC QUARTZ-FELDSPAR-BIOTITE TUFF Medium grained, porphyritic, grey-green crystal tuff with moderate to intense zones of chlorite, sericite, quartz-carbonate alteration. Probably contains a lithic component as chloritized 'blotches' or fiame occur throughout. 0-27.0m - Weathered, soft, highly sericitic rock. At 26m a quartz-chlorite-PYRITE carbonate vein occurs subparallel to core axis. White bleaching (quartz-carbonate-sericite alteration) occurs on vein margins. This type of veining-bleaching occurs throughout this unit and appears to increase in intensity downhole. 27.0m-42.0m - Rock as above, but pervasive sericite alteration more evident as is patchy to strong quartz-carbonate-PYRITE alteration and veining. 42.0m-57.0m - Locally strong alteration as above. 57.0m-61.3m - Patchy quartz-carbonate-PYRITE alteration. Rock contains a number of fine grained silty zones. Suggests local reworking. 61.3m-63.0m - Intense silicification (quartz-carbonate alteration). Whole rock sequence appears massive due to alteration. Schistosity appears to be obliterated with increased alteration intensity downhole. 63.0m-82.5m - Patchy quartz-carbonate-PYRITE alteration. 82.5m-85.7m - Rock is cream-white and massive due to intense quartz-carbonate-PYRITE-sericite alteration.
90.5	117.5		EPICLASTIC SANDSTONE AND BRECCIAS Sericitized sedimentary volcaniclastic breccia consisting of abundant fragments up to 6cm size in a relatively well sorted, medium grained green sandstone matrix. The breccia (or conglomerate) is matrix supported. Matrix consists of quartz-feldspar and fine volcanic rock fragments. Patchy blebs (1-2mm size) of stretched GALENA-PYRITE and PYRITE appear to be fragments which have been smeared out along schistosity.

geology

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 2

From	To	Code	Description (mineralization in bold type)
			Fragment types include: 1. Grey PYRITIC chert with carbonate-quartz fracture infill. 2. Fine white cloudy silica and/or carbonate with PYRITIC fracture infill and fine PYRITIC blebs. 3. PYRITE. 4. GALENA-PYRITE (massive). 5. GALENA-SPHALERITE-PYRITE (massive). 6. Light green chert or silicified siltstone. 7. Massive quartz-feldspar porphyry with fine carbonate-quartz-PYRITE-GALENA fracture infill. 91.6m-92.1m - Alternating dark green and grey layers occur at an angle of 60deg to core axis. Dark grey layers consist of very finely desseminated PYRITE (approx 15%). 90.8m-92.1m - Abundant grey-green chert fragments in a sandstone matrix which contains quartz-PYRITE-chlorite alteration. 92.6m - Coarse grained SPHALERITE-GALENA-QUARTZ-CARBONATE patch in a white silica-carbonate fragment. 95.0m - 1cm quartz-carbonate-GALENA vein at an angle of 45deg to core axis. 95.5m-96.0m - Zone of intense quartz-carbonate-PYRITE veining at an angle of 10deg to core axis (5cm wide). Abundant fine grey PYRITIC zones. PYRITIC blebs and patches common. 97.2m - Quartz-carbonate-PYRITE veins at an angle of 20deg to core axis. 97.5m-98.0m - Dark grey-green zone with abundant very fine PYRITE (20%) in a fine sandstone layer. 98.4m - 10cm zone of quartz-carbonate-PYRITE veining at an angle of 20deg to core axis. 99.0m-99.8m - Quartz-carbonate PYRITE-chlorite vein runs subparallel to core axis. 103.5m-106.0m - Fine-medium grained epiclastic sandstone with zones of strong sericite-PYRITE alteration, and smeared out, elongate PYRITIC fragments. 106.5m-110.4m - Fine bleached zone with sericite

geology

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 3

From	To	Code	Description (mineralization in bold type)
			alteration and abundant quartz-carbonate fracture infill.
			110.4m-110.6m - Dark green-yellow very fine grained sericite-chlorite rock - siltstone?
			111.3m-112.5m - Dark grey, very fine grained, carbonate-quartz veined chert with abundant fine **PYRITE** disseminations.
			112.5m-115.3m - Fine green sericitized pale green sandstone predominates, no exotic fragments occur.
			115.7m - 10cm block of banded fine grey chert.
117.5	120.0		RHYOLITIC QUARTZ-FELDSPAR-BIOTITE TUFF
			Rock as described for top of hole. Contains moderate quartz-carbonate-sericite alteration.
			END OF HOLE.

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assays

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
294001	58	59	1.0	15	60	45	<0.5	<100	<0.005
294002	59	60	1.0	15	55	55	0.5	<100	<0.005
294003	60	61	1.0	25	65	40	0.5	<100	0.005
294004	61	62	1.0	30	65	75	<0.5	<100	<0.005
294005	62	63	1.0	40	55	45	<0.5	<100	0.005
294006	63	64	1.0	5	15	25	<0.5	<100	0.010
294007	64	65	1.0	5	25	30	0.5	<100	0.010
294008	65	66	1.0	5	20	20	0.5	<100	0.005
294009	90	91	1.0	20	235	335	3.0	<100	<0.005
294010	91	92	1.0	15	260	290	3.0	100	<0.005
294011	92	93	1.0	10	220	230	1.0	<100	<0.005
294012	93	94	1.0	20	285	540	2.5	<100	<0.005
294013	94	95	1.0	25	345	550	2.5	<100	<0.005
294014	95	96	1.0	235	2125	4500	4.0	<100	0.005
294015	96	97	1.0	25	220	690	1.5	<100	<0.005
294016	97	98	1.0	15	225	325	1.5	<100	0.005
294017	98	99	1.0	20	200	340	0.5	<100	0.005
294018	99	100	1.0	15	150	150	<0.5	<100	<0.005
294019	100	101	1.0	10	105	165	<0.5	<100	<0.005
294020	101	102	1.0	10	150	120	1.0	<100	<0.005
294021	102	103	1.0	10	100	65	0.5	<100	0.005
294022	103	104	1.0	15	140	155	1.5	<100	0.020
294023	104	105	1.0	10	135	165	<0.5	<100	0.010
294024	105	106	1.0	15	175	200	<0.5	<100	0.015
294025	106	107	1.0	18	285	275	1.5	<100	<0.005
294026	107	108	1.0	25	345	430	0.5	<100	<0.005
294027	108	109	1.0	680	450	1400	<2.0	<100	<0.005
294028	109	110	1.0	15	140	165	<0.5	<100	<0.005
294029	110	111	1.0	40	270	450	<0.5	<100	<0.005
294030	111	112	1.0	40	575	1300	2.0	<100	0.035
294031	112	113	1.0	110	1225	2650	9.0	100	0.195
294032	113	114	1.0	10	245	315	0.5	<100	0.005
294033	114	115	1.0	10	105	85	0.5	<100	<0.005
294034	115	116	1.0	40	1425	2150	2.0	<100	0.005
294035	116	117	1.0	100	1425	3025	<2.0	<100	<0.005
294036	117	118	1.0	10	410	815	1.0	<100	<0.005
294038	45	46	1.0	5	65	25	<0.5	<100	<0.005
294039	46	47	1.0	5	60	30	<0.5	<100	<0.005
294040	47	48	1.0	<5	65	30	<0.5	<100	<0.005

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geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
0.0	1.5					-					Tricone
1.5	3.0					47					
3.0	4.5					44					
4.5	6.0					77					
6.0	7.5					-					
7.5	9.0					100					
9.0	10.5					40					
10.5	12.0					87					
12.0	13.5					43					
13.5	15.0					87					
15.0	16.5					90					
16.5	18.0					100					
18.0	19.5					94					
19.5	21.0					94					
21.0	22.5					100					
22.5	24.0					94					
24.0	25.5					80					
25.5	27.0					100					
27.0	28.5					100					
28.5	29.3					100					
29.3	30.0					79					
30.0	31.5					100					
31.5	33.0					100					
33.0	34.5					100					
34.5	36.0					87					
36.0	37.5					100					
37.5	39.0					100					
39.0	40.5					100					
40.5	42.0					100					
42.0	43.5					100					
43.5	45.0					100					
45.0	46.5					100					
46.5	48.0					100					
48.0	49.5					100					
49.5	51.0					100					
51.0	52.5					100					
52.5	54.0					100					
54.0	55.5					100					
55.5	57.0					100					
57.0	58.5					100					
58.5	60.0					100					
60.0	61.5					100					
61.5	63.0					100					
63.0	64.5					100					
64.5	66.0					100					
66.0	67.5					100					
67.5	69.0					100					
69.0	70.5					100					

CYPRUS

geotechnical

Project ELLIOTT BAY Prospect WART HILL Hole EBT-88-WH7 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
70.5	72.0					87					
72.0	73.5					100					
73.5	75.0					94					
75.0	76.5					100					
76.5	78.0					100					
78.0	79.5					100					
79.5	81.0					100					
81.0	82.5					100					
82.5	84.0					100					
84.0	85.5					100					
85.5	87.0					100					
87.0	88.5					94					
88.5	90.0					100					
90.0	90.6					100					
90.6	92.1					100					
92.1	93.0					100					
93.0	94.5					100					
94.5	96.0					94					
96.0	97.5					100					
97.5	99.0					100					
99.0	100.5					100					
100.5	102.0					100					
102.0	103.5					100					
103.5	105.0					100					
105.0	106.5					100					
106.5	108.0					100					
108.0	109.5					100					
109.5	111.0					97					
111.0	112.5					100					
112.5	114.0					100					
114.0	115.5					100					
115.5	117.0					100					
117.0	118.5					100					
118.5	120.0					100					

743272

drill log cover sheet

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/6

Co-ordinates 238 S mN 55 E mE Logged by R. POLTOCK

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 110 M T	Assay sample type	HALF CORE
Commenced	20.1.88	Water table	
Completed	22.1.88	Water yields	
Total depth	80.2m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
NOT SURVEYED											

Notes

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geology

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/6 Page 1

From	To	Code	Description (mineralization in bold type)
0.0	1.5		No core.
1.5	2.5		Strongly weathered, highly fractured, possible fault zone.
2.5	10.5		RHYOLITIC LITHIC, QUARTZ, FELDSPAR CRYSTAL TUFF, FINE-MEDIUM GRAINED Cream to pale grey green, fine to medium grained, moderately weathered, moderately foliated, limonitic in proximity to joints and fractures, rhyolitic lithic, quartz feldspar crystal tuff. The rock consists of ragged to lenticular dark green chloritized fragments, up to 10mm long by 1mm, forming 40% of the rock. These fragments which were originally volcanic glass are set in a fine groundmass of quartz and feldspar crystals about 1mm in diameter forming 60% of the rock. Quartz and feldspar crystals are in equal proportions except at 8.2m where quartz grains predominate. Foliation is only moderately developed at 60deg. to core axis. 3.1-3.7m - Quartz limonite, chlorite veins, with sericitized wall rocks. 4.3-4.6m - Quartz limonite, chlorite vein in shear 90deg to core axis. 7.5-8.0m - Quartz limonite, chlorite veining, veins irregular - about 20mm wide, confined to joints. 10.5m - Contact marked by very broken core with poor recovery. Mineralization - quartz limonite chlorite vein.
10.5	13.1		RHYOLITIC QUARTZ FELDSPAR CRYSTAL TUFF MEDIUM GRAINED. Cream brown, medium grained, moderately weathered, strongly foliated, slightly limonitic rhyolitic quartz feldspar crystal tuff. The rock consists of subrounded quartz grains about 4mm in diameter (30%), kaolinized feldspar crystals and/or rock fragments about 4mm (20%). These crystals and fragments are set in a fine grained matrix (50%). Foliation is strongly developed at 60deg to core axis, the core is variably jointed, microfractures are common. Weathering is restricted to oxidized joints and fractures. 11.1m - Angular fragments of quartz vein and tourmaline from surface lag deposits. 11.4-13.1m - Quartz, feldspar, pegmatitic vein, with

geology

Project ELLIOT BAY Prospect NORTH LEWIS Hole V12/6 Page 2

From	To	Code	Description (mineralization in bold type)
			limonite after **PYRITE**. Fragments of country rock are included in the veins. 13.1m - Contact marked by shearing.
13.1	14.2		SILTSTONE Cream to grey brown, laminated, highly fractured siltstone. Lamination at 45deg. to core axis, a weak foliation parallels this layering. Jointing and fracturing is intense in places giving the core a brecciated appearance; most fractures are limonitic.
14.2	15.0		VOLCANICLASTIC SANDSTONE Cream, fine to medium grained, poorly sorted, moderately fractured, weakly foliated sandstone. Quartz, feldspar grains and rock fragments to 2mm in diameter are common. All fracture and foliation surfaces are limonitic; the foliation at 50deg to core axis. Due to the porous nature of the rock it is moderately weathered. 14.9m - Fault breccia 50mm wide. 15.0m - Contact is sharp.
15.0	16.4		RHYOLITIC QUARTZ FELDSPAR CRYSTAL LITHIC TUFF Cream, medium grained, thickly bedded, limonite stained crystal tuff. The rock consists of subrounded, fractured quartz grains about 5mm (20%), kaolinized feldspar grains about 2mm (10%), chloritized lenticular lithics 2mm long by 0.5mm (10%), set in a fine groundmass (60%). Bedding is highlighted by finer grained volcaniclastic sandstone bands, bedding 60deg to core axis with subparallel foliation. Joints and microfractures are limonitic, scattered open limonitic cavities about 2mm wide also occur. 16.4m - The contact is gradational indicating that the sequence is younging downhole and to the east. The sandstone to siltstone units between 16.4m and 26.3m are part of this gradational sequence.
16.4	17.5		VOLCANICLASTIC SANDSTONE Cream to grey, medium grained, poorly sorted, thickly bedded, weakly foliated and jointed, slightly weathered volcanic derived sandstone. The rock is composed of quartz feldspar and lithic

From	To	Code	Description mineralization in bold type
			fragments <2mm grainsize, set in a soft probably sericitized matrix. Bedding is at 50deg to core axis. Limonitic fractures are minor. At 17.5m there is a sharp sedimentary contact at 55deg to core axis.
17.5	26.3		SILTSTONE Cream to pale grey, jointed and cleaved sandy siltstone. The rock is composed of very fine detritus with scattered lenses of quartz feldspar crystals in a fine matrix. A slaty cleavage is more prominant than the foliation. Limonitic joints and small cavities are common, the rock is only slightly weathered. 18.2m - Irregular lense like veins of sericite quartz and limonite 10mm wide and probably <70mm long. 19.9m - Very fine grained granular quartz tourmaline vein 30mm wide, with a silvedge of quartz sericite. A 5mm wide quartz limonite vein cuts the quartz tourmaline. 21.6m - Quartz gossan vein 10mm wide. 21.7-24.0m - Very broken core, fault breccia with quartz limonite/gossanveins between 21.85m-21.9m and 23.0m-24.0m. 25.0m - Quartz gossan vein 15mm wide. 25.7-26.3m - Fault breccia contact zone. Mineralization - sericite quartz limonite veins. Quartz limonite/gossan vein.
26.3	54.5		RHYOLITIC QUARTZ CRYSTAL VITRIC TUFF Cream to pale green, fine to medium grained, weakly foliated to massive, slightly limonitic stained crystal vitric tuff. Rock composed of a fine grained pale green vitric groundmass (70%), subrounded quartz grains about 5mm in diameter (20%) and chloritized/sericitized wispy lithicsabout 3mm long by 0.25mm (10%). Vitric ash lenses <50mm thick with minor crystal and lithic component occur at 30m, 32.8m and 34.3m. The core is massive to weakly foliated 60deg to core axis, variably fractured. Foliation and fractures host oxidized veinlets. Quartz limonite **PYRITE**, chlorite veining at 26.8-27.1m, irregular 10 by 10mm vugs filled with fine **PYRITE** and gossan. 27.2-27.6m - irregular quartz limonite veins. 27.6-29.7m - quartz gossan chlorite veins at 80deg to core

geology

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/6 Page 4

From	To	Code	Description mineralization in bold type
			axis with inclusions of sericitized wall rocks. 32.4m-32.5m - Quartz limonite/hematite vein with feldspar and sericite vein selvedge. 42.9m-43.2m, 43.5m-43.6m - Quartz albite? veins. Quartz limonite and fine grained tourmaline vein, 50mm wide, 90deg to core axis at 39.3m. Limonite/gossan veinlets and open limonitic cavities occur throughout this unit in varying intensity. Veinlets are <15mm wide, at varying orientations lying on foliation and joint planes. Most intense veining occurs between 36.7m-37.0m, 42.4m-43.0m and 51.4m-54.1m. These zones have a breccia appearance. Minor quartz tourmaline is associated with these breccias at 42.5m-42.6m, 52.9m and 53.6m. Although the contact at 54.5m is very broken, it appears to be a gradational fracture. Mineralization - PYRITE-chlorite veins. Quartz-limonite veins. Tourmaline vein. Limonite-quartz veinlets.
54.5	60.5		BRECCIATED VITRIC QUARTZ CRYSTAL LITHIC TUFF Blotchy cream to dark grey green, medium grained, weakly foliated, irregularly jointed to brecciated, slightly weathered quartz crystal vitric lithic tuff. The rock is composed of vitric to fine granular groundmass (70%) subrounded quartz crystals to 5mm in diameter (20%) and ragged chloritized lithics about 5mm long (10%). Some of this chloritized material could be biotite. The main textural feature is brecciation which may be of hydrothermal origin, a very fine grained black mineral in the breccia matrix may be tourmaline. Most intense brecciation occurs between 56.2m-56.3m and 58.0m-58.5m. 55.5m-56.5m - Stockwork of irregular tourmaline veinlets in the breccia. veins range from a few millemeters to 20mm. Gossan vugs after chlorite and sulphides, up to 60mm wide between 55.5m-55.6m. 56.5m-60.5m - Foliated tourmalinized brecciated tuff becomes increasingly chloritic. Limonitic microfractures and open cavities occur throughout the unit. 54.6m - Quartz albite? limonite pegmatite vein. 60.4m-60.5m - Contact marked by a deeply weathered fault

From	To	Code	Description (mineralization in bold type)
			shatter zone. Mineralization - tourmaline-limonite-quartz veins.
60.5	80.2		MASSIVE RHYOLITIC VITRIC QUARTZ CRYSTAL TUFF Cream to grey green, massive to weakly foliated/jointed, slightly weathered quartz crystal vitric tuff. The rock is composed of a fine cream to grey stippled groundmass (90%), subrounded skattered quartz crystals (10%). Minor chloritized fragments or biotites occur between 73.6m-75.3m. Weathering and oxidation is restricted to fractures only permeating the rock for 10-20mm between 60.5m-75.5m. From 75.5m to the end of the hole, the rock is mainly unweathered except from minor oxidation on joints and some fault zones. A weak foliation is developed at 60deg to core axis, joints are irregular and poorly developed. Between 77.4m-78.6m the tuff is a pale yellow color due to sericitic alteration. 61.2m-61.9m - Tourmaline quartz chlorite breccia vein. The tourmaline is very fine grained. At 61.9m there is a gossanous vein selvedge after sulphides. Tourmaline veinlets also occur at 67.0m, 67.8m, 72.7m-73.2m associated with localized silicification. 68.0m - 68.4m - Gossan vein with slithers and fragments of country rock. Minor tourmaline veinlets at 68.0m. 68.4m-69.1m - Quartz albite (pink/orange) veins with fragments of sericitized country rock. Veins are irregular but approximately 90deg to core axis, 2-50mm wide. Cross cutting quartz limonite PYRITE veinlets also occur in this interval. 69.4m-69.5m - Quartz limonite vein at 50deg to core axis with a weathered sericite chlorite core. 75.9m-76.0m - Quartz limonite/PYRITE vein at 80deg to core axis. Open, irregular shaped limonitic cavities associated with the foliation and joints occur throuthout the unit. Limonite is probably after sulphides and carbonate. Fault zones indicated by breccias, clay pugs and very broken core occur at 71.3m, 62.6m-64.3m, 65.7m, 67.2m, 75.6m-77.0m, 77.3m-78.1m, 79.0m-79.2m and 79.7m. Mineralization - Tourmaline-quartz-chlorite-PYRITE limonite veinlets. END OF HOLE

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Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292151	3	5	2.0	175	50	50	<0.5	250	<0.005
292152	7	8.5	1.5	175	45	45	<0.5	110	<0.005
292153	11.5	13.5	2.0	90	55	40	<0.5	260	0.015
292154	18	20	2.0	120	330	35	10.5	1400	0.025
292155	21	23	2.0	245	290	50	5.0	1000	0.38
292156	23	25	2.0	305	470	35	1.5	950	0.06
292157	26.5	28	1.5	740	4400	360	29.0	5200	0.155
292158	28	30	2.0	215	510	25	3.5	1400	0.04
292159	30	32	2.0	120	315	20	2.0	830	0.010
292160	32	34	2.0	105	175	30	2.5	850	0.035
292161	34	36	2.0	155	295	35	2.0	940	0.06
292162	36	38	2.0	185	45	30	1.0	670	0.01
292163	38	40	2.0	225	215	45	5.5	1000	0.04
292164	40	42	2.0	365	315	60	4.5	1200	0.19
292165	42	44	2.0	755	385	70	6.0	1700	0.07
292166	44	46	2.0	250	40	25	0.5	460	0.01
292167	46	48	2.0	150	45	20	1.5	340	<0.005
292168	48	50	2.0	435	55	25	1.5	750	0.01
292169	50	52	2.0	465	80	20	6.0	740	0.015
292170	52	54	2.0	465	180	20	3.5	1100	0.025
292171	54	56	2.0	945	370	65	5.5	3300	0.155
292172	56	58	2.0	915	345	65	26	1900	0.05
292173	58	60	2.0	935	160	55	6.0	2700	0.01
292174	60	62	2.0	970	365	70	26	2200	0.08
292175	62	64	2.0	150	40	15	1.0	370	<0.005
292176	64	66	2.0	210	200	25	2.0	730	0.05
292177	66	68	2.0	260	70	20	3.0	490	0.01
292178	68	70	2.0	4500	220	75	7.0	880	0.015
292178	70	72	2.0	315	45	15	1.0	130	<0.005
292180	72	74	2.0	340	110	15	2.0	220	<0.005
292181	74	75.8	1.8	525	110	30	2.5	510	0.01
292182	75.8	78	2.2	740	150	50	2.0	370	0.01
292818	1.5	3	1.5	120	40	40	<0.5	200	<0.005
292819	5	7	2.0	270	120	60	<0.5	300	<0.005
292820	8.5	11.5	3.0	125	80	30	<0.5	600	0.015
292821	13.5	16	2.5	95	55	30	<0.5	400	0.005
292822	16	18	2.0	55	100	25	<0.5	200	<0.005
292823	20	21	1.0	200	120	30	0.5	700	0.01
292824	25	26.5	1.5	220	170	40	2.0	600	0.01
292825	78	80.2	2.2	1350	80	65	<0.5	100	0.035

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From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
1.5	2.5					100					
2.5	3.7					100					
3.7	5.2					86					
5.2	5.5					33					
5.5	6.0					40					
6.0	6.7					85					
6.7	8.2					100					
8.2	9.0					100					
9.0	10.5					33					
10.5	11.1					50					
11.1	12.0					88					
12.0	13.1					95					
13.1	14.1					100					
14.1	15.0					88					
15.0	16.5					100					
16.5	18.0					100					
18.0	18.5					100					
18.5	21.0					100					
21.0	22.5					93					
22.5	24.0					70					
24.0	24.7					10					
24.7	25.8					100					
25.8	27.0					100					
27.0	28.5					100					
28.5	29.8					100					
29.8	31.3					100					
31.3	32.85					100					
32.85	34.4					100					
34.4	35.2					100					
35.2	36.6					100					
36.6	37.8					100					
37.8	39.0					100					
39.0	40.5					100					
40.5	42.0					100					
42.0	43.5					100					
43.5	45.0					93					
45.0	46.5					100					
46.5	48.0					100					
48.0	49.5					100					
49.5	51.0					100					
51.0	52.5					100					
52.5	54.0					100					
54.0	55.5					100					
55.5	57.0					100					
57.0	58.5					100					
58.5	60.0					100					
60.0	61.5					93					
61.5	63.0					93					

geotechnical

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Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/6 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
63.0	64.5					100					
64.5	66.0					93					
66.0	67.5					100					
67.5	68.8					100					
68.8	69.8					100					
69.8	71.3					100					
71.3	72.8					100					
72.8	74.3					100					
74.3	75.8					100					
75.8	77.0					100					
77.0	78.0					80					
78.0	79.2					100					
79.2	80.2					100					

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drill log cover sheet

Project ELLIOTT BAY Prospect LEWIS RIVER Hole V12/7

Co-ordinates 137 S mN 150 E mE Logged by CHRIS TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 110M T	Assay sample type	HALF CORE
Commenced	27.1.88	Water table	
Completed	29.1.88	Water yields	
Total depth	80.2m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
NOT SURVEYED											

Notes

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geology

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Project **ELLIOTT BAY** Prospect **LEWIS RIVER** Hole **V12/7**

From	To	Code	Description (mineralization in bold type)
0.0	1.5		No core - roller bit.
1.5	24.0		RHYOLITIC, LITHIC, QUARTZ, FELDSPAR CRYSTAL TUFF: FINE TO MEDIUM GRAINED Light grey, medium to fine grained rock containing quartz eyes up to 2mm in size with bands up to 5mm in size. Small 1-2mm pits occur as pseudmorphs after sericitized feldspar. Weak, pervasive schistosity occurs at 90deg to core axis. 1.5m-6.15m - Extremely broken ground. Rock is dark grey-black due to pervasive tourmaline replacement of felsic groundmass. Abundant open fracture cavities occur and are lined with limonite-goethite at all core angles. Zones up to 10cm wide display crackle breccia textures. Breccia matrix is limonite-hematite of sulphide. 6.15m-10.1m - Extremely broken ground. Weak pervasive tourmaline replacement. Intense fracture and brecciation with limonite. Maximum fracture (limonite vein) width is 3mm. 10.1m-11.0m - Broken ground. Strong pervasive tourmaline alteration. Strong limonitic stains. Limonitic veins after sulphide from 10.3m to 10.4m. These occur as puggy broken zones, 85deg to core axis. 11.0m-12.0m - Strong pervasive tourmaline alteration with tourmaline veins up to 1cm wide cut by smaller veins (2-3mm), for example 11.45m, 85deg to core axis. 12.0m-15.0m - Sheared sericitic zone with abundant brecciation and limonitic fractures. Both crackle and milled breccias occur. Tourmaline alteration is weak or absent. Ground is highly broken. 15.0m-19.45m - Highly broken ground. Dark grey pervasive tourmaline alteration is cut by dark green chlorite-PYRITE veins up to 1cm wide. Vein at 15.3m (1cm, 80deg to core axis) halo of disseminated chlorite-PYRITE with central core of limonitic pink mineral (feldspar?). Limonitic stain and brecciation zones persist. Chlorite-limonite - hematite vein 1cm wide (85deg to core axis) at 16.1m. 19.45m-20.4m - Fault pug zone. Highly broken ground. Fragments of rounded rock, quartz, tourmaline in clayey, muddy matrix. 20.0m - 5mm limonite vein 50deg to core axis. Quartz eyes up to 7.5mm occur. Schistosity 85-90deg to core axis. 20.4m-22.3m - Highly broken ground. Limonitic partings occur parallel to schistosity.

geology

Project **ELLIOTT BAY** Prospect **LEWIS RIVER** Hole **V12/7** Page **2**

From	To	Code	Description (mineralization in bold type)
			21.0m - Quartz-chlorite-tourmaline vein 1.5cm (75deg to core axis). 21.0m-21.75m - Highly fractured and broken ground. Sericite-limonite fracture lining. 22.3m-24.0m - As above. Highly fractured rock with limonite-hematite veinlets (average 75deg to core axis). Localized breccia zones. Mineralization - limonite, hematite, goethite along fractures and in breccia matrix from 1.5m to 24.0m. Chlorite-**PYRITE** limonite on fractures from 15.0m to 19.45m.
24.0	36.3		BRECCIA Rock consists of angular blocks of rhyolite tuff in a matrix of limonite and chlorite. Breccia texture is a crackle-type with block rotation and milling evident only in narrow zones. Highly broken rock and contains limonite, hematite, chlorite, **PYRITE** veinlets. For example 26.9m and 27.9m - 2cm veins 85deg to core axis. 31.6m-34.0m - Unoxidized fine **PYRITE** occurs as 1-2mm bands 85-90deg to core axis. 33.08m - Limonite vein 2cm wide 60deg to core axis with relic **PYRITE** and **ARSENOPYRITE**. 34.0m-36.3m - Sulphide predominantly oxidized. Ground highly broken. 34.5m-36.3m - Tourmaline veinlets occur locally with and average of 60-80deg to core axis. Limonite veinlets cut and displace tourmaline stringers. Mineralization - Limonite-hematite from 26m-28m. **PYRITE** from 30m-32m. **ARSENOPYRITE** from 32m-34m. Chlorite-**PYRITE** sphalerite from 36m-38m.
36.3	37.6		SHEAR ZONE Highly sheared, broken, soft, grey green chlorite-**PYRITE** rock. Disseminated **PYRITE** occurs throughout. **SPHALERITE** occurs locally as stringers. Relic quartz eyes evident.
37.6	45.0		RHYOLITIC, LITHIC, QUARTZ-FELDSPAR CRYSTAL TUFF: MEDIUM GRAINED 36.6m-34.4m - Sheared, highly broken core. Grey colorisation due to fine disseminated **PYRITE**. Veinlets of chlorite-**PYRITE**-quartz 80-90deg to core axis.

geology

Project ELLIOTT BAY Prospect LEWIS RIVER Hole V12/7

From	To	Code	Description (mineralization in bold type)
			39.4m-42.5m - As above but less sulphide - more limonite and tourmaline stringers. 42.5m - Rock is brown-grey, silicified and highly sheared. Limonite-quartz veins for example 42.6m and 44.3m. Quartz veins are brecciated and friable. Mineralization - Chlorite-**PYRITE** limonitic fractures at 38m. **PYRITE-SPHALERITE** at 48m. **PYRITE-SPHALERITE-GALENA** at 52m.
45.0	49.0		RHYOLITIC VITRIC TUFF Contact with the above unit appears gradational with gradual fining and depletion of quartz eyes. Rock is grey, fine grained with pervasive shistosity 85-90deg to core axis. Locally the rock is sericitic and silicified? It contains schlieren and veinlets of **PYRITE-SPHALERITE-QUARTZ** subparallel to schistosity. Fracturing is not as intense as above 45m and no brecciation evident.
49.0	50.0		SHEAR ZONE Fractured, fragmented and silicified fragments of tuff in friable mud matrix. 50m - Base of oxidation.
50.0	55.6		RHYOLITIC VITRIC TUFF Contains fine anastomosing sericitic partings, appears silicified and contains minor (4mm by 1mm) **PYRITE-SPHALERITE-GALENA** schlieren.
55.6	56.5		SHEAR ZONE
56.5	80.2		RHYOLITIC, LITHIC, QUARTZ-FELDSPAR CRYSTAL TUFF: MEDIUM TO COARSE GRAINED Grey with abundant quartz eyes. Fine anostomosing sericite stringers occur locally and feldspars are replaced by sericite. Most intense sericitization occurs around **GALENA-SPHALERITE** schlieren. Sulphide content <3%. 59.8m - 1cm band 80deg to core axis contains **PYRITE-ARSENOPYRITE-CHALCOPYRITE**. Core is broken and contains minor quartz veins (1-2 per meter) and 1mm-5mm wide. 67.35m-67.45m - **GALENA-SPHALERITE** vein. Sulphide mineralization occurs mainly in fine veinlet-fractures.

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geology

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From	To	Code	Description (mineralization in bold type)
			Localized pug-breccia zones occur for example 73.1m, 74.2m, 77.2m, 79.5m and 79.8m.
			Mineralization - **GALENA-SPHALERITE** at 58m. **PYRITE-ARSENOPYRITE-CHALCOPYRITE** at 62m. **GALENA-SPHALERITE** at 66m.
			END OF HOLE.

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assays

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/7

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292183	1.5	4	2.5	135	135	100	<0.5	400	<0.0
292184	4	6	2.0	200	380	85	1.0	800	0.045
292185	6	8	2.0	70	155	125	<0.5	100	<0.0
292186	8	10	2.0	80	60	45	1.0	<100	<0.0
292187	10	12	2.0	235	125	70	<0.5	600	0.010
292188	12	14	2.0	120	140	55	<0.5	<100	<0.0
292189	14	16	2.0	280	145	80	1.5	100	0.010
292190	16	18	2.0	195	135	75	1.0	300	0.005
292191	18	20	2.0	200	540	80	1.0	700	0.030
292192	20	22	2.0	230	385	110	2.5	700	0.050
292193	22	24	2.0	200	180	105	0.5	400	0.010
292194	24	26	2.0	470	665	190	1.0	1000	0.050
292195	26	28	2.0	255	360	85	1.5	300	<0.005
292196	28	30	2.0	155	270	80	<0.5	100	0.080
292197	30	32	2.0	100	225	50	1.0	<100	0.030
292198	32	34	2.0	1850	275	85	<0.5	700	0.060
292199	34	36	2.0	730	445	100	0.5	200	0.030
292200	36	38	2.0	7250	900	185	4.5	3800	0.170
292801	38	40	2.0	2300	135	60	1.0	200	0.010
292802	40	42	2.0	1200	120	55	<0.5	100	0.010
292803	42	44	2.0	715	330	45	3.0	500	0.010
292804	44	46	2.0	255	245	40	<0.5	<100	0.0
292805	46	48	2.0	1300	360	40	0.5	200	0.010
292806	48	50	2.0	3700	1250	125	0.5	100	0.0
292807	50	52	2.0	570	545	305	2.5	1000	0.045
292808	52	54	2.0	420	945	190	4.0	<100	0.040
292809	54	56	2.0	315	285	285	1.5	<100	0.030
292810	56	58	2.0	50	85	50	<0.5	<100	0.005
292811	58	60	2.0	90	365	115	0.5	<100	0.005
292812	60	62	2.0	100	200	120	1.0	<100	0.005
292813	62	64	2.0	175	145	100	0.5	200	0.020
292814	64	66	2.0	75	135	90	0.5	<100	0.005
292815	66	68	2.0	2075	2000	0.58%	9.0	200	0.170
292816	68	70	2.0	180	55	110	<0.5	<100	0.010
292817	70	72	2.0	425	220	335	1.0	<100	0.005

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geotechnical

Project ELLIOTT BAY Prospect LEWIS RIVER Hole V12/7 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
1.5	3.0					73					
3.0	4.5					100					
4.5	6.0					100					
6.0	7.5					100					
7.5	9.0					93					
9.0	10.1					100					
10.1	11.3					100					
11.3	12.0					100					
12.0	13.5					90					
13.5	15.0					100					
15.0	16.5					87					
16.5	18.0					100					
18.0	19.5					87					
19.5	21.0					100					
21.0	22.3					92					
22.3	23.5					100					
23.5	24.0					100					
24.0	25.5					100					
25.5	27.0					73					
27.0	28.5					97					
28.5	30.0					87					
30.0	31.5					97					
31.5	33.0					90					
33.0	34.0					80					
34.0	35.5					100					
35.5	37.0					100					
37.0	38.5					93					
38.5	39.0					100					
39.0	40.5					83					
40.5	41.5					30					
41.5	42.0					20					
42.0	42.5					60					
42.5	43.5					50					
43.5	45.0					100					
45.0	46.0					100					
46.0	47.0					100					
47.0	48.0					100					
48.0	49.0					70					
49.0	50.0					20					
50.0	51.0					50					
51.0	52.5					93					
52.5	54.0					100					
54.0	55.5					73					
55.5	57.0					93					
57.0	58.0					100					
58.0	59.0					100					
59.0	60.0					80					
60.0	61.5					100					

743288

geotechnical

Project ELLIOTT BAY Prospect LEWIS RIVER Hole V12/7 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
61.5	63.0					100					
63.0	63.5					80					
63.5	65.0					93					
65.0	66.0					100					
66.0	67.5					93					
67.5	69.0					100					
69.0	70.5					57					
70.5	72.0					100					
72.0	73.2					100					
73.2	74.5					81					
74.5	76.0					100					
76.0	77.2					100					
77.2	78.7					100					
78.7	80.2					100					

2.8

743289

drill log cover sheet

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/8

Co-ordinates 30 S mN 240 E mE Logged by CHRIS TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-55	Depth of casing	
Direction	G 110 M T	Assay sample type	HALF CORE
Commenced	31.1.88	Water table	
Completed	1.2.88	Water yields	
Total depth	69.0m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
NOT SURVEYED											

Notes

CYPRUS

geology

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/8

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller bit.
1.5	19.0		RHYOLITIC QUARTZ-FELDSPAR LITHIC TUFF 15.45m - Medium grained grey-white with quartz up to 3mm in size (quartz to 5%). Feldspars are approximately 1-2mm in size and clay altered forming pits in cut rock sections. Fine limonitic veinlets and fracture coatings occur at a density of approximately 10-12 per meter. Fine anastomosing wisps of sericite-chlorite? alteration occur. Weak pervasive schistosity at high angle to core axis 60-80deg. 4.5m-6.4m - As above but fewer limonitic fractures. 1mm tourmaline veinlet at 5.95m. 6.4m-11.4m - As above. Limonite fractures, approximately 10-12 per meter. 6.5m - Breccia-limonite zone 2cm wide 80deg to core axis. 6.8m - Quartz-gossan vein 5mm 75deg to core axis. Rock displays a pale apple-green color - possibly pervasive sericite alteration. Locally limonite zones are accompanied by MnO stain. 8.5m - Quartz-gossan-pug zone 1.5cm wide 75deg to core axis. 9.9m-10.6m - Quartz stringers up to 3mm wide occur at density of approximately 5 per meter. These appear to be cut and displaced by limonitic fracture at all angles to core axis. Locally, pink hematite staining occurs for example 11.9m. Rock is dark grey, probably due to pervasive chlorite alteration. 10.6m-15.3m - Highly broken ground. Limonitic fracture density increased with localized zones 5-10cm of breccia. 13.7m-14.5m - Pug-clay-brecciated fault zone. 15.3m-19.0m - Rock still broken with abundant limonite fractures but no significant pug zones. Localized narrow breccia occur up to 10cm.
19.0	20.85		BRECCIA Rock fragments are of above rock type. Crackle breccia texture most evident. Limonite matrix.
20.85	27.3		RHYOLITIC QUARTZ-FELDSPAR CRYSTAL TUFF 20.85m-22.7m - As above. Limonite stained but fractures down to 2-5 per meter. At 22.45m **PYRITE** vein (4mm wide) 60deg to core axis. Seems to be a more massive zone with less sulphide oxidation. 22.7m-27.3m - Rock appears more highly sheared subparallel

From	To	Code	Description (mineralization in bold type)
			to schistosity (60-70deg to core axis). Zones of limonite stain also form subparallel schistosity. 22.9m - 1.5cm wide gossan vein 65deg to core axis. Rock becomes highly sheared, puggy and more limonitic downhole. 25.0m - 1.5cm wide gossan vein with relic **PYRITE** and **CHALCOPYRITE** 70deg to core axis.
27.3	30.2		VEIN Dark brown-red limonitic-hematic gossan. Contains zones of limonite breccia, tourmaline, possibly hydrothermal feldspar (pink blotches) and chlorite.
30.2	69.0		RHYOLITIC QUARTZ CRYSTAL TUFF Ground still broken. 30.2m-39.9m - Chloritic-**PYRITE** stringers and pervasive replacement occur but are locally oxidized. Stringers subparallel schistosity 70-90deg to core axis. 39.9m-53.5m - Rock became more massive with less fractures (10-20 per meter) and fracture surfaces coated with limonite. 52.0m-52.5m - Black MnO and green malachite stain on core limonitic blebs and stringer suggest original **CHALCOPYRITE** disseminations. 53.5m-54.0m - Fault - pug is grey-white with **PYRITE** throughout. 54.0m-55.3m - Massive rock. Limonite stringers and stain weak. Localised fractures. 55.3m-55.5m - Fault. Gossanous-limonite shear and pug zone 60deg to core axis. 55.5m - Base of oxidation. 55.5m-69.0m - Rock is highly fractured and contains fine anastomosing sericite locally and disseminated **PYRITE**. Veins and bleb replacement of feldspar? by **PYRITE** and **CHALCOPYRITE** occur in patches (vein to 1cm, bleb to 5mm) for example 56-56.6m and 62.75m. These tend to be associated with chlorite rather than sericite alteration. Fine quartz stringers occur locally for example one per meter and contain **PYRITE-GALENA** mineralization. END OF HOLE.

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743292

assays

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/8 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292826	1.5	4	2.5	80	70	20	<0.5	<100	<0.005
292827	4	6	2.0	65	50	20	0.5	<100	0.01
292828	6	9	3.0	135	295	80	<0.5	<100	0.005
292829	9	10	1.0	70	155	40	<0.5	100	<0.005
292830	10	12	2.0	90	255	55	<0.5	700	0.01
292831	12	14	2.0	125	190	60	<0.5	100	0.015
292832	14	16	2.0	95	150	40	<0.5	200	<0.005
292833	16	18	2.0	125	280	70	<0.5	1000	0.05
292834	18	20	2.0	100	240	55	<0.5	200	<0.005
292835	20	22	2.0	120	175	60	<0.5	300	<0.005
292836	22	24	2.0	145	320	75	<0.5	300	0.015
292837	24	26	2.0	700	405	70	<0.5	1000	0.08
292838	26	28	2.0	1950	750	210	5.0	2000	0.105
292839	28	30	2.0	4200	1800	235	25.5	1%	0.45
292840	30	32	2.0	165	75	20	<0.5	700	<0.005
292841	32	34	2.0	195	115	30	<0.5	500	0.035
292842	34	36	2.0	130	45	25	<0.5	300	0.005
292843	36	38	2.0	105	55	30	<0.5	200	<0.005
292844	38	40	2.0	120	70	25	<0.5	200	0.025
292845	40	42	2.0	90	110	20	<0.5	200	0.020
292846	42	44	2.0	80	195	20	<0.5	100	0.02

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geotechnical

743293

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/8 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
1.5	3.0					100					
3.0	4.5					100					
4.5	6.0					100					
6.0	7.5					100					
7.5	9.0					100					
9.0	10.5					100					
10.5	12.0					100					
12.0	13.5					100					
13.5	15.0					93					
15.0	16.5					100					
16.5	18.0					100					
18.0	19.5					100					
19.5	21.0					100					
21.0	22.5					100					
22.5	24.0					100					
24.0	25.5					93					
25.5	27.0					93					
27.0	28.5					96					
28.5	29.9					85					
29.9	31.0					100					
31.0	32.0					100					
32.0	33.0					100					
33.0	34.5					100					
34.5	36.0					93					
36.0	37.5					100					
37.5	38.5					100					
38.5	40.0					100					
40.0	41.4					92					
41.4	42.9					100					
42.9	44.4					100					
44.4	45.0					100					
45.0	46.5					100					
46.5	48.0					100					
48.0	49.5					100					
49.5	50.2					71					
50.2	51.0					87					
51.0	52.5					93					
52.5	54.0					100					
54.0	55.5					93					
55.5	57.0					100					
57.0	58.0					80					
58.0	59.0					80					
59.0	60.0					100					
60.0	61.2					100					
61.2	62.7					93					
62.7	64.2					100					
64.2	65.7					100					
65.7	66.7					70					
66.7	68.1					92					
68.1	69.0					100					

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743294

drill log cover sheet

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/9

Co-ordinates 95 N mN 295 E mE Logged by CHRIS TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-55	Depth of casing	
Direction	G 110M T	Assay sample type	HALF CORE
Commenced	2.2.88	Water table	
Completed	3.2.88	Water yields	
Total depth	70.7m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
NOT SURVEYED											

Notes

CYPRUS

743295

geology

Project **ELLIOTT BAY** Prospect **NORTH LEWIS** Hole **V12/9**

From	To	Code	Description (mineralization in bold type)
0.0	1.5		Roller Bit
1.5	3.0		Mud-soil layer
3.0	29.95		RHYOLITIC QUARTZ-FELDSPAR-LITHIC CRYSTAL TUFF Grey medium-fine grained, schistose with quartz augen 1-3mm in size. Feldspar pits remain - alteration to sericite? then are weathered out. Schistosity 70-80deg to core axis. Ground highly broken. Alteration appears to be weak pervasive sericite but localized zones of quartz-chlorite-sulphide occur. Sulphide is **GALENA-PYRITE** and is not oxidized, for example 5.7m-5.9m, 7.0m-7.1m, 7.9m and 9.0m-9.1m, 18.6m-18.8m, 19.4m, 12.5m-15.5m and 23.1m. Core is dark grey-green from pervasive chloritization and possibly tourmalinization subparallel schistosity. All rock is strongly fractured. No limonitic oxidation occurs. Generally the alteration? is a brown-cream fine anastomosing network of sericite which forms subparallel schistosity. Sericite alteration appears to increase in intensity down hole. 29.5m - Unoxidized **CHLORITE-PYRITE-CHALCOPYRITE-GALENA** vein 5mm wide, 60deg to core axis. 29.95m - 10cm fault pug zone 60deg to core axis.
29.95	34.6		RHYOLITIC FELDSPAR PHYRIC TUFFACEOUS SILTSTONE OR VITRIC TUFF Quartz eyes are sparce or highly sheared and very fine feldspar is replaced by grey cream sericite. At 32.0m oxidation occurs along fractures and occurs as limonite - hematite to end of hole. 32.0m-34.6m - Rock is highly fractured, locally brecciated, appears dark grey, with a slight apple green coloration - possibly from sericitization and silicification. Localized zones with abundant quartz eyes occur. Some **SPHALERITE-PYRITE-CHALCOPYRITE** veinlets remain unoxidized, for example 34.3m 5mm 55deg to core axis - partly oxidised and 34.75m 5mm 90deg to core axis. Small pebble dyke-type vein breccia also occur.
34.6	52.3		VEIN-BRECCIA 34.6m-35.1m - Highly fractured limonitic-gossanous quartz vein containing relic **PYRITE-CHALCOPYRITE**. 35.1m-35.9m - Sheared and puggy rhyolitic crystal tuff - highly broken.

geology

743296

Project **ELLIOTT BAY** Prospect **NORTH LEWIS** Hole **V12/9**

From	To	Code	Description (mineralization in bold type)
			Limonite-PYRITE vein at 35.5m 5mm to core axis. 35.9m-36.4m - Sheared, chloritized tuff. Rock groundmass wholly replaced by chlorite. Only relics are quartz crystal. 36.4m-37.0m - Chlorite-limonite breccia. Angular fragments of the above chloritized rock occur in a limonitic-gossan matrix. 37.0m - 41.3m - Highly sheared, puggy, medium grained quartz crystal/tuff. Strong limonite stain and limonitic fractures abundant. Highly shattered with localized zones of brecciation. Limonite-gossan vein 5cm thick centred at 36.8m 50deg to core axis. 39.9m - Tourmaline vein 2cm wide and minor narrow 2.3mm quartz vein. 41.3m-48.3m - Rock remains more massive but still relatively highly fractured. Strong limonitic stain on fracture but PYRITE blebs after ? feldspar occur. Limonitic pitting common. At 42m a tourmaline vein is clearly cut by limonitic veins. 44.4m - 2cm zone of limonite gossan veins. MnO occurs with limonite in places. 47.6m - Tourmaline patch. 48.3m-48.9m - Quartz vein highly shattered with limonite infill on shatter fracture. 48.6m - Patch of PYRITE mineralization 2cm square remains unoxidized. 48.9m-52.0m - Highly fractured-breccia zone in fine grain vitric tuff. 49.7m - 2cm quartz-gossanous vein subparallel to core. 50.0m-52.0m - Breccia zone. 10cm centred 50.05m zone of unoxidized PYRITE-galena vein 3cm thick form zone of mineralization 55deg. to core axis. Intense shatter of vitric tuff with matrix of limonite and locally tourmaline. 52.0m-52.3m - Limonite-hematite-goethitic vein (30cm thick) containing relic PYRITE.
52.3	70.7		VITRIC TUFF Grey, fine grained, vitric tuff with weak to moderate pervasive chlorite alteration and chlorite stringers. More massive than above zone but still fractured. Fractures are hair lines or open cavity and only contain milnor limonite infills. Minor pug zones. 52.3m-52.6m - Fine tourmaline stringers, very fine grained. Fractures are also infilled with chlorite for example 56.2m. Halos around veins are white-cream. Lower in sequence, relic rock fragments of feldspar occur.

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geology

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/9 Page 3

From	To	Code	Description (mineralization in bold type)
			Chlorite forms in fine anastomosing layers subparallel schistosity. 62.5m-62.8m - Crush zone - fracture-pugg/limonitic. 63.0m - Crush zone - local brecciation. 68.0m-68.5m - Weakly brecciated zone. 68.5m-69.1m - Crush zone - fracture puggy. END OF HOLE.

assays

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/9 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292847	30	32	2.0	960	285	70	<0.5	100	<0.005
292848	32	34	2.0	2550	305	70	0.5	400	<0.005
292849	34	36	2.0	3350	270	60	7.5	1300	0.05
292850	36	38	2.0	1300	2200	90	3.5	3800	0.255
292851	38	40	2.0	270	255	30	1.0	900	0.040
292852	40	42	2.0	325	220	25	1.5	700	0.030
292853	42	44	2.0	220	120	20	<0.5	300	<0.008
292854	44	46	2.0	715	355	35	1.0	700	<0.008
292855	46	48	2.0	375	50	35	0.5	400	0.030
292856	48	50	2.0	800	260	35	5.5	1600	<0.008
292857	50	52	2.0	1010	355	35	5.5	1700	<0.008
292858	52	54	2.0	1225	880	65	15.0	3300	<0.008
292859	54	56	2.0	160	30	20	0.5	100	<0.008
292860	56	58	2.0	170	35	30	<0.5	200	<0.008

CYPRUS

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743299

geotechnical

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/9 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
1.5	3.0					36					
3.0	4.5					93					
4.5	5.2					100					
5.2	6.0					88					
6.0	7.0					50					
7.0	7.8					88					
7.8	9.0					92					
9.0	10.0					90					
10.0	11.3					92					
11.3	12.5					83					
12.5	14.0					40					
14.0	15.0					70					
15.0	16.2					92					
16.2	17.6					93					
17.6	18.6					100					
18.6	19.4					100					
19.4	20.4					90					
20.4	21.3					89					
21.3	22.0					100					
22.0	23.2					100					
23.2	23.8					100					
23.8	24.9					91					
24.9	25.9					100					
25.9	27.0					100					
27.0	28.0					100					
28.0	29.1					100					
29.1	30.0					100					
30.0	30.8					75					
30.8	31.9					100					
31.9	33.0					91					
33.0	34.5					100					
34.5	35.8					100					
35.8	37.3					93					
37.3	38.6					85					
38.6	39.8					83					
39.8	41.3					93					
41.3	42.8					87					
42.8	44.3					93					
44.3	45.8					93					
45.8	47.1					81					
47.1	48.0					89					
48.0	49.5					100					
49.5	51.0					80					
51.0	52.4					43					
52.4	52.8					88					
52.8	53.8					100					
53.8	55.3					100					
55.3	57.8					93					

CYPRUS

743300

geotechnical

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/9 Page 2

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
57.8	58.4					100					
58.4	59.6					100					
59.6	61.1					97					
61.1	61.4					77					
61.4	62.9					100					
62.9	64.1					92					
64.1	65.3					92					
65.3	66.1					100					
66.1	67.1					100					
67.1	68.0					60					
68.0	69.0					95					
69.0	69.6					100					
69.6	70.7					86					

280

743301

drill log cover sheet

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/10

Co-ordinates 299 S mN 005 E mE Logged by CHRIS TORREY

AMG reference		Drilling company	TASMANIA DIAMOND DRILLING
County		Rig type	LONGYEAR 38
Parish		Drilling type	DIAMOND
Portion		Hole size	HQ
Elevation		Core size	
Declination	-50	Depth of casing	
Direction	G 110 M T	Assay sample type	HALF CORE
Commenced	4.2.88	Water table	
Completed	5.2.88	Water yields	
Total depth	49.5m		

Borehole survey

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
NOT SURVEYED											

Notes

CYPRUS

743302

geology

Project **ELLIOTT BAY** Prospect **NORTH LEWIS** Hole **V12/10** Page **1**

From	To	Code	Description (mineralization in bold type)
0.0	1.5		No core. Roller Bit.
1.5	10.7		RHYOLITE QUARTZ-FELDSPAR-LITHIC CRYSTAL TUFF Medium grained texture. Grey, schistose, medium grained tuff. Quartz eyes (1-4mm size) and feldspar (1mm size) occur in grey felsic groundmass. Anastomosing sericite veinlets form subparallel to schistosity and gives pale green color to the rock. Schistosity - 65deg to core axis. 4.65m-5.2m - Shear-crush pug zone. White clayey pug and rock fragments. 6.8m - 5mm quartz vein 30deg to core axis. 7.6m-7.7m - Pervasive dark grey tourmaline alteration. 7.7m - 5cm pug zone. From 7.5m downhole all core is highly fractured and broken. 9.4m-9.6m - Pug zone with 1cm wide tourmaline vein approximately 80deg to core axis.
10.7	41.7		BRECCIA-VEIN ZONE - (TUFF AS ABOVE) Limonite occurs on fracture surfaces - rock becomes shattered and brecciated. Limonitic gossan on fractures. Dark grey-green color in this zone due to the combination of pervasive tourmaline and chlorite alteration. 12.9m-13.3m - Fault-shear - pug zone. Lower contact 80deg to core axis. Rock contains open cavities after oxidation of sulphides in vein. 19.9m-20.3m - Shear pug zone. 26.2m-28.0m - Abundant shattered breccia with chlorite-tuff fragments in a limonitic matrix. 27.4m-28.0m - Tourmaline veins occur 50deg to core axis and are cut and brecciated by limonitic fracture system often subparallel to core. Gossanous boxwork abundant. 28.9m-29.2m - Tourmaline-chlorite-limonite zone. 29.2m-30.6m - Rock is more massive, not so many fractures occur but pervasive alteration by chlorite. 30.6m-32.3m - Highly broken sheared ground. Strongly developed schist 50deg to core axis - limonitic, hematitic, chloritic and brecciated. 32.3m-35.9m - Rock is more massive but strongly altered to chlorite and contains limonite and pink hematite stain. Contains local zones of brecciation. 35.9m-36.6m - Rock as above. Highly sheared with tourmaline vein zones and quartz at 36.3m. Rock strongly limonitic. 36.6m-37.4m - Chlorite-PYRITE rock. Highly sheared rock

geology

Project **ELLIOTT BAY** Prospect **NORTH LEWIS** Hole **V12/10** Page **2**

From	To	Code	Description (mineralization in bold type)
			with strongly developed schistosity. Schistosity - 45deg to core axis. Dark grey, unoxidized due to finely disseminated **PYRITE** and **ARSENOPYRITE**. 37.4m-40.1m - Broken, more massive rock, not as highly sheared. Strongly chloritic with numerous limonitic quartz gossan veins 50deg to core axis and up to 1cm wide. 40.1m-41.7m - Sheared **PYRITE-CHALCOPYRITE** - unoxidized highly schistose rock with finely disseminated **PYRITE**. **PYRITE** stringers in a soft chloritic altered tuff. 40.1m - Base of oxidation.
41.7	49.5		RHYOLITIC CRYSTAL TUFF Highly fractured, pervasively chloritized tuff with numerous shear zones containing minor relic **PYRITE** Patches of sericitic alteration common. 49.0m - Shear. **PYRITE** vein has 1cm wide sericitic alteration halo. END OF HOLE.

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743304

assays

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/10 Page 1

Sample	From	To	Interval	Cu	Pb	Zn	Ag	As	Au
292861	10	12	2.0	65	35	25	2.5	<100	0.11
292862	12	14	2.0	70	25	20	3.0	100	0.265
292863	14	16	2.0	105	40	25	3.0	200	0.150
292864	16	18	2.0	80	40	30	3.5	100	0.07
292865	18	20	2.0	75	50	30	4.0	<100	<0.008
292866	20	22	2.0	80	150	25	4.0	100	0.225
292867	22	24	2.0	50	100	30	3.5	<100	<0.008
292868	24	26	2.0	240	355	245	20.0	100	<0.008
292869	26	28	2.0	145	845	55	20.0	700	0.03
292870	28	30	2.0	240	465	40	10.0	900	0.03
292871	30	32	2.0	115	220	30	2.5	300	<0.008
292872	32	34	2.0	185	295	60	16.0	300	>0.008
292873	34	36	2.0	110	195	70	19.0	100	<0.008
292874	36	38	2.0	420	270	180	10.0	<100	<0.008
292875	38	40	2.0	440	260	130	4.0	<100	<0.008
292876	40	42	2.0	145	400	470	1.5	<100	<0.008
292877	42	44	2.0	35	40	215	0.5	<100	<0.008
292878	44	46	2.0	35	30	150	<0.5	<100	<0.008
292879	46	48	2.0	40	25	70	<0.5	<100	<0.008
292880	48	49.5	1.5	180	100	355	1.0	400	<0.008

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geotechnical

Project ELLIOTT BAY Prospect NORTH LEWIS Hole V12/10 Page 1

From	To	Rock type	Wing.	Schist.	Rock strength	Recovery	RQD	CBA	SG	Mag susc.	Remarks
1.5	2.5					75					
2.5	4.0					100					
4.0	5.2					92					
5.2	6.2					100					
6.2	7.5					100					
7.5	8.5					100					
8.5	9.3					100					
9.3	10.4					91					
10.4	11.5					91					
11.5	13.0					100					
13.0	14.2					100					
14.2	15.5					100					
15.5	17.0					87					
17.0	18.4					86					
18.4	19.2					87					
19.2	20.1					89					
20.1	21.2					100					
21.2	22.2					100					
22.2	22.9					100					
22.9	24.0					91					
24.0	25.0					100					
25.0	26.5					100					
26.5	28.0					97					
28.0	29.5					97					
29.5	30.6					100					
30.6	32.3					76					
32.3	33.8					90					
33.8	35.4					94					
35.4	35.9					74					
35.9	36.6					100					
36.6	37.5					67					
37.5	38.2					86					
38.2	38.9					57					
38.9	40.2					69					
40.2	41.5					92					
41.5	42.5					95					
42.5	43.7					100					
43.7	45.2					93					
45.2	46.7					100					
46.7	47.8					73					
47.8	49.5					94					

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APPENDIX 5

PETROLOGICAL REPORT

By R N England

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Incorporated in Delaware, USA with limited liability

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15 March 1988

Mr R.N England
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Dear Dick

Enclosed are 13 core samples from our Wart Hill Prospect at Elliott Bay SW Tasmania. The prospect is referred to as Voyager 19 (V19) by Large in his Economic Geology papers.

Also enclosed is a sketch geological map with drill hole locations.

Sample No	Location	
293151 Thin section	WH3 52.5m	-this is a massive quartz - feldspar-biotite porphyry with qtz-carbonate veins. It appears to intrude and cut out the mineralized sequence to the north.
293152 Thin section	WH3 48m	Mafic? dyke on margins of porphyry
293153 Thin section	WH3 36.6m	Volcaniclastic sandstone-breccia with pink-brown albite?-carbonate alteration
293154 Polished thin section	WH4 53.6m	Chlorite-sphalerite-pyrite-galena-chert breccia. Typical of mineralized parts of the epiclastic sequence
293155 Thin section	WH4 51.7m	Silicified tuffaceous sandstone -volcanoclastic sediment

293156 Thin section	WH4 60.8m	Volcanoclastic breccia. Frags of massive qtz-feldspar porphyry and fine white silica in a green sandy matrix. Cut section to get as many clast varieties as possible. What is that fine white silica rock? Suspect it is a sparce silicified porphyry.
293157 Thin section	WH4 80.8m	Silicified volcanoclastic breccia
293158 Polished thin section	WH4 84 7m	Banded massive sulphide. Can you tell whether or not banding is primary or deformational?
293159 Thin section	WH4 85.1m	Laminated chert. All places occurs in close proximity to massive sulphides - possibly hanging wall exhalite.
293160 Polished section	WH2 40.9m	Sericitized quartz-feldspar thin crystal tuff with ? folded pyrite -sphalerite layers. Are the sulphides transposed along cleavage?
293161 Polished thin section	WH2 44.4m	Sphalerite-galena-qtz-carbonate massive sulphide rock.
293162 Polished thin section	WH2 44.9m	Grey chert with anastomizing fractures infilled with pyrite and amber sphalerite.
293163 Thin section	WH1 63.5m	Rhyolitic qtz-feldspar-biotite porphyritic, lithic, sericitized crystal tuff.

Most rock types are represented in the suite. It would appear that the sulphides occur as clasts in a sandstone-breccia epiclastic sequence. The sequence interdigitates with more pyroclastic-looking rocks (represented by sample 293163) and graded contacts are common. Even large pods (1m x 4m) that Geopeko discovered may be clasts. This suggests some mass flow type deposit which has a massive sulphide sequence as it's source.

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References to look at include the first 3 papers in Econ Geol V82 No2 and Huston & Large Econ Geol V82 No6.

Please provide petrographic descriptions of each sample and summarize the nature of mineralization and alteration.

Note in the Large papers they don't recognize that they are looking at an epiclastic sequence. Rocks are variably described as tuffs or in the case of cherts - flow banded rhyolites.

Please return slides and offcuts with completed report.

Quote order number E03551 with your invoice.

Yours faithfully

Chris Torrey
Project Geologist
CYPRUS GOLD AUSTRALIA CORP.

PETROGRAPHIC NOTES ON 13 SAMPLES FROM THE WART HILL PROSPECT, ELLIOTT BAY AREA, S.W. TASMANIA

293151. WH3, 52.5m. Sericitised quartz-feldspar-biotite porphyry(crystal-?vitric tuff).

Partly resorbed, usually whole bipyramidal 1-3mm quartz phenocrysts form about 7% of the rock. More common blocky 1-2mm feldspar phenocrysts are completely altered to 5-20 micron sericite. Most of the smaller relics of feldspar phenocrysts, or perhaps pumice fragments, have been flattened into whispy lenses parallel to the whitemica foliation. 0.5-2mm flakes of biotite and possibly prisms of hornblende, in all 2-5% of the rock, are altered to masses of 50-100 micron dolomite and quartz anhedra, and minor whitemica flakes [generally sharing (001) with the original biotite], all dusted with 5-50 micron anhedra and stubby rough prisms of rutile.

The groundmass consists mainly of about equal proportions of 10-100 micron quartz anhedra and 5-20 micron sericite flakes with minor unevenly disseminated 50-100 micron anhedra and well-formed rhombs of dolomite. A moderate foliation is defined by the preferred orientation of sericite flakes.

A suite of less common microphenocrysts(which are commonest in glomeroporphyritic clots) indicates an unusual pre-alteration magma composition. Zircons are large(<200 microns) and abundant. They indicate as much as 500ppm Zr and perhaps high contents of other high-field-strength cations such as U, Th, and REE,and Sn. They are a likely source of the radiogenic Pb in the Devonian vein-type Pb-Zn mineralisation(see Gulson et al., 1987). I am tempted to suggest A-type magmatic character for this rock, and probably the rest of the pyroclastic suite. Prominent stubby prismatic phenocrysts of apatite indicate high P_2O_5 for such a felsic rock, perhaps as much as 0.3-0.5%. In this respect the rock has shoshonitic tendencies. Rare 0.5mm equant titanomagnetite anhedra altered to masses of fine rutile and sericite indicate, as one would expect, an I-type rather than S-type composition. More common 50-100 micron ilmenite tablets are altered to much denser masses of rutile.

A 10mm veinlet cutting the core axis at a narrow angle consists mainly of strained anhedra of 0.02-2mm of dolomite and minor 0.02-0.5mm quartz. Very minor 2-100 micron anhedra of galena and sphalerite occur in tiny stringers throughout the veinlet, but concentrate in a quartz-rich shear down the middle. No doubt this is the syn- or post-metamorphic Devonian vein-style mineralisation enriched in radiogenic Pb. Fluid inclusions in quartz are very small, but appear to consist mainly of an aqueous phase with a relatively small vapour bubble; some also have tiny ?halite cubes.

The presence of dolomite-quartz throughout WH3 does not necessarily indicate high metamorphic a_{CO_2}. Data in Helgeson et al.(1978) indicate that at 300° and 2kb, a reasonable P,T estimate, dolomite-quartz is stable for $X^{CO_2}>0.05$. Contrasting with this hole, the carbonate in WH4 is invariably calcite.

293152. WH3, 48m. Metadolerite.

There are no phenocrysts in this fine-grained dolerite. 0.2mm plagioclase phenocrysts are altered to masses of 10-micron sericite flakes. Interstitial ?pyroxenes are altered to abundant 10-micron chlorite and minor 20-100 micron quartz and dolomite. 20-100-micron skeletal Fe-Ti oxides are completely altered to rutile. A 5mm dyke cutting the core axis at about 90° is distinguished from its very similar host by finer-grained Fe-Ti oxides and a greater proportion of secondary dolomite.

Disseminated pockets up to 1mm across of 10-100 micron colourless sphalerite and 20-micron chlorite flakes account for several thousand ppm Zn. Associated 5-50 micron galena and chalcopyrite suggest a couple of hundred ppm each of Pb and Cu. Disseminated 0.1mm pyrite cubes are very rare. Rare 1mm quartz-chlorite-dolomite veinlets are strongly enriched in ga, sphalerite, and chalcopyrite. Perhaps only the Cu is indigenous.

293153. WH3, 36.6m. Dolomitised, sericitised quartz-feldspar-biotite crystal-vitric tuff.

There are a number of differences between this rock and 293151. About half of the groundmass is here replaced by aggregates of interlocking 0.1-0.5mm anhedral dolomite(which is harder than mild steel, perhaps as a result of work-hardening during deformation). Sericitised blocky 1mm plagioclase phenocrysts are seldom clearly recognised, and most sericite forms 0.5-5mm whisps parallel to a mica lineation running roughly normal to the core axis. Quite common layered 1-2mm clasts of sericite and fine-grained quartz are probably flattened pumice. Bent minor phenocrysts of biotite are altered to whitemica dusted with very fine-grained rutile.

A grey layer is slightly poorer in dolomite.

Pyrite(0.2%) forms disseminated clusters of 1-200 micron anhedra and rough cubes. The finest pyrite is commonly framboidal. In a few places it forms stringers of fine grains. Tiny traces of fine-grained chalcopyrite and sphalerite associated with pyrite account for a few tens of ppm Cu and probably much more Zn. The pyrite framboids suggest bacterial action.

293154. WH4, 53.6m. Lineated chlorite-sphalerite-pyrite-galena-chert breccia.

1-20mm stretched pebbles of ore and chert, and minor less deformed partly fragmented volcanic quartz, feldspar(now microcline), and minor chloritised igneous biotite phenocrysts lie in a matrix of crenulated muscovite-sphalerite schist.

The largest clasts contain abundant 20-micron to 1mm pyrite cubes with interstitial similar-sized ribbon quartz, chlorite, and in the clasts with finer-grained pyrite, sphalerite and galena. In a smaller but equally abundant clast variety, massive colourless sphalerite has inclusions of other phases, notably

bleb-shaped galena and anhedral to cube-shaped pyrite. Less common inclusions in sphalerite are chalcopyrite, as rare outbreaks of chalcopyrite disease or slightly coarser blebs. Fine blebs of tetrahedrite, included in sphalerite or associated galena and quartz, are extremely rare. Minor chert clasts contain volcanic quartz clasts, calcite rhombs, and small grains of sulphides.

The muscovite schist matrix has, in addition to small amounts of fine-grained other sulphides, about 15% of 10-micron to 1mm roughly lenticular sphalerite grains parallel to the cleavage. Tiny galena anhedra form very common inclusions in microcline.

The axes of the crenulations in the matrix muscovite are parallel to the stretching lineation.

293155. WH4, 51.7m. Sericitised quartz-feldspar-biotite crystal-vitric tuff.

This is the best preserved of the suite 293151, 293153, 293155. It has all the primary features of those rocks with additional ones preserved. 0.1-1mm quartz phenocrysts(15%) are mostly highly angular fragments. 0.2-2mm blocky plagioclase phenocrysts(15%) are altered to completely to moderately sericitised albite. Biotite and Fe-Ti oxides are typical. Quite common subparallel whisps up to 5mm long of fine sericite are pretty clearly relics of pumice fragments. Stubby 0.1-1mm apatite phenocrysts account for c. 0.5% P_2O_5. Again zircon is very common. Disseminated pockets of 0.1-1mm barite anhedra account for several thousand ppm Ba. Rare 0.1mm calcite anhedra associate with albite and barite.

Disseminated 10-200 micron anhedra and cubes of pyrite form about 0.5% of the rock; framboids are rare and poorly formed.

The feldspar composition suggests that the rock is rhyodacitic or dacitic.

293156. WH4, 60.8m. Sericitised tuffaceous conglomerate with pebbles of porphyritic acid lava and mottly grey-white marble.

The matrix is very similar to 293155 from 51.7m in this hole, but apparently not as rich in apatite. Subrounded pebbles up to a few cm across are of two main types.

Porphyritic acid lava clasts have rarely fragmented, slightly resorbed 0.5-2mm bipyramidal quartz phenocrysts(10%), heavily sericitised, albitised, blocky, rarely fragmented plagioclase phenocrysts(15%) and rare small chloritised biotite flakes. Their groundmasses, once possibly glassy, are now mainly 5-50 micron quartz and possibly fine-grained albite, with minor 10-20 micron sericite flakes and 50 micron calcite anhedra. Zircons appear to be quite common, suggesting a common origin with the tuffs.

The marble clasts are of very fine-grained rock(mostly 10-20 microns), with up to 30% 2-30 micron quartz. The aggregate may thus appear to be much harder than calcite. Small pockets of

coarser calcite may be poorly preserved fossils; a 5mm circular feature on the outside of the core may be a section through an archaeocyathid.

2-300 micron anhedra and rough cubes of pyrite disseminated through clasts and matrix form about 0.5% of the rock. Disseminated anhedra of sphalerite(up to 0.1mm) and galena(up to 30 micron), accounting for several hundred ppm Zn and Pb, quite strongly favour the rhyolite fragments, especially the small ones. A 1mm clast consisting of <0.2mm chalcopyrite, galena, tetrahedrite, quartz, and calcite may be allochthanous.

293157. WH4, 80.8m. Calcified tuffaceous conglomerate with acid volcanic and marble pebbles.

The relationship between this rock and 293156 from 60.8m in this hole rocks is quite similar to that between the dolomitised crystal-vitric tuff, 293153(WH3, 36.6m), and its less altered equivalents 293151 and 293155. The groundmasses and plagioclase phenocrysts of the matrix and lava clasts are heavily altered to 20-200 micron calcite anhedra. Minor 50-100 micron flakes of chlorite are disseminated in the matrix, but they also form 0.5mm clots after very minor ferromagnesian phenocrysts. The marble clasts consist here of coarse-grained(0.1-2mm) curved crystals of calcite and are free of quartz. Biotite in the matrix forms more prominent, thicker tablets. Coarse flakes of whitemica have been gathered into minor stylolites.

2-50 micron anhedra and rough cubes of disseminated pyrite(0.1%) favour the marble clasts. 10-50 micron sphalerite, accounting for a few hundred ppm Zn, occurs disseminated with albite and a trace of galena in 0.2mm cavity fillings in the marble clasts.

293158. WH4, 84.7m. Layered sphalerite-galena-barite-fluorite-(pyrite)-(tetrahedrite)-(magnetite) ore.

Pale amber sphalerite(55%) occurs mostly as 0.1-0.2mm equant grains. C. 0.2mm galena(15%) fill interstices between sphalerite grains. Barite(10%) forms 50-micron to (rarely)5mm grains, which show a granoblastic texture where they occur together. 0.1-1mm fluorite(15%) is evenly disseminated through the ore. 20-200 micron rough cubes of pyrite form about 2% of the rock. 20-300 micron grains of tetrahedrite(0.5%) with a similar habit to galena are the likely Ag-carrier. All these phases are anhedral. 30-100 micron equant subhedra of magnetite form about 0.5% of the rock. 20-200 micron anhedra of calcite(2%) occur in 0.5mm slightly discordant veinlets and appear to have replaced surrounding barite.

Pyrite, and to some extent galena, concentrate in 1-5mm layers 5-20mm apart. 5mm layers enriched in barite are much rarer. There is no evidence to suggest that this layering is related to deformation. It is more likely to be of sedimentary origin, given that the deformation in this area produces mainly linear fabrics.

293159. WH4, 85.1m. Finely bedded pale grey marble.

The rock is mostly a granoblastic aggregate of 0.1mm calcite. Evenly disseminated 10-50 micron quartz anhedra forming about 10% of it are probably responsible for its ability to scratch steel. It is probably the source of the marble clasts in the samples from 60.8 and 80.8m in this hole. The 1-5mm fine banding is due in part to very minor narrow chert bands, but also to the distribution of 1-30 micron galena anhedra. Colourless sphalerite grains up to 0.2mm occur with clusters of very fine galena in minor thin chert veinlets. These suggest several hundred ppm Pb and Zn.

293160. WH2, 40.9m. Lineated, sericitised, reworked quartz-feldspar-biotite crystal-?vitric tuff.

This rock has much in common with 293155, from WH4, 51.7m, but has been slightly reworked. It contains minor subangular clasts up to 5mm across that are rich in 1-2mm quartz phenocrysts and fragments thereof. 50-200 micron anatase relics of Fe-Ti oxides(2%) are concentrated by sedimentary winnowing, into layers with quite common large zircons. The lineation is roughly within this bedding. The groundmass of 10-20 micron quartz and sericite has a very uneven texture with 1-5mm sericite-rich whisps parallel to a strong whitemica lineation. These are all that remain of probable feldspar phenocrysts and possible pumice fragments. Minor 0.2-1mm pockets of 0.1mm ?magnesite anhedra are even less reactive to acid than the carbonate in WH3. Its e ray RI is still substantially less than 1.55, so near end-member ankerite, siderite, and rhodochrosite are ruled out. Magnesite is known elsewhere in this environment(Frost & Matzat, 1984).

0.2-5mm lenticular clusters of 10-100 micron rough cubes of pyrite(1%) lie parallel to the foliation. Jarosite(<0.1%), forms disseminated aggregates of a few 50 micron grains. It is independent of pyrite and therefore probably primary.

293161. WH2, 44.4m. Massive sphalerite(-quartz) ?lens in porphyry.

A fairly irregular contact between silicified acid porphyry and massive sphalerite(-quartz) rock cuts the core axis steeply and runs parallel to a strong whitemica foliation in the porphyry.

The porphyry is much like the sample from 40.9m in this hole, but is much richer in fine-grained quartz. Carbonate pockets are more abundant, coarser grained, and dusted with minor 5-30 micron galena. 10-200 micron anhedral sphalerite is an important minor phase in this half of the rock..

The massive sulphide lens contains about 60% pale amber sphalerite but still has about 15% of 0.2-2mm mainly fragmented bipyramidal volcanic quartz clasts, whose outlines have been irregularly corroded. A similar proportion of 20-200 micron quartz tends to be equant with interstitial sphalerite, or

enclosed in massive sphalerite where that mineral is dominant. Other sulphides tend to be included in sphalerite or at grain boundaries between it and quartz. These are 5-300 micron galena(2% of the lens, also included in ?magnesite, q.v.), 2-100 micron chalcopyrite(0.5%), 20-200 micron anhedral and cube-shaped pyrite(1%), extremely rare 0.2mm euhedral prismatic ?greenockite(CdS), 0.1mm flakes of chlorite(tr), and 0.1-0.3mm anhedra and rhombs of ?magnesite(1%).

293162. WH2, 44.9m. Stretched, mineralised, silicified ?lithic ?tuff.

This rock consists mainly of parallel, c. 3x7mm strongly lineated sericitic chert pods which may have been ?intermediate igneous rock fragments. The pods have thin envelopes of sulphides, whitemica, and chlorite with a very strong linear fabric. Moderately common 0.5-5mm pockets 50-micron to 1mm ribbon quartz and sulphides are stretched in the same direction. Some are included in the pods and some occur separately. They are probably replacement products of phenocrysts(mainly plagioclase?). One would have thought quartz phenocrysts would still be recognisable, had they been present originally.

20-micron to 0.5mm colourless sphalerite(10%) is the dominant sulphide. Associated with sphalerite are 20-300 micron cubes and anhedra of pyrite(3%), 5-300 micron chalcopyrite(0.5%) and galena(0.5%). Some sphalerite has chalcopyrite disease. Very minor 5-20 micron sulphides are disseminated through the chert.

293163. WH1, 63.5m. Lineated, sericitised, reworked quartz-feldspar-biotite crystal-vitric tuff.

This rock is much like 293160(WH2, 40.9m), but fine-grained pyrite is rare. 20-200 micron partly fragmental Fe-Ti oxides, again concentrated in bands, are better preserved, though still altered to very fine-grained anatase. Stretched chloritised biotite phenocrysts are rarely preserved.

NOTE

There is some unusually hard calcite, dolomite, and probably magnesite in this suite. Both dilute and strong HCl would be useful for logging these rocks.

REFERENCES

M.T.FROST & H.W.MATZAT(1984). A further large magnesite deposit along the Savage River in northwestern Tasmania. Econ. Geol., 79, 404-408.

HELGESON, H.C., J.M.DELANY, H.W.NESBITT & D.K.BIRD(1978). Summary and critique of the thermodynamic properties of the rock-forming minerals. Am. Jour. Sci., 278a.

GULSON, B.L., R.R.LARGE & P.M.PORRITT(1987). Base-metal exploration in the Mount Read volcanics, Part III, Application of Pb isotopes at Elliott Bay. Econ. Geol., 82, 308-327.

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ORDER No. E 03553. PETROGRAPHIC NOTES ON 2 SAMPLES OF TUFFACEOUS SANDSTONE FROM THE VOYAGER PROSPECT, ELLIOTT BAY, SW TASMANIA.

293164. V19/3/296.1m. Tuffaceous sandstone or reworked acid crystal-lithic tuff.

Evenly disseminated 0.1-1.5mm quartz bipyramids and abundant angular fragments thereof form about 15% of the rock. 0.1-1mm anhedra and fractured blocky subhedra of albitised plagioclase(5%) are much less common than quartz clasts. Disseminated 0.1-0.5mm anhedra of secondary calcite(3%) tend to associate with plagioclase. The abundant matrix consists of 50-200 micron whitemica flakes and 10-100 micron quartz anhedra. Whitemica concentrates in anastomosing trains parallel to a strong lineation. Randomly oriented 20-micron flakes of bright green chlorite are very rare. Rare 0.2mm disseminated clusters of 2-50 micron anatase prisms are clearly after small grains of ?igneous Fe-Ti oxide. Shadowy relics up to 3mm across, in many places enveloped by trains of whitemica, are very common in the matrix. They were clearly fragments of fine-grained(perhaps glassy) igneous rock.

The whitemica is probably muscovite, but paragonite is a possibility here with coexisting albite.

0.1mm cubes and anhedra of pyrite(0.1%) form rare clusters up to 1mm across.

293165 V19/3/142m. Tuffaceous sandstone or reworked acid crystal-lithic tuff.

There are only minor differences between this rock and 293164. Quartz is a little finer grained and slightly less abundant. Plagioclase is missing, having succumbed to passing albite-undersaturated fluids. Calcite is more abundant and slightly coarser grained. Whitemica is coarser grained with a stronger lineation. Pyrite is finer grained and does not form clusters.

General Comment.

Of those rocks from this prospect which I have described earlier, the closest to these are 293160(WH2, 40.9m), and 293163(WH1, 63.5m).

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APPENDIX 6

ANALYTICAL RESULT SHEETS AND SAMPLE DATA SHEETS

300

743320

north lewis : DRILL CORE

Check Samples

North Lewis Prospect

Sample No	Type	Au (g/t) Analabs	Au (g/t) Comlabs
292155	Core	0.35	0.35
292156	"	0.06	0.09
292157	"	0.155	0.20
292199	"	0.03	0.02
292200	"	0.17	0.18
292816	"	0.01	0.03
292838	"	0.105	0.13
292839	"	0.45	0.54
292840	"	<0.005	0.04
292850	"	0.255	0.25
292862	"	0.265, 0.31	0.36
292863	"	0.15, 0.125	0.17
292866	"	0.225	0.26

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sample data sheet

Cyprus Minerals

Despatch No 5760 Order No

Requested by Date 27-1-1988 DDH V12/6

Project KL Lyles Ellis BM Prospect NORTH LEWIS Type DRILL CORE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	Hg
1	292151		5.00 - 5.40	17	30	50	<0.5	10	<0.005	
2	292152		7.00 - 8.50	75	45	60	0.5	110	0.005	
3	292153		11.50 - 13.50	90	55	40	<0.5	60	0.015	
4	292154		18.00 - 20.00	120	300	35	10.5	1400	0.325	
5	292155		21.00 - 23.00	265	240	50	5.0	1000	0.238	0.35
6	292156		23.00 - 25.00	305	100	25	1.5	150	0.06	
7	292157		26.50 - 28.00	710	4000	360	29.1	5100	0.155	
8	292158		28.00 - 30.00	15	510	65	3.5	1400	0.04	
9	292159		30.00 - 32.00	120	315	30	<0.5	750	0.040	
10	292160		32.00 - 34.00	105	175	30	2.5	700	0.035	
11	292161		34.00 - 36.00	155	215	35	2.0	1100	0.060	
12	292162		36.00 - 38.00	90	45	30	1.0	670	0.01	
13	292163		38.00 - 40.00	225	215	45	5.5	1000	0.044	
14	292164		40.00 - 42.00	365	215	40	4.5	1200	0.19	
15	292165		42.00 - 44.00	80	80	70	6	1700	0.076	
16	292166		44.00 - 46.00	70	20	5	0.5	430	0.01	
17	292167		46.00 - 48.00	100	35	30	1.5	740	0.02	
18	292168		48.00 - 50.00	50	70	40	1.5	700	0.01	
19	292169		50.00 - 52.00	165	80	50	1.0	720	0.045	
20	292170		52.00 - 54.00	145	70	40	2.0	1100	0.025	
21	292171		54.00 - 56.00	165	370	60	5.5	1700	0.155	
22	292172		56.00 - 58.00	215	215	65	26	1900	0.085	
23	292173		58.00 - 60.00	95	160	60	6.0	1700	0.016	
24	292174		60.00 - 62.00	180	200	70	26	2200	0.050	
25	292175		62.00 - 64.00	150	40	45	1.0	370	0.005	

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sample data sheet

Cyprus Minerals

Despatch No 5760 Order No

Requested by Date 27-1-1988

V12/6

Project EL 40/25 **Prospect** NORTH LEWIS **Type** DRILL CORE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	292176		64.00-66.00	210	200	25	2.0	720	0.005	
2	292177		66.00-68.00	~~260~~	70	20	3.0	[illegible]	0.01	
3	292178		68.00-70.00	400	240	75	7.0	380	0.015	
4	292179		70.00-72.00	315	45	15	1.0	130	0.005	
5	292180		72.00-74.00	210	110	15	2.0	220	0.005	
6	292181		74.00-75.80	525	110	30	2.5	140	0.01	
7	292182		75.80-78.00	740	150	30	2.0	270	0.010	
8		12.30								
9	292308		1.5-3.00	120	40	40	<0.5	200	<0.005	
10	292309		3.0-7.0	270	120	60	<0.5	300	<0.005	
11	292310		7.5-11.5	125	80	30	<0.5	600	0.015	
	292321		13.5-16.0	95	55	30	<0.5	400	<0.005	<0.005
	292322		16.0-17.0	55	100	25	<0.5	420	[illegible]	
14	292323		20.0-21.0	200	120	30	0.5	700	0.01	
15	292324		23.0-26.5	220	170	40	2.0	600	0.01	
16	292325		[illegible]	1350	80	65	<0.5	100	[illegible]	
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sample data sheet

Cyprus Minerals

Despatch No 5762 Order No E00399

Requested by [illegible] Kollock Date 1/2/88

Project Elliott Bay Prospect North Lewis Type [illegible]

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	Au	Au
1	292153		1.5-4.0	135	[illegible]	100	[illegible]	400	<0.005
2	292154		4.0-8.0	300	360	[illegible]	1.0	[illegible]	0.045
3	292155		8.0-8.0	70	135	125	[illegible]	100	<0.005
4	292156		8.0-10.0	30	60	40	1.0	400	<0.005
5	292157		10.0-12.0	200	125	70	[illegible]	600	[illegible]
6	292158		12.0-14.0	120	140	55	[illegible]	[illegible]	<0.005
7	292159		14.0-16.0	230	165	80	1.5	100	[illegible]
8	292160		16.0-18.0	195	135	75	1.0	200	[illegible]
9	292161		18.0-20.0	200	340	80	1.0	700	[illegible]
10	292162		20.0-22.0	230	335	110	2.5	700	[illegible]
11	292163		22.0-24.0	200	130	[illegible]	[illegible]	400	[illegible]
12	292164		24.0-26.0	470	865	190	1.0	1000	[illegible]
13	292165		26.0-28.0	255	360	[illegible]	[illegible]	800	<0.005
14	292166		28.0-30.0	[illegible]	70	[illegible]	[illegible]	100	[illegible]
15	292167		30.0-32.0	100	225	[illegible]	1.0	[illegible]	[illegible]
16	292168		32.0-34.0	[illegible]	475	[illegible]	<0.5	700	[illegible]
17	292169		34.0-36.0	730	645	100	0.5	200	[illegible]
18	292200		36.0-38.0	720	100	[illegible]	4.5	100	[illegible]
19	292201		[illegible]	2200	[illegible]	[illegible]	1.0	[illegible]	[illegible]
20	292202		[illegible]	1200	[illegible]	55	<0.5	100	[illegible]
21	292203		[illegible]	710	330	45	[illegible]	[illegible]	[illegible]
22	292204		44.0-46.0	[illegible]	[illegible]	40	[illegible]	[illegible]	<0.005
23	292205		46.0-48.0	1200	360	[illegible]	[illegible]	200	[illegible]
24	292206		48.0-50.0	3700	1250	125	0.5	100	<0.005
25	292207		50.0-52.0	570	345	305	2.5	1000	[illegible]

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sample data sheet

Cyprus Minerals

Despatch No 5762 Order No E003599

Requested by R. Black Date 1/2/82 V12/7

Project Elliott Bay Tasmania Prospect North Lewis Type Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	292808		52.0-56.0	420	945	190	4.0	<100	0.040	
2	292809		56.0-58.0	315	285	285	1.5	<100	0.020	
3	292810		58.0-58.0	50	85	50	<0.5	<100	0.005	
4	292811		58.0-60.0	90	365	115	0.5	<100	0.005	
5	292812		60.0-62.0	100	200	170	1.0	<100	0.005	
6	292813		62.0-64.0	175	145	100	0.5	200	0.020	
7	292814		64.0-66.0	75	135	90	0.5	<100	0.005	
8	292815		66.0-68.0	2075	2000	0.58%	9	200	0.170	
9	292816		68.0-70.0	190	55	110	<0.5	<100	0.010	
10	292817		70.0-72.0	425	220	335	1.0	<100	0.005	
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sample data sheet

Cyprus Minerals

Despatch No | Order No

Requested by C. TORRE | Date 12/8

Project | **Prospect** NORTH LEWIS | **Type** DRILL CORE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	242376		1.5 - 4.0	80	70	20	<0.5	<100	0.01	
2	242377		4.0 - 6.0	65	50	20	0.5	<100	0.01	
3	242378		6.0 - 8.0	135	295	80	<0.5	<100	0.005	
4	242379		8.0 - 10.0	70	155	40	<0.5	100	<0.005	
5	242380		10.0 - 12.0	90	255	55	<0.5	700	0.01	
6	242381		12.0 - 14.0	125	190	60	<0.5	100	0.015	
7	242382		14.0 - 16.0	95	150	40	<0.5	200	<0.005	
8	242383		16.0 - 18.0	125	280	70	<0.5	1000	0.05	0.075
9	242384		18.0 - 20.0	100	260	55	<0.5	200	<0.005	
10	242385		20.0 - 22.0	120	175	60	<0.5	300	<0.005	
11	242386		22.0 - 24.0	145	320	75	<0.5	300	0.015	
12	242387		24.0 - 26.0	700	405	70	<0.5	1000	0.08	
13	242388		26.0 - 28.0	1950	750	210	5.0	2000	0.105	
14	242389		28.0 - 30.0	4200	1800	235	25.5	1%	0.45	
15	242390		30.0 - 32.0	165	75	20	<0.5	700	<0.005	
16	242391		32.0 - 34.0	195	115	30	<0.5	500	0.035	
17	242392		34.0 - 36.0	130	45	25	<0.5	300	0.005	
18	242393		36.0 - 38.0	105	55	30	<0.5	200	<0.005	
19	242394		38.0 - 40.0	120	70	25	<0.5	200	0.02	
20	242395		40.0 - 42.0	90	110	20	<0.5	200	0.020	
21	242396		42.0 - 44.0	80	195	20	<0.5	100	0.02	
22	~~242397~~		~~44.0 - 46.0~~							
23	~~242398~~		~~46.0 - 48.0~~							
24	~~242399~~									
25	~~242400~~									

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sample data sheet

Cyprus Minerals

Despatch No Order No

Requested by C. TORREY Date V12/9

Project KNIGHT DIV IAS **Prospect** NORTH LEWIS **Type** DRILL CORE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	Ni	As	
1	292647		30-32.0	960	235	70	<0.5	100	<0.005	
2	292648		32.0-34.0	2000	200	70	0.5	400	<0.02	
3	292649		34.0-36.0	3500	470	60	7.5	1300	0.05	
4	292650		36.0-38.0	1300	2200	90	3.5	3800	0.255	
5	292651		38.0-40.0	270	285	30	1.0	900	0.040	
6	292652		40.0-42.0	325	220	45	1.5	700	0.030	
7	292653		42.0-44.0	220	140	20	<0.5	300	<0.005	
8	292654		44.0-46.0	715	225	35	1.0	700	0.026	
9	292655		46.0-48.0	375	100	30	0.5	400	0.030	
10	292656		48.0-50.0	800	260	35	3.5	1600	<0.005	
11	292657		50.0-52.0	1010	335	35	5.5	1700	<0.005	
12	292658		52.0-54.0	1225	380	65	15	3300	<0.005	
13	292659		54.0-56.0	160	30	20	0.5	100	<0.005	
14	292660		56.0-58.0	170	35	30	<0.5	200	<0.005	
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sample data sheet

Cyprus Minerals

Despatch No 5766 Order No EO35014

Requested by C. Berry Date 15/7/98 V12/10

Project North Lewis **Prospect** **Type** Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	242861		10-12m	65	35	25	2.5	<100	0.11	
2	242862		12-14m	70	25	20	3.0	100	0.1	[illegible]
3	242863		14-16m	105	40	25	3.0	200	0.10	0.1
4	242864		16-18m	80	40	30	3.5	100	0.07	
5	242865		18-20m	75	50	30	4.0	<100	<0.005	
6	242866		20-22m	80	150	25	4.0	100	0.12	
7	242867		22-24	50	100	30	3.5	<100	<0.005	
8	242868		24-26	240	355	245	20	100	<0.005	
9	242869		26-28	145	485	55	20	700	0.05	
10	242870		28-30	240	465	40	10	<100	0.03	
11	242871		30-32	115	220	70	2.5	300	<0.005	
12	242872		32-34	145	245	60	16	300	<0.005	
13	242873		34-36	110	195	70	19	100	<0.005	
14	874		36-38	420	270	180	10	<100	<0.005	<0.005
15	875		38-40	440	260	130	4.0	<100	<0.005	
16	876		40-42	165	400	470	1.5	<100	<0.005	<0.005
17	877		42-44	35	40	215	0.5	<100	<0.005	
18	878		44-46	35	30	120	<0.5	<100	<0.005	
19	879		46-48	40	25	70	<0.5	<100	<0.005	
20	242880		48-49.5	190	100	355	1.0	400	<0.005	
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sample data sheet

Cyprus Minerals

Despatch No 5766 Order No E035014

Requested by C. Lorrey Date 15/7/88 V12/10

Project North Lewis Prospect Type Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	292861		10-12m	65	35	25	2.5	<100	0.11	
2	292862		12-14m	70	25	20	3.0	100	0.265	0.30
3	292863		14-16m	105	40	25	3.0	200	0.150	0.125
4	292864		16-18m	80	40	30	3.5	100	0.07	
5	292865		18-20m	75	50	30	4.0	<100	<0.008	
6	292866		20-22m	80	150	25	4.0	100	0.225	
7	292867		22-24	50	100	30	3.5	<100	<0.008	
8	292868		24-26	240	355	245	20	100	<0.008	
9	292869		26-28	145	485	55	20	700	0.03	
10	292870		28-30	240	465	40	10	900	0.03	
11	292871		30-32	115	220	70	2.5	300	<0.008	
12	292872		32-34	145	245	60	16	300	<0.008	
13	292873		34-36	110	195	70	19	100	<0.008	
14	874		36-38	120	270	180	10	<100	<0.008	<0.008
15	875		38-40	440	260	130	4.0	<100	<0.008	
16	876		40-42	45	400	470	1.5	<100	<0.008	<0.008
17	877		42-44	35	40	215	0.5	<100	<0.008	
18	878		44-46	35	30	150	<0.5	<100	<0.008	
19	879		46-48	40	25	70	<0.5	<100	<0.008	
20	292880		48-49.5	90	100	355	1.0	400	<0.008	
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wart hill : SOILS, ROCKCHIPS

sample data sheet

Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 ELLIOT BAY **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	291801	13000N-9900E, 2m,	Qtzose Volcanic	<5	15	80	3	<0.008	1060	
2	291802	13000N-9912E, 2m,	" "	<5	10	60	1	<0.008	532	
3	291803	13000N-9925E, 15m,	" "	<5	25	95	3	<0.008	960	
4	291804	13000N-9937E, 4m,	" chloritic	10	15	260	<1	<0.008	966	
5	291805	13000N-9950E, 8m,	Qtzose Volcanic	10	90	55	<1	<0.008	676	
6	291806	13000N-9962E, 2m,	" "	5	<5	25	<1	<0.008	1020	
7	291807	13000N-9975E, 5m,	" "	5	25	35	<1	<0.008	973	
8	291808	13000N-10,000E, 5m,	" "	10	80	80	<1	<0.008	790	
9	291809	13000N-10012E, 5m,	" "	<5	10	35	<1	<0.008	728	
10	291810	13000N-10025E, 6m,	Altered Qtzose Volc.	5	60	90	1	<0.008	648	
11	291811	13000N-10037E, 6m,	" "	<5	<5	50	<1	<0.008	1720	
12	291812	13000N-9987E, 7m,	" "	5	25	130	1	<0.008	1290	
13	291813	13000N-10,050E, 8m,	" "	5	5	30	<1	<0.008	1190	
14	291814	13000N-10,062E, 4m,	" "	5	10	30	<1	<0.008	866	
15	291815	13000N-10075E, 9m,	" "	<5	15	35	1	<0.008	582	
16	291816	13000N-10087E, 7m,	" "	<5	20	70	1	<0.008	676	
17	291817	13000N-10100E, 6m,	" "	<5	<5	30	<1	<0.008	755	
18	291818	13000N-10112E, 4m,	" "	<5	10	25	<1	<0.008	423	
19	291819	13000N-10125E, 4m,	Qtzose Volc.	5	75	30	2	<0.008	380	
20	291820	13000N-10137E, 8m,	" "	<5	10	20	<1	<0.008	476	
21	291821	13000N-10150E, 3m,	Altered Qtzose Volc	<5	20	40	<1	<0.008	743	
22	291822	13000N-10162E, 2m,	" "	<5	<5	40	<1	<0.008	756	
23	291823	13000N-10175E, 4m	Qtzose Volc.	<5	10	35	<1	<0.008	1380	
24	291824	13000N-10187E, 4m,	Altered Qtzose Volc.	<5	15	180	<1	<0.008	1120	
25	291825	13000N-10200E, 5m,	Qtzose Volc	<5	20	45	<1	<0.008	1050	

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Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 ELLIOT BAY **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	291826	13020N-9900E, 3m, Qtzose Volc		10	40	55	<1	<0.008	414	
2	291827	13020N-9912E, 4m, "	"	#5	15	105	<1	<0.008	528	
3	291828	13020N-9925E, 5m, Silty clay		<5	15	40	<1	<0.008	989	
4	291829	13020N-9937E, 4m, Qtzose Volc		<5	5	#30	2	<0.008	561	
5	291830	13020N-9950E, 3m, Qtzose Volc		<5	5	30	2	<0.008	861	
6	291831	13020N-9962E, 4m, "	"	<5	10	35	<1	<0.008	1210	
7	291832	13020N-9975E, 5m, Cream Clay		5	15	35	<1	<0008	934	
8	291833	13020N-9987E, 3m, Qtzose Volc.		5	5	40	1	<0.008	739	
9	291834	13020N-10,000E, 3m, Brown Clay		5	5	45	<1	0.110	843	
10	291835	13020N-10,012E, 2m, Qtzose Volc		5	5	30	<1	<0.008	1390	
11	291836	13020N-10,025E, 3m,	"	"	<5	<5	35	2	<0.008	1090
12	291837	13050N-10000E, 2m, Qtzose Volc		5	15	25	<1	<0.008	1320	
13	291838	13050N-9987E, 2m, "	"	<5	5	45	16	<0.008	724	
14	291839	13050N-9975E, 4m, Grey Clay		55	5	400	20	<0.008	844	
15	291840	13050N-9962E, 3m, Qtzose Volc		<5	5	35	2	<0.008	722	
16	291841	13050N-9950E, 3m, "	"	<5	15	35	2	<0008	798	
17	291842	13050N-9937E, 4m, Volc. Silt stb.		5	5	50	<1	<0.008	527	
18	291843	13050N-9925E, 3m, Qtzose Volc.		<5	15	35	<1	<0.008	570	
19	291844	13050N-9912E, 3m, Brown Clay		<5	10	55	<1	<0.008	673	
20	291845	13050N-9900E, 2m, Qtzose Volc		<5	10	55	<1	0.010	397	
21	291846	13080N-9900E, 4m, "	"	<5	<5	30	<1	<0.008	553	
22	291847	13080N-9912E, 7m, Brown Slug		<5	35	40	1	<0.008	386	
23	291848	13080N-9925E, 8m, Qtzose Volc		5	30	110	6	<0.008	977	
24	291849	13080N-9937E, 8m, "	"	10	175	110	30	<0.008	837	
25	291850	13080N-9950E, 5m, "	"	<5	5	20	2	<0.008	704	

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sample data sheet

Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 ELLIOT BAY **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	Ag
1	291851	13080N-9962E, 4m, Volc Siltst.		25	410	115	20	<0.008	729	
2	291852	13080N-9975E, 3m, Qtzose Volc.		<5	<5	20	1	<0.008	886	
3	291853	13080N-9987E, 4m, "	"	5	30	100	1	<0.008	922	
4	291854	13080N-10,000E, 3m, "	"	5	10	95	1	<0.008	1090	
5	291855	13100N-10,000E, 3m, Brown clay		<5	55	150	1	<0.008	789	
6	291856	13100N-10,012E, 3m, Qtzose Volc		55	190	305	5	<0.008	1260	
7	291857	13100N-10,025E, 4m, Qtzose Volc		10	15	885	6	<0.008	807	
8	291858	13100N-10037E, 4m, "	"	5	540	720	5	<0.008	813	
9	291859	13100N-10,050E, 1.5m, Green clay		<5	435	960	5	<0.008	1200	
10	291860	13100N-10,062E, 8m, Cream Clay		10	125	50	1	<0.008	2200	
11	291861	13100N-10,075E, 8m, Cream clay		<5	5	25	1	<0.008	1540	
12	291862	13100N-10,087E, 8m, brown clay		5	5	35	2	<0.008	1170	
13	291863	13100N-10100E, 8m, brown clay		5	125	180	15	<0.008	461	
14	291864	13130N-9925E, 3m, Qtzose Volc		<5	<5	55	1	<0.008	503	
15	291865	13130N-9912E, 5m, Siltst		<5	<5	45	1	<0.008	616	
16	291866	13130N-9900E, 2m, Qtzose Volc		<5	<5	60	<1	<0.008	602	
17	291867	13150N-9900E, 2m, "	"	<5	<5	65	<1	<0.008	612	
18	291868	13150N-9912E, 2m, "	"	<5	<5	80	<1	0.010	782	
19	291869	13150N-9925E, 7m, Siltst		10	10	150	1	<0.008	937	
20	291870	13150N-9937E, 5m, Qtzose Volc		<5	5	105	<1	0.010	950	
21	291871	13150N-9950E, 4m "	"	20	50	85	1	<0.008	510	
22	291872	13150N-9962E, 2m "	"	<5	10	45	1	0.010 <0.008	899	
23	291873	13150N-9975E, 3m Volcanic		<5	40	200	1	<0.008	1480	
24	291874	13150N-9987E, 7m, Qtzose Volc		45	520	1800	17	<0.008	1850	
25	291875	13150N-10,000E, 6m, Brown Clay		130	6.58%	1.27%	63	<0.008	2520	132

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sample data sheet

Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	Ag
1	291876	13150N-10,012E, 7m,	Volcanic	15	115	1350	34	<0.008	1770	
2	291877	13180N-9962E, 4m,	Qtzose Vdc	<5	15	205	2	<0.008	782	
3	291878	13180N-9950E, 3m,	" "	<5	10	285	1	<0.008	585	
4	291879	13180N-9937E, 2m,	" "	<5	5	180	1	<0.008	619	
5	291880	13180N-9925E, 2m,	" "	<5	<5	125	1	<0.008	574	
6	291881	13180N-9912E, 3m,	" "	<5	10	275	1	<0.008	713	
7	291882	13180N-9900E, 3m,	" "	<5	10	110	3	<0.008	405	
8	291883	13200N-9900E, o/c,	" "	<5	<5	40	1	<0.008	722	
9	291884	13200N-9912E, 3m,	" "	<5	<5	50	4	<0.008	794	
10	291885	13200N-9925E, o/c,	" "	<5	10	115	2	<0.008	662	
11	291886	13200N-9937E, o/c,	" "	<5	10	70	1	<0.008	784	
12	291887	13200N-9950E, 6m,	brown soil	<5	5	150	1	<0.008	524	
13	291888	13200N-9962E, 1m,	Vdc Siltst	<5	15	335	2	<0.008	763	
14	291889	13200N-9975E, 2m,	Qtzose Vdc	<5	5	110	2	<0.008	1070	
15	291890	13200N-9987E, 5m,	" "	<5	35	40	2	0.010	1400	
16	291891	13200N-10,000E, 3m,	Vdc Siltst	50	220	1750	37	<0.008	1680	
17	291892	13200N-10,012E, 5m,	silty clay	<5	45	490	3	<0.008	1410	
18	291893	13200N-10,025E, 6m,	Qtzose Vdc	-	1.10%	1.67%	39	0.030	1870	10
19	291894	13200N-10,037E, 2m,	" "	<5	<5	20	<1	<0.008	1080	
20	291895	13200N-10,050E, 2m,	" "	<5	<5	10	<1	<0.008	1390	
21	291896	13200N-10,062E, 6m,	" "	10	175	285	5	<0.008	1120	
22	291897	13200N-10,075E, 4m,	Brown clay	5	35	15	<1	<0.008	890	
23	291898	13200N-10,087E, 3m,	Qtzose Vdc	<5	<5	20	<1	<0.008	1220	
24	291899	13200N-10,100E, 2m,	Qtzose Vdc	<5	<5	10	<1	<0.008	1360	
25	291900	13220N-9950E, 3m	" "	<5	<5	185	<1	<0.008	492	

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Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ag	
1	291901	13220N-9937E, o/c,	Rhyolite Volc	<5	<5	170	<1	<0.008	869	
2	291902	13220N-9925E, o/c	"	<5	<5	200	<1	<0.008	583	
3	291903	13220N-9912E, 3m,	"	<5	<5	120	<1	<0.008	538	
4	291904	13220N-9900E, o/c	"	<5	15	265	<1	<0.008	855	
5	291905	13380N-10000E, 4m,	"	<5	<5	20	<1	<0.008	509	
6	291906	13380N-10012E, 5m,	"	<5	<5	25	<1	<0.008	1130	
7	291907	13380N-10,025E, 6m,	"	<5	<5	25	<1	<0.008	2210	
8	291908	13380N-10,037E, 3m,	Volc Siltst	25	15	740	3	<0.008	1560	
9	291909	13380N-10,050E, 4m	Rhyolite Volc	5	<5	920	11	<0.008	1120	
10	291910	13380N-10062E, 8m,	Siltst	10	<5	155	20	<0.008	1420	
11	291911	13380N-10075E, 7m,	Volc.	5	<5	195	3	<0.008	794	
12	291912	13380N-10087E, 7m,	Volc.	<5	<5	85	14	<0.008	986	
13	291913	13380N-10100E, 8m,	Siltst	<5	40	95	3	<0.008	1160	
14	291914	13380N-10112E, 1m	"	<5	<5	35	6	<0.008	705	
15	291915	13380N-10125E, 7m,	Volc	5	150	3050	18	<0.008	1100	
16	291916	13380N-10137E, 8m,	Siltst	30	345	1200	31	0.040	1150	
17	291917	13380N-10150E, 1m,	Volc	<5	<5	135	5	<0.008	1170	
18	291918	13420N-10000E, 3m,	Volc	<5	<5	15	<1	<0.008	1370	
19	291919	13420N-10012E, 4m,	Volc	5	<5	55	<1	<0.008	1060	
20	291920	13420N-10025E, 8m,	Volc.	<5	<5	10	<1	<0.008	859	
21	291921	13420N-10037E, 3m	Volc	<5	30	175	5	<0.008	1710	
22	291922	13420N-10050E, 7m	Volc	<5	<5	25	1	<0.008	1110	
23	291923	13420N-10062E, 7m,	Volc.	<5	<5	80	2	<0.008	799	
24	291924	13420N-10075E, 7m	Volc	<5	<5	10	<1	<0.008	642	
25	291925	13420N-10087E, 9m,		5	<5	10	<1	<0.008	158	

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Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 **Prospect** WART HILL **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	291926	13420N 10100E, ·6m, B/C horizon		<5	<5	25	<1	<0.008	684	
2	291927	13420N-10112E, ·5m, Volc.		<5	<5	80	6	<0.008	784	
3	291928	13420N -10125E, ·5m, Volc		<5	<5	15	11	<0.008	506	
4	291929	13420N-10137E, 1 m, B/C horizon		10	<5	20	1	<0.008	652	
5	291930	13420N-10150E, ·5m, Volc.		<5	<5	10	<1	<0.008	380	
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sample data sheet

Cyprus Minerals

Despatch No 5768 Order No 03506

Requested by R. Pollock Date 19-2-89

Project ELLIOTT BAY **Prospect** WART HILL **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	293001	13080N	10010E	5	25	25	2	<0.008		
2	293002	"	10020E	10	35	25	3	<0.008		
3	293003	"	10030E	1650	4639	3.72%	100	4.72		
4	293004	"	10040E	110	135	360	6	<0.008		
5	293005	"	10050E	5	10	35	2	<0.008		
6	293006	"	10060E	5	15	35	2	<0.008		
7	293007	"	10070E	10	55	30	2	<0.008		
8	293008	"	10080E	5	10	60	4	<0.008		
9	293009	"	10090E	5	25	30	6	<0.008		
10	293010	"	10100E	10	25	10	<1	.07		
11	293011	13130N	9960E	10	30	55	<1	<0.008		
12	293012	"	9970E	5	10	10	<1	<0.008		
13	293013	"	9980E	10	85	70	<1	<0.008		
14	293014	"	9990E	10	80	5	<1	<0.008		
15	293015	"	10000E	10	20	100	<1	<0.008		
16	293016	"	10010E	20	2350	2450	24	<0.008		
17	293017	"	10020E	5	40	55	<1	<0.008		
18	293018	"	10030E	5	15	15	<1	<0.008		
19	293019	"	10040E	10	145	835	3	<0.008		
20	293020	"	10050E	10	30	55	<1	<0.008		
21	293021	"	10060E	10	70	90	<1	<0.008		
22	293022	"	10070E	5	75	40	<1	<0.008		
23	293023	"	10080E	95	70	25	6	<0.008		
24	293024	"	10090E	10	15	5	<1	<0.008		
25	293025	"	10100E	10	30	10	<1	<0.008		

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sample data sheet

Cyprus Minerals

Despatch No 5769 Order No 03507

Requested by R. Pollock Date 19-2-88.

Project ELLIOTT BAY **Prospect** WART HILL **Type** Soil Rock

	Sample Number	Coordinates, depth or location		Interval	Cu	Pb	Zn	As			
1	293026	13180N	10000E		25	5	840	12			
2	293027	"	10010E		5	<5	65	1			
3	293028	"	10020E		5	<5	50	3			
4	293029	"	10030E		5	130	85	1			
5	293030	"	10040E		35	120	40	5			
6	293031	"	10050E		5	<5	20	<1			
7	293032	"	10060E		10	<5	15	<1			
8	293033	"	10070E		50	310	130	5			
9	293034	"	10080E		5	<5	10	<1			
10	293035	"	10090E		5	<5	10	<1			
11	293036	"	10100E		5	<5	10	<1			
12	293037	13260N	10000E		5	<5	15	1			
13	293038	"	10010E		20	20	360	1			
14	293039	"	10020E		5	<5	40	<1			
15	293040	"	10030E		5	<5	50	<1			
16	293041	"	10040E		5	<5	20	<1			
17	293042	"	10050E		5	<5	10	<1			
18	293043	"	10060E		5	20	280	2			
19	293044	"	10070E		10	5	15	<1			
20	293045	"	10080E		5	45	15	<1			
21	293046	"	10090E		10	140	10	2			
22	293047	"	10100E		5	90	30	3			
23	293048	13600N	10000E		10	<5	100	7			
24	293049	"	10020E		5	<5	35	2			
25	293050	"	10050E		5	<5	30	1			

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sample data sheet

Cyprus Minerals

Despatch No 5771 Order No 03509

Requested by R Holtack Date 23-2-88

Project ELLIOTT PORT **Prospect** WART HILL **Type** SOIL/Rock

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As			
1	293053	13700N 9950E		15	10	20	9			
2	293054	" 9975E		10	5	20	1			
3	293055	" 10000E		10	<5	20	<1			
4	293056	" 10025E		10	20	25	1			
5	293057	" 10050E		10	20	20	1			
6	~~293058~~									
7	293125	13700N 9300E		15	<5	30	<1			
8	293126	" 9325E		20	110	80	<1			
9	293127	" 9350E		10	10	35	<1			
10	293128	" 9375E		10	20	30	<1			
11	293129	" 9400E		10	5	30	<1			
12	293130	" 9425E		15	15	30	<1			
13	293131	" 9450E		15	25	35	1			
14	293132	" 9475E		10	10	30	1			
15	293133	" 9500E		10	15	25	<1			
16	293134	" 9525E		20	5	20	<1			
17	293135	" 9550E		20	<5	35	<1			
18	293136	" 9575E		15	<5	20	<1			
19	293137	" 9600E		10	<5	30	1			
20	293138	" 9625E		10	5	25	1			
21	293139	" 9650E		10	<5	30	<1			
22	293140	" 9675E		10	20	30	1			
23	293141	" 9700E		15	15	40	1			
24	293142	" 9725E		10	<5	20	1			
25	293143	" 9750E		15	<5	30	1			

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sample data sheet

Cyprus Minerals

Despatch No 5771 Order No 03509

Requested by R. POLTOCK Date 23-2-88.

Project ELLIOTT BAY **Prospect** WART HILL **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As			
1	293144	13700N 9775E		10	<5	20	<1			
2	293145	" 9800E		10	<5	20	2			
3	293146	" 9825E		10	<5	35	1			
4	293147	" 9850E		10	<5	30	1			
5	293148	" 9875E		10	<5	25	1			
6	293149	" 9900E		10	<5	25	<1			
7	293150	" 9925E		10	5	35	<1			
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sample data sheet

Cyprus Minerals

Despatch No 5768 Order No 03506

Requested by Date 19-2-'88

Project ELLIOTT BAY Prospect WART HILL Type ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Ag	Au	
1	292112	1338ON 1012SE Qtz Pbs	veins	25	0.18	.51	<100	15	0.020	
2	292124	1280N 1003SE massive gnw sph		4925	4.78	8.97	100	115	3.710	
3	292125	1280N 1005SE massive gnw sph + sericitized wall rock		6600	8.52	12.12	100	135	6.620	
4										
5		DESPATCH N° 5771				ORDER N° 03509				
6	293058	1309SN 1006.2SE Gnw py		3350	4.10	9.75	11	64	0.330	
7										
8		DESPATCH N°5772				ORDER N° 03510				
9	293059	1310ON 1014oE Sericpy lim		10	<5	10	1200	1.0	-	
10	293060	1309ON 1015oE Silic Sericpy.		10	75	60	990	8.0	-	
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sample data sheet

Cyprus Minerals

Despatch No 5169 Order No 03507

Requested by RP Date 22-2-1988

Project ELLIOTT BAY **Prospect** WART HILL **Type** SOIL Rock

	Sample Number	Coordinates, depth or location		Interval	Cu	Pb	Zn	As			
1	293101	13600N	10075E		5	<5	20	1			
2	293102	"	10100E		5	<5	15	1			
3	293103	"	10125E		15	<5	50	7			
4	293104	"	10150E		10	20	15	<1			
5	293105	"	10175E		10	15	20	<1			
6	293106	"	10200E		15	30	15	4			
7	293107	"	10225E		20	20	20	1			
8	293108	"	10250E		15	5	10	<1			
9	293109	"	9975E		15	25	50	11			
10	293110	"	9950E		10	30	15	1			
11	293111	"	9925E		10	15	10	<1			
12	293112	"	9900E		10	35	20	<1			
13	293113	"	9875E		10	60	20	<1			
14	293114	"	9850E		10	40	20	<1			
15	293115	"	9825E		10	30	20	<1			
16	293116	"	9800E		10	30	15	<1			
17	293117	"	9775E		10	10	20	1			
18	293118	"	9750E		15	15	20	<1			
19	293119	"	9725E		10	10	5	<1			
20	293120	"	9700E		10	<5	5	<1			
21	293121	13800N	10025E		10	10	5	1			
22	293122	"	10050E		15	35	130	24			
23	293123	"	10075E		50	40	60	9			
24	293124	"	10100E		50	25	50	80			
25	~~293125~~	"	~~"~~								

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wart hill : DRILL CORE

Check Samples

Wart Hill Prospect

A - Analabs
C - Classic Comlabs

Sample No	Type	Cu		Pb		Zn		Ag		Au	
		A	C	A	C	A	C	A	C	A	C
292114	Core	20	26	575	500	900	620	3	1	001	<0.01
292115	"	215	195	0.57%	0.46%	1.43%	1.26%	18	8	0.06	0.10
292116	"	1200	1000	3.4%	2.45%	10.67%	10.4%	52	40	0.275	0.11
292117	"	1700	1720	1.24%	1.17%	2.96%	2.75%	23	22	028	0.04
292118	"	335	350	0.29%	0.29%	1.03%	1.15%	16	13	0.17	0.18
292119	"	1000	1000	0.67%	0.64%	1.74%	1.72%	31	24	0.48	0.30
292120	"	950	900	1.65%	1.34%	3.57%	3.65%	31	22	0.19	0.18
292121	"	120	130	0.88%	0.65%	1.25%	1.26%	18	15	0.04	0.07
292122	"	150	175	0.96%	0.83%	2.22%	2.15%	18	14	0.05	0.08
292131	Core	750	690	5.53%	4.75%	11.18%	10.5%	74	56	0.085	0.41
292132	"	450	410	6.7%	5.0%	12.05%	11.3%	168	135	0.88	0.9
292124	Rock	4925	5000	4.78%	4.45%	8.97%	9.45%	115	88	3.71	3.9
292125	Rock	6000	6300	8.52%	6.35%	12.12%	12.2%	135	105	6.62	9.2
292127	Core	400	580	1.19%	1.03%	2.54%	2.9%	48	32	0.085	0.21
293003	Soil/Rock	1650	1700	1.63%	0.81%	3.72%	3.4%	NA	200	14.78	16.4

NA - No analysis

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sample data sheet

Cyprus Minerals

Despatch No ~~5477~~ 5767 Order No ~~E03505~~ E03505

Requested by C. TORREY Date 17/2/88

Project Elliott Bay **Prospect** West Hill **Type** Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au
1	Hole No	EBT-88-WH1							
2	292881		1.5-3m	5	65	155	1	<100	<0.005
3	292882		14-15	15	245	1250	2	<100	<0.005
4	292883		15-16	20	540	2600	3	<100	0.015
5	292884		16-17	80	0.34	0.71	15	<100	0.01
6	292885		21-22	10	50	180	2	100	<0.005
7	292886		22-23	10	70	180	2	100	<0.005
8	292887		23-24	20	155	420	2	<100	0.02
9	292888		24-25	10	35	80	1	100	0.015
10	292889		25-26	35	270	520	2	<100	0.01
11	292890		26-27	240	0.24	0.41	3	100	0.045
12	292891		29-30	10	30	75	<0.5	200	<0.005
13	292892		30-32	10	40	105	1	100	0.025
14	292893		39-40	5	40	45	2.0	100	<0.005
15	~~292894~~								
16	Hole No	EBT-88-WH2							
17	292894		34-35	160	0.37	0.83	3	200	0.035
18	292895		35-36	380	0.75	2.70	16	200	0.18
19	292896		36-37	60	380	1400	2	100	0.01
20	292897		37-38	60	700	2650	3	200	0.01
21	292898		38-39	55	800	2900	5	<100	0.01
22	292899		39-40	100	0.33	0.76	5	100	0.03
23	292900		40-41	10	80	120	2	100	0.005
24	292113		41-42	10	340	490	3	200	0.01
25	292114		42-43	20	575	900	3	100	0.01

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sample data sheet

Cyprus Minerals

Despatch No 5767 Order No E03505

Requested by C. Torrey Date 17/2/88

Project Elliott Bay **Prospect** Wart Hill **Type** Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	292115	EBT-88-WH2	43-44	215	0.57	1.43	18	200	0.06	
2	292116		44-45	1200	13.4	10.67	52	300	0.275	
3	292117		45-46	1700	1.24	2.96	23	400	0.20	0.28
4	292118		46-47	335	0.29	1.03	16	300	0.17	
5	292119		47-49	1000	0.67	1.74	31	500	0.48	
6	292120		48-49	950	1.65	3.57	31	200	0.19	
7	292121		49-50	120	0.86	1.25	18	<100	0.04	
8	292122		50-51	150	0.96	2.22	18	200	0.05	
9										
10		EBT-88-WH4								
11	292126		454-464	120	1450	0.33	11	<101	0.03	
12	292127		464-474	400	1.19	2.54	48	<100	0.085	
13	292128		474-49	85	1700	0.42	16	<101	0.03	0.02
14	292129		49-50	170	4150	0.85	19	<101	0.055	
15	292130		50-51	100	3400	0.65	18	<101	0.055	
16	292131		53-54	750	5.53	11.18	74	300	0.085	
17	292132		84-85	450	6.70	12.05	168	200	0.88	
18		WH4								
19	292133		546-547	100	5500	0.80	14	<101	0.03	
20	292145 292146		79-81 81-83	10 10	75 105	700 1300	3 4	<101	0.005 0.010	
21	292147		83-84	20	380	1450	5	<101	0.025	
22	292134	WH2	23-24	10	85	290	3	<101	0.025	
23	292135		24-25	25	280	375	4	<101	0.03	
24	292136		25-26	120	2050	5500	9	<101	0.06	
25	292137		26-27	75	800	1550	8	<101	0.02	

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sample data sheet

Cyprus Minerals

Despatch No Order No

Requested by C. Torrey Date EBT-88-WH2

Project Elliott Bay **Prospect** Wart Hill **Type** Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	292138	WH2	27-28	180	1030	2350	5	<10	0.015	
2	292139		28-29	150	3100	7500	9	<10	0.075	0.080
3	292140		29-30	115	2200	5100	8	<10	0.035	
4	292141		30-31	30	385	855	3	"	0.01	
5	292142		31-32	30	105	425	3	"	0.035	
6	292143		32-33	3725	1%	160	43	"	0.065	
7	292144		33-34	545	7000	140	13	"	0.075	
8					EBT-88-WH4					
9										
10	292145		79-81	10	75	700	3.0	<10	0.005	
11	292146		81-83	10	105	1300	4.0	<10	0.01	
12	292147		83-84	20	380	1950	5.0	<10	0.025	
13		EBT-88-WH1								
14	293201		27-28	315	1800	3000	3.5	29	0.04	
15	293202		28-29	5	10	65	<0.5	2	<0.005	
16	293203		35-36	15	180	225	0.5	76	<0.005	
17	293204		36-37	40	525	1200	2.5	75	<0.005	
18	293205		37-38	30	515	1100	2.0	29	0.01	
19		EBT-88-WH5								
20	293207		46-48m	5	10	125	1	2	0.01	
21	293208		48-50m	5	5	125	0.5	2	<0.005	
22	293209		50-52m	5	5	95	1.5	1	<0.005	
23	293210		52-54m	5	5	130	0.5	2	<0.005	
24	293211		54-56	10	<5	175	<0.5	2	<0.005	
25	293212		56-58	5	5	120	1.0	2	<0.005	

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Despatch No | Order No

Requested by | Date

Project Elliott Bay **Prospect** West Hill **Type** Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au
1	293213	WH5	58-60m	5	5	135	0.5	1	<0.005
2	293214		60-62	10	105	145	0.5	8	0.05
3		WH5							
4	293215		27-29	<5	15	120	0.5	14	<0.005
5	293216		29-31m	<5	15	105	1.0	12	<0.005
6	293217		31-33m	75	750	2250	6.0	24	<0.005
7	293218	No sample							
8	219	"							
9	~~220~~	~~No sample~~							
10	293221	EBT-88-WH6	19-21	5	~~10~~	~~45~~	<0.5	12	~~<0.005~~ ~~0.045~~
11	293222		21-23	5	<5	~~20~~	0.5	3	0.045
12	293223		23-~~25~~	5	<5	25	0.5	3	0.01
13	293224		~~25-27~~ 27-29	<5	<5	40	0.5	4	<0.005
14	293225		~~25-29~~	<5	<5	40	1	4	<0.005
15	293226		29-31	<5	<5	45	1	2	<0.005
16	293227		31-33	5	<5	135	1	5	<0.005
17	293228		33-35	5	<5	70	0.5	9	<0.005
18	293229		35-37	5	<5	200	0.5	63	<0.005
19	293230		37-~~39~~	5	15	~~5~~25	0.5	44	<0.005
20	293231		39-41	5	10	120	<0.5	22	<0.005
21	293232		41-42	5	120	300	<0.5	11	<0.005
22	293233		42-~~43~~	30	815	1900	2.5	53	<0.005
23	293234		43-44	260	4400	7650	6.0	63	0.08
24	293235		44-45	140	1750	3250	3.0	33	0.07
25	293236		45-46	25	330	480	<0.5	20	<0.005

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Cyprus Minerals

Despatch No Order No

Requested by C. Torrey Date

Project Elliott Bay **Prospect** Wart Hill **Type** Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au	
1	293237	WH6	46-47	75	1300	2500	36	25	0.025	0.025
2	293238		47-48	980	1.67	2.80	77	103	0.78	*
3	293239		48-49	1350	1.66	2.96	24	100	0.57	*
4	293240		49-50	30	470	900	2.0	10	<0.005	
5	293241	~~3m sample~~	50-51	1600	1.24	2.22	17	24	0.045	
6	293242	3m sample	51-54	35	1050	1800	4.5	12	<0.005	
7	293243		54-55	20	680	990	2.5	8	<0.005	
8	293244		55-56	35	510	740	4.5	7	<0.005	
9	293245		56-57	45	1100	1250	4.0	4	<0.005	
10	293246		57-58	90	3400	3350	21	19	0.02	
11	293247		58-59	175	4650	3900	26	33	0.02	
12	293248		59-60	70	800	2250	6.5	13	0.01	
13	293249		60-61	405	6200	1.06	77	67	0.52	*
14	293250		61-62	145	1500	2100	17	31	0.045	
15	293509		62-63	60	1850	4250	21	39	0.02	
16	293510	1m	63-64	30	820	1200	17	31	0.01	
17	293511	2m	64-66	25	530	1400	18	40	<0.005	
18	293512	2.8m	66-68.8	20	865	1650	8.5	92	<0.005	
19										
20										
21										
22										
23										
24										
25										

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Despatch No | Order No

Requested by | Date

EBT-88-WH7

Project Elliott Bay **Prospect** West Hill **Type** Drill Core

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au
1	294025		106-107	18	285	275	1.5	<100	<0.005
2	026		107-108	25	345	430	0.5	<100	<0.005
3	027		108-109	680	450	1400	<2	<100	<0.005
4	028		109-110	15	140	165	<0.5	<100	<0.005
5	029		110-111	40	270	450	<0.5	<100	<0.005
6	030		111-112	40	575	1300	2	<100	0.035
7	031		112-113	110	1225	2650	9	100	0.195
8	032		113-114	10	245	315	0.5	<100	0.005
9	033		114-115	10	105	85	0.5	<100	<0.005
10	034		115-116	40	1425	2150	2	<100	0.005
11	035		116-117	100	1425	3025	<2	<100	<0.005
12	036		117-118	10	410	815	1.0	<100	<0.005
13	038		45-46	5	65	25	<0.5	<100	<0.005
14	039		46-47	5	60	30	<0.5	<100	<0.005
15	294040		47-48	<5	65	30	<0.5	<100	<0.005
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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Cyprus Minerals

Despatch No Order No

Requested by C. TORREY Date

Project Elliott Bay **Prospect** WART HILL **Type** DRILL CORE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	As	Au
1		EBT-88-WH7							
2	294001		58-59	15	60	45	<0.5	<100	<0.005
3	294002		59-60	15	55	55	0.5	<100	<0.005
4	003		60-61	25	65	40	0.5	<100	0.005
5	004		61-62	30	65	75	<0.5	<100	<0.005
6	005		62-63	40	55	45	<0.5	<100	0.005
7	006		63-64	5	15	25	<0.5	<100	0.010
8	007		64-65	5	25	30	0.5	<100	0.010
9	008		65-66	5	20	20	0.5	<100	0.005
10	009		90-91	20	235	335	3.0	<100	<0.005
11	294010		91-92	15	260	390	3.0	100	<0.005
12	294011		92-93	10	220	230	1.0	<100	<0.005
13	012		93-94	20	285	540	2.5	<100	<0.005
14	013		94-95	25	345	550	2.5	<100	<0.005
15	014		95-96	235	2125	4500	4	<100	0.005
16	015		96-97	25	220	690	1.5	<100	<0.005
17	016		97-98	15	225	325	1.5	<100	0.005
18	017		98-99	20	200	340	0.5	<100	0.005
19	018		99-100	15	150	150	<0.5	<100	<0.005
20	019		100-101	10	105	165	<0.5	<100	<0.005
21	020		101-102	10	150	120	1.0	<100	<0.005
22	021		102-103	10	100	65	0.5	<100	0.005
23	022		103-104	15	140	155	1.5	<100	0.020
24	023		104-105	10	135	165	<0.5	<100	0.010
25	294024		105-106	15	175	200	<0.5	<100	0.015

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east camp : SOILS, ROCKCHIPS & JACKRO PULPS

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Cyprus Minerals

Despatch No Order No

Requested by Date 24/1/88

Project EL 40/85 **Prospect** V29 **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1		LINE No. 6.								
2	291800	10375N 10000E; 0.2m	crm clay	<5	<5	15	<1	<0.008	693	
3	291931	10375N 10025E; 0.2m	chl rock	10	35	85	<1	<0.008	584	
4	291932	10375N 10050E; 0.3m	"	<5	5	15	<1	<0.008	611	
5	291933	10375N 10075E; 0.4m	crm clay	5	65	70	<1	<0.008	596	
6	291934	10375N 10100E; 0.8m	chl clay	10	210	170	<1	<0.008	409	
7	291935	10375N 10125E; 0.4m	crm rock	<5	<5	10	<1	<0.008	575	
8	291936	10375N 10150E; 0.4m	Brown rock	<5	45	50	<1	<0.008	627	
9	291937	10375N 10175E; 0.4m	Brown clay	<5	20	15	<1	0.360	549	
10	291938	10375N 10200E; 0.5m	silty clay	5	30	75	<1	<0.008	675	
11		LINE No. 7.								
12	291939	10350N 10000E; 0.2m	Qtz volc	5	10	75	<1	<0.008	703	
13	291940	10350N 10025E; 0.3m	chl volc	<5	30	25	<1	<0.008	633	
14	291941	10350N 10050E; 0.8m	silty clay	<5	5	15	<1	<0.008	729	
15	291942	10350N 10075E; 0.4m	" "	<5	60	20	<1	<0.008	545	
16	291943	10350N 10100E; 0.6m	veg. silty clay	15	575	795	5	<0.008	534	
17	291944	10350N 10125E; 0.4m	Qtz volc.	<5	5	10	<1	<0.008	433	
18	291945	10350N 10150E; 0.6m	green "	<5	5	15	<1	<0.008	1210	
19	291946	10350N 10175E; 0.4m	"	<5	<5	25	<1	<0.008	695	
20	291947	10350N 10200E; 0.5m	crm. Qtz volc	<5	10	15	<1	<0.008	548	
21	291948	10350N 10225E; 0.6m	silt-clay	<5	45	30	<1	<0.008	810	
22	291949	10350N 10250E; 0.3m	blc. Qtz volc	5	70	40	<1	<0.008	586	
23										
24										
25										

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sample data sheet

Cyprus Minerals

Despatch No Order No

Requested by Date

Project EL 40/85 **Prospect** V29 **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.
1		LINE No. 8.							
2	291950	10250 N 10000 E; 0.2m	Qtz Vein	<5	10	10	<1	<0.008	480
3	290112	10250 N 10025 E; 0.4m	Chl "	5	10	90	<1	0.040	364
4	290113	10250 N 10050 E; 0.4m	"	<5	10	130	<1	0.030	324
5	290114	10250 N 10075 E; 0.4m	"	<5	40	630	<1	<0.008	629
6	290115	10250 N 10100 E; 0.5m	Brown Qtz Vein	35	360	300	<1	<0.008	651
7	290116	10250 N 10125 E; 0.4m	Chl Qtz Vein	20	650	1150	<1	<0.008	669
8		minor fine grained sulfides							
9	290117	10250 N 10150 E; 0.1m	Chl Qtz Vein	<5	50	25	<1	<0.008	680
10	290118	10250 N 10175 E; 0.2m	Crm Qtz Vein	<5	50	75	<1	<0.008	620
11	290119	10250 N 10200 E; 0.4m	"	<5	<5	20	<1	<0.008	811
12	290120	10250 N 10225 E; 0.4m	Brown Qtz Vein	<2	20	25	<1	<0.008	743
13	290121	10250 N 10250 E; 0.4m	Brown-Black	5	670	330	1	0.050	640
14		Qtz vein clots of fine grained sulfides							
15	290122	10250 N 10275 E; 0.2m	Brown Qtz Vein	15	160	85	<1	<0.008	618
16	290123	10250 N 10300 E; 0.4m	"	25	100	95	<1	0.060	687
17		LINE No. 9.							
18	290124	10150 N 10200 E; 0.4m	"	25	160	45	<1	0.06	856
19	290125	10150 N 10225 E; 0.4m	"	<5	<5	20	<1	0.160	759
20	290126	10150 N 10250 E; 0.3m	"	10	<5	20	<1	0.010	1210
21	290127	10150 N 10275 E; 0.5m	"	<5	<5	15	<1	<0.008	767
22	290128	10150 N 10300 E; 0.5m	"	5	40	25	<1	<0.008	1200
23	290129	10150 N 10325 E; 0.7m	B/C. Veg silt/clay	10	255	40	<1	<0.008	1040
24	290130	10150 N 10350 E; 0.4m	silt/clay	5	20	20	<1	<0.010	838
25	290131	10150 N 10375 E; 0.4m	Brown Qtz Vein	<5	<5	15	<1	<0.008	828

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Project EL 40/85 **Prospect** V29 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	
1	cont. 290132	10150N 10400E; 0.2m	Brown Qtz vdc	<5	5	20	<1	<0.008	1150	
2	290133	10150N 10412.5E; 0.7m	veg. Qtz clay	<5	215	175	4	<0.008	636	
3	290134	10150N 10425E; 0.7m	B/C Qtz soil.	10	10	20	<1	<0.008	441	
4	290135	10150N 10437.5E; 0.2m	Cream Qtz vdc.	140	190	285	28	<0.008	1440	
5	290136	10150N 10450E; 0.7m	Veg. Qtz silt.	5	80	40	5	<0.008	551	
6	290137	10150N 10462.5E; 0.5m	Cream Qtz. vdc	5	210	290	3	0.010	715	
7	290138	10150N 10475E; 0.7m	"	<5	<5	15	<1	<0.008	916	
8	290139	10150N 10487.5E; 0.5m	"	<5	10	35	<1	<0.008	1220	
9	290140	10150N 10500E; 0.4m	brown Qtz. vdc.	<5	<5	20	<1	<0.008	675	
10	290141	10150N 10525E; 0.7m	cream Qtz vdc.	<5	<5	20	<1	<0.008	1060	
11	290142	10150N 10550E; 0.7m	tan Qtz vdc.	10	<5	25	<1	<0.008	592	
12		LINE N°. 10.								
13	290143	10125N 10350E; 0.5m	veg. tan Qtz. vdc.	<5	15	20	<1	<0.008	812	
14	290144	10125N 10375E; 0.8m	"	<5	45	20	<1	<0.008	922	
15	290145	10125N 10400E; 0.3m	"	5	50	30	1	<0.008	891	
16	290146	10125N 10412.5E; 0.6m	"	<5	75	30	1	<0.008	1090	
17	290147	10125N 10425E; 0.7m	veg. cream Qtz vdc.	5	200	410	8	<0.008	684	
18	290148	10125N 10437.5E; 0.8m	"	<5	10	15	<1	<0.008	829	
19	290149	10125N 10450E; 0.6m	tan-brown Qtz. vdc.	<5	<5	10	1	<0.008	699	
20	290150	10125N 10462.5E; 0.6m	cream-gray Qtz. vdc.	90	425	2750	1	<0.008	1240	
21		- sulfides present								
22	290151	10125N 10475E; 0.8m	Veg. tan Qtz. vdc.	<5	50	35	<1	<0.008	621	
23	290152	10125N 10487.5E; 0.6m	Cream Qtz vdc.	<5	<5	15	<1	0.050	613	
24	290153	10125N 10500E; 0.7m	brown Qtz vdc.	<5	5	40	<1	0.040	1280	
25		- minor sulfides present.								

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Project EL 40/85 **Prospect** V29 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	Au(2)
1	cont. 290154	10125N 10525E; 0.6m	Qtz. Volc	10	<5	155	<1	0.050	671	
2	290155	10125N 10550E; 0.6m	Veg Qtz Volc	<5	40	30	<1	0.070	607	
3		LINE No. 11.								
4	290156	10100N 10350E; 0.7m	brown Qtz volc.	<5	30	20	<1	<0.008	741	
5	290157	10100N 10375E; 0.5m	cream Qtz volc.	<5	15	25	1	<0.008	849	
6	290158	10100N 10400E; 0.7m	Veg. Qtz. Volc	5	30	30	<1	0.070	1090	
7	290159	10100N 10412.5E; 0.7m	brown Qtz volc	5	70	30	<1	0.080	1020	
8		- fine grained sulfides								
9	290160	10100N 10425E; 0.8m	veg. cream clay	10	190	380	4	0.040	905	
10	290161	10100N 10437.5E; 0.8m	B/C clay	20	60	75	<1	0.050	772	
11	290162	10100N 10450E; 0.3	brown Qtz volc.	<5	20	30	<1	<0.008	1070	
12		- sulfides present - adjacent to GEOPEKO Costeam								
13	290163	10100N 10462.5E; 0.6	"	<5	5	40	<1	0.120	853	
14	290164	10100N 10475E; 0.2m	"	5	10	25	<1	0.050	1230	
15	290165	10100N 10487.5E; 0.3m	"	5	15	25	<1	0.050	642	
16	290166	10100N 10500E; 0.2m	"	<5	10	15	<1	0.070	860	
17	290167	10100N 10525E; 0.4m	C/B. Green Qtz. Volc.	<5	15	25	<1	0.050	518	
18	290168	10100N 10550E; 0.4m	C/B. Cream Qtz. Volc.	<5	40	115	1	0.050	461	
19		LINE No. 12.		[illegible]	[illegible]	[illegible]				
20	290169	10075N 10350E; 0.8m	tan cream Qtz. Volc.	<5	20	25	<1	0.030	919	
21	290170	10075N 10375E; 0.7m	"	5	30	65	2	2.390	574	1.75 x 11.89
22	290171	10075N 10400E; 0.7m	green Qtz. Volc	40	400	1100	6	0.030	727	
23		- vegetated - sulfides present								
24	290172	10075N 10412.5E; 0.8m	B/C Brown Qtz. Volc.	5	5	15	1	0.140	577	
25	290173	10075N 10425E; 0.6m	Chl. Qtz. Volc	5	15	65	2	<0.008	420	

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Requested by Date

Project EL 40/85 **Prospect** V29 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	
1	cont. 290174	10075 N 10437.5 E; 0.5m	veg: Qtz. volc	<5	10	15	<1	<0.008	585	
2	290175	10075 N 10450 E; 0.2m	cream Qtz. volc	<5	10	25	<1	<0.008	1810	
3	290176	10075 N 10462.5 E; 0.4m	brown Qtz. clay	<5	25	35	<1	<0.008	1470	
4	290177	10075 N 10475 E; 0.5m	cream/tan Qtz volc.	<5	<5	15	<1	0.070	589	
5	290178	10075 N 10487.5 E; 0.3m	"	<5	5	40	<1	0.130	711	
6	290179	10075 N 10500 E; 0.3m	brown Qtz volc.	<5	5	15	<1	<0.008	583	
7	290180	10075 N 10525 E; 0.6m	" + veg	10	65	95	<1	0.390	691	*
8	290181	10075 N 10550 E; 0.4m	pale green Qtz. volc	<5	5	15	<1	0.160	669	
9		- outcrop nearby.								
10		LINE No. 13.								
11	290182	10050 N 10350 E; 0.7m	tan clay	<5	60	20	<1	0.060	1150	
12	290183	10050 N 10375 E; 1.0m	crm clay	<5	50	100	<1	<0.008	983	
13		- fine grained sulfides								
14	290184	10050 N 10400 E; 1.1m	"	<5	30	15	<1	0.48	645	*
15	290185	10050 N 10412.5 E; 1.0m	"	5	25	525	2	0.080	460	
16		- v. fine grained sulfides								
17	290186	10050 N 10425 E; 0.3m	crm - tan Qtz. volc	<5	5	15	<1	0.200	896	*
18	290187	10050 N 10437.5 E; 0.3m	"	<5	10	15	<1	0.060	726	
19	290188	10050 N 10450 E; 0.3m	brown Qtz. volc	<5	5	30	<1	0.160	949	
20	290189	10050 N 10462.5 E; 0.3m	"	<5	5	30	<1	0.220	896	*
21	290190	10050 N 10475 E; 0.2m	silicified Qtz. volc.	<5	<5	15	<1	<0.008	430	
22	290191	10050 N 10487.5 E; 0.2m	tan brown Qtz. volc.	<5	5	20	<1	<0.008	822	
23		- next to outcropping qtz.								
24	290192	10050 N 10500 E; 0.2m	"	5	5	15	<1	<0.008	511	
25	290193	10050 N 10525 E; 0.4m	"	<5	5	35	<1	<0.008	576	

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Project EL 40/85 **Prospect** V29 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	cont. 290194	10050 N 10550 E; 0.2m	brown Qtz. Volc.	<5	5	20	1	<0.008	881	
2		LINE Nº. 14.								
3	290195	10450 N 10700 E; 0.2m	brown Qtz. Volc.	<5	<5	20	2	<0.008	762	
4	290196	10450 N 10725 E; 0.3m	"	<5	<5	10	2	<0.008	620	
5	290197	10450 N 10750 E; 0.4m	"	<5	<5	10	1	<0.008	672	
6	290198	10450 N 10762.5 E; 0.5m	"	<5	10	20	2	<0.008	347	
7	290199	10450 N 10775 E; 0.5m	cream Qtz Volc.	<5	10	15	<1	<0.008	690	
8	290200	10450 N 10800 E; 0.5m	crm-green Qtz Volc.	<5	5	30	<1	<0.008	633	
9		LINE Nº. 15.								
10	290207	10425 N 10700 E; 0.4m	veg. tan Qtz. Volc.	<5	<5	10	<1	<0.008	~~656~~ 396	
11	290206	10425 N 10725 E; 0.6m	"	5	40	105	1	<0.008	~~868~~ 713	
12	290205	10425 N 10737.5 E; 0.5m	"	<5	20	15	<1	0.020	~~863~~ 342	
13	290204	10425 N 10750 E; 0.4m	cream/tan Qtz. Volc.	<5	25	20	<1	0.010	~~861~~ 841	
14	290203	10425 N 10762.5 E; 0.6m	"	<5	10	20	<1	<0.008	~~542~~ 463	
15	290202	10425 N 10775 E; 0.7m	cream clay + veg	15	60	25	<1	<0.008	~~848~~ 418	
16	290201	10425 N 10800 E; 0.5m	"	<5	10	10	<1	<0.008	650	
17		LINE Nº. 16.								
18	290208	10400 N 10700 E; 0.3m	silicified Qtz Volc.	5	<5	25	2	<0.008	577	
19	290209	10400 N 10725 E; 0.3m	cream/brown Qtz Volc.	<5	15	10	<1	<0.008	424	
20	290210	10400 N 10737.5 E; 0.5m	"	5	85	25	1	<0.008	524	
21	290211	10400 N 10750 E; 0.3m	"	5	5	10	1	<0.008	634	
22	290212	10400 N 10762.5 E; 0.5m	pale green Qtz. Volc.	5	15	25	<1	<0.008	560	
23	290213	10400 N 10775 E; 0.7m	green Qtz Volc.	5	10	20	1	<0.008	730	
24	290214	10400 N 10800 E; 0.2m	brown Qtz Volc.	10	50	140	9	<0.008	772	
25										

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Project EL 40/85 **Prospect** V29 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	
1		LINE No. 17.								
2	290215	10375N 10700E; 0.5m	cream/tan Qtz. volc.	<5	<5	15	1	<0.008	481	
3	290216	10375N 10725E; 0.4m	brown Qtz volc.	15	25	15	1	<0.008	469	
4	290217	10375N 10737.5E; 0.5m	"	5	5	15	1	<0.008	670	
5	290218	10375N 10750N; 0.4m	cream/tan Qtz volc.	5	<5	10	<1	<0.008	656	
6	290219	10375N 10762.5N; 0.3m	p.green Qtz volc.	<5	5	5	<1	<0.008	571	
7	290220	10375N 10775E; 0.5m	brown/cream Qtz volc.	10	<5	10	1	<0.008	833	
8	290221	10375N 10800E; 0.5m	B/C brown clay	5	155	60	40	<0.008	333	
9		LINE No. 18.								
10	290222	10350N 10700E; 0.05m	cream/grey Qtz. volc.	<5	<5	15	1	<0.008	537	
11	290223	10350N 10725E; 0.3m	cream/green Qtz volc	<5	5	10	<1	<0.008	796	
12	290224	10350N 10737.5E; 1.0m	Veg. clay	10	45	25	3	<0.008	863	
13	290225	10350N 10750E; 0.4m	cream/tan silt	5	5	10	<1	<0.008	640	
14	290226	10350N 10762.5E; 0.2m	brown Qtz volc.	<5	5	15	<1	<0.008	749	
15	290227	10350N 10775E; 0.2m	"	5	10	15	<1	<0.008	609	
16	290228	10350N 10800E; 0.0m	Veg Qtz clay	5	30	20	2	<0.008	776	
17										
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24										
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Despatch No 5756 Order No D0325

Requested by Date 13/1/88

Project EL 40/85 **Prospect** V 29 **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	291751	10,650N-9900E, 3m, B/c horizon		<5	20	140	<1	0-019		
2	291752	10,650N-9925E, 5m.		<5	5	40	2	<0.008		
3	291753	10,650N-9950E, 2m, clay		<5	<5	70	2	<0.008		
4	291754	10,650N-9975E, 4m, cream clay		<5	<5	15	1	<0.008		
5	291755	10,650N-10000E, 4m, Kahkai "		<5	<5	20	1	<0.008		
6	291756	10,650N-10,025E, 6m, " "		5	10	100	2	<0.008		
7	291757	10650N-10050E, 6m, " "		<5	<5	35	2	<0.008		
8	291758	10,650N-10075E, 6m, yellow clay		5	<5	40	11	<0.008		
9	291759	10,650N-10100E, 5m, Kahkai Clay		<5	<5	40	6	<0.008		
10	291760	10,525N-10000E, 4m, " "		<5	<5	35	3	<0.008		
11	291761	10,525N-10,025E, 1m, B/c horizon		15	100	210	10	<0.008		
12	291762	10,525N-10,050E, 5m, clay		<5	15	80	2	<0.008		
13	291763	10,525N-10,075E, 5m, green clay		5	75	165	4	<0.008		
14	291764	10,525N-10,100E, 9m, Kahkai "		10	150	720	10	<0.008		
15	291765	10,525N-10,125E, 4m, Kahkai "		<5	<5	65	2	0.010		
16	291766	10,525N-10,150E, 5m, " "		5	25	70	3	<0.008		
17	291767	10,525N-10,175E, 5m, " "		5	<5	30	3	<0.008		
18	291768	10,525N-10,200E, 9m, Brown "		5	5	40	4	<0.008		
19	291769	10,525N-9975E, 6m, clay		<5	<5	40	3	<0.008		
20	291770	10,525N-9950E, 8m, cream clay		<5	<5	45	3	<0.008		
21	291771	10,525N-9925E, 4m, " "		<5	15	45	3	<0.008		
22	291772	10,525N-9900E, 4m, orange "		10	<5	135	4	<0.008		
23	291773	10,500N-10,000E, 5m, B/c HOR		<5	<5	20	3	<0.008		
24	291774	10,500N-9975E, 7m, Kahkai "		5	<5	35	3	<0.008		
25	291775	10,500N-9950E, 6m, " "		<5	5	40	3	<0.008		

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Cyprus Minerals

Despatch No 5756 Order No 00325

Requested by Date 13/1/88

Project EL 40/85 **Prospect** V 29 **Type** SOIL SAMPLES

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	291776	10,500N-9925E, ·2m, Cream Clay		5	<5	40	3	<0.008		
2	291777	10,500N-9900E; ·9m, Kahkai "		<5	5	35	2	<0.008		
3	291778	10,475N-10000E; ·4m, Grey "		<5	<5	25	3	<0.008		
4	291779	10,475N-10,025E; ·3m, Kahkai "		<5	10	35	2	<0.008		
5	291780	10,475N-10,050E; ·2m, " "		10	120	185	4	<0.008		
6	291781	10,475N-10,075E; ·2m, Cream "		<5	30	100	3	<0.008		
7	291782	10,475N-10,100E; ·3m, Kahkai "		5	30	165	4	<0.008		
8	291783	10,475N-10,125E, ·5m, " "		<5	20	30	3	<0.008		
9	291784	10,475N-10,150E, ·3m, Brown "		<5	<5	40	4	<0.008		
10	291785	10,475N-10,175E; ·4m, Cream "		<5	<5	35	1	<0.008		
11	291786	10,475N-10,200E; ·8m, Kahkai "		<5	<5	30	4	<0.008		
12	291787	10,475N-9975E; ·3m, " "		<5	<5	40	5	<0.008		
13	291788	10,475N-9950E; ·3m, " "		<5	<5	30	4	<0.008		
14	291789	10475N-9925E; ·3m, " "		<5	10	40	5	<0.008		
15	291790	10475N-9900E; ·4m, Cream "		<5	<5	50	3	<0.008		
16	291791	10425N-10000E; ·3m,		<5	<5	30	3	<0.008		
17	291792	10425N-10025E; o/c		<5	5	55	5	<0.008		
18	291793	10425N-10050E; ·5m, Kahkai "		10	85	110	5	<0.008		
19	291794	10425N-10075E; ·5m, " "		<5	90	60	4	<0.008		
20	291795	10425N-10100E; ·3m, " "		5	10	50	4	<0.008		
21	291796	10425N-10125E; ·3m, " "		<5	35	30	3	<0.008		
22	291797	10425N-10150E; ·6m, " "		10	80	55	5	<0.008		
23	291798	10425N-10175E; ·5m, brown "		5	40	50	2	<0.008		
24	291799	10425N-10200E; ·6m, Kahkai		<5	15	45	1	<0.008		
25										

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Cyprus Minerals

Despatch No 5763 Order No E00400

Requested by J. Suppee Date 1/2/88 Soil Au Anom Follow up

Project Elliott Bay **Prospect** V29 **Type** Rock Chip

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292101	10075N 10412.5E	Qtz-rich volcaniclastic	10	55	145	6	<0.008		
2	102	10075N 10487.5E	"	10	15	10	<1	<0.008		
3	103	10075N 10525E	fine silicified	10	65	125	2	<0.008		
4	104	10075N 10550E	Rhyolitic volc	<5	<5	15	<1	<0.008		
5	105	10050N 10462.5E	"	<5	<5	20	<1	0.25		
6	106	10050N 10450E		<5	<5	15	<1	0.03		
7	107	10050N 10425E		<5	<5	10	<1	<0.008		
8	108	10050N 10400E		<5	40	10	1	0.13		
9	109	10100N 10462.5E		<5	<5	20	<1	0.03		
10	292110	10150N 10225E		<5	15	15	<1	<0.008		
11	292111	10375N 10175E		<5	15	10	<1	0.05		
12	292248	10075N 10375E	Sericitic volc + py	25	75	160	22	0.24		
13	292249	" "	B horizon	<5	<5	5	1	0.04		
14	292250	" "	A horizon	<5	<5	<5	<1	0.07		
15										
16										
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sassy creek : SOILS, ROCKCHIPS

sample data sheet

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Project EL 40/85 **Prospect** V24 **Type** Soil / Rock

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1		LINE N° 1.		~~6~~						
2	290230	9000 N 8600 E; 1.4m	Rock flour	5	25	15	1	<0.008	961	
3	290231	9000N 8612.5 E; 1.1m	Veg. clay	5	20	10	1	<0.008	715	
4	290232	9000 N 8625 E; 1.2m	brown/green Volc.	15	35	60	<1	<0.008	549	
5	290233	9000 N 8637.5E; 1.0m	cream Qtz. Volc	10	5	15	<1	<0.008	1190	
6	290234	9000 N 8650 E; 1.0m	cream/tan clay	<5	<5	10	<1	0.050	402	
7	290235	9000N 8662.5E; 0.8m	cream Qtz. Volc.	<5	<5	10	<1	<0.008	573	
8	290236	9000 N 8675 E; 0.8m	"	<5	<5	15	<1	<0.008	592	
9	290237	9000 N 8687.5 E; 0.3m	"	<5	<5	10	<1	<0.008	455	
10	290238	9000N 8700 E; 0.5m	"	<5	<5	10	<1	<0.008	512	
11	290239	9000N 8712.5 E; 0.4m	"	<5	<5	5	<1	<0.008	446	
12		- contains small cavities (leached sulfides)		~~<5~~	~~<5~~	~~10~~	~~<1~~	~~<0.008~~	~~448~~	
13	290240	9000N 8725 E; 0.4m	"	<5	<5	10	<1	<0.008	448	
14		- leached cavities								
15	290241	9000 N 8737.5 E; 0.7m	"	5	<5	10	<1	<0.008	385	
16	290242	9000 N 8750 E; 0.7m	"	5	<5	15	<1	<0.008	842	
17	290243	9000N 8762.5E; 0.5m	"	<5	<5	15	<1	<0.008	825	
18	290244	9000 N 8775 E; 0.6m	"	<5	5	10	<1	<0.008	407	
19		- leached cavities - iron staining		~~<5~~	~~<5~~	~~5~~	~~<1~~	~~<0.008~~	~~364~~	
20	290245	9000 N 8787.5E; 0.3m	"	<5	<5	~~10~~ 5	<1	<0.008	349	
21	290246	9000 N 8800 E; 0.2m	C/A "	<5	<5	10	<1	<0.008	352	
22	290247	9000 N 8812.5 E; 0.3m	"	<5	<5	10	<1	<0.008	452	
23	290248	9000 N 8825 E; 0.1m	"	<5	<5	15	<1	<0.008	547	
24	290249	9000 N 8837.5E; 0.3m	"	<5	<5	10	<1	<0.008	426	
25	290250	9000 N 8850 E; 0.2m	"	<5	<5	5	<1	<0.008	450	

- leached cavities

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Project EL 40/85 **Prospect** V24 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	
1		LINE Nº 2.	12.5m							
2	291967	8950N 9100E ; 0.6m	brown/tan Qtz Volc.	<5	<5	5	<1	<0.008	627	
3	291968	8950N 9087.5E; 0.6m	brown clay	<5	<5	5	<1	<0.008	483	
4	291969	8950N 9075E ; 0.4m	brown Qtz Volc	5	5	15	<1	<0.008	553	
5	291970	8950N 9062.5E; 0.5m	brown clay	5	<5	5	<1	<0.008	739	
6	291971	8950N 9050E ; 0.6m	brown Qtz Volc.	5	<5	10	<1	<0.008	505	
7	291972	8950N 9037.5E; 0.6m	"	<5	<5	10	<1	<0.008	668	
8	291973	8950N 9025E; 0.7m	green/crm Qtz Volc.	<5	10	25	<1	<0.008	389	
9	291974	8950N 9012.5E; 0.45m	b.own/tan Qtz Volc.	<5	<5	5	<1	<0.008	560	
10	291975	8950N 9000E ; 0.3m	"	<5	<5	5	<1	<0.008	563	
11	291976	8950N 8987.5E; 0.7m	"	<5	<5	10	<1	<0.008	610	
12	291977	8950N 8975E; 0.7m	c/B "	<5	5	5	<1	<0.008	561	
13	291978	8950N 8962.5E; 0.6m	c/A. crm/tan Qtz. Volc	<5	<5	5	<1	<0.008	520	
14	291979	8950N 8950E ; 0.8m	"	<5	<5	10	<1	<0.008	530	
15	291980	8950N 8937.5E; 0.5m	crm/tan Volc. sed	<5	<5	10	<1	<0.008	752	
16	291981	8950N 8925E; 0.6m	UB "	<5	<5	10	<1	<0.008	368	
17	291982	8950N 8912.5E; 0.5m	"	<5	<5	10	<1	<0.008	486	
18	291983	8950N 8900E ; 0.7m	B. Qtz soil.	<5	<5	<5	<1	<0.008	280	
19	291984	8950N 8887.5E; 0.5m	cream/tan Qtz Volc.	<5	5	20	<1	<0.008	458	
20	291985	8950N 8875E; 0.3m	"	<5	<5	15	<1	<0.008	475	
21	291986	8950N 8862.5E; 0.4m	"	<5	<5	15	<1	<0.008	368	
22	291987	8950N 8850E ; 0.6m	"	5	<5	5	<1	<0.008	399	
23	291988	8950N 8837.5E; 0.4m	brown Qtz volc.	<5	<5	5	<1	<0.008	456	
24	291989	8950N 8825E; 0.6m	"	5	<5	5	<1	<0.008	464	
25	291990	8950N 8812.5E; 0.4m	cream/tan Qtz volc.	<5	<5	5	<1	<0.008	431	

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Project EL 40/85 **Prospect** V24 **Type** Soil/Rock

	Sample Number	Coordinates, depth or location	Interval	W	Pb	Zn	As	Au	Ba.	
1	cont. 291991	8950N 8800 E; 0.4m	crm/brown Volc. sed.	<5	<5	5	<1	<0.008	431	
2		- leached cavities								
3	291992	8950N 8787.5E; 0.3m	cream Qtz volc.	<5	<5	10	<1	<0.008	572	
4	291993	8950N 8775 E; 0.2m	"	<5	<5	10	<1	<0.008	520	
5	291994	8950N 8762.5E; 0.5m	"	<5	5	5	<1	<0.008	358	
6	291995	8950N 8750 E; 0.4m	tan/brown Qtz volc.	5	<5	10	<1	<0.008	436	
7	291996	8950N 8737.5E; 0.5m	cream Qtz volc.	<5	5	10	<1	<0.008	515	
8	291997	8950N 8725 E; 0.4m	"	<5	<5	15	<1	<0.008	461	
9		- leached cavities		~~<5~~	~~5~~	~~10~~	~~<1~~	~~<0.008~~	~~470~~	
10	291998	8950N 8712.5E; 0.5m	tan/brown Qtz volc	<5	5	10	<1	<0.008	470	
11		- leached cavities								
12	291999	8950N 8700 E; 0.6m	cream/tan Qtz volc.	<5	<5	10	<1	<0.008	427	
13	292000	8950N 8687.5E; 0.9m	brown Qtz volc.	<5	<5	10	<1	<0.008	420	
14	292001	8950N 8675 E; 0.4m	cream/tan Qtz volc.	<5	<5	10	<1	<0.008	410	
15	292002	8950N 8662.5E; 0.9m	"	<5	<5	10	<1	<0.008	696	
16	292003	8950N 8650 E; 0.4m	brown Qtz volc.	<5	<5	10	<1	<0.008	822	
17	292004	8950N 8637.5E; 1.4m	"	10	35	10	1	<0.008	912	
18	292005	8950N 8625 E; 1.1m	"	5	10	15	1	<0.008	992	
19	292006	8950N 8612.5E; 1.2m	brown/green volc soil	5	<5	5	1	<0.008	561	
20	292007	8950N 8600 E; 1.0m	Qtz clay	10	75	40	1	<0.008	1080	
21	292008	8950N 8587.5E; 0.3m	blue/grey siltstone	5	5	5	<1	<0.008	499	
22	292009	8950N 8575 E; 1.2m	crm/green Qtz clay	10	15	25	9	<0.008	1270	
23	292010	8950N 8562.5E; 0.7m	cream Qtz volc.	10	70	10	6	<0.008	912	
24	292011	8950N 8550 E; 0.3m	green/grey siltstone	5	<5	5	<1	<0.008	307	
25	292012	8950N 8537.5E; 0.2m	"	5	<5	5	<1	<0.008	181	

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Project EL 40/85 **Prospect** V24 **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	cont. 292013	8950N 8525E; 1.1m	cream/tan clay.	20	20	65	19	<0.008	429	
2	292014	8950N 8512.5E; 1.0m	"	35	20	60	6	<0.008	1190	
3	292015	8950N 8500 E; 1.0m	blue/grey siltstone.	10	10	5	6	<0.008	290	
4		LINE No. 3.								
5	292016	8900N 8537.5E; 1.2m	crm/brown clay	10	55	35	7	<0.008	913	
6	292017	8900N 8550 E; 0.9m	cream/tan Qtz Volc.	<5	20	20	8	<0.008	392	
7	292018	8900N 8562.5E; 1.0m	"	<5	25	15	1	<0.008	759	
8	292019	8900N 8575 E; 1.1m	cream/tan clay	<5	25	10	<1	<0.008	1340	
9	292020	8900N 8587.5E; 1.1m	tan/brown Qtz Volc.	5	15	15	<1	<0.008	468	
10	292021	8900N 8600 E; 1.1m	tan/brown clay	5	40	10	<1	<0.008	1150	
11	292022	8900N 8612.5E; 1.1m	grey/crm clay	<5	15	10	<1	<0.008	934	
12	292023	8900N 8625E; 0.9m	grey/tan Qtz Volc	<5	5	15	<1	<0.008	672	
13	292024	8900N 8637.5E; 0.6m	cream/tan Volc. sed.	<5	15	5	<1	<0.008	535	
14		- sulfide minerals present.								
15	292025	8900N 8650E; 0.7m	brown/tan Qtz. Volc.	<5	15	10	<1	<0.008	641	
16	292026	8900N 8662.5E; 1.0m	green Qtz. Volc.	10	25	50	16	<0.008	718	
17	292027	8900N 8675 E; 0.7m	cream Qtz Volc.	<5	<5	5	<1	<0.008	292	
18	292028	8900N 8687.5E; 0.3m	"	<5	<5	10	<1	<0.008	381	
19	292029	8900N 8700 E; 0.3m	cream Volc. silt.	<5	<5	5	<1	<0.008	370	
20	292030	8900N 8712.5E; 0.2m	"	<5	5	10	<1	<0.008	386	
21	292031	8900N 8725 E; 0.3m	"	<5	5	5	<1	0.11	300	
22		- silicified, massive - leached cavities		4						
23	292032	8900N 8737.5E; 0.3m	siltstone silicified.	<5	5	10	<1	<0.008	415	
24	292033	8900N 8750 E; 0.2m	"	<5	5	15	<1	<0.008	747	
25	292034	8900N 8762.5E; 0.2m	cream Qtz Volc.	<5	5	10	<1	<0.008	573	

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	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	cont. 292035	8900 N 8775 E; 0.4m	cream/tan Qtz. Volc.	<5	<5	<5	<1	<0.008	486	
2	292036	8900 N 8787.5E; 0.4m	" silicified	5	<5	<5	<1	<0.008	292	
3	292037	8900 N 8800 E; 0.3m	cream/tan Volc silt	<5	<5	5	1	<0.008	442	
4	292038	8900 N 8812.5E; 0.3m	cream/tan Qtz Volc.	<5	<5	5	1	<0.008	438	
5	292039	8900 N 8825 E; 0.3m	"	<5	5	<5	<1	<0.008	392	
6	292040	8900 N 8837.5E; 0.6m	brown Qtz Volc.	<5	<5	5	1	<0.008	592	
7	292041	8900 N 8850 E; 0.5m	cream/tan Qtz Volc.	<5	<5	5	1	<0.008	653	
8		- leached cavities								
9	292042	8900 N 8862.5E; 0.3m	Volc. silt	<5	<5	5	1	<0.008	511	
10	292043	8900 N 8875 E; 0.4m	brown Volc silt.	<5	5	5	2	<0.008	369	
11	292044	8900 N 8887.5E; 0.6m	brown Qtz Volc.	<5	<5	15	1	<0.008	~~369~~ 574	
12	292045	8900 N 8900 E; 0.1m	cream Qtz Volc.	<5	5	10	1	<0.008	452	
13		- leached.								
14	292046	8900 N 8912.5E; 0.3m	cream/tan Volc silt.	<5	<5	5	1	<0.008	481	
15	292047	8900 N 8925 E; 0.4m	"	<5	<5	5	1	<0.008	559	
16	292048	8900 N 8937.5E; 0.7m	"	<5	<5	5	1	<0.008	444	
17		- leached cavities								
18	292049	8900 N 8950 E; 1.0m	cream Qtz Volc.	<5	10	5	1	0.01	1070	
19	292050	8900 N 8962.5E; 0.8m	cream/tan Volc. silt	<5	10	5	1	<0.008	708	
20	292051	8900 N 8975 E; 0.4m	cream/tan Qtz. Volc.	<5	10	5	1	<0.008	611	
21	292052	8900 N 8987.5 E; 0.6m	"	<5	<5	5	<1	<0.008	682	
22	292053	8900 N 9000 E; 0.2m	"	<5	<5	<5	1	<0.008	6580	
23	292054	8900 N 9012.5 E; 0.2m	"	<5	<5	5	1	<0.008	621	
24	292055	8900 N 9025 E; 0.5m	B/C "	<5	<5	<5	1	<0.008	489	
25	292056	8900 N 9037.5E; 0.5m	C/A "	<5	<5	<5	1	<0.008	556	

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	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba	
1	cont. 292057	8900N 9050E; 0.8m	cream/tan Qtz. Volc.	<5	<5	5	1	<0.008	529	
2	292058	8900N 9062.5E; 0.4m	"	<5	<5	<5	1	<0.008	666	
3	292059	8900N 9075 E; 0.5m	"	<5	<5	10	1	<0.008	943	
4	292060	8900N 9087.5E; 0.6m	rusty brown clay.	<5	<5	5	1	<0.008	568	
5	292061	8900N 9100 E; 0.3m	brown Qtz. Volc.	5	5	10	2	<0.008	495	
6		LINE No. 4.		-						
7	292062	8850N 9100 E; 1.2m	cream/tan clay.	<5	<5	~~5~~	~~2~~	~~<0.008~~ 6	611	
8	292063	8850N 9087.5E; 0.5m	"	10	<5	10	<1	<0.008	487	
9	292064	8850N 9075 E; 0.7m	"	10	<5	5	<1	<0.008	677	
10	292065	8850N 9075 E; 0.0m	cream/tan Qtz. Volc.	10	<5	45	1	<0.008	689	
11		- outcrop duplicate of sample 292065								
12	292066	8850N 9067.5E; 0.4m	crm/brown Qtz Volc.	5	<5	15	2	<0.008	441	
13	292067	8850N 9050 E; 0.2m	"	<5	5	10	<1	<0.008	728	
14	292068	8850N 9037.5E; 0.3m	"	<5	<5	10	1	<0.008	748	
15	292069	8850N 9025 E; 0.3m	cream clay.	<5	<5	10	<1	<0.008	713	
16	292070	8850N 9012.5E; 0.5m	cream/tan Qtz. Volc.	<5	<5	10	1	<0.008	610	
17	292071	8850N 9000E; 0.4m	brown Volc. silt.	<5	<5	65	<100	<0.005		
18	292072	8850N 8987.5E; 0.3m	grey Volc. silt.	<5	<5	20	<100	<0.005		
19		- leached cavities								
20	292073	8850N 8975 E; 0.2m	brown Volc silt.	<5	<5	20	<100	<0.005		
21		- leached cavities								
22	292074	8850N 8962.5E; 0.4m	crm/green Volc. silt.	<5	<5	20	<100	<0.005		
23	29 075	8850N 8950 E; 0.4m	"	<5	<5	20	<100	<0.005		
24	292076	8850N 8937.5E; 0.9m	brown Volc. silt.	10	<5	10	<100	0.005		
25		- abundant minerals with oxidized rims.								

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Project EL 40/85 **Prospect** V24 **Type** SOIL/ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au	Ba.	Au(2)
1	Cont. 292077	8850 N 8925 E, 0.8m	oxidised Volc silt.	<5	<5	10	<100	0.005		
2	292078	8850 N 8912.5 E; 0.6m	"	<5	5	10	<100	<0.005		
3	292079	8850 N 8900 E; 0.5m	cream/green Qtz Volc.	<5	<5	10	<100	0.005		
4	292080	8850 N 8887.5 E; 0.9m	"	<5	<5	5	<100	<0.005		
5	292081	8850 N 8875 E; 0.6m	brown Volc. silt	<5	<5	10	<100	0.04		
6	292082	8850 N 8862.5 E; 0.1m	crm/green Volc silt	<5	<5	15	<100	0.01		
7	292083	8850 N 8850 E; 0.3m	crm/green Qtz Volc.	<5	<5	15	<100	0.03		
8	292084	8850 N 8837.5 E; 0.3m	"	<5	<5	15	<100	0.01		
9	292085	8850 N 8825 E; 0.3m	cream Qtz Volc.	<5	<5	40	<100	<0.005		
10	292086	8850 N 8812.5 E; 0.6m	green/crm Volc. silt	<5	<5	15	<100	0.01		
11	292087	8850 N 8800 E; 0.5m	tan/brown Qtz. Volc.	10	<5	20	<100	0.015		
12	292088	8850 N 8787.5 E, 0.6m	cream Qtz Volc.	<5	<5	10	<100	0.01		
13	292089	8850 N 8775 E; 0.3m	"	<5	<5	10	<100	0.01		
14	292090	8850 N 8762.5 E; 0.4m	"	<5	<5	15	<100	0.01		(0.01)
15	292091	8850 N 8750 E; 0.2m	"	<5	<5	15	<100	0.05		
16		- leached cavities								
17	292092	8850 N 8737.5 E; 0.2m	"	<5	<5	10	<100	<0.005		
18	292093	8850 N 8725 E; 0.2m	grey/tan Qtz Volc.	<5	<5	15	<100	<0.005		
19	292094	8850 N 8712.5 E; 0.4m	crm/grey Volc silt	<5	<5	10	<100	0.065		
20	292095	8850 N 8700 E; 0.7m	"	<5	<5	20	<100	0.03		
21	292096	8850N 8687.5E		<5	<5	25	<1	0.025		
22	097	" 8675E		<5	<5	20	2	<0.005		
23	098	" 8662.5E		10	5	60	3	<0.005		
24	099	" 8650E		<5	<5	15	3	<0.005 (<0.005)		
25	292100	" 8637.5E		<5	<5	15	6	<0.005		

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Requested by C. Torrey Date

Project Elliott Bay **Prospect** V24 **Type** Soil/Rock

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292901	8800N	8500E	<5	15	15	1	<0.005		
2	292902	8800N	8525E	5	<5	35	1	"		
3	292903	8800N	8550E	<5	5	20	5	<0.005		
4	292904	"	8575E	<5	5	45	2	"		
5	292905	"	8600E	<5	<5	15	1	"		
6	292906	"	8625E	<5	5	30	2	"		
7	292907	"	8650E	5	10	20	25	"		
8	292908	"	8675E	<5	30	30	28	"		
9	292909	"	8700E	5	10	55	3	"		
10	292910	"	8725E	<5	<5	15	2	"		
11	292911	"	8750E	<5	5	10	2	"		
12	292912	"	8775E	<5	<5	15	1	"		
13	292913	"	8800E	<5	<5	10	<1	"		
14	292914	"	8825E	<5	<5	10	<1	"		
15	292915	"	8837.5	<5	<5	10	1	"		
16	292916	"	8850E	<5	<5	15	1	"		
17	292917	"	8862.5	<5	<5	10	1	"		
18	292918	"	8875E	<5	<5	20	1	"		
19	292919	"	8887.5E	<5	<5	15	<1	"		
20	292920	"	8900E	<5	<5	15	<1	"		
21	292921		8725E	<5	<5	15	1	"		
22	292922		8950E	<5	<5	20	1	"		
23	292923		8975E	<5	<5	15	<1	"		
24	292924		9000E	<5	<5	15	<1	"		
25	292925		9025E	<5	<5	15	<1	"		

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Project	Prospect	Type VLF

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292926	8800N 905E		<5	<5	20	<1	40008		
2	292927	" 907.5E		<5	<5	15	<1	"		
3	292928	" 910E		5	<5	20	<1	"		
4										
5										
6										
7										
8										
9										
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Despatch No 5760 Order No E00395

Requested by R. Pollock Date 29/11/88

Project Elliott Bay **Prospect** V24 **Type** Soil/Rock.

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	Ag	Au	Au(2)	
1	292201	9900N 9150E	siltstone	<5	<5	10	<400	<0.005		
2	292202	9887.5 "	"	<5	<5	10	<100	<0.005		
3	203	9875 "		<5	<5	10	<100	<0.005		
4	204	9862.5 "		<5	<5	10	<100	<0.005	<0.005	
5	205	9850N 9150E		<5	<5	10	<100	<0.005		
6	206	9837.5N "		<5	<5	10	<100	<0.005		
7	207	9825N "		<5	<5	10	<100	<0.005		
8	208	9825N 9200E		<5	<5	20	<100	<0.005		
9	209	9837.5N "		<5	<5	10	<100	<0.005		
10	292210	9850N "		<5	<5	25	<100	<0.005		
11	211	9862.5 "		<5	<5	10	<100	<0.005		
12	212	9875 N "		<5	<5	5	<100	<0.005		
13	213	9887.5N "		<5	<5	15	<100	<0.005		
14	214	9900N 9200E		<5	<5	10	<100	<0.005		
15	215	9950N 9250E		<5	<5	15	<100	<0.005		
16	216	9937.5N "		<5	<5	20	<100	<0.005		
17	217	9925N "		<5	<5	30	<100	<0.005		
18	218	9912.5N "		<5	<5	10	<100	<0.005		
19	219	9900N "		<5	<5	10	<100	<0.005		
20	292220	9887.5N "	No sample							
21	292221	9875N 9250E		<5	<5	10	<100	<0.005		
22	222	9862.5N "		<5	<5	15	<100	<0.005		
23	223	9850N 9250E		<5	<5	10	<100	<0.005		
24	224	9950N 9300E		<5	5	15	<100	0.015		
25	225	9937.5N "		<5	<5	10	<100	<0.005		

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Despatch No Order No E0039-15

Requested by R. Poltack Date

Project Elliott Bay **Prospect** V24 **Type** Soil / Rock

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292226	9925N 9300E		<5	<5	10	<100	<0.005		
2	292227	9912.5N "		<5	<5	10	<100	<0.005		
3	228	9900N "		5	<5	5	<100	<0.005		
4	229	9887.5N "		80	355	140	<100	<0.005		
5	230	9875N "		5	<5	10	<100	<0.005		
6	231	9867.5N "		<5	<5	10	<100	<0.005		
7	232	9850N "		<5	<5	5	<100	<0.005		
8	233	9850N 9350E		<5	<5	5	<100	<0.005		
9	234	9862.5N "		5	<5	10	<100	<0.005		
10	292235	8850N 8625E		<5	<5	35	5	<0.005		
11	236	" 8612.5E		<5	15	15	3	<0.005		
12	237	" 8600E		<5	<5	15	2	<0.005		
13	238	" 8587.5E		15	35	20	5	<0.005		
14	239	" 8575E		<5	<5	10	2	<0.005		
15	240	" 8562.5E		<5	<5	15	2	<0.005	<0.005	
16	241	" 8550E		<5	<5	10	2	<0.005		
17	242	" 8537.5E		<5	<5	15	3	<0.005		
18	292243	" 8525		~~5~~ 10	~~20~~ 19	~~20~~ 30	~~5~~ 11			
19	292244	8850N 8512.5		~~5~~ 5	~~20~~ 10	~~20~~ 20	~~5~~ 5			
20	292245	" 8500E		~~5~~ 10	~~5~~ 5	~~5~~ 40	~~5~~ 5			
21	292246	9900N 9300E	Qtz-pyrite vein	70	1450	95	6300	1.74	1.66	
22	292247	Low Rocky	Point	Fle						
23	292248	10075N 10375E	B/C horiz	25	75	160	22	0.24		
24	292249	10075N 10375E	B horiz	<5	<5	5	1	0.040		
25	292250	" "	A horiz.	<5	<5	<5	<1	0.070		

CYPRUS

384

743375

low rocky point : SOILS, STREAM SEDIMENTS & ROCKCHIPS

sample data sheet

Cyprus Minerals

Despatch No 5768 Order No 03507
Requested by QP Date 19-2-'88

Project ELLIOTT BAY **Prospect** PENDERS - GRANITE CONTACT **Type** SOIL / ROCK

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292929	11600N 10325E		5	-	10	1	.07		
2	292930	" 10350E		5	5	25	2	.03		
3	292931	" 10375E		5	5	10	2	<0.008		
4	292932	" 10400E		5	<5	10	3	<0.008		
5	292933	" 10425E		5	<5	10	2	<0.008		
6	292934	" 10450E		5	5	5	2	<0.008		
7	292935	" 10476E		5	5	10	1	<0.008		
8	292936	" 10500E		5	<5	5	1	<0.008		
9	292937	" 10525E		5	5	5	2	<0.008		
10	292938	" 10550E		5	5	10	1	<0.008		
11	292939	" 10575E		5	<5	10	1	<0.008		
12	292940	" 10600E		15	<5	20	<1	<0.008		
13	292941	" 10625E		15	<5	20	<1	<0.008		
14	292942	" 10650E		20	<5	10	<1	<0.008		
15	292943	" 10675E		15	<5	<5	<1	0.010		
16	292944	" 10700E		15	<5	20	<1	<0.008		
17	292945	" 10725E		15	<5	5	<1	<0.008		
18	292946	" 10750E		10	<5	10	1	<0.008		
19	292947	" 10775E		5	<5	5	1	<0.008		
20	292948	" 10800E		5	10	10	1	<0.008		
21	292949	" 10825E		5	5	5	1	<0.008		
22	292950	" 10850E		20	<5	5	<1	<0.008		
23	292951	" 10875E		5	10	10	2	<0.008		
24	292952	" 10900E		20	<5	<5	<1	<0.008		
25	292953	" 10925E		5	5	10	1	<0.008		

CYPRUS

sample data sheet

Cyprus Minerals

Despatch No 5768 Order No 03506
Requested by R. Pollock Date 19-2-88

Project ELLIOTT BAY **Prospect** READERS - WESTERN **Type** SOIL / ROCK
CONTACT LOW ROCKY GRANITE

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Ag	Au
1	292954	10950E 11600N		5	<5	15	1		<0.008
2	292955	10975E "		10	10	20	1		<0.008
3	292956	11000E "		5	10	10	<1		<0.008
4	292957	11000E ~~11600~~ 11500N		5	5	35	2		<0.008
5	292958	10975E "		5	<5	10	2		<0.008
6	292959	10950E "		5	5	45	1		<0.008
7	292960	10925E "		20	<5	10	<1		<0.008
8	292961	10900E "		10	10	10	3		<0.008
9	292962	10875E "		5	10	5	3		<0.008
10	292963	10850E "		10	<5	10	2		<0.008
11	292964	10825E "		5	<5	10	2		<0.008
12	292965	10800E "		5	15	10	2		<0.008
13	292966	10775E "		5	<5	20	2		<0.008
14	292967	10750E "		5	10	15	2		<0.008
15	292968	10725E "		5	<5	10	2		<0.008
16	292969	10700E "		5	5	5	1		<0.008
17	292970	10675E "		5	5	5	1		<0.008
18	292971	10650E "		5	<5	5	1		<0.008
19	292972	10625E "		5	10	5	2		<0.008
20	292973	10600E "		5	5	20	1		<0.008
21	292974	10575E "		10	5	5	<1		<0.008
22	292975	10550E "		5	10	20	2		<0.008
23									
24									
25									

CYPRUS

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sample data sheet

Cyprus Minerals

Despatch No 5769/5772 Order No 03507/03510

Requested by R. Pollock Date 22-2-88

Project ELLIOTT BAY **Prospect** PENDERS - WESTERN **Type** Soil Rock

LOW ROCKY GRANITE CONTACT

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	292976	~~11500N~~ ~~10N~~	1052SE	10	<5	5	<1	0.010		
2	292977	"	1050OE	10	<5	5	<1	<0.008		
3	292978	"	1047SE	10	<5	<5	<1	<0.008		
4	292979	"	1045OE	5	<5	10	<1	<0.008		
5	292980	"	1042SE	5	<5	20	<1	<0.008		
6	292981	"	1040OE	15	<5	15	4	<0.008		
7	292982	"	1037SE	5	<5	15	1	0.020		
8	292983	"	1035OE	5	<5	10	<1	<0.008		
9	292984	~~11600N~~ ~~10N~~	1080OE	5	<5	10	<1	0.010		
10	292985	"	1077SE	5	<5	5	<1	<0.008		
11	292986	"	1075OE	5	<5	10	<1	0.040		
12	292987	"	1072SE	5	<5	5	<1	0.020		
13	292988	"	1070OE	5	<5	5	<1	<0.008		
14	292989	"	1067SE	5	<5	5	<1	<0.008		
15	292990	"	1065OE	5	<5	10	<1	0.020		
16	292991	"	1062SE	5	<5	<5	<1	0.020		
17	292992	"	1060OE	5	<5	5	<1	0.400		
18	292993	"	1057SE	5	<5	5	<1	<0.008		
19	292994	"	1055OE	5	<5	5	1	0.010		
20	292995	"	1052SE	5	<5	15	<1	0.020		
21	292996	"	1050OE	5	<5	5	<1	<0.008		
22	292997	"	1082SE	5	<5	<5	<1	0.020		
23	292998	"	1085OE	5	<5	5	<1	0.060		
24	292999	"	1087SE	5	<5	5	<1	0.010		
25	293000	"	1090OE	10	<5	5	<1	<0.008		

5769

5772

CYPRUS

sample data sheet

Cyprus Minerals

Despatch No 5772 Order No 03510

Requested by R. Pollock Date 28-2-88

Project KNOTT BAY Prospect KNOCKS - WESTERN Type Soil Rock

CONTACT LOW ROCKY POINT GRANITIC

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	293061	~~11600N~~ 11400N	1025E	5	<5	5	<1	<0.008		
2	293062	"	10950E	30	<5	5	<1	<0.008		
3	293063	"	10975E	10	<5	<5	<1	<0.008		
4	293064	"	11000E	5	<5	10	<1	<0.008		
5x	293065	11290N	10900E	20	<5	35	1	0.010		
6	293066	~~10800N~~ 10900N	11100E	10	<5	5	1	<0.008		
7	293067	"	11075E	5	<5	5	<1	<0.008		
8	293068	"	11050E	5	<5	5	1	<0.008		
9	293069	"	11025E	10	<5	10	<1	<0.008		
10	293070	"	11000E	10	<5	5	<1	<0.008		
11	293071	"	10975E	5	<5	5	<1	<0.008		
12	293072	"	10950E	5	<5	10	<1	0.010		
13	293073	"	10925E	5	<5	5	1	<0.008		
14	293074	"	10900E	5	<5	5	<1	<0.008		
15	293075	"	10875E	5	<5	5	<1	<0.008		
16	293076	"	10850E	5	<5	10	<1	<0.008		
17	293077	"	10825E ~~10825E~~	5	<5	5	1	<0.008		
18	293078	"	10800E	<5	<5	<5	<1	<0.008		
19	293079	"	10775E	10	<5	5	<1	<0.008		
20	293080	"	10750E	5	<5	<5	<1	<0.008		
21	293081	"	10725E	10	<5	<5	<1	<0.008		
22	293082	"	10700E	10	<5	5	<1	<0.008		
23	293083	"	10675E	10	<5	<5	<1	<0.008		
24	293084	"	10650E	15	<5	5	<1	<0.008		
25	293085	"	10625E	10	<5	5	<1	<0.008		

CYPRUS

sample data sheet

Cyprus Minerals

Despatch No 5772 Order No 03510
Requested by R. Pollock Date 28-2-88

WART HILL Rock
V 29 W "
EAST CONTACT LOW ROCKY GRAN

Project ELLIOTT BAY 40/ES **Prospect** PENDERS - WESTERN **Type**

CONTACT LOW ROCKY POINT GRAN

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Au		
1	293086	~~10500N~~ 10600N	10600E	30	<5	5	1	<0.008		
2	293087	"	10575E	35	<5	5	<1	<0.008		
3	293088	"	10550E	10	<5	5	<1	<0.008		
4	293089	"	10525E	10	<5	5	1	<0.008		
5	293090	"	10500E	10	<5	5	1	<0.008		
6	293091	10500N	11100E	5	<5	5	<1	<0.008		
7										
8	293501	H102SN	82000E	<5	10	50	<1	0.005		
9	293502	"	"	5	85	125	20	<0.005		
10	293503	"	"	5	<5	130	13	<0.005		
11	293504	"	"	5	5	180	1	<0.005		
12	293505	"	"	35	125	45	3	<0.005		
13	293506	H102SN	81975E.	5	<5	5	<1	<0.005		
14	293507	"	"	<5	<5	5	<1	<0.005		
15	293508	"	"	5	<5	5	3	0.04		
16										
17	293059	13100N	10140E Py Sericic Silica	10	<5	10	1200	0.065		
18	293060	13090N	10150E "	10	75	60	990	0.06		
19										
20	293093	V 29 W.		55	—	125	4000	<0.005		
21										
22										
23										
24										
25										

CYPRUS

743381 Page

sample data sheet

Cyprus Minerals

Despatch No 5763 Order No E000400

Requested by R. Holtack Date 12/88

Project Elliott Bay Prospect Low Rocky Pt Granite Type -80# Sediment + Rock

	Sample Number	Coordinates, depth or location	Interval	Cu	Pb	Zn	As	Ag		
1	292247	Qtz-pyrite specimen	Vein	<5	<5	<5	2	0.68		
2										
3										
4										
5										
6	292790			5	5	50	1	0.33		
7	791			<5	<5	15	<1	0.11		
8	792			<5	<5	10	<1	0.01		
9	793			10	<5	45	1	<0.008		
10	794			5	<5	20	<1	<0.008		
11	795			<5	<5	15	<1	0.04		
12	796			5	<5	20	<1	0.09		
13	797			<5	<5	10	<1	<0.008		
14	798			<5	<5	15	<1	0.57		
15	799			<5	<5	25	<1	0.13		
16	292800			<5	<5	15	<1	<0.008		
17										
18										
19										
20										
21										
22										
23										
24										
25										

CYPRUS

743382

assays

743383

312

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999 — 52 Murray Street, West Perth, W.A. 6106 — Telex AA92560

ANALYTICAL REPORT No. P.S.08.03047

THIS REPORT MUST BE QUOTED IN ENQUIRIES REGARDING THE ACCOMPANYING ANALYTICAL DATA

R. Poltock
Cyprus Minerals
P.O. Box 230
Zeehan
Tasmania 7469

ORDER No.: E00385 DN5754
PROJECT: Elliott Bay
DATE RECEIVED: 07/01/88
RESULTS REQUIRED: ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	22/01/88	1	125

DATE	SAMPLE NUMBERS	PRE-TREATMENT: KEY	CRUSH	ROLL	SPLIT	SIEVE	OTHER (SEE REMARKS)	DRY	ANALYSIS: REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	171151/171275	PU							Ba/401		

RESULTS TO:
B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS TO:
R. Poltock
Cyprus Minerals
P.O. Box 230
Zeehan
Tasmania 7469

REMARKS

WART Hill
1986/87 Dort

STATE OF SAMPLES — ANALYTES — PREPARATION — ANALYSIS — METHOD

AUTHORISED OFFICER

743384

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	1 OF 6

TUBE No.	SAMPLE No.	Ba									
1	171151	1120									
2	171152	1100									
3	171153	692									
4	171154	846									
5	171155	743									
6	171156	559									
7	171157	878									
8	171158	627									
9	171159	1150									
10	171160	942									
11	171161	2450									
12	171162	3000									
13	171163	1300									
14	171164	607									
15	171165	966									
16	171166	1030									
17	171167	739									
18	171168	1260									
19	171169	1250									
20	171170	1600									
21	171171	1490									
22	171172	3020									
23	171173	631									
24	171174	869									
25	171175	472									

Results in ppm unless otherwise specified

T = element present, but concentration too low to measure

< = element concentration is below detection limit

— = element not determined

AUTHORISED OFFICER

743385

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	2 OF 6

TUBE No.	SAMPLE No.	Ba									
1	171176	784									
2	171177	929									
3	171178	1910									
4	171179	1310									
5	171180	816									
6	171181	855									
7	171182	1070									
8	171183	967									
9	171184	398									
10	171185	422									
11	171186	721									
12	171187	478									
13	171188	1090									
14	171189	1060									
15	171190	1120									
16	171191	1000									
17	171192	1170									
18	171193	780									
19	171194	496									
20	171195	204									
21	171196	903									
22	171197	631									
23	171198	713									
24	171199	1050									
25	171200	610									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

743386

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	3 OF 6

TUBE No.	SAMPLE No.	Ba									
1	171201	533									
2	171202	600									
3	171203	583									
4	171204	1690									
5	171205	1860									
6	171206	854									
7	171207	1830									
8	171208	1400									
9	171209	1320									
10	171210	1460									
11	171211	2220									
12	171212	916									
13	171213	1560									
14	171214	1710									
15	171215	922									
16	171216	991									
17	171217	689									
18	171218	1410									
19	171219	734									
20	171220	655									
21	171221	692									
22	171222	677									
23	171223	536									
24	171224	492									
25	171225	493									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	4 OF 6

TUBE No.	SAMPLE No.	Ba									
1	171226	550									
2	171227	1630									
3	171228	2100									
4	171229	1440									
5	171230	2020									
6	171231	1140									
7	171232	2410									
8	171233	1610									
9	171234	1150									
10	171235	1260									
11	171236	1010									
12	171237	1300									
13	171238	2230									
14	171239	687									
15	171240	486									
16	171241	190									
17	171242	441									
18	171243	848									
19	171244	892									
20	171245	868									
21	171246	677									
22	171247	579									
23	171248	607									
24	171249	387									
25	171250	479									

Results in ppm unless otherwise specified
T. = element present but concentration too low to measure
X. = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

743388

377

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	5 OF 6

TUBE No.	SAMPLE No.	Ba
1	171251	613
2	171252	933
3	171253	1250
4	171254	1300
5	171255	1550
6	171256	1700
7	171257	2150
8	171258	1580
9	171259	1750
10	171260	1550
11	171261	1470
12	171262	2120
13	171263	1760
14	171264	1400
15	171265	1340
16	171266	896
17	171267	1320
18	171268	1420
19	171269	2430
20	171270	485
21	171271	647
22	171272	1210
23	171273	632
24	171274	761
25	171275	1180

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743389

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	7.5.08.05047	22/01/88	E00385 DN5754	6 OF 6

TUBE No.	SAMPLE No.	Ba
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22	DETECTION	10
23	UNITS	PPM
24	METHOD	401
25		

Results in ppm unless otherwise specified.
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER

743390

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999 — 20 Kalinda Road, Wangara, W.A. 6065 — Telex AA92648

7.5.08.05066

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

E00325 DN 575 — Elliot Bay

DATE RECEIVED: 13/01/88 — RESULTS REQUIRED: ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
16	14/04/88	1	178

STATE NUMBER	FOR OFFICE USE ONLY							ANALYSIS			
	291801/930,291752/799	SO	Prep: 005,013,016					Cu,Pb,Zn/101,As/114			
	291801/930,291752/799	SO						Au,AuChk/309			
	291801/930,291752/799	SO	Prep: 005,013,016					Pb,Zn,Ag/104			
	291801/930,291752/799	SO						Ba/401			

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

R. Poltock
Cyprus Minerals
C/- Post Office
Wilmot
Tasmania 7310

REMARKS

Cu Report for 291893 included.

AUTHORISED OFFICER

743391

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5751	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291752	<5	5	-	40	-	-	2	<0.008	-
2	291753	<5	<5	-	70	-	-	2	<0.008	<0.008
3	291754	<5	<5	-	15	-	-	1	<0.008	-
4	291755	<5	<5	-	20	-	-	1	<0.008	-
5	291756	5	·10	-	100	-	-	2	<0.008	-
6	291757	<5	<5	-	35	-	-	2	<0.008	-
7	291758	5	<5	-	40	-	-	11	<0.008	-
8	291759	<5	<5	-	40	-	-	6	<0.008	-
9	291760	<5	<5	-	35	-	-	3	<0.008	-
10	291761	15	100	-	210	-	-	10	<0.008	-
11	291762	<5	15	-	80	-	-	2	<0.008	-
12	291763	5	75	-	165	-	-	4	<0.008	-
13	291764	10	150	-	720	-	-	10	<0.008	-
14	291765	<5	<5	-	65	-	-	2	0.010	-
15	291766	5	25	-	70	-	-	3	<0.008	-
16	291767	5	<5	-	30	-	-	3	<0.008	-
17	291768	5	5	-	40	-	-	4	<0.008	-
18	291769	<5	<5	-	40	-	-	3	<0.008	-
19	291770	<5	<5	-	45	-	-	3	<0.008	-
20	291771	<5	15	-	45	-	-	3	<0.008	<0.008
21	291772	10	<5	-	135	-	-	4	<0.008	-
22	291773	<5	<5	-	20	-	-	3	<0.008	-
23	291774	5	<5	-	35	-	-	3	<0.008	<0.008
24	291775	<5	5	-	40	-	-	3	<0.008	-
25	291776	5	<5	-	40	-	-	3	<0.008	-

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5752	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291777	<5	5	-	35	-	-	2	<0.008	-
2	291778	<5	<5	-	25	-	-	3	<0.008	-
3	291779	<5	10	-	35	-	-	2	<0.008	-
4	291780	10	120	-	185	-	-	4	<0.008	-
5	291781	<5	30	-	100	-	-	3	<0.008	-
6	291782	5	30	-	165	-	-	4	<0.008	-
7	291783	<5	20	-	30	-	-	3	<0.008	-
8	291784	<5	<5	-	40	-	-	4	<0.008	<0.008
9	291785	<5	<5	-	35	-	-	1	<0.008	-
10	291786	<5	<5	-	30	-	-	4	<0.008	-
11	291787	<5	<5	-	40	-	-	5	<0.008	-
12	291788	<5	<5	-	30	-	-	4	<0.008	-
13	291789	<5	10	-	40	-	-	5	<0.008	-
14	291790	<5	<5	-	50	-	-	3	<0.008	-
15	291791	<5	<5	-	30	-	-	3	<0.008	-
16	291792	<5	5	-	55	-	-	5	<0.008	-
17	291793	10	85	-	110	-	-	5	<0.008	-
18	291794	<5	90	-	60	-	-	4	<0.008	-
19	291795	5	10	-	50	-	-	4	<0.008	-
20	291796	<5	35	-	30	-	-	3	<0.008	-
21	291797	10	80	-	55	-	-	5	<0.008	-
22	291798	5	40	-	50	-	-	2	<0.008	-
23	291799	<5	15	-	45	-	-	1	<0.008	-
24	291801	<5	15	-	80	-	-	3	<0.008	<0.008
25	291802	<5	10	-	60	-	-	1	<0.008	-

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5753	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291803	<5	25	–	95	–	–	3	<0.008	–
2	291804	10	15	–	260	–	–	<1	<0.008	–
3	291805	10	90	–	55	–	–	<1	<0.008	–
4	291806	5	<5	–	25	–	–	<1	<0.008	–
5	291807	5	25	–	35	–	–	<1	<0.008	–
6	291808	10	80	–	80	–	–	<1	<0.008	–
7	291809	<5	10	–	35	–	–	<1	<0.008	–
8	291810	5	60	–	90	–	–	1	<0.008	–
9	291811	<5	<5	–	50	–	–	<1	<0.008	<0.008
10	291812	5	25	–	130	–	–	1	<0.008	–
11	291813	5	5	–	30	–	–	<1	<0.008	–
12	291814	5	10	–	30	–	–	<1	<0.008	–
13	291815	<5	15	–	35	–	–	1	<0.008	–
14	291816	<5	20	–	70	–	–	1	<0.008	–
15	291817	<5	<5	–	30	–	–	<1	<0.008	–
16	291818	<5	10	–	25	–	–	<1	<0.008	–
17	291819	5	75	–	30	–	–	2	<0.008	–
18	291820	<5	10	–	20	–	–	<1	<0.008	–
19	291821	<5	20	–	40	–	–	<1	<0.008	–
20	291822	<5	<5	–	40	–	–	<1	<0.008	–
21	291823	<5	10	–	35	–	–	<1	<0.008	–
22	291824	<5	15	–	180	–	–	<1	<0.008	<0.008
23	291825	<5	20	–	45	–	–	<1	<0.008	–
24	291826	10	40	–	55	–	–	<1	<0.008	–
25	291827	5	15	–	105	–	–	<1	<0.008	<0.008

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5754	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291828	<5	15	–	40	–	–	<1	<0.008	–
2	291829	<5	5	–	30	–	–	2	<0.008	–
3	291830	<5	5	–	30	–	–	2	<0.008	–
4	291831	<5	10	–	35	–	–	<1	<0.008	–
5	291832	5	15	–	35	–	–	<1	<0.008	–
6	291833	5	5	–	40	–	–	1	<0.008	–
7	291834	5	5	–	45	–	–	<1	0.110	–
8	291835	5	5	–	30	–	–	<1	<0.008	–
9	291836	<5	<5	–	35	–	–	2	<0.008	–
10	291837	5	15	–	25	–	–	<1	<0.008	–
11	291838	<5	5	–	45	–	–	16	<0.008	–
12	291839	55	5	–	400	–	–	20	<0.008	–
13	291840	<5	5	–	35	–	–	2	<0.008	–
14	291841	<5	15	–	35	–	–	2	<0.008	–
15	291842	5	5	–	50	–	–	<1	<0.008	–
16	291843	<5	15	–	35	–	–	<1	<0.008	–
17	291844	<5	10	–	55	–	–	<1	<0.008	–
18	291845	<5	10	–	55	–	–	<1	0.010	–
19	291846	<5	<5	–	30	–	–	<1	<0.008	–
20	291847	<5	35	–	40	–	–	1	<0.008	–
21	291848	5	30	–	110	–	–	6	<0.008	–
22	291849	10	175	–	110	–	–	30	<0.008	–
23	291850	<5	5	–	20	–	–	2	<0.008	–
24	291851	25	410	–	115	–	–	20	<0.008	<0.008
25	291852	<5	<5	–	20	–	–	1	<0.008	–

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
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– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5755	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291853	5	30	–	100	–	–	1	<0.008	–
2	291854	5	10	–	95	–	–	1	<0.008	–
3	291855	<5	55	–	150	–	–	1	<0.008	–
4	291856	55	190	–	305	–	–	5	<0.008	–
5	291857	10	15	–	885	–	–	6	<0.008	–
6	291858	5	540	–	720	–	–	5	<0.008	–
7	291859	<5	435	–	960	–	–	5	<0.008	–
8	291860	10	125	–	50	–	–	1	<0.008	–
9	291861	<5	5	–	25	–	–	1	<0.008	–
10	291862	5	5	–	35	–	–	2	<0.008	<0.008
11	291863	5	125	–	180	–	–	15	<0.008	–
12	291864	<5	<5	–	55	–	–	1	<0.008	–
13	291865	<5	<5	–	45	–	–	1	<0.008	–
14	291866	<5	<5	–	60	–	–	<1	<0.008	–
15	291867	<5	<5	–	65	–	–	<1	<0.008	–
16	291868	<5	<5	–	80	–	–	<1	0.010	–
17	291869	10	10	–	150	–	–	1	<0.008	–
18	291870	<5	5	–	105	–	–	<1	0.010	–
19	291871	20	50	–	85	–	–	1	<0.008	–
20	291872	<5	10	–	45	–	–	1	0.010	<0.008
21	291873	<5	40	–	200	–	–	1	<0.008	–
22	291874	45	520	–	1800	–	–	17	<0.008	–
23	291875	130	–	6.58	–	1.27	132	63	<0.008	–
24	291876	15	115	–	1350	–	–	34	<0.008	–
25	291877	<5	15	–	205	–	–	2	<0.008	–

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5756	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291878	<5	10	-	285	-	-	1	<0.008	-
2	291879	<5	5	-	180	-	-	1	<0.008	-
3	291880	<5	<5	-	125	-	-	1	<0.008	-
4	291881	<5	10	-	275	-	-	1	<0.008	-
5	291882	<5	10	-	110	-	-	3	<0.008	-
6	291883	<5	<5	-	40	-	-	1	<0.008	-
7	291884	<5	<5	-	50	-	-	4	<0.008	-
8	291885	<5	10	-	115	-	-	2	<0.008	-
9	291886	<5	10	-	70	-	-	1	<0.008	-
10	291887	<5	5	-	150	-	-	1	<0.008	-
11	291888	<5	15	-	335	-	-	2	<0.008	<0.008
12	291889	<5	5	-	110	-	-	2	<0.008	-
13	291890	<5	35	-	40	-	-	2	0.010	-
14	291891	50	220	-	1750	-	-	37	<0.008	-
15	291892	<5	45	-	490	-	-	3	<0.008	-
16	291893	830	-	1.10	-	1.67	10	39	0.030	-
17	291894	<5	<5	-	20	-	-	<1	<0.008	-
18	291895	<5	<5	-	10	-	-	<1	<0.008	-
19	291896	10	175	-	285	-	-	5	<0.008	-
20	291897	5	35	-	15	-	-	<1	<0.008	-
21	291898	<5	<5	-	20	-	-	<1	<0.008	<0.008
22	291899	<5	<5	-	10	-	-	<1	<0.008	-
23	291900	<5	<5	-	185	-	-	<1	<0.008	-
24	291901	<5	<5	-	170	-	-	<1	<0.008	-
25	291902	<5	<5	-	200	-	-	<1	<0.008	-

Results in ppm unless otherwise specified
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5757	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291903	<5	<5	–	120	–	–	<1	<0.008	–
2	291904	<5	15	–	265	–	–	<1	<0.008	–
3	291905	<5	<5	–	20	–	–	<1	<0.008	–
4	291906	<5	<5	–	25	–	–	<1	<0.008	–
5	291907	<5	<5	–	25	–	–	<1	<0.008	–
6	291908	25	15	–	740	–	–	3	<0.008	–
7	291909	5	<5	–	920	–	–	11	<0.008	–
8	291910	10	<5	–	155	–	–	20	<0.008	–
9	291911	5	<5	–	195	–	–	3	<0.008	–
10	291912	<5	<5	–	85	–	–	14	<0.008	–
11	291913	<5	40	–	95	–	–	3	<0.008	–
12	291914	<5	<5	–	35	–	–	6	<0.008	<0.008
13	291915	5	150	–	3050	–	–	18	<0.008	–
14	291916	30	345	–	1200	–	–	31	0.040	–
15	291917	<5	<5	–	135	–	–	5	<0.008	–
	291918	<5	<5	–	15	–	–	<1	<0.008	–
17	291919	5	<5	–	55	–	–	<1	<0.008	–
18	291920	<5	<5	–	10	–	–	<1	<0.008	–
19	291921	<5	30	–	175	–	–	5	<0.008	–
20	291922	<5	<5	–	25	–	–	1	<0.008	–
21	291923	<5	<5	–	80	–	–	2	<0.008	–
22	291924	<5	<5	–	10	–	–	<1	<0.008	<0.008
23	291925	5	<5	–	10	–	–	<1	<0.008	–
24	291926	<5	<5	–	25	–	–	<1	<0.008	–
25	291927	<5	<5	–	80	–	–	6	<0.008	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
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– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5758	OF 16

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	As	Au	AuChk
1	291928	<5	<5	-	15	-	-	11	<0.008	-
2	291929	10	<5	-	20	-	-	1	<0.008	-
3	291930	<5	<5	-	10	-	-	<1	<0.008	-
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	0.05	5	0.05	2	1	0.008	0.008
24	UNITS	PPM	PPM	%	PPM	%	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	101	104	104	114	309	309

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
I = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 5759	OF 16

TUBE No.	SAMPLE No.	Ba									
1	291752	708									
2	291753	445									
3	291754	899									
4	291755	804									
5	291756	545									
6	291757	594									
7	291758	866									
8	291759	681									
9	291760	1680									
10	291761	479									
11	291762	558									
12	291763	400									
13	291764	516									
14	291765	705									
15	291766	1000									
	291767	226									
17	291768	271									
18	291769	1290									
19	291770	658									
20	291771	1200									
21	291772	744									
22	291773	182									
23	291774	676									
24	291775	770									
25	291776	941									

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
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— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 57510	OF 16

TUBE No.	SAMPLE No.	Ba								
1	291777	477								
2	291778	127								
3	291779	706								
4	291780	870								
5	291781	597								
6	291782	668								
7	291783	555								
8	291784	866								
9	291785	786								
10	291786	878								
11	291787	1020								
12	291788	828								
13	291789	817								
14	291790	602								
15	291791	681								
16	291792	416								
17	291793	714								
18	291794	750								
19	291795	557								
20	291796	797								
21	291797	571								
22	291798	539								
23	291799	834								
24	291801	1060								
25	291802	532								

Results in ppm unless otherwise specified

T = element present but concentration too low to measure

N = element concentration is below detection limit

* = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 57511	OF 16

TUBE No.	SAMPLE No.	Ba									
1	291803	960									
2	291804	966									
3	291805	676									
4	291806	1020									
5	291807	973									
6	291808	790									
7	291809	728									
8	291810	648									
9	291811	1720									
10	291812	1290									
11	291813	1190									
12	291814	866									
13	291815	582									
14	291816	676									
15	291817	755									
	291818	423									
17	291819	380									
18	291820	476									
19	291821	743									
20	291822	756									
21	291823	1380									
22	291824	1120									
23	291825	1050									
24	291826	414									
25	291827	528									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 57512	OF 16

TUBE No.	SAMPLE No.	Ba									
1	291828	989									
2	291829	561									
3	291830	861									
4	291831	1210									
5	291832	934									
6	291833	739									
7	291834	843									
8	291835	1390									
9	291836	1090									
10	291837	1320									
11	291838	724									
12	291839	844									
13	291840	722									
14	291841	798									
15	291842	527									
	291843	570									
17	291844	673									
18	291845	397									
19	291846	553									
20	291847	386									
21	291848	977									
22	291849	837									
23	291850	704									
24	291851	729									
25	291852	886									

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 57513	16 OF

TUBE No.	SAMPLE No.	Ba									
1	291853	922									
2	291854	1090									
3	291855	789									
4	291856	1260									
5	291857	807									
6	291858	813									
7	291859	1200									
8	291860	2200									
9	291861	1540									
10	291862	1170									
11	291863	461									
12	291864	503									
13	291865	616									
14	291866	602									
15	291867	612									
	291868	782									
17	291869	937									
18	291870	950									
19	291871	510									
20	291872	899									
21	291873	1480									
22	291874	1850									
23	291875	2520									
24	291876	1770									
25	291877	782									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER

333

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

743404

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05066	14/04/88	E00325 DN 57514	OF 16

TUBE No.	SAMPLE No.	Ba								
1	291878	585								
2	291879	619								
3	291880	574								
4	291881	713								
5	291882	405								
6	291883	722								
7	291884	794								
8	291885	662								
9	291886	784								
10	291887	524								
11	291888	763								
12	291889	1070								
13	291890	1400								
14	291891	1680								
15	291892	1410								
	291893	1870								
17	291894	1080								
18	291895	1390								
19	291896	1120								
20	291897	890								
21	291898	1220								
22	291899	1360								
23	291900	492								
24	291901	869								
25	291902	583								

Results in ppm unless otherwise specified
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X = element concentration is below detection limit
– = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743405

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
334	7.5.08.05066	14/04/88	E00325 DN 57515	16 OF

TUBE No.	SAMPLE No.	Ba								
1	291903	538								
2	291904	855								
3	291905	509								
4	291906	1130								
5	291907	2210								
6	291908	1560								
7	291909	1120								
8	291910	1420								
9	291911	794								
10	291912	986								
11	291913	1160								
12	291914	705								
13	291915	1100								
14	291916	1150								
15	291917	1170								
	291918	1370								
17	291919	1060								
18	291920	859								
19	291921	1710								
20	291922	1110								
21	291923	799								
22	291924	642								
23	291925	158								
24	291926	684								
25	291927	784								

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
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– = element not determined

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743406

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
333	7.5.08.05066	14/04/88	E00325 DN 57516	OF 16

TUBE No.	SAMPLE No.	Ba
1	291928	506
2	291929	652
3	291930	380
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
17		
18		
19		
20		
21		
22		
23	DETECTION	10
24	UNITS	PPM
25	METHOD	401

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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743407

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999 52 Murray Road, Welshpool, W.A. 6106 Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAMP		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	*atomic absorbtion*	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	*HF mixture*	A6	*ignition*	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743408

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05079	08/02/88	E00389 DN 57571	OF 5

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Au(2)	Au(3)	Ba	
1	290112	5	10	90	<1	0.040	-	-	361	
2	290113	<5	10	130	<1	0.030	-	-	324	
3	290114	<5	40	630	<1	<0.008	-	-	629	
4	290115	35	360	300	<1	<0.008	-	-	601	
5	290116	20	650	1150	<1	<0.008	-	-	669	
6	290117	<5	5	25	<1	<0.008	-	-	680	
7	290118	<5	50	75	<1	<0.008	<0.008	-	620	
8	290119	<5	<5	20	<1	<0.008	-	-	811	
9	290120	<5	20	25	<1	<0.008	-	-	743	
10	290121	5	670	330	1	0.050	-	-	640	
11	290122	15	165	15	<1	<0.008	-	-	618	
12	290123	<5	110	95	<1	<0.008	-	-	687	
13	290124	25	160	45	<1	0.060	-	-	856	
14	290125	<5	<5	20	<1	0.160	-	-	759	
15	290126	10	<5	20	<1	0.010	-	-	1210	
16	290127	<5	<5	15	<1	<0.008	-	-	767	
17	290128	5	40	25	<1	<0.008	-	-	1200	
18	290129	10	255	40	<1	<0.008	-	-	1040	
19	290130	5	20	20	<1	0.010	-	-	838	
20	290131	<5	<5	15	<1	<0.008	-	-	828	
21	290132	<5	5	20	<1	<0.008	-	-	1150	
22	290133	<5	215	175	4	<0.008	-	-	636	
23	290134	10	10	20	<1	<0.008	-	-	441	
24	290135	140	190	285	28	<0.008	<0.008	-	1440	
25	290136	5	80	40	5	<0.008	-	-	551	

Results in ppm unless otherwise specified.
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743409

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05079	08/02/88	E00389 DN 57572	OF 5

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Au(2)	Au(3)	Ba	
1	290137	5	210	290	3	0.010	-	-	715	
2	290138	<5	<5	15	<1	<0.008	-	-	916	
3	290139	<5	10	35	<1	<0.008	-	-	1220	
4	290140	<5	<5	20	<1	<0.008	-	-	675	
5	290141	<5	<5	20	<1	<0.008	-	-	1060	
6	290142	10	<5	25	<1	<0.008	-	-	582	
7	290143	<5	15	20	<1	<0.008	-	-	812	
8	290144	<5	45	20	<1	<0.008	-	-	922	
9	290145	5	50	30	1	<0.008	-	-	891	
10	290146	<5	75	30	1	<0.008	-	-	1090	
11	290147	5	200	410	8	<0.008	-	-	684	
12	290148	<5	10	15	<1	<0.008	-	-	829	
13	290149	<5	<5	10	1	<0.008	-	-	699	
14	290150	90	425	2750	1	<0.008	-	-	1240	
15	290151	<5	50	35	<1	<0.008	-	-	621	
16	290152	<5	<5	15	<1	0.050	-	-	613	
17	290153	<5	5	40	<1	0,040	-	-	1280	
18	290154	10	<5	155	<1	0.050	-	-	671	
19	290155	<5	40	30	<1	0.070	-	-	607	
20	290156	<5	30	20	<1	<0.008	-	-	741	
21	290157	<5	15	25	1	<0.008	-	-	849	
22	290158	5	30	30	<1	0.070	-	-	1090	
23	290159	5	70	30	<1	0.080	-	-	1020	
24	290160	10	190	380	4	0.040	-	-	905	
25	290161	20	60	75	<1	0.050	0.030	-	772	

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E00389

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743410

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05079	08/02/88	E00389 DN 57573	OF 5

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Au(2)	Au(3)	Ba	
1	290162	<5	20	30	<1	<0.008	-	-	1070	
2	290163	<5	5	40	<1	0.120	-	-	853	
3	290164	5	10	25	<1	0.050	-	-	1230	
4	290165	5	15	25	<1	0.050	-	-	642	
5	290166	<5	10	15	<1	0.070	-	-	860	
6	290167	<5	15	25	<1	0.050	-	-	518	
7	290168	<5	40	115	1	0.050	-	-	461	
8	290169	<5	20	25	<1	0.030	-	-	919	
9	290170	5	30	65	2	2.390	1.750	11.890	574	
10	290171	40	400	1100	6	0.030	0.050	-	727	
11	290172	5	5	15	1	0.140	-	-	577	
12	290173	5	15	65	2	<0.008	-	-	420	
13	290174	<5	10	15	<1	<0.008	-	-	585	
14	290175	<5	10	25	<1	<0.008	-	-	1810	
15	290176	<5	25	35	<1	<0.008	-	-	1470	
16	290177	<5	<5	15	<1	0.070	-	-	589	
17	290178	<5	5	40	<1	0.130	-	-	711	
18	290179	<5	5	15	<1	<0.008	-	-	583	
19	290180	10	65	95	<1	0.390	-	-	691	
20	290181	<5	5	15	<1	0.160	-	-	669	
21	290182	<5	60	20	<1	0.060	-	-	1150	
22	290183	<5	50	100	<1	<0.008	-	-	983	
23	290184	<5	30	15	<1	0.480	-	-	645	
24	290185	5	25	525	2	0.080	-	-	460	
25	290186	<5	5	15	<1	0.200	-	-	896	

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743411

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05079	08/02/88	E00389 DN 57574	OF 5

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Au(2)	Au(3)	Ba	
1	290187	<5	10	15	<1	0.060	-	-	726	
2	290188	<5	5	30	<1	0.160	-	-	949	
3	290189	<5	5	30	<1	0.220	-	-	894	
4	290190	<5	<5	15	<1	<0.008	-	-	430	
5	290191	<5	5	20	<1	<0.008	-	-	822	
6	290192	5	5	15	<1	<0.008	-	-	511	
7	290193	<5	5	35	<1	<0.008	-	-	576	
8	290194	<5	5	20	1	<0.008	-	-	861	
9	290195	<5	<5	20	2	<0.008	-	-	762	
10	290196	<5	<5	10	2	<0.008	-	-	620	
11	290197	<5	<5	10	1	<0.008	-	-	672	
12	290198	<5	10	20	2	<0.008	-	-	397	
13	290199	<5	10	15	<1	<0.008	-	-	690	
14	290200	<5	5	30	<1	<0.008	-	-	633	
15	290201	<5	10	10	<1	<0.008	-	-	650	
16	290202	15	60	25	<1	<0.008	-	-	818	
17	290203	<5	10	20	<1	<0.008	-	-	463	
18	290204	<5	25	20	<1	0.010	-	-	841	
19	290205	<5	20	15	<1	0.020	-	-	342	
20	290206	5	40	105	1	<0.008	-	-	713	
21	290207	<5	<5	10	<1	<0.008	-	-	396	
22	291751	<5	20	145	<1	0.010	-	-	572	
23	291800	<5	<5	15	<1	<0.008	-	-	693	
24	291931	10	35	85	<1	<0.008	-	-	584	
25	291932	<5	5	15	<1	<0.008	-	-	611	

Results in ppm unless otherwise specified
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743412

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05079	08/02/88	E00389 DN 57575	OF 5

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Au(2)	Au(3)	Ba	
1	291933	5	65	70	<1	<0.008	-	-	596	
2	291934	10	210	170	<1	<0.008	-	-	409	
3	291935	<5	<5	10	<1	<0.008	-	-	575	
4	291936	<5	45	50	<1	<0.008	-	-	627	
5	291937	<5	20	15	<1	0.360	-	-	549	
6	291938	5	30	75	<1	<0.008	-	-	675	
7	291939	5	10	75	<1	<0.008	-	-	703	
8	291940	<5	30	25	<1	<0.008	-	-	633	
9	291941	<5	5	15	<1	<0.008	-	-	729	
10	291942	<5	60	20	<1	<0.008	-	-	545	
11	291943	15	575	795	5	<0.008	-	-	534	
12	291944	<5	5	10	<1	<0.008	-	-	433	
13	291945	<5	5	15	<1	<0.008	-	-	1210	
14	291946	<5	<5	25	<1	<0.008	-	-	695	
15	291947	<5	10	15	<1	<0.008	-	-	548	
16	291948	<5	45	30	<1	<0.008	-	-	810	
17	291949	5	70	40	<1	<0.008	-	-	586	
18	291950	<5	10	10	<1	<0.008	-	-	480	
19										
20										
21										
22										
23	DETECTION	5	5	5	1	0.008	0.008	0.008	10	
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD	101	101	101	114	309	309	309	401	

Results in ppm unless otherwise specified
T = element present: but concentration too low to measure
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* = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743413

202

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05094	04/02/88	E00391	1 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	290208	5	<5	25	2	<0.008	577			
2	290209	<5	15	10	<1	<0.008	424			
3	290210	5	85	25	1	<0.008	524			
4	290211	5	5	10	1	<0.008	634			
5	290212	5	15	25	<1	<0.008	560			
6	290213	5	10	20	1	<0.008	730			
	290214	10	50	140	9	<0.008	772			
8	290215	<5	<5	15	1	<0.008	481			
9	290216	15	25	15	1	<0.008	469			
10	290217	5	5	15	1	<0.008	670			
11	290218	5	<5	10	<1	<0.008	656			
12	290219	<5	5	5	<1	<0.008	571			
13	290220	10	<5	10	1	<0.008	833			
14	290221	5	155	60	40	<0.008	333			
15	290222	<5	<5	15	1	<0.008	537			
	290223	<5	5	10	<1	<0.008	796			
17	290224	10	45	25	3	<0.008	863			
18	290225	5	5	10	<1	<0.008	640			
19	290226	<5	5	15	<1	<0.008	749			
20	290227	5	10	15	<1	<0.008	609			
21	290228	5	30	20	2	<0.008	776			
22	290230	5	25	15	1	<0.008	961			
23	290231	5	20	10	1	<0.008	715			
24	290232	15	35	60	<1	<0.008	549			
25	290233	10	5	15	<1	<0.008	1190			

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743414

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05094	04/02/88	E00391	2 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	290234	<5	<5	10	<1	0.050	402	✓		
2	290235	<5	<5	10	<1	<0.008	573	✓		
3	290236	<5	<5	15	<1	<0.008	592	✓		
4	290237	<5	<5	10	<1	<0.008	455	✓		
5	290238	<5	<5	10	<1	<0.008	512	✓		
6	290239	<5	<5	5	<1	<0.008	446			
○	290240	<5	<5	10	<1	<0.008	448			
8	290241	5	<5	10	<1	<0.008	385			
9	290242	5	<5	15	<1	<0.008	892			
10	290243	<5	<5	15	<1	<0.008	825			
11	290244	<5	5	10	<1	<0.008	407			
12	290245	<5	<5	5	<1	<0.008	349			
13	290246	<5	<5	10	<1	<0.008	352			
14	290247	<5	<5	10	<1	<0.008	452	✓		
15	290248	<5	<5	15	<1	<0.008	547			
○	290249	<5	<5	10	<1	<0.008	426			
17	290250	<5	<5	5	<1	<0.008	450			
18	291967	<5	<5	5	<1	<0.008	627			
19	291968	<5	<5	5	<1	<0.008	483			
20	291969	5	5	15	<1	<0.008	553			
21	291970	5	<5	5	<1	<0.008	739			
22	291971	5	<5	10	<1	<0.008	505	T		
23	291972	<5	<5	10	<1	<0.008	668			
24	291973	<5	10	25	<1	<0.008	389			
25	291974	<5	<5	5	<1	<0.008	560	✓		

Results in ppm unless otherwise specified
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A Division of Macdonald Hamilton & Co. Pty Ltd.

743415

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	7.5.08.05094	04/02/88	E00391	3 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	291975	<5	<5	5	<1	<0.008	563			
2	291976	<5	<5	10	<1	<0.008	610			
3	291977	<5	5	5	<1	<0.008	561			
4	291978	<5	<5	5	<1	<0.008	520			
5	291979	<5	<5	10	<1	<0.008	530			
6	291980	<5	<5	10	<1	<0.008	752			
	291981	<5	<5	10	<1	<0.008	368			
8	291982	<5	<5	10	<1	<0.008	486			
9	291983	<5	<5	<5	<1	<0.008	280			
10	291984	<5	5	20	<1	<0.008	458			
11	291985	<5	<5	15	<1	<0.008	475			
12	291986	<5	<5	15	<1	<0.008	368			
13	291987	5	<5	5	<1	<0.008	399			
14	291988	<5	<5	5	<1	<0.008	456			
15	291989	5	<5	5	<1	<0.008	464			
	291990	<5	<5	5	<1	<0.008	431			
17	291991	5	<5	10	<1	<0.008	482			
18	291992	<5	<5	10	<1	<0.008	572			
19	291993	<5	<5	10	<1	<0.008	520			
20	291994	<5	5	5	<1	<0.008	358			
21	291995	5	<5	10	<1	<0.008	436			
22	291996	<5	5	10	<1	<0.008	515			
23	291997	<5	<5	15	<1	<0.008	461			
24	291998	<5	5	10	<1	<0.008	470			
25	291999	<5	<5	10	<1	<0.008	427			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743416

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05094	04/02/88	E00391	4 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	292000	<5	<5	10	<1	<0.008	420			
2	292001	<5	<5	10	<1	<0.008	410			
3	292002	<5	<5	10	<1	<0.008	696			
4	292003	<5	<5	10	<1	<0.008	822			
5	292004	10	35	10	1	<0.008	912			
6	292005	5	10	15	1	<0.008	992			
	292006	5	<5	5	1	<0.008	561			
8	292007	10	75	40	1	<0.008	1080			
9	292008	5	5	5	<1	<0.008	499			
10	292009	10	15	25	9	<0.008	1270			
11	292010	10	70	10	6	<0.008	912			
12	292011	5	<5	5	<1	<0.008	307			
13	292012	5	<5	5	<1	<0.008	181			
14	292013	20	20	65	19	<0.008	429			
15	292014	35	20	60	6	<0.008	1190			
	292015	10	10	5	6	<0.008	290			
17	292016	10	55	35	7	<0.008	913			
18	292017	<5	20	20	8	<0.008	392			
19	292018	<5	25	15	1	<0.008	759			
20	292019	<5	25	10	<1	<0.008	1340			
21	292020	5	15	15	<1	<0.008	448			
22	292021	5	40	10	<1	<0.008	1150			
23	292022	<5	15	10	<1	<0.008	934			
24	292023	<5	5	15	<1	<0.008	672			
25	292024	<5	15	5	<1	<0.008	535			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743417

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05094	04/02/88	E00391	5 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	292025	<5	15	10	<1	<0.008	641			
2	292026	10	25	50	16	<0.008	718			
3	292027	<5	<5	5	<1	<0.008	292			
4	292028	<5	<5	10	<1	<0.008	381			
5	292029	<5	<5	5	<1	<0.008	370			
6	292030	<5	5	10	<1	<0.008	386			
7	292031	<5	5	5	<1	0.110	300			
8	292032	<5	5	10	<1	<0.008	415			
9	292033	<5	5	15	<1	<0.008	747			
10	292034	<5	5	10	<1	<0.008	573			
11	292035	<5	<5	<5	<1	<0.008	486			
12	292036	5	<5	<5	<1	<0.008	292			
13	292037	<5	<5	5	1	<0.008	442			
14	292038	<5	<5	5	1	<0.008	438			
15	292039	<5	5	<5	<1	<0.008	392			
16	292040	<5	<5	5	1	<0.008	592			
17	292041	<5	<5	5	1	<0.008	653			
18	292042	<5	<5	5	1	<0.008	511			
19	292043	<5	5	5	2	<0.008	349			
20	292044	<5	<5	15	1	<0.008	674			
21	292045	<5	5	10	1	<0.008	452			
22	292046	<5	<5	5	1	<0.008	481			
23	292047	<5	<5	5	1	<0.008	559			
24	292048	<5	<5	5	1	<0.008	444			
25	292049	<5	10	5	1	0.010	1070			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743418

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05094	04/02/88	E00391	6 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	Ba			
1	292050	<5	10	5	1	<0.008	708			
2	292051	<5	10	<5	1	<0.008	611			
3	292052	<5	<5	5	<1	<0.008	682			
4	292053	<5	<5	<5	1	<0.008	580			
5	292054	<5	<5	5	1	<0.008	621			
6	292055	<5	<5	<5	1	<0.008	489			
7	292056	<5	<5	<5	1	<0.008	556			
8	292057	<5	<5	5	1	<0.008	529			
9	292058	<5	<5	<5	1	<0.008	666			
10	292059	<5	<5	10	1	<0.008	943			
11	292060	<5	<5	5	1	<0.008	568			
12	292061	5	5	10	2	<0.008	495			
13	292062	<5	<5	5	2	<0.008	611			
14	292063	10	<5	10	<1	<0.008	487			
15	292064	10	<5	5	<1	<0.008	677			
16	292065	10	<5	45	1	<0.008	689			
17	292066	5	<5	15	2	<0.008	441			
18	292067	<5	5	10	<1	<0.008	728			
19	292068	<5	<5	10	1	<0.008	748			
20	292069	<5	<5	10	<1	<0.008	713			
21	292070	<5	<5	10	1	<0.008	610			
22										
23	DETECTION	5	5	5	1	0.008	10			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	309	401			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743419

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4		5	20

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS		
RL BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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743420

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05107	04/02/88	E00395	1 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	AuChk
1	292071	<5	<5	-	65	-	-	<100	<0.005	-
2	292072	<5	<5	-	20	-	-	<100	<0.005	-
3	292073	<5	<5	-	20	-	-	<100	<0.005	-
4	292074	<5	<5	-	20	-	-	<100	<0.005	-
5	292075	<5	<5	-	20	-	-	<100	<0.005	<0.005
6	292076	10	<5	-	10	-	-	<100	0.005	-
7	292077	<5	<5	-	10	-	-	<100	0.015	-
8	292078	<5	<5	-	10	-	-	<100	<0.005	-
9	292079	<5	<5	-	10	-	-	<100	0.005	-
10	292080	<5	<5	-	5	-	-	<100	<0.005	-
11	292081	<5	<5	-	10	-	-	<100	0.040	-
12	292082	<5	<5	-	15	-	-	<100	0.010	-
13	292083	<5	<5	-	15	-	-	<100	0.030	-
14	292084	<5	<5	-	15	-	-	<100	0.010	-
15	292085	<5	<5	-	40	-	-	<100	<0.005	-
16	292086	<5	<5	-	15	-	-	<100	0.010	-
17	292087	10	<5	-	20	-	-	<100	0.015	-
18	292088	<5	<5	-	10	-	-	<100	0.010	-
19	292089	<5	<5	-	10	-	-	<100	0.010	-
20	292090	<5	<5	-	15	-	-	<100	0.010	0.010
21	292091	<5	<5	-	15	-	-	<100	0.050	-
22	292092	<5	<5	-	10	-	-	<100	<0.005	-
23	292093	<5	<5	-	15	-	-	<100	<0.005	-
24	292094	<5	<5	-	10	-	-	<100	0.065	-
25	292095	<5	<5	-	20	-	-	<100	0.030	✓

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743421

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05107	04/02/88	E00395	2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	AuChk
1	292151	175	50	–	50	<0.5	–	250	<0.005	–
2	292152	175	45	–	45	<0.5	–	110	<0.005	–
3	292153	90	55	–	40	<0.5	–	260	0.015	–
4	292154	120	330	–	35	10.5	–	1400	0.025	–
5	292155	245	290	–	50	5.0	–	1000	0.380	0.350
6	292156	305	470	–	35	1.5	–	950	0.060	–
7	292157	740	–	4400	360	–	29	5200	0.155	–
8	292158	215	510	–	25	3.5	–	1400	0.040	–
9	292159	120	315	–	20	2.0	–	830	0.010	–
10	292160	105	175	–	30	2.5	–	850	0.035	–
11	292161	155	295	–	35	2.0	–	940	0.060	–
12	292162	185	45	–	30	1.0	–	670	0.010	–
13	292163	225	215	–	45	5.5	–	1000	0.040	–
14	292164	365	315	–	60	4.5	–	1200	0.190	–
15	292165	755	385	–	70	–	6	1700	0.070	–
16	292166	250	40	–	25	0.5	–	460	0.010	–
17	292167	150	45	–	20	1.5	–	340	<0.005	–
18	292168	435	55	–	25	1.5	–	750	0.010	–
19	292169	465	80	–	20	6.0	–	740	0.015	–
20	292170	465	180	–	20	3.5	–	1100	0.025	–
21	292171	945	370	–	65	5.5	–	3300	0.155	0.180
22	292172	915	345	–	65	–	26	1900	0.050	–
23	292173	935	160	–	55	6.0	–	2700	0.010	–
24	292174	970	365	–	70	–	26	2200	0.080	–
25	292175	150	40	–	15	1.0	–	370	<0.005	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
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– = element not determined

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743422

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05107	04/02/88	E00395	3 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	AuChk
1	292176	210	200	–	25	2.0	–	730	0.050	–
2	292177	260	70	–	20	3.0	–	490	0.010	–
3	292178	4500	220	–	75	7.0	–	880	0.015	–
4	292179	315	45	–	15	1.0	–	130	<0.005	–
5	292180	340	110	–	15	2.0	–	220	<0.005	–
6	292181	525	110	–	30	2.5	–	510	0.010	–
7	292182	740	150	–	50	2.0	–	370	0.010	–
8	292201	<5	<5	–	10	–	–	<100	<0.005	–
9	292202	<5	<5	–	10	–	–	<100	<0.005	–
10	292203	<5	<5	–	10	–	–	<100	<0.005	–
11	292204	<5	<5	–	10	–	–	<100	<0.005	<0.005
12	292205	<5	<5	–	10	–	–	<100	<0.005	–
13	292206	<5	<5	–	10	–	–	<100	<0.005	–
14	292207	<5	<5	–	10	–	–	<100	<0.005	–
15	292208	<5	<5	–	20	–	–	<100	<0.005	–
16	292209	<5	<5	–	10	–	–	<100	<0.005	–
17	292210	<5	<5	–	25	–	–	<100	<0.005	–
18	292211	<5	<5	–	10	–	–	<100	<0.005	–
19	292212	<5	<5	–	5	–	–	<100	<0.005	–
20	292213	<5	<5	–	15	–	–	<100	<0.005	–
21	292214	<5	<5	–	10	–	–	<100	<0.005	–
22	292215	<5	<5	–	15	–	–	<100	<0.005	–
23	292216	<5	<5	–	20	–	–	<100	<0.005	–
24	292217	<5	<5	–	30	–	–	<100	<0.005	–
25	292218	<5	<5	–	10	–	–	<100	<0.005	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743423

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05107	04/02/88	E00395	4 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	AuChk
1	292219	<5	<5	–	10	–	–	<100	<0.005	–
2	292221	<5	<5	–	10	–	–	<100	<0.005	–
3	292222	<5	<5	–	15	–	–	<100	<0.005	–
4	292223	<5	<5	–	10	–	–	<100	0.015	–
5	292224	<5	5	–	15	–	–	<100	<0.005	–
6	292225	<5	<5	–	10	–	–	<100	<0.005	–
7	292226	<5	<5	–	10	–	–	<100	<0.005	–
8	292227	<5	<5	–	10	–	–	<100	0.005	–
9	292228	5	<5	–	5	–	–	<100	<0.005	–
10	292229	80	355	–	140	–	–	<100	<0.005	–
11	292230	5	<5	–	10	–	–	<100	<0.005	–
12	292231	<5	<5	–	10	–	–	<100	<0.005	–
13	292232	<5	<5	–	5	–	–	<100	<0.005	–
14	292233	<5	<5	–	5	–	–	<100	<0.005	–
15	292234	5	<5	–	10	–	–	<100	<0.005	–
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	25	5	0.5	2	100	0.005	0.005
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	101	101	104	101	313	313

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALABS

743424

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAM	PRE-TREATMENT								ANALYSIS			
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
		SO									
		SO									
		SO									

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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743425

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05111	05/02/88	E 00398	1 OF 1

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	292096	<5	<5	25	<1	0.025	-	1		
2	292097	<5	<5	20	2	<0.005	-			
3	292098	10	5	60	3	<0.005	-	V24		
4	292099	<5	<5	15	3	<0.005	<0.005			
5	292100	<5	<5	15	6	<0.005	-	↓		
6	292235	<5	<5	35	5	<0.005	-			
7	292236	<5	15	15	3	<0.005	-			
8	292237	<5	<5	15	2	<0.005	-			
9	292238	15	35	20	5	<0.005	-	7		
10	292239	<5	<5	10	2	<0.005	-	.		
11	292240	<5	<5	15	2	<0.005	<0.005			
12	292241	<5	<5	10	2	<0.005	-			
13	292242	<5	<5	15	3	<0.005	-			
14	292246	70	1450	95	6300	1.740	1.660			
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	1	0.005	0.005			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	313	313			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALABS

743426

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FAX: 004 31 8870

ANALYTICAL REPORT No. [illegible]

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

R. Pollock
Cyprus Minerals
P.O. Box [illegible]
Zeehan
Tasmania [illegible]

ORDER No.	PROJECT
[illegible]	

DATE RECEIVED	RESULTS REQUIRED
[illegible]	[illegible]

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES
4	20/02/88	1	20

ST. OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	29280/300,29280[illegible]/17	DE	Prep: 006,010,012,014,016						Cu,Pb,Zn,Ag,Fe,Mn		
	29283/300,29280[illegible]/17	DE							Au,S		
	29283/300,29280[illegible]/17	DE	Prep: 006,010,012,014,016						Cu,Pb,Zn,Ag,Fe,Mn,As		

RESULTS TO

R. Rosbergen
Cyprus Minerals
P.O. Box 402
North Sydney
N.S.W. 2060

RESULTS TO

R. Pollock
Cyprus Minerals
P.O. Box [illegible]
Zeehan
Tasmania [illegible]

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

743427

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05120	15/02/88	E00399	1 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As
1	292183	135	–	135	–	100	–	<0.5	–	400
2	292184	200	–	380	–	85	–	1.0	–	800
3	292185	70	–	155	–	125	–	<0.5	–	100
4	292186	80	–	60	–	45	–	1.0	–	<100
5	292187	235	–	125	–	70	–	<0.5	–	600
6	292188	120	–	140	–	55	–	<0.5	–	<100
7	292189	280	–	145	–	80	–	1.5	–	100
8	292190	195	–	135	–	75	–	1.0	–	300
9	292191	200	–	540	–	80	–	1.0	–	700
10	292192	230	–	385	–	110	–	2.5	–	700
11	292193	200	–	180	–	105	–	0.5	–	400
12	292194	470	–	665	–	190	–	1.0	–	1000
13	292195	255	–	360	–	85	–	1.5	–	300
14	292196	155	–	270	–	80	–	<0.5	–	100
15	292197	100	–	225	–	50	–	1.0	–	<100
16	292198	1850	–	275	–	85	–	<0.5	–	700
17	292199	730	–	445	–	100	–	0.5	–	200
18	292200	7250	–	900	–	185	–	4.5	–	3800
19	292801	2300	–	135	–	60	–	1.0	–	200
20	292802	1200	–	120	–	55	–	<0.5	–	100
21	292803	715	–	330	–	45	–	3.0	–	500
22	292804	255	–	245	–	40	–	<0.5	–	<100
23	292805	1300	–	360	–	40	–	0.5	–	200
24	292806	3700	–	1250	–	125	–	0.5	–	100
25	292807	570	–	545	–	305	–	2.5	–	1000

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05120	15/02/88	E00399	2 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As
1	292808	420	–	945	–	190	–	4.0	–	<100
2	292809	315	–	285	–	285	–	1.5	–	<100
3	292810	50	–	85	–	50	–	<0.5	–	<100
4	292811	90	–	365	–	115	–	0.5	–	<100
5	292812	100	–	200	–	120	–	1.0	–	<100
6	292813	175	–	145	–	100	–	0.5	–	200
7	292814	75	–	135	–	90	–	0.5	–	<100
8	292815	–	2075	–	2000	–	0.58	–	9	200
9	292816	180	–	55	–	110	–	<0.5	–	<100
10	292817	425	–	220	–	335	–	1.0	–	<100
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	25	5	25	5	0.05	0.5	2	100
24	UNITS	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
25	METHOD	101	104	101	104	101	104	101	104	101

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05120	15/02/88	E00399	3 OF 4

TUBE No.	SAMPLE No.	Au
1	292183	<0.005
2	292184	0.045
3	292185	<0.005
4	292186	<0.005
5	292187	0.010
6	292188	<0.005
7	292189	0.010
8	292190	0.005
9	292191	0.030
10	292192	0.050
11	292193	0.010
12	292194	0.050
13	292195	<0.005
14	292196	0.080
15	292197	0.030
16	292198	0.060
17	292199	0.030
18	292200	0.170
19	292801	0.010
20	292802	0.010
21	292803	0.010
22	292804	<0.005
23	292805	0.010
24	292806	<0.005
25	292807	0.045

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
---- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05120	15/02/88	E00399	4 OF 4

TUBE No.	SAMPLE No.	Ali									
1	292808	0.040									
2	292809	0.030									
3	292810	0.005									
4	292811	<0.005									
5	292812	<0.005									
6	292813	0.020									
7	292814	<0.005									
8	292815	0.170									
9	292816	0.010									
10	292817	<0.005									
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	0.005									
24	UNITS	PPM									
25	METHOD	313									

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
____ = element not determined

AUTHORISED OFFICER

420

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743431

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999
52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890
Telex AA92560

ANALYTICAL REPORT No. [illegible]

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

C. Torrey
Cyprus Minerals
P.O. Box 230,
Penhan
Tasmania 7469

ORDER No.	PROJECT
[illegible]	[illegible]

DATE RECEIVED	RESULTS REQUIRED
03/02/89	[illegible]

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
2	09/02/89	1	24

STATE OF SAMPLES	PRE-TREATMENT							ANALYSIS		
REF BELL.	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	[illegible]	RE Prep: 003,009,011,012,013,016							Cu,Pb,Zn/101,As/114		
	[illegible]	RE							Au/309		
	192790/800	35 Prep: 005,007							Cu,Pb,Zn/101,As/114		
	192790/800	59							Au/309		

RESULTS TO

R. Roxburgh
Cyprus Minerals
P.O. Box 695
North Sydney
N.S.W. 2060

RESULTS TO

C. Torrey
Cyprus Minerals
P.O. Box 230,
Penhan
Tasmania 7469

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743432

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05121	09/02/88	E00400	1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au
1	292101	10	55	145	6	<0.008
2	292102	10	15	10	<1	<0.008
3	292103	10	65	125	2	<0.008
4	292104	<5	<5	15	<1	<0.008
5	292105	<5	<5	20	<1	0.250
6	292106	<5	<5	15	<1	0.030
7	292107	<5	<5	10	<1	<0.008
8	292108	<5	40	10	1	0.130
9	292109	<5	<5	20	<1	0.030
10	292110	<5	15	15	<1	<0.008
11	292111	<5	15	10	<1	0.050
12	292247	<5	<5	<5	2	0.680
13	292248	25	75	160	22	0.240
14	292249	<5	<5	5	1	0.040
15	292250	<5	<5	<5	<1	0.070
16	292790	5	5	50	1	0.330
17	292791	<5	<5	15	<1	0.110
18	292792	<5	<5	10	<1	0.010
19	292793	10	<5	45	1	<0.008
20	292794	5	<5	20	<1	<0.008
21	292795	<5	<5	15	<1	0.040
22	292796	5	<5	20	<1	0.090
23	292797	<5	<5	10	<1	<0.008
24	292798	<5	<5	15	<1	0.570
25	292799	<5	<5	25	<1	0.130

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743433

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05121	09/02/88	E00400	2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au				
1	292800	<5	<5	15	<1	<0.008				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	1	0.008				
24	UNITS	PPM	PPM	PPM	PPM	PPM				
25	METHOD	101	101	101	114	309				

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743434

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999
52 Murray Road, Welshpool, W.A. 6106
Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STATE OF SAM' REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT: DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	ANALYSIS: REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES

whole core	WC
split core	SC
cutting	CU
rock	Ro
soil	SO
pulp	PU
water	WA
tissue	TI
stream sediment	SS
heavy mineral	HM

ANALYSIS — PREPARATION

perchloric acid	A1	cold acid	CA
hydrochloric acid	A2	specific sulphide	SS
nitric acid	A3	other mixed acids	Ma
aqua regia	A4	alkaline attack	AA
nitric-perchloric	A5	volatilization	VO
HF mixture	A6	ignition	IG
HF under pressure	A7	pressed powder (XRF)	PP
fusion	A8	glass fusion (XRF)	GF

ANALYSIS — METHOD

atomic absorbtion	AAS
x-ray fluorescence	XRF
spectrophotometry	SPEC
colorimetry	COL
chromatography	CHR
titration	TTN
other chemicals means	CHEM
miscellaneous	MISC
fluorescence	FLUOR
inductively coupled plasma	ICP

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743435

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05139	15/02/88	E03455	1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk		
1	292818	120	40	40	<0.5	200	<0.005	–		
2	292819	270	120	60	<0.5	300	<0.005	–		
3	292820	125	80	30	<0.5	600	0.015	–		
4	292821	95	55	30	<0.5	400	0.005	<0.005		
5	292822	55	100	25	<0.5	200	<0.005	–		
6	292823	200	120	30	0.5	700	0.010	–		
7	292824	220	170	40	2.0	600	0.010	–		
8	292825	1350	80	65	<0.5	100	0.035	–		
9	292826	80	70	20	<0.5	<100	<0.005	–		
10	292827	65	50	20	0.5	<100	0.010	–		
11	292828	135	295	80	<0.5	<100	0.005	–		
12	292829	70	155	40	<0.5	100	<0.005	–		
13	292830	90	255	55	<0.5	700	0.010	–		
14	292831	125	190	60	<0.5	100	0.015	–		
15	292832	95	150	40	<0.5	200	<0.005	–		
16	292833	125	280	70	<0.5	1000	0.050	0.075		
17	292834	100	240	55	<0.5	200	<0.005	–		
18	292835	120	175	60	<0.5	300	<0.005	–		
19	292836	145	320	75	<0.5	300	0.015	–		
20	292837	700	405	70	<0.5	1000	0.080	–		
21	292838	1950	720	210	5.0	2000	0.105	–		
22	292839	4200	1800	235	25.5	10000	0.450	–		
23	292840	165	75	20	<0.5	700	<0.005	–		
24	292841	195	115	30	<0.5	500	0.035	–		
25	292842	130	45	25	<0.5	300	0.005	–		

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743436

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05139	15/02/88	E03455	2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk		
1	292843	105	55	30	<0.5	200	<0.005	-		
2	292844	120	70	25	<0.5	200	0.025	-		
3	292845	90	110	20	<0.5	200	0.020	-		
4	292846	80	195	20	<0.5	100	0.020	-		
5	292847	960	285	70	<0.5	100	<0.005	-		
6	292848	2550	305	70	0.5	400	<0.005	-		
7	292849	3350	270	60	7.5	1300	0.050	-		
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	100	0.005	0.005		
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
25	METHOD	101	101	101	101	101	313	313		

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

426

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743437

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999
52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890
Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STA OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743438

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05145	16/02/88	E00329	1 OF 4

TUBE No.	SAMPLE No.	As	Au	AuChk						
1	TS 10282	7	<0.005	–						
2	TS 10283	<1	<0.005	–						
3	TS 10284	7	<0.005	–						
4	TS 10285	1	<0.005	–						
5	TS 10286	2	<0.005	–						
6	TS 10287	<1	<0.005	–						
7	TS 10288	<1	0.005	–						
8	TS 10289	<1	<0.005	–						
9	TS 10290	<1	<0.005	–						
10	TS 10291	<1	<0.005	–						
11	TS 10292	23	<0.005	–						
12	TS 10293	10	<0.005	–						
13	TS 10294	9	<0.005	–						
14	TS 10295	<1	<0.005	–						
15	TS 10296	<1	<0.005	–						
16	TS 10297	2	0.005	–						
17	TS 10298	<1	<0.005	0.005						
18	TS 10299	<1	<0.005	–						
19	TS 10300	<1	<0.005	–						
20	TS 10851	<1	<0.005	–						
21	TS 10852	<1	<0.005	–						
22	TS 10853	<1	<0.005	–						
23	TS 10854	<1	<0.005	–						
24	TS 10855	1	<0.005	–						
25	TS 10856	<1	<0.005	<0.005						

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743439

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05145	16/02/88	E00329	2 OF 4

TUBE No.	SAMPLE No.	As	Au	AuChk						
1	TS 10857	<1	<0.005	–						
2	TS 10858	34	<0.005	–						
3	TS 10859	5	<0.005	–						
4	TS 10860	3	<0.005	–						
5	TS 10861	3	<0.005	–						
6	TS 10862	<1	<0.005	–						
7	TS 10863	3	<0.005	<0.005						
8	TS 10864	3	<0.005	–						
9	TS 10865	8	<0.005	–						
10	TS 10866	4	<0.005	–						
11	TS 10898	29	<0.005	–						
12	TS 10899	35	<0.005	–						
13	TS 10900	8	<0.005	–						
14	TS 10901	13	<0.005	<0.005						
15	TS 10902	30	<0.005	–						
16	TS 10903	38	<0.005	–						
17	TS 10904	8	<0.005	–						
18	TS 10905	960	<0.005	–						
19	TS 10906	45	<0.005	–						
20	TS 10907	10	<0.005	–						
21	TS 10908	31	<0.005	–						
22	TS 10909	20	<0.005	–						
23	TS 10910	5	<0.005	–						
24	TS 10911	3	<0.005	–						
25	TS 10912	4	<0.005	–						

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743440

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05145	16/02/88	E00329	3 OF 4

TUBE No.	SAMPLE No.	As	Au	AuChk
1	TS 10913	3	<0.005	–
2	TS 10914	4	0.005	–
3	TS 10915	4	<0.005	–
4	TS 10916	7	<0.005	–
5	TS 10917	33	0.020	–
6	TS 10918	7	<0.005	–
7	TS 10919	8	<0.005	–
8	TS 10920	3	<0.005	–
9	TS 10921	3	<0.005	–
10	TS 10922	5	<0.005	–
11	TS 10923	3	<0.005	–
12	TS 10924	2	<0.005	–
13	TS 10925	4	<0.005	–
14	TS 10926	5	<0.005	–
15	TS 10927	3	<0.005	–
16	TS 10928	3	<0.005	–
17	TS 10929	3	<0.005	–
18	TS 10930	4	<0.005	–
19	TS 10931	5	<0.005	–
20	TS 10932	17	<0.005	–
21	TS 10933	8	<0.005	=
22	TS 10934	6	<0.005	–
23	TS 10935	3	<0.005	–
24	TS 10936	8	<0.005	–
25	TS 10937	5	<0.005	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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743441

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05145	16/02/88	E00329	4 OF

TUBE No.	SAMPLE No.	As	Au	AuChk						
1	TS 10938	3	<0.005	<0.005						
2	TS 10939	2	<0.005	–						
3	TS 10940	3	<0.005	–						
4	TS 10941	3	<0.005	–						
5	TS 10942	3	<0.005	–						
6	TS 10943	3	<0.005	<0.005						
7	TS 10944	2	<0.005	–						
8	TS 10945	7	<0.005	<0.005						
9	TS 10946	11	<0.005	–						
10	TS 10947	4	<0.005	–						
11	TS 10948	3	<0.005	–						
12	TS 10949	8	<0.005	–						
13	TS 10950	3	<0.005	–						
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	1	0.005	0.005						
24	UNITS	PPM	PPM	PPM						
25	METHOD	114	313	313						

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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743442

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STATE OF SAMP		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05152	18/02/88	E03503	1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	292243	10	10	30	11	<0.008	–			
2	292244	5	10	20	5	<0.008	–			
3	292245	10	<5	40	5	<0.008	–			
4	292901	<5	5	15	1	<0.008	–			
5	292902	5	<5	35	1	<0.008	–			
6	292903	<5	5	20	5	<0.008	–			
7	292904	<5	5	45	2	<0.008	–			
8	292905	<5	<5	15	1	<0.008	–			
9	292906	<5	5	30	2	<0.008	–			
10	292907	5	10	20	25	<0.008	<0.008			
11	292908	<5	30	30	28	<0.008	–			
12	292909	5	10	55	3	<0.008	–			
13	292910	<5	<5	15	2	<0.008	–			
14	292911	<5	5	10	2	<0.008	–			
15	292912	<5	<5	15	1	<0.008	–			
16	292913	<5	<5	10	<1	<0.008	–			
17	292914	<5	<5	10	<1	<0.008	–			
18	292915	<5	<5	10	1	<0.008	–			
19	292916	<5	<5	15	1	<0.008	–			
20	292917	<5	<5	10	1	<0.008	<0.008			
21	292918	<5	<5	20	1	<0.008	–			
22	292919	<5	<5	15	<1	<0.008	–			
23	292920	<5	<5	15	<1	<0.008	–			
24	292921	<5	<5	15	1	<0.008	–			
25	292922	<5	<5	20	1	<0.008	–			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05152	18/02/88	E03503	2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	292923	<5	<5	15	<1	<0.008	-			
2	292924	<5	<5	15	<1	<0.008	-			
3	292925	<5	<5	15	<1	<0.008	-			
4	292926	<5	<5	20	<1	<0.008	-			
5	292927	<5	<5	15	<1	<0.008	-			
◯	292928	5	<5	20	<1	<0.008	-			
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◯ 16										
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22										
23	DETECTION	5	5	5	1	0.008	0.008			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	309	309			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743445

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STATE OF SAMPLES	PRE-TREATMENT								ANALYSIS			
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES

whole core	WC
split core	SC
cutting	CU
rock	Ro
soil	SO
pulp	PU
water	WA
tissue	TI
stream sediment	SS
heavy mineral	HM

ANALYSIS — PREPARATION

perchloric acid	A1	cold acid	CA
hydrochloric acid	A2	specific sulphide	SS
nitric acid	A3	other mixed acids	Ma
aqua regia	A4	alkaline attack	AA
nitric-perchloric	A5	volatilization	VO
HF mixture	A6	ignition	IG
HF under pressure	A7	pressed powder (XRF)	PP
fusion	A8	glass fusion (XRF)	GF

ANALYSIS — METHOD

atomic absorbtion	AAS
x-ray fluorescence	XRF
spectrophotometry	SPEC
calorimetry	COL
chromatography	CHR
titration	TTN
other chemicals means	CHEM
miscellaneous	MISC
fluorescence	FLUOR
inductively coupled plasma	ICP

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

743446

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05155	19/02/88	E03504	1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ag	As	Au	AuRpt	
1	292850	1300	2200	90	3.5	–	3800	0.255	–	
2	292851	270	255	30	1.0	–	900	0.040	–	
3	292852	325	220	25	1.5	–	700	0.030	–	
4	292853	220	120	20	<0.5	–	300	<0.008	<0.008	
5	292854	715	355	35	1.0	–	700	<0.008	–	
6	292855	375	50	35	0.5	–	400	<0.008	–	
7	292856	800	260	35	5.5	–	1600	0.030	–	
8	292857	1010	355	35	5.5	–	1700	<0.008	–	
9	292858	1225	880	65	–	15	3300	<0.008	–	
10	292859	160	30	20	0.5	–	100	<0.008	–	
11	292860	170	35	30	<0.5	–	200	<0.008	–	
12	292861	65	35	25	2.5	–	<100	0.110	–	
13	292862	70	25	20	3.0	–	100	0.265	0.310	
14	292863	105	40	25	3.0	–	200	0.150	0.125	
15	292864	80	40	30	3.5	–	100	0.070	–	
16	292865	75	50	30	4.0	–	<100	<0.008	–	
17	292866	80	150	25	4.0	–	100	0.225	–	
18	292867	50	100	30	3.5	–	<100	<0.008	–	
19	292868	240	355	245	–	20	100	<0.008	–	
20	292869	145	485	55	–	20	700	0.030	–	
21	292870	240	465	40	–	10	900	0.030	–	
22	292871	115	220	30	2.5	–	300	<0.008	–	
23	292872	185	295	60	–	16	300	<0.008	–	
24	292873	110	195	70	–	19	100	<0.008	–	
25	292874	420	270	180	–	10	<100	<0.008	<0.008	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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743447

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	7.5.08.05155	19/02/88	E03504	2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ag	As	Au	AuRpt	
1	292875	440	260	130	4.0	-	<100	<0.008	-	
2	292876	145	400	470	1.5	-	<100	<0.008	<0.008	
3	292877	35	40	215	0.5	-	<100	<0.008	-	
4	292878	35	30	150	<0.5	-	<100	<0.008	-	
5	292879	40	25	70	<0.5	-	<100	<0.008	-	
6	292880	180	100	355	1.0	-	400	<0.008	-	
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21										
22										
23	DETECTION	5	5	5	0.5	2	100	0.008	0.008	
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD	101	101	101	101	104	101	313	313	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALABS

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REF. BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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743449

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05174	01/03/88	E03505	1 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	292113	10	340	–	490	–	3.0	–	200	0.010
2	292114	20	575	–	900	–	3.0	–	100	0.010
3	292115	215	–	0.57	–	1.43	–	18	200	0.060
4	292116	1200	–	3.40	–	10.67	–	52	300	0.275
5	292117	1700	–	1.24	–	2.96	–	23	400	0.200
6	292118	335	–	0.29	–	1.03	3.10	16	300	0.170
7	292119	1000	–	0.67	–	1.74	–	31	500	0.480
8	292120	950	–	1.65	–	3.57	–	31	200	0.190
9	292121	120	–	0.86	–	1.25	–	18	<100	0.040
10	292122	150	–	0.96	–	2.22	–	18	200	0.050
11	292881	5	65	–	155	–	1.0	–	<100	<0.005
12	292882	15	295	–	1250	–	2.0	–	<100	<0.005
13	292883	20	540	–	2600	–	3.0	–	<100	0.015
14	292884	80	–	0.34	–	0.71	–	15	<100	0.010
15	292885	10	50	–	180	–	2.0	–	100	<0.005
16	292886	10	70	–	180	–	2.0	–	100	<0.005
17	292887	20	155	–	420	–	2.0	–	<100	0.020
18	292888	10	35	–	80	–	1.0	–	100	0.015
19	292889	35	270	–	520	–	2.0	–	<100	0.010
20	292890	240	–	0.24	–	0.41	–	3	100	0.045
21	292891	10	30	–	75	–	<0.5	–	200	<0.005
22	292892	10	40	–	105	–	1.0	–	100	0.025
23	292893	5	40	–	45	–	2.0	–	100	<0.005
24	292894	160	–	0.37	–	0.83	–	3	200	0.035
25	292895	380	–	0.75	–	2.70	–	16	200	0.180

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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743450

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05174	01/03/88	E03505	2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	292896	60	380	-	1400	-	2.0	-	100	0.010
2	292897	60	700	-	2650	-	3.0	-	200	0.010
3	292898	55	800	-	2900	-	5.0	-	<100	0.010
4	292899	100	-	0.33	-	0.76	-	5	100	0.030
5	292900	10	80	-	120	-	2.0	-	100	0.005
6										
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18										
19										
20										
21										
22										
23	DETECTION	5	5	0.05	5	0.05	0.5	2	100	0.005
24	UNITS	PPM	PPM	%	PPM	%	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	101	104	101	104	101	313

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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743451

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05174	01/03/88	E03505	3 OF 4

TUBE No.	SAMPLE No.	AuChk
1	292113	–
2	292114	–
3	292115	–
4	292116	–
5	292117	0.280
6	292118	–
7	292119	–
8	292120	–
9	292121	–
10	292122	–
11	292881	–
12	292882	–
13	292883	0.010
14	292884	–
15	292885	<0.005
16	292886	–
17	292887	–
18	292888	–
19	292889	–
20	292890	–
21	292891	–
22	292892	–
23	292893	<0.005
24	292894	–
25	292895	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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743452

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
Cr	7.5.08.05174	01/03/88	E03505	4 OF 4

TUBE No.	SAMPLE No.	Cr
1	292896	-
2	292897	-
3	292898	-
4	292899	-
5	292900	-
6		
7		
8		
9		
10		
11		
12		
13		
14		
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17		
18		
19		
20		
21		
22		
23	DETECTION	0.005
24	UNITS	PPM
25	METHOD	313

Results apply to samples as received.
* = Result is between detection limit and limit of determination
** = Result is between limit of determination and limit of quantitation
*** = Result is greater than limit of quantitation

AUTHORISED SIGNATURE

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743453

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ANALYTICAL REPORT No. [illegible]

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

R. Pollock
Cyprus Minerals
P.O. Box [illegible]
Zeehan
Tasmania [illegible]

ORDER No.	PROJECT
[illegible]	[illegible]

DATE RECEIVED	RESULTS REQUIRED
22/02/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	04/03/88	1	69

REFER BELOW	SAMPLE NUMBERS	STATE OF SAMPLES	PRE-TREATMENT: DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	ANALYSIS: REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	various	SS	Prep: 008,016							Cu,Pb,Zn/101,As/114		
	various	SS								Au/309		
	292112,292124/25	RS	Prep: 008,010,011,012,013,016							Cu,Pb,Zn,Ag/104,As/101		
	292112,292124/25	Ro								Au/313		
	292127,292131/32,293002	RS	Prep: 008,010,011,012,013,016							Cu,Pb,Zn,Ag/104		

RESULTS TO

R. Pollock
Cyprus Minerals
P.O. Box 495
North Sydney
N.S.W. 2060

RESULTS TO

R. Pollock
Cyprus Minerals
P.O. Box 230
Zeehan
Tasmania 7469

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER Cheryl Cathie

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ANALABS

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743454

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	1 OF 8

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	As
1	292929	5	–	<5	–	10	–	–	–	1
2	292930	5	–	5	–	25	–	–	–	2
3	292931	5	–	5	–	10	–	–	–	2
4	292932	5	–	<5	–	10	–	–	–	3
5	292933	5	–	<5	–	10	–	–	–	2
6	292934	5	–	5	–	5	–	–	–	2
7	292935	5	–	5	–	10	–	–	–	1
8	292936	5	–	<5	–	5	–	–	–	1
9	292937	5	–	5	–	5	–	–	–	2
10	292938	5	–	5	–	10	–	–	–	1
11	292939	5	–	<5	–	10	–	–	–	1
12	292946	10	–	<5	–	10	–	–	–	1
13	292947	5	–	<5	–	5	–	–	–	1
14	292948	5	–	10	–	10	–	–	–	1
15	292949	5	–	5	–	5	–	–	–	1
16	292951	5	–	10	–	10	–	–	–	2
17	292953	5	–	5	–	10	–	–	–	1
18	292954	5	–	<5	–	15	–	–	–	1
19	292955	10	–	10	–	20	–	–	–	1
20	292956	5	–	10	–	10	–	–	–	<1
21	292957	5	–	5	–	35	–	–	–	2
22	292958	5	–	<5	–	10	–	–	–	2
23	292959	5	–	5	–	45	–	–	–	1
24	292961	10	–	10	–	10	–	–	–	3
25	292962	5	–	10	–	5	–	–	–	3

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	2 OF 8

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	As
1	292963	10	–	<5	–	10	–	–	–	2
2	292964	5	–	<5	–	10	–	–	–	2
3	292965	5	–	15	–	10	–	–	–	2
4	292966	5	–	<5	–	20	–	–	–	2
5	292967	5	–	10	–	15	–	–	–	2
6	292968	5	–	<5	–	10	–	–	–	2
7	292969	5	–	5	–	5	–	–	–	1
8	292970	5	–	5	–	5	–	–	–	1
9	292971	5	–	<5	–	5	–	–	–	1
10	292972	5	–	10	–	5	–	–	–	2
11	292973	5	–	5	–	20	–	–	–	1
12	292974	10	–	5	–	5	–	–	–	<1
13	292975	5	–	10	–	20	–	–	–	2
14	293001	5	–	25	–	25	–	–	–	2
15	293002	10	–	35	–	25	–	–	–	3
16	293004	110	–	135	–	360	–	–	–	6
17	293005	5	–	10	–	35	–	–	–	2
18	293006	5	–	15	–	35	–	–	–	2
19	293007	10	–	55	–	30	–	–	–	2
20	293008	5	–	10	–	60	–	–	–	4
21	293009	5	–	25	–	30	–	–	–	6
22	293010	10	–	25	–	10	–	–	–	<1
23	293011	10	–	30	–	55	–	–	–	<1
24	293012	5	–	10	–	10	–	–	–	<1
25	293013	10	–	85	–	70	–	–	–	<1

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	3 OF 8

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	As
1	293014	10	–	80	–	5	–	–	–	<1
2	293015	10	–	20	–	100	–	–	–	<1
3	293016	20	–	2350	–	2450	–	–	–	24
4	293017	5	–	40	–	55	–	–	–	<1
5	293018	5	–	15	–	15	–	–	–	<1
6	293019	10	–	145	–	835	–	–	–	3
7	293020	10	–	30	–	55	–	–	–	<1
8	293021	10	–	70	–	90	–	–	–	<1
9	293022	5	–	75	–	40	–	–	–	<1
10	293023	95	–	70	–	25	–	–	–	6
11	293024	10	–	15	–	5	–	–	–	<1
12	293025	10	–	30	–	10	–	–	–	<1
13	292112	–	25	–	0.18	–	0.51	15	<100	–
14	292124	–	4925	–	4.78	–	8.97	115	100	–
15	292125	–	6600	–	8.52	–	12.12	135	100	–
16	292127	–	400	–	1.19	–	2.54	48	100	–
17	292131	–	750	–	5.53	–	11.18	74	300	–
18	292132	–	450	–	6.70	–	12.05	168	200	–
19	293003	–	1650	–	1.63	–	3.72	255	100	–
20										
21									Ag cr page 7/8	
22										
23										
24										
25										

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	4 OF 8

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	As
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18	NOTE: Result for Sample No.292125 was 10.000,8.270,10.110									
19	Au Checks were assayed for the following: 292124 = 3.260									
20	292127 = 0.090 and Sample No 293003 was assayed by method 310 and the									
21	result was 11.17.									
22	DETECTION	5	25	5	0.05	5	0.05	2	100	1
23	UNITS	PPM	PPM	PPM	%	PPM	%	PPM	PPM	PPM
24	METHOD	101	104	101	104	101	104	104	101	114
25										

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	5 OF 8

TUBE No.	SAMPLE No.	Au	Au								
1	292929	0.070	--								
2	292930	0.030	--								
3	292931	<0.008	--								
4	292932	<0.008	--								
5	292933	<0.008	--								
6	292934	<0.008	--								
7	292935	<0.008	--								
8	292936	<0.008	--								
9	292937	<0.008	--								
10	292938	<0.008	--								
11	292939	<0.008	--								
12	292946	<0.008	--								
13	292947	<0.008	--								
14	292948	<0.008	--								
15	292949	<0.008	--								
16	292951	<0.008	--								
17	292953	<0.008	--								
18	292954	<0.008	--								
19	292955	<0.008	--								
20	292956	<0.008	--								
21	292957	<0.008	--								
22	292958	<0.008	--								
23	292959	<0.008	--								
24	292961	<0.008	--								
25	292962	<0.008	--								

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
-- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	7.5.08.05177	11/03/88	E03506	6 OF 8

TUBE No.	SAMPLE No.	Au	Au								
1	292963	<0.008	–								
2	292964	<0.008	–								
3	292965	<0.008	–								
4	292966	<0.008	–								
5	292967	<0.008	–								
6	292968	<0.008	–								
7	292969	<0.008	–								
8	292970	<0.008	–								
9	292971	<0.008	–								
10	292972	<0.008	–								
11	292973	<0.008	–								
12	292974	<0.008	–								
13	292975	<0.008	–								
14	293001	<0.008	–								
15	293002	<0.008	–								
16	293004	<0.008	–								
17	293005	<0.008	–								
18	293006	<0.008	–								
19	293007	<0.008	–								
20	293008	<0.008	–								
21	293009	<0.008	–								
22	293010	0.070	–								
23	293011	<0.008	–								
24	293012	<0.008	–								
25	293013	<0.008	–								

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	7 OF 8

TUBE No.	SAMPLE No.	Au	Au
1	293014	<0.008	–
2	293015	<0.008	–
3	293016	<0.008	–
4	293017	<0.008	–
5	293018	<0.008	–
6	293019	<0.008	–
7	293020	<0.008	–
8	293021	<0.008	–
9	293022	<0.008	–
10	293023	<0.008	–
11	293024	<0.008	–
12	293025	<0.008	–
13	292112	–	0.020
14	292124	–	3.710
15	292125	–	6.620
16	292127	–	0.085
17	292131	–	0.085
18	292132	–	0.880
19	293003	–	14.780
20			
21			
22			
23			
24			
25			

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05177	11/03/88	E03506	8 OF 8

TUBE No.	SAMPLE No.	Au	Au								
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18	NOTE: Result for Sample No.292125 was 10.000,8.270,10.110										
19	Au Checks were assayed for the following: 292124 = 3.260										
20	292127 = 0.090 and Sample No 293003 was assayed by method 310 and the										
21	result was 11.17.										
22	DETECTION	0.008	0.005								
23	UNITS	PPM	PPM								
24	METHOD	309	313								
25											

Results in ppm unless otherwise specified.
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REF BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05187	02/03/88	E03507	1 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	292940	15	<5	20	<1	<0.008	-			
2	292941	15	<5	20	<1	<0.008	-			
3	292942	20	<5	10	<1	<0.008	-			
4	292943	15	<5	<5	<1	0.010	-			
5	292944	15	<5	20	<1	<0.008	-			
6	292945	15	<5	5	<1	<0.008	-			
7	292950	20	<5	5	<1	<0.008	-			
8	292952	20	<5	<5	<1	<0.008	-			
9	292955	15	<5	60	<1	<0.008	-			
10	292960	20	<5	10	<1	<0.008	<0.008			
11	292976	10	<5	5	<1	0.010	-			
12	292977	10	<5	5	<1	<0.008	-			
13	292978	10	<5	<5	<1	<0.008	-			
14	292979	5	<5	10	<1	<0.008	-			
15	292980	5	<5	20	<1	<0.008	-			
16	292981	15	<5	15	4	<0.008	-			
17	292982	5	<5	15	1	0.020	-			
18	292983	5	<5	10	<1	<0.008	-			
19	293026	25	5	840	12	-	-			
20	293027	5	<5	65	1	-	-			
21	293028	5	<5	50	3	-	-			
22	293029	5	130	85	1	-	-			
23	293030	35	120	40	5	-	-			
24	293031	5	<5	20	<1	-	-			
25	293032	10	<5	15	<1	-	-			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05187	02/03/88	E03507	2 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	293033	50	310	130	5	–	–			
2	293034	5	<5	10	<1	–	–			
3	293035	5	<5	10	<1	–	–			
4	293036	5	<5	10	<1	–	–			
5	293037	5	<5	15	1	–	–			
6	293038	20	20	360	1	–	–			
	293039	5	<5	40	<1	–	–			
8	293040	5	<5	50	<1	–	–			
9	293041	5	<5	20	<1	–	–			
10	293042	5	<5	10	<1	–	–			
11	293043	5	20	280	2	–	–			
12	293044	10	5	15	<1	–	–			
13	293045	5	45	15	<1	–	–			
14	293046	10	140	10	2	–	–			
15	293047	5	90	30	3	–	–			
	293048	10	<5	100	7	–	–			
17	293049	5	<5	35	2	–	–			
18	293050	5	<5	30	1	–	–			
19	293101	5	<5	20	1	–	–			
20	293102	5	<5	15	1	–	–			
21	293103	15	<5	50	7	–	–			
22	293104	10	20	15	<1	–	–			
23	293105	10	15	20	<1	–	–			
24	293106	15	30	15	4	–	–			
25	293107	20	20	20	1	–	–			

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05187	02/03/88	E03507	3 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk			
1	293108	15	5	10	<1	-	-			
2	293109	15	25	50	11	-	-			
3	293110	10	30	15	1	-	-			
4	293111	10	15	10	<1	-	-			
5	293112	10	35	20	<1	-	-			
6	293113	10	60	20	<1	-	-			
7	293114	10	40	20	<1	-	-			
8	293115	10	30	20	<1	-	-			
9	293116	10	30	15	<1	-	-			
10	293117	10	10	20	1	-	-			
11	293118	15	15	20	<1	-	-			
12	293119	10	10	5	<1	-	-			
13	293120	10	<5	5	<1	-	-			
14	293121	10	10	5	1	-	-			
15	293122	15	35	130	24	-	-			
16	293123	50	40	60	9	-	-			
17	293124	50	25	50	80	-	-			
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	1	0.008	0.008			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	309	309			

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
		1	

STATE OF SAMPLES	PRE-TREATMENT								ANALYSIS		
REF. BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05186	02/03/88	E 03508	1 OF 2

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As
1	292126	120	-	-	1450	-	0.33	-	11	<101
2	292128	85	-	-	1700	-	0.42	-	10	<101
3	292129	170	-	-	4150	-	0.85	-	19	<101
4	292130	175	-	-	3400	-	0.65	-	18	<101
5	292133	100	-	-	5500	-	0.80	-	14	<101
6	292134	10	-	85	-	290	-	3.0	-	<101
7	292135	25	-	280	-	375	-	4.0	-	<101
8	292136	120	-	2050	-	5500	-	9.0	-	<101
9	292137	75	-	800	-	1550	-	8.0	-	<101
10	292138	180	-	1030	-	2350	-	5.0	-	<101
11	292139	150	-	3100	-	7500	-	9.0	-	<101
12	292140	115	-	2200	-	5100	-	8.0	-	<101
13	292141	30	-	385	-	855	-	3.0	-	<101
14	292142	30	-	105	-	425	-	3.0	-	<101
15	292143	-	3725	-	10000	-	1.60	-	43	<101
16	292144	545	-	-	7000	-	1.40	-	13	<101
17	292145	10	-	75	-	700	-	3.0	-	<101
18	292146	10	-	105	-	1300	-	4.0	-	<101
19	292147	20	-	380	-	1950	-	5.0	-	<101
20										
21										
22										
23	DETECTION	5	25	5	25	5	0.05	0.5	2	101
24	UNITS	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM
25	METHOD	101	104	101	104	101	104	101	104	101

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05186	02/03/88	E 03508	2 OF 2

TUBE No.	SAMPLE No.	Au	AuChk							
1	292126	0.030	–							
2	292128	0.030	0.020							
3	292129	0.055	–							
4	292130	0.055	–							
5	292133	0.030	–							
6	292134	0.025	–							
7	292135	0.030	–							
8	292136	0.060	–							
9	292137	0.020	–							
10	292138	0.015	–							
11	292139	0.075	0.080							
12	292140	0.035	–							
13	292141	0.010	–							
14	292142	0.035	–							
15	292143	0.065	–							
16	292144	0.075	–							
17	292145	0.005	–							
18	292146	0.010	–							
19	292147	0.025	–							
20										
21										
22										
23	DETECTION	0.005	0.005							
24	UNITS	PPM	PPM							
25	METHOD	313	313							

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES

STATE OF SAMPLES RE: BELOW	SAMPLE NUMBERS	PRE-TREATMENT: DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	ANALYSIS: REFER TO ANALYSIS SECTION	PREPARATION	METHOD
		SO									
		RO									
		PU									
		RO									
		SO									

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05194	02/03/88	E03509	1 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	Au
1	293053	15	–	10	–	20	–	–	9	–
2	293054	10	–	5	–	20	–	–	1	–
3	293055	10	–	<5	–	20	–	–	<1	–
4	293056	10	–	20	–	25	–	–	1	–
5	293057	10	–	20	–	20	–	–	1	–
6	293058	–	3350	–	4.10	–	9.75	64	11	0.330
7	293125	15	–	<5	–	30	–	–	<1	–
8	293126	20	–	110	–	80	–	–	<1	–
9	293127	10	–	10	–	35	–	–	<1	–
10	293128	10	–	20	–	30	–	–	<1	–
11	293129	10	–	5	–	30	–	–	<1	–
12	293130	15	–	15	–	30	–	–	<1	–
13	293131	15	–	25	–	35	–	–	1	–
14	293132	10	–	10	–	30	–	–	1	–
15	293133	10	–	15	–	25	–	–	<1	–
16	293134	20	–	5	–	20	–	–	<1	–
17	293135	20	–	<5	–	35	–	–	<1	–
18	293136	15	–	<5	–	20	–	–	<1	–
19	293137	10	–	<5	–	30	–	–	1	–
20	293138	10	–	5	–	25	–	–	1	–
21	293139	10	–	<5	–	30	–	–	<1	–
22	293140	10	–	20	–	30	–	–	1	–
23	293141	15	–	15	–	40	–	–	1	–
24	293142	10	–	<5	–	20	–	–	1	–
25	293143	15	–	<5	–	30	–	–	1	

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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400

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05194	02/03/88	E03509	2 OF 4

TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	As	Au
1	293144	10	–	<5	–	20	–	–	<1	–
2	293145	10	–	<5	–	20	–	–	2	–
3	293146	10	–	<5	–	35	–	–	1	–
4	293147	10	–	<5	–	30	–	–	1	–
5	293148	10	–	<5	–	25	–	–	1	–
6	293149	10	–	<5	–	25	–	–	<1	–
7	293150	10	–	5	–	35	–	–	<1	–
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	25	5	0.05	5	0.05	2	1	0.005
24	UNITS	PPM	PPM	PPM	%	PPM	%	PPM	PPM	PPM
25	METHOD	101	104	101	104	101	104	104	114	313

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05194	02/03/88	E03509	3 OF 4

TUBE No.	SAMPLE No.	AuChk								
1	293053	–								
2	293054	–								
3	293055	–								
4	293056	–								
5	293057	–								
6	293058	0.430								
7	293125	–								
8	293126	–								
9	293127	–								
10	293128	–								
11	293129	–								
12	293130	–								
13	293131	–								
14	293132	–								
15	293133	–								
16	293134	–								
17	293135	–								
18	293136	–								
19	293137	–								
20	293138	–								
21	293139	–								
22	293140	–								
23	293141	–								
24	293142	–								
25	293143	–								

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05194	02/03/88	E03509	4 OF 4

TUBE No.	SAMPLE No.	AuChk
1	293144	–
2	293145	–
3	293146	–
4	293147	–
5	293148	–
6	293149	–
7	293150	–
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23	DETECTION	0.005
24	UNITS	PPM
25	METHOD	313

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAMPLE		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectraphotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER Cheryl Cathie

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	1 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	Au
1	292984	5	<5	–	10	–	–	<1	0.010	–
2	292985	5	<5	–	5	–	–	<1	<0.008	–
3	292986	5	<5	–	10	–	–	<1	0.040	–
4	292987	5	<5	–	5	–	–	<1	0.020	–
5	292988	5	<5	–	5	–	–	<1	<0.008	–
◯	292989	5	<5	–	5	–	–	<1	<0.008	–
7	292990	5	<5	–	10	–	–	<1	0.020	–
8	292991	5	<5	–	<5	–	–	<1	0.020	–
9	292992	5	<5	–	5	–	–	<1	0.400	–
10	292993	5	<5	–	5	–	–	<1	<0.008	–
11	292994	5	<5	–	5	–	–	1	0.010	–
12	292995	5	<5	–	15	–	–	<1	0.020	–
13	292996	5	<5	–	5	–	–	<1	<0.008	–
14	292997	5	<5	–	<5	–	–	<1	0.020	–
15	292998	5	<5	–	5	–	–	<1	0.060	–
◯	292999	5	<5	–	5	–	–	<1	0.010	–
17	293000	10	<5	–	5	–	–	<1	<0.008	–
18	293061	5	<5	–	5	–	–	<1	<0.008	–
19	293062	30	<5	–	5	–	–	<1	<0.008	–
20	293063	10	<5	–	<5	–	–	<1	<0.008	–
21	293064	5	<5	–	10	–	–	<1	<0.008	–
22	293065	20	<5	–	35	–	–	1	<0.008	–
23	293066	10	<5	–	5	–	–	1	0.010	–
24	293067	5	<5	–	5	–	–	<1	<0.008	–
25	293068	5	<5	–	5	–	–	1	<0.008	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	2 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	Au
1	293069	10	<5	-	10	-	-	<1	<0.008	-
2	293070	10	<5	-	5	-	-	<1	<0.008	-
3	293071	5	<5	-	5	-	-	<1	<0.008	-
4	293072	5	<5	-	10	-	-	<1	0.010	-
5	293073	5	<5	-	5	-	-	1	<0.008	-
6	293074	5	<5	-	5	-	-	<1	<0.008	-
7	293075	5	<5	-	5	-	-	<1	<0.008	-
8	293076	5	<5	-	10	-	-	<1	<0.008	-
9	293077	5	<5	-	5	-	-	1	<0.008	-
10	293078	<5	<5	-	<5	-	-	<1	<0.008	-
11	293079	10	<5	-	5	-	-	<1	<0.008	-
12	293080	5	<5	-	<5	-	-	<1	<0.008	-
13	293081	10	<5	-	<5	-	-	<1	<0.008	-
14	293082	10	<5	-	5	-	-	<1	<0.008	-
15	293083	10	<5	-	<5	-	-	<1	<0.008	-
16	293084	15	<5	-	5	-	-	<1	<0.008	-
17	293085	10	<5	-	5	-	-	<1	<0.008	-
18	293086	30	<5	-	5	-	-	1	<0.008	-
19	293087	35	<5	-	5	-	-	<1	<0.008	-
20	293088	10	<5	-	5	-	-	<1	<0.008	-
21	293089	10	<5	-	5	-	-	1	<0.008	-
22	293090	10	<5	-	5	-	-	1	<0.008	-
23	293091	5	<5	-	5	-	-	<1	<0.008	-
24	293501	<5	10	-	50	<0.5	-	<1	-	0.005
25	293502	5	85	-	125	<0.5	-	20	-	<0.005

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

AUTHORISED OFFICER Cheryl Cathro

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	3 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Ag	Ag	As	Au	Au
1	293503	5	<5	-	130	<0.5	-	13	-	<0.005
2	293504	5	5	-	180	<0.5	-	1	-	<0.005
3	293505	35	125	-	45	<0.5	-	3	-	<0.005
4	293506	5	<5	-	5	<0.5	-	<1	-	<0.005
5	293507	<5	<5	-	5	<0.5	-	<1	-	<0.005
○	293508	5	<5	-	5	<0.5	-	3	-	0.040
7	293059	10	<5	-	10	1.0	-	1200	-	0.065
8	293060	10	75	-	60	8.0	-	990	-	0.060
9	293093	55	-	0.65	125	-	16	4000	-	<0.005
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	0.05	5	0.5	2	1	0.008	0.005
24	UNITS	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	101	101	104	114	309	313

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	4 OF 6

TUBE No.	SAMPLE No.	AuChk
1	292984	–
2	292985	–
3	292986	–
4	292987	–
5	292988	–
○	292989	<0.006
7	292990	–
8	292991	–
9	292992	–
10	292993	–
11	292994	–
12	292995	–
13	292996	–
14	292997	–
15	292998	–
○		
16	292999	0.010
17	293000	–
18	293061	–
19	293062	–
20	293063	–
21	293064	–
22	293065	–
23	293066	<0.008
24	293067	–
25	293068	–

Results in ppm unless otherwise specified
T = element present: but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	5 OF 6

TUBE No.	SAMPLE No.	AuChk
1	293069	–
2	293070	–
3	293071	–
4	293072	–
5	293073	–
◯	293074	–
7	293075	–
8	293076	–
9	293077	–
10	293078	<0.008
11	293079	–
12	293080	–
13	293081	–
.14	293082	–
15	293083	–
◯ 16	293084	–
17	293085	–
18	293086	–
19	293087	–
20	293088	–
21	293089	–
22	293090	–
23	293091	–
24	293501	–
25	293502	–

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05208	16/03/88	E03510	6 OF 6

TUBE No.	SAMPLE No.	AuChk
1	293503	–
2	293504	–
3	293505	–
4	293506	–
5	293507	–
○	293508	–
7	293059	–
8	293060	–
9	293093	–
10		
11		
12		
13		
•14		
○		
16		
17		
18		
19		
20		
21		
22		
23	DETECTION	0.008
24	UNITS	PPM
25	METHOD	309

Results in ppm unless otherwise specified
T = element present: but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER Cheryl Cathro

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743481

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FAX: (09) 458 8890

ANALYTICAL REPORT No. [illegible]

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

B. Bourgin
Cyprus Minerals
P.O. Box 473
North Sydney
N.S.W. 2060

ORDER No.	PROJECT
[illegible]	MN 3778

DATE RECEIVED	RESULTS REQUIRED
03/03/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
4	[illegible]	4	26

STATE OF SAMPLES	PRE-TREATMENT							ANALYSIS		
REFR. BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	293092,297095/100,[illegible]	SO	Prep: 005,010						Cu,Pb,Zn/101,As/114		
	293092,293095/100,[illegible]	SO							Au,AuChk/309		
	293148/50,293094	SO	Prep: 006,010,01[illegible],012,013,016						Cu,Pb,Zn,Ag/101,As/114		
	293148/50,293094	SO							Au,AuChk/313		
	293148/50,293094	SO	Prep: 006,010,01[illegible],012,013,016						Ag/104		

RESULTS TO

B. Bourgin
Cyprus Minerals
P.O. Box 473
North Sydney
N.S.W. 2060

RESULTS TO

M. Pollock
Cyprus Minerals
P.O. Box 230
Zeehan
Tasmania 7469

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER Cheryl Cattle

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ANALABS

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743482

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05221	17/03/88	E03511	1 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ag	As	Au	Au	AuChk
1	293092	5	<5	10	–	–	<1	<0.008	–	–
2	293095	10	<5	5	–	–	1	<0.008	–	–
3	293096	5	<5	5	–	–	<1	<0.008	–	–
4	293097	10	<5	5	–	–	<1	<0.008	–	–
5	293098	10	<5	5	–	–	1	<0.008	–	<0.008
6	293099	10	<5	15	–	–	<1	<0.008	–	–
7	293100	10	<5	5	–	–	<1	<0.008	–	–
8	293551	5	<5	10	–	–	<1	<0.008	–	–
9	293552	5	<5	10	–	–	1	<0.008	–	–
10	293553	20	<5	10	–	–	<1	<0.008	–	–
11	293554	145	5	15	–	–	<1	<0.008	–	–
12	293555	5	<5	5	–	–	<1	<0.008	–	–
13	293556	5	<5	5	–	–	<1	<0.008	–	–
14	293557	5	<5	5	–	–	<1	<0.008	–	–
15	293558	5	<5	10	–	–	<1	<0.008	–	–
16	293559	5	<5	10	–	–	<1	<0.008	–	–
17	293560	5	<5	5	–	–	<1	<0.008	–	–
18	293561	5	5	5	–	–	<1	<0.008	–	–
19	293562	5	<5	5	–	–	<1	<0.008	–	<0.008
20	293563	5	<5	5	–	–	<1	<0.008	–	–
21	293564	25	<5	5	–	–	<1	<0.008	–	–
22	293565	<5	<5	5	–	–	<1	<0.008	–	–
23	293566	<5	<5	60	–	–	<1	<0.008	–	–
24	293567	<5	<5	20	–	–	<1	<0.008	–	–
25	292148	3950	215	205	5.5	–	120	–	0.060	–

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05221	17/03/88	E03511	2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Ag	As	Au	Au	AuChk
1	292149	6300	4350	310	-	18	170	-	0.300	-
2	292150	35	5	50	0.5	-	14	-	<0.005	-
3	293094	15	5	40	<0.5	-	2	-	<0.005	-
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	2	1	0.008	0.005	0.008
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	101	104	114	309	313	309

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
--- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05221	17/03/88	E03511	3 OF 4

TUBE No.	SAMPLE No.	AuChk									
1	293092	–									
2	293095	–									
3	293096	–									
4	293097	–									
5	293098	–									
6	293099	–									
7	293100	–									
8	293551	–									
9	293552	–									
10	293553	–									
11	293554	–									
12	293555	–									
13	293556	–									
14	293557	–									
15	293558	–									
16	293559	–									
17	293560	–									
18	293561	–									
19	293562	–									
20	293563	–									
21	293564	–									
22	293565	–									
23	293566	–									
24	293567	–									
25	292148	–									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05221	17/03/88	E03511	4 OF 4

TUBE No.	SAMPLE No.	AuChk
1	292149	-
2	292150	-
3	293094	0.035
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23	DETECTION	0.005
24	UNITS	PPM
25	METHOD	313

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAMPLES		PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
	various										
	as above										
	various										

RESULTS TO

RESULTS TO

3 GLENLEA DRIVE
MAROOCHYDORE
QLD 4558

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	1 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	293201	315	1800	–	3000	–	3.5	–	29	0.040
2	293202	5	10	–	65	–	<0.5	–	2	<0.005
3	293203	15	180	–	225	–	0.5	–	76	<0.005
4	293204	40	525	–	1200	–	2.5	–	75	<0.005
5	293205	30	515	–	1100	–	2.0	–	29	0.010
6	293207	5	10	–	125	–	1.0	–	2	0.010
7	293208	5	5	–	125	–	0.5	–	2	<0.005
8	293209	5	5	–	95	–	1.5	–	1	<0.005
9	293210	5	5	–	130	–	0.5	–	2	<0.005
10	293211	10	<5	–	175	–	<0.5	–	2	<0.005
11	293212	5	5	–	120	–	1.0	–	2	<0.005
12	293213	5	5	–	135	–	0.5	–	1	<0.005
13	293214	10	105	–	145	–	0.5	–	8	0.050
14	293215	<5	15	–	120	–	0.5	–	14	<0.005
15	293216	<5	15	–	105	–	1.0	–	12	<0.005
16	293217	75	750	–	2250	–	6.0	–	24	<0.005
17	293221	5	10	–	45	–	<0.5	–	12	<0.005
18	293222	5	<5	–	20	–	0.5	–	3	0.045
19	293223	5	<5	–	25	–	0.5	–	3	0.010
20	293224	<5	<5	–	40	–	0.5	–	4	<0.005
21	293225	<5	<5	–	40	–	1.0	–	4	<0.005
22	293226	<5	<5	–	45	–	1.0	–	2	<0.005
23	293227	5	<5	–	135	–	1.0	–	5	<0.005
24	293228	5	<5	–	70	–	0.5	–	9	<0.005
25	293229	5	<5	–	200	–	0.5	–	63	<0.005

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	2 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	293230	5	15	–	525	–	0.5	–	44	<0.005
2	293231	5	10	–	120	–	<0.5	–	22	<0.005
3	293232	5	120	–	300	–	<0.5	–	11	<0.005
4	293233	30	815	–	1800	–	2.5	–	53	<0.005
5	293234	260	4400	–	7650	–	6.0	–	63	0.080
6	293235	140	1750	–	3250	–	3.0	–	33	0.070
7	293236	25	330	–	480	–	<0.5	–	20	<0.005
8	293237	75	1300	–	2500	–	–	36	25	0.025
9	293238	980	–	1.67	–	2.80	–	77	103	0.780
10	293239	1350	–	1.66	–	2.96	–	24	100	0.570
11	293240	30	470	–	900	–	2.0	–	10	<0.005
12	293241	1600	–	1.24	–	2.22	–	17	24	0.045
13	293242	35	1050	–	1800	–	4.5	–	12	<0.005
14	293243	20	680	–	990	–	2.5	–	8	<0.005
15	293244	35	510	–	740	–	4.5	–	7	<0.005
16	293245	45	1100	–	1250	–	4.0	–	4	<0.005
17	293246	90	3400	–	3350	–	–	21	19	0.020
18	293247	175	4650	–	3900	–	–	26	33	0.020
19	293248	70	800	–	2250	–	6.5	–	13	0.010
20	293249	405	6200	–	–	1.06	–	77	67	0.520
21	293250	145	1500	–	2100	–	–	17	31	0.045
22	293509	60	1850	–	4250	–	–	21	39	0.020
23	293510	30	820	–	1200	–	–	17	31	0.010
24	293511	25	530	–	1400	–	–	18	40	<0.005
25	293512	20	865	–	1650	–	8.5	–	92	<0.005

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	3 OF 6

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	DETECTION	5	5	0.05	5	0.05	0.5	2	1	0.005
23	UNITS	PPM	PPM	%	PPM	%	PPM	PPM	PPM	PPM
24	METHOD	101	101	104	101	104	101	104	101	313
25										

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	4 OF 5

TUBE No.	SAMPLE No.	AuChk									
1	293201	–									
2	293202	–									
3	293203	–									
4	293204	<0.005									
5	293205	–									
6	293207	–									
7	293208	–									
8	293209	–									
9	293210	–									
10	293211	<0.005									
11	293212	–									
12	293213	–									
13	293214	–									
14	293215	–									
15	293216	–									
16	293217	–									
17	293221	–									
18	293222	–									
19	293223	–									
20	293224	–									
21	293225	–									
22	293226	–									
23	293227	<0.005									
24	293228	–									
25	293229	–									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	5 OF 6

TUBE No.	SAMPLE No.	AuChk								
1	293230	<0.005								
2	293231	–								
3	293232	–								
4	293233	–								
5	293234	–								
6	293235	–								
7	293236	–								
8	293237	0.025								
9	293238	–								
10	293239	–								
11	293240	–								
12	293241	–								
13	293242	–								
14	293243	–								
15	293244	–								
16	293245	<0.005								
17	293246	–								
18	293247	—								
19	293248	–								
20	293249	–								
21	293250	–								
22	293509	–								
23	293510	–								
24	293511	–								
25	293512	–								

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
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— = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05220	17/03/88	E03512	6 OF 6

TUBE No.	SAMPLE No.	AuChk								
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19		e								
20										
21										
22	DETECTION	0.005								
23	UNITS	PPM								
24	METHOD	313								
25										

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

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A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
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ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.	PROJECT

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES

STATE OF SAMPLES	PRE-TREATMENT							ANALYSIS		
REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05275	29/03/88	E03513	1 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	294001	15	60	-	45	-	<0.5	-	<100	<0.005
2	294002	15	55	-	55	-	0.5	-	<100	<0.005
3	294003	25	65	-	40	-	0.5	-	<100	0.005
4	294004	30	65	-	75	-	<0.5	-	<100	<0.005
5	294005	40	55	-	45	-	<0.5	-	<100	0.005
6	294006	5	15	-	25	-	<0.5	-	<100	0.010
7	294007	5	25	-	30	-	0.5	-	<100	0.010
8	294008	5	20	-	20	-	0.5	-	<100	0.005
9	294009	20	235	-	335	-	3.0	-	<100	<0.005
10	294010	15	260	-	390	-	3.0	-	100	<0.005
11	294011	10	220	-	230	-	1.0	-	<100	<0.005
12	294012	20	285	-	540	-	2.5	-	<100	<0.005
13	294013	25	345	-	550	-	2.5	-	<100	<0.005
14	294014	235	-	2125	-	4500	-	4	<100	0.005
15	294015	25	220	-	690	-	1.5	-	<100	<0.005
16	294016	15	225	-	325	-	1.5	-	<100	0.005
17	294017	20	200	-	340	-	0.5	-	<100	0.005
18	294018	15	150	-	150	-	<0.5	-	<100	<0.005
19	294019	10	105	-	165	-	<0.5	-	<100	<0.005
20	294020	10	150	-	120	-	1.0	-	<100	<0.005
21	294021	10	100	-	65	-	0.5	-	<100	0.005
22	294022	15	140	-	155	-	1.5	-	<100	0.020
23	294023	10	135	-	165	-	<0.5	-	<100	0.010
24	294024	15	175	-	200	-	<0.5	-	<100	0.015
25	294025	18	285	-	275	-	1.5	-	<100	<0.005

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
--- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05275	29/03/88	E03513	2 OF 4

TUBE No.	SAMPLE No.	Cu	Pb	Pb	Zn	Zn	Ag	Ag	As	Au
1	294026	25	345	-	430	-	0.5	-	<100	<0.005
2	294027	680	-	450	-	1400	-	<2	<100	<0.005
3	294028	15	140	-	165	-	<0.5	-	<100	<0.005
4	294029	40	270	-	450	-	<0.5	-	<100	<0.005
5	294030	40	575	-	1300	-	2.0	-	<100	0.035
6	294031	110	-	1225	-	2650	-	9	100	0.195
7	294032	10	245	-	315	-	0.5	-	<100	0.005
8	294033	10	105	-	85	-	0.5	-	<100	<0.005
9	294034	40	-	1425	-	2150	-	2	<100	0.005
10	294035	100	-	1425	-	3025	-	<2	<100	<0.005
11	294036	10	410	-	815	-	1.0	-	<100	<0.005
12	294038	5	65	-	25	-	<0.5	-	<100	<0.005
13	294039	5	60	-	30	-	<0.5	-	<100	<0.005
14	294040	<5	65	-	30	-	<0.5	-	<100	<0.005
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	25	5	25	0.5	2	100	0.005
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	101	104	101	104	101	313

* Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05275	29/03/88	E03513	3 OF 4

TUBE No.	SAMPLE No.	AuChk									
1	294001	–									
2	294002	–									
3	294003	–									
4	294004	–									
5	294005	–									
6	294006	0.005									
7	294007	–									
8	294008	–									
9	294009	–									
10	294010	–									
11	294011	–									
12	294012	–									
13	294013	–									
14	294014	–									
15	294015	–									
16	294016	–									
17	294017	–									
18	294018	0.005									
19	294019	–									
20	294020	–									
21	294021	–									
22	294022	–									
23	294023	–									
24	294024	–									
25	294025	–									

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

743497

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05275	29/03/88	E03513	4 OF 4

TUBE No.	SAMPLE No.	AuChk
1	294026	–
2	294027	–
3	294028	–
4	294029	–
5	294030	–
6	294031	–
7	294032	–
8	294033	–
9	294034	<0.005
10	294035	–
11	294036	–
12	294038	–
13	294039	–
14	294040	–
15		
16		
17		
18		
19		
20		
21		
22		
23	DETECTION	0.005
24	UNITS	PPM
25	METHOD	313

Results in ppm unless otherwise specified
T = element present but concentration too low to measure
X = element concentration is below detection limit
– = element not determined

AUTHORISED OFFICER

407

743498

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.
Phone (09) 458 7999 52 Murray Road, Welshpool, W.A. 6106 Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No. | PROJECT

DATE RECEIVED | RESULTS REQUIRED

No. OF PAGES OF RESULTS | DATE REPORTED | No. OF COPIES | TOTAL No. OF SAMPLES

STATE OF SAMP		PRE-TREATMENT							ANALYSIS		
REFER BELOW *	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS TO

RESULTS TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorbtion	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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743499

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05240	29/04/88	E03463	1 OF 4

TUBE No.	SAMPLE No.	S	Ti	V	Cr	As	Rb	Sr	Y	Zr
1	292116	8.800	960	15	60	130	150	20	45	170
2	292131	11.100	840	25	160	280	160	150	75	180
3	292132	10.700	710	5	25	85	250	620	90	210
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
16										
17										
18										
19										
20										
21	NOTE: Samples were unable to be assayed for the missing elements.									
22	Job is now complete.									
23	DETECTION	0.005	50	5	5	2	5	5	5	5
24	UNITS	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	613	401	401	401	401	401	401	401	401

Results in ppm unless otherwise specified.
T = element present, but concentration too low to measure
X = element concentration is below detection limit
_ = element not determined

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429

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A Division of Macdonald Hamilton & Co. Pty Ltd.

743500

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No	PAGE
	7.5.08.05240	29/04/88	E03463	2 OF 4

TUBE No.	SAMPLE No.	Nb	Mo	Sn	Sb	Te	Ba	La	Ce	Hf
1	292116	<3	8	3	25	<0.05	1600	45	55	<50
2	292131	6	20	<3	160	0.20	6550	35	70	<50
3	292132	<3	15	5	350	<0.05	-	35	85	<50
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
16										
17										
18										
19										
20										
21	NOTE: Samples were unable to be assayed for the missing elements.									
22	Job is now complete.									
23	DETECTION	3	3	3	3	0.05	10	10	10	50
24	UNITS	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM
25	METHOD	401	401	401	401	116	401	401	401	401

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

AUTHORISED OFFICER

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

743501

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05240	29/04/88	E03463	3 OF 4

TUBE No.	SAMPLE No.	Ta	W	Hg	Pb	Th	U	Al2O3	CaO	Fe2O3
1	292116	<20	24	25.5	<10	<20	6	5.78	0.903	4.99
2	292131	<20	<20	23.6	<10	<20	9	7.59	1.330	14.60
3	292132	<20	<20	22.8	<10	<20	6	9.03	7.740	6.59
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	NOTE: Samples were unable to be assayed for the missing elements.									
22	Job is now complete.									
23	DETECTION	20	20	0.1	10	20	3	0.01	0.001	0.01
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	%	%	%
25	METHOD	201	201	199	401	401	401	204	204	204

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
--- = element not determined

AUTHORISED OFFICER

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

743502

491

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	7.5.08.05240	29/04/88	E03463	4 OF 4

TUBE No.	SAMPLE No.	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	
1	292116	2.20	6.22	1.01	793	443	794	58.2	1930	
2	292131	2.05	11.40	2.71	1610	2610	1070	39.2	1940	
3	292132	3.28	5.93	2.61	3740	3980	1260	25.7	2040	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
16										
17										
18										
19										
20										
21	NOTE: Samples were unable to be assayed for the missing elements.									
22	Job is now complete.									
23	DETECTION	0.01	0.01	0.01	50	50	50	0.1	50	
24	UNITS	%	%	%	PPM	PPM	PPM	%	PPM	
25	METHOD	204	204	204	204	204	204	204	204	

Results in ppm unless otherwise specified
T = element present, but concentration too low to measure
X = element concentration is below detection limit
— = element not determined

AUTHORISED OFFICER

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CLASSIC COMLABS LTD

743503

Analytical Laboratories (INC. IN W.A.)

305 South Road, Mile End South, South Australia, 5031
Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

Mr. B. Roxburgh
Cyprus Minerals Australia Company
OUR REF: P.O. Box 493
YOUR REF: NORTH SYDNEY
NSW 2000 Australia

JOB NUMBER: 8AD1236

Your Reference: E03471

Date Received: 18-APR-1988 Turnaround 9 days
Date Relayed: 27-APR-1988
Date Reported: 26-APR-1988

Number of Samples: 28

Report Comprising: Cover Sheet
Pages 1 to 2

Comments:

Report Dist'n: Carbon Copies(CC),Electronic Media(EM),Magnetic Media(MM)

Type	Recipient	Location	Date	Copies
CC	Cyprus Minerals	Maroochydore	27-APR-88	1

Approved Signature:

for Harry Fishman

Harry Fishman
Deputy Managing Director.
CLASSIC COMLABS LTD
(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.

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Job: 8AD1236
O/N: E03471

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Ag	Au
292114	26	500	620	1	<0.01
292115	195	4600	1.26%	8	0.10
292116	1000	2.45%	10.4%	40	0.11
292117	1720	1.17%	2.75%	22	0.04
292118	350	2900	1.15%	13	0.18
292119	1000	6400	1.72%	24	0.30
292120	900	1.34%	3.65%	22	0.18
292121	130	6500	1.26%	15	0.07
292122	175	8300	2.15%	14	0.08
292131	690	4.75%	10.5%	56	0.41
292132	410	5.00%	11.3%	135	0.90
292124	5000	4.45%	9.45%	88	3.9
292125	6300	6.35%	12.2%	105	9.2
292127	580	1.03%	2.90%	32	0.21
293003	1700	8100	3.40%	200	16.4
UNITS	ppm	ppm	ppm	ppm	ppm
SCHEME	AAS1	AAS1	AAS1	AAS3	FAS1
UPPER SCHEME		AAS1A	AAS1A		

494

743505

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Job: 8AD1236
O/N: E03471

ANALYTICAL REPORT

SAMPLE	Au
292155	0.35
292156	0.09
292157	0.20
292199	0.02
292200	0.18
292816	0.03
292838	0.13
292839	0.54
292840	0.04
292850	0.25
292862	0.36
292863	0.17
292866	0.26
UNITS	ppm
SCHEME	FAS1

EL 40/85

MOORES VALLEY AIRSTRIP

WANDERER RIVER

MAINWARING RIVER

COPPER CREEK FAULT

OSMUND FAULT

LEWIS RIVER FAULT

Wart Hill

East Camp

Sassy Creek

Waterloo Creek

North Lewis

Lewis River

Drake Creek

Penders

Low Rocky Point

Wart Hill Pyroclastics / Hudson River Pyroclastics (From Large et. al; 1982)

Sericite Qtz — Chlorite Pyrite

Sericite Alt.

Sericite Quartz

Chlorite Magnetite

Chlorite Pyrite

Qtz sericite talc ± chl.

Qtz–chl–py–tourmaline

MT. OSMUND △ 388m

WART HILL △ 248m

DIORITE POINT

VERIDIAN POINT

BLACK ISLAND

LOW ROCKY POINT

ELLIOTT BAY

SOUTHERN OCEAN

E.L. 40 / 85

75000mE. 80000mE. 85000mE. 90000mE.

260000mN. 255000mN. 250000mN. 245000mN. 240000mN. 239000mN.

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

5 cm

LEGEND

TERTIARY
- 1 — Quartzose Gravel

JURASSIC
- 2 — Dolerite (49)

LATE CAMBRIAN – EARLY ORDOVICIAN
- 3 — Owen Conglomerate – undifferentiated
  - 3a – coarse quartzose sandstone
  - 3b – siltstone (all 33)
- 4 — Waterloo Creek Group – undifferentiated (70)
  - 4a – hematitic volcaniclastic conglomerate (71)
  - 4b – tuffaceous coarse sandstone and grit (36)
  - 4c – black shale ± pyrite (68)
  - 4d – fine–med. grained rhyolitic volcaniclastic (67)

CAMBRIAN – MT. READ VOLCANICS
- 5 — Wart Hill and Hudson River Volcanics – undifferentiated (2)
  - 5a – fine to med. grained rhyolitic volcaniclastic (6)
  - 5b – rhyolitic quartz–feldspar porphyry (lavas and intrusives) (8)
  - 5c – dacitic porphyry (9)
  - 5d – coarse rhyolitic volcaniclastic (11)
  - 5e – siltstone (63)
  - 5f – siliceous conglomerate (55)
  - 5g – greywacke and siltstone (61)

CAMBRIAN INTRUSIVES
- 6 — Elliott Point Porphyry (17)
- 7 — Granite (21)
- 8 — Microgranite (14)
- 9 — Porphyritic Microgranite (14)

CAMBRIAN – WESTERN EPICLASTICS
- 10 — Western Epiclastics – undifferentiated (48)
  - 10a – andesitic – basaltic volcanics (47)
  - 10b – brown–grey tuffaceous siltstone and quartzoze conglomerate (56)
  - 10c – black shale ± pyrite (53)
  - 10d – fine to medium grained rhyolitic volcanics (68)
  - 10e – gabbro (49)
  - 10f – coarse rhyolitic volcaniclastic sandstone (10)

CAMBRIAN – MAINWARING GROUP
- 11 — Mainwaring Group – undifferentiated
  - 11a – gabbro
  - 11b – andesite–basaltic volcanics
  - 11c – dolomite (all 42)
  - 11d – black shale ± pyrite
  - 11e – siltstone and sandstone

PRECAMBRIAN
- 12 — Metamorphics – quartzite, schist and phyllite (25)

Geological contact; Unconformity; Fault; Plunging syncline; Old workings; Boundary between Wart Hill and Hudson River Pyroclastics. (Large et. al; 1982); Alteration boundary

CYPRUS 743506 7636

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

GEOLOGICAL COMPILATION

DRAWN BY : CT/RP/RH
DRAFTSMAN : T.G.D.S.
DATE : June '87
REVISIONS :
FILE No.

SCALE 1 : 25000 (500 0 500 1000 METRES)

FIG.

REPORT 595 ENCLOSURE 1

EL 40/85

WANDERER SOUTH

PYTHON PIT

MOORES VALLEY AIRSTRIP

WOOLOOMOOLOO CREEK

NORTH PORPHYRY CONTACT

PORPHYRY DOLERITE CONTACT

MT. OSMUND WEST

MT. OSMUND EAST

MAINWARING RIVER

WART HILL GRID

NORTH WATERLOO CREEK

WATERLOO CREEK PROSPECT

LEWIS RIVER GRID

NORTH LEWIS GRID

LEWIS RIVER PROSPECT

DRAKE CREEK PROSPECT

PENDERS PROSPECT

DIORITE POINT

VERIDIAN POINT

BLACK ISLAND

LOW ROCKY POINT

Wart Hill

East Camp

Sassy Creek

North Lewis

ELLIOTT BAY

OCEAN

E.L. 40 / 85

LEGEND

PROSPECT NAME — WATERLOO CREEK (14) — DIGHEM ANOMALY NUMBER (Mitre Geophysics Report 1986)

8700E / LINE 5100 / 8100E — TRAVERSE LINE NO. & COORDINATES

DIGHEM ANOMALY AXIS

V25 — VOYAGER 12 (GEOPEKO PROSPECT LOCALITIES)

PENDERS PROSPECT — OLD WORKINGS

5 — MAGNETIC ANOMALY NUMBER

MAGNETIC ANOMALY AXIS

GRID CONVERGENCE 1.2° — GN / TN / MN — GRID/MAGNETIC ANGLE 12.5°

5 cm

CYPRUS 743507 7637

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

PROSPECT LOCALITY PLAN

DRAWN BY : C.T.

DRAFTSMAN : T.G.D.S.

DATE : 9–4–'87

REVISIONS :

FILE No.

SCALE 1 : 25000 (500 0 500 1000 METRES)

FIG.

REPORT 595

ENCLOSURE 2

EL 40/85

MOORES VALLEY AIRSTRIP

WANDERER RIVER

RIVER

WANDERER

RIVER

MAINWARING

MT. OSMUND ▲368m

WOOLOOMOOLOO CREEK

RIVER

WART HILL ▲238

COPPER CREEK

CAMP

DIORITE POINT

CREEK

SASSY

VERIDIAN POINT

WATERLOO CREEK PROSPECT

HUDSON RIVER

RIVER

LEWIS

LEWIS RIVER PROSPECT

LEWIS RIVER

CREEK

BARREL

LITTLE ROCKY RIVER

PENDERS PROSPECT

BLACK ISLAND

DRAKE CREEK PROSPECT

E.L. 40 / 85

OCEAN

SOUTHERN

ELLIOTT BAY

LOW ROCKY POINT

5 cm

75000mE. 80000mE. 85000mE. 90000mE.

260000mN. 255000mN. 250000mN. 245000mN. 240000mN. 239000mN.

LEGEND

- MAJOR LINEAMENT – Predominantly faults
- SIGNIFICANT LINEAMENT – Faults, bedding, schistosity and joints
- FORM LINEAMENT – Predominantly bedding and schistosity
- AEROMAGNETIC LINEAMENT

GN TN MN

GRID CONVERGENCE 1.2°

GRID/MAGNETIC ANGLE 12.5°

CYPRUS 743508 7638

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

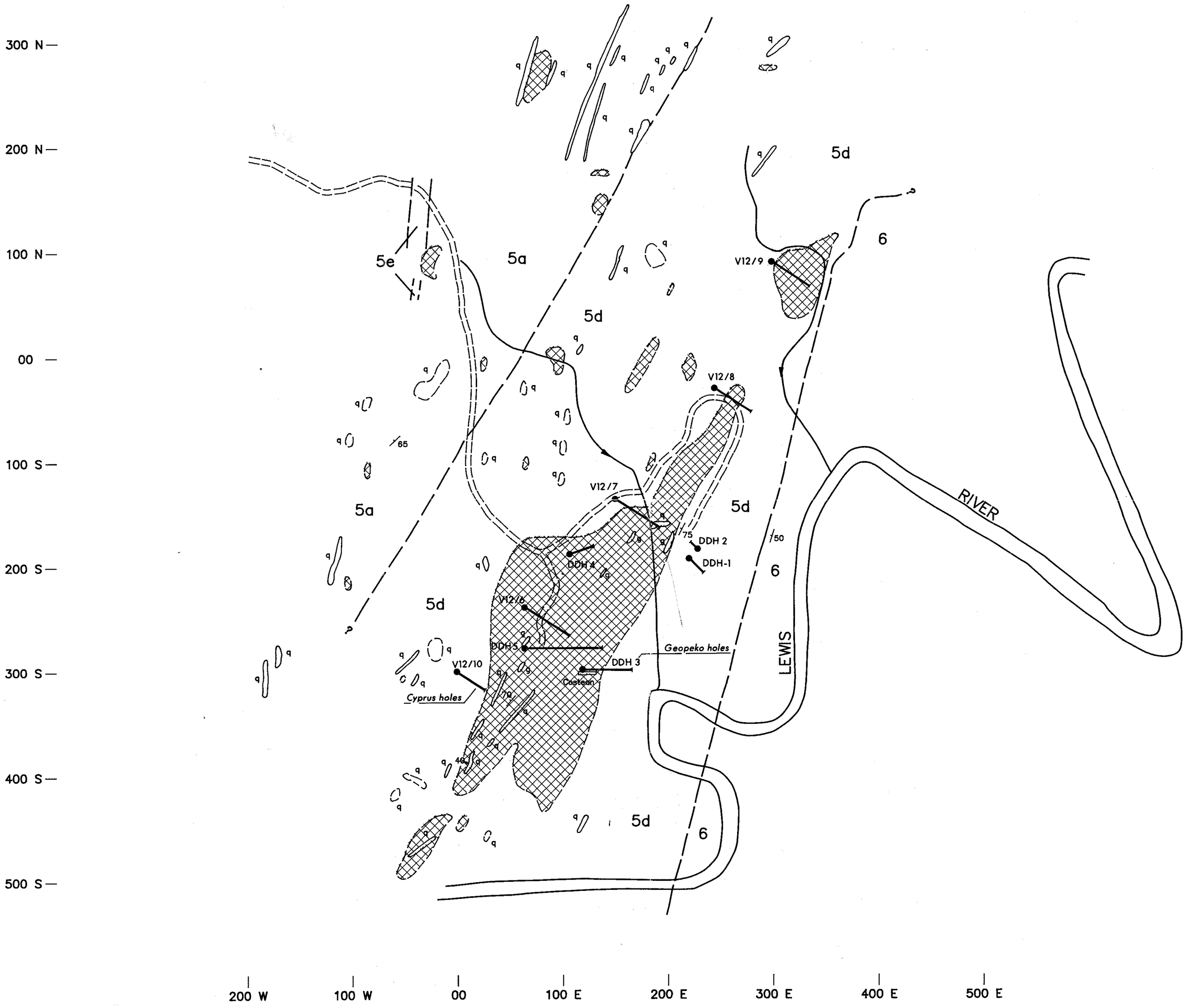
PHOTO AND AEROMAGNETIC LINEAMENT MAP

DRAWN BY : C.T.
DRAFTSMAN : T.G.D.S.
DATE : Dec. '87
REVISIONS :
FILE No.

SCALE 1 : 25000 500 0 500 1000 METRES

FIG.

REPORT 595 ENCLOSURE 3



LEGEND

CAMBRIAN – MT. READ VOLCANICS

- 5a Fine to medium grained rhyolitic pyroclastics
- 5d Coarse grained rhyolitic pyroclastics
- 5e Tuffaceous siltstone and black shale

CAMBRIAN INTRUSIVES

- 6 Elliott Point Porphyry

- Highly FeOx stained
- Quartz viens
- Gossan
- Track
- Creek with direction of flow
- /50 Strike and dip of bedding
- Geological contact inferred
- Geological contact definite

GN = TN (MN 13°)

743509

88-2853

7639

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

NORTH LEWIS

GEOLOGY

DRAWN BY : R.H
DRAFTSMAN : T.G.D.S.
DATE : April'87
REVISIONS :
FILE No.

SCALE 1 : 2500 (25 0 50 100 METRES)

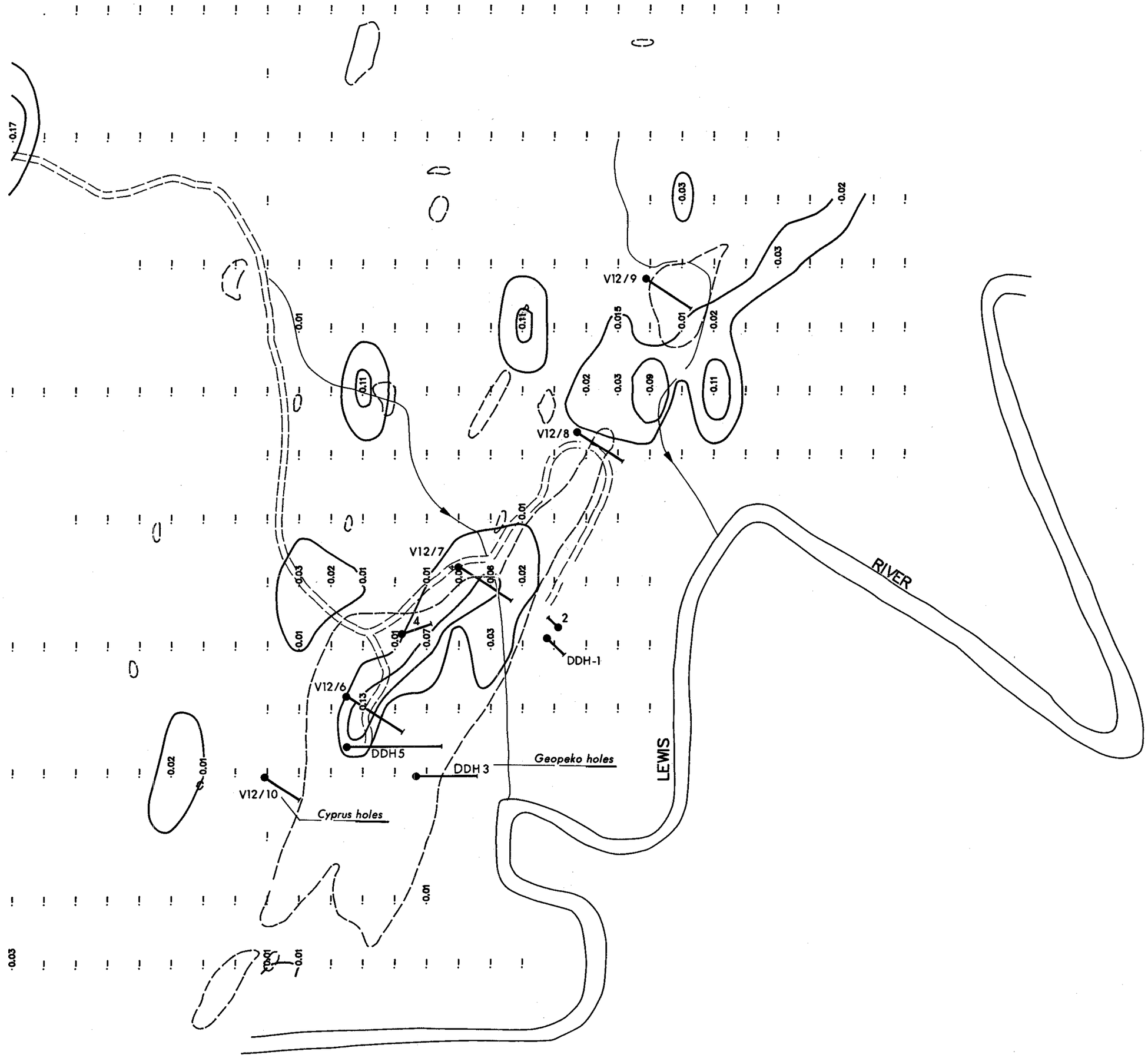
FIG.

REPORT 595

ENCLOSURE 4

300 N
200 N
100 N
00
100 S
200 S
300 S
400 S
500 S

200 W | 100 W | 00 | 100 E | 200 E | 300 E | 400 E | 500 E



CONTOUR INTERVAL

6	>0.01 – 0.05 ppm
12	>0.05 ppm

GN
MN
13°
GN = TN

743510
88-2853

5 cm

7640

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85
NORTH LEWIS
SOIL GEOCHEMISTRY
GOLD

DRAWN BY : R.H.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS :
FILE No.

SCALE 1 : 2500 (25 0 50 100 METRES)

FIG.

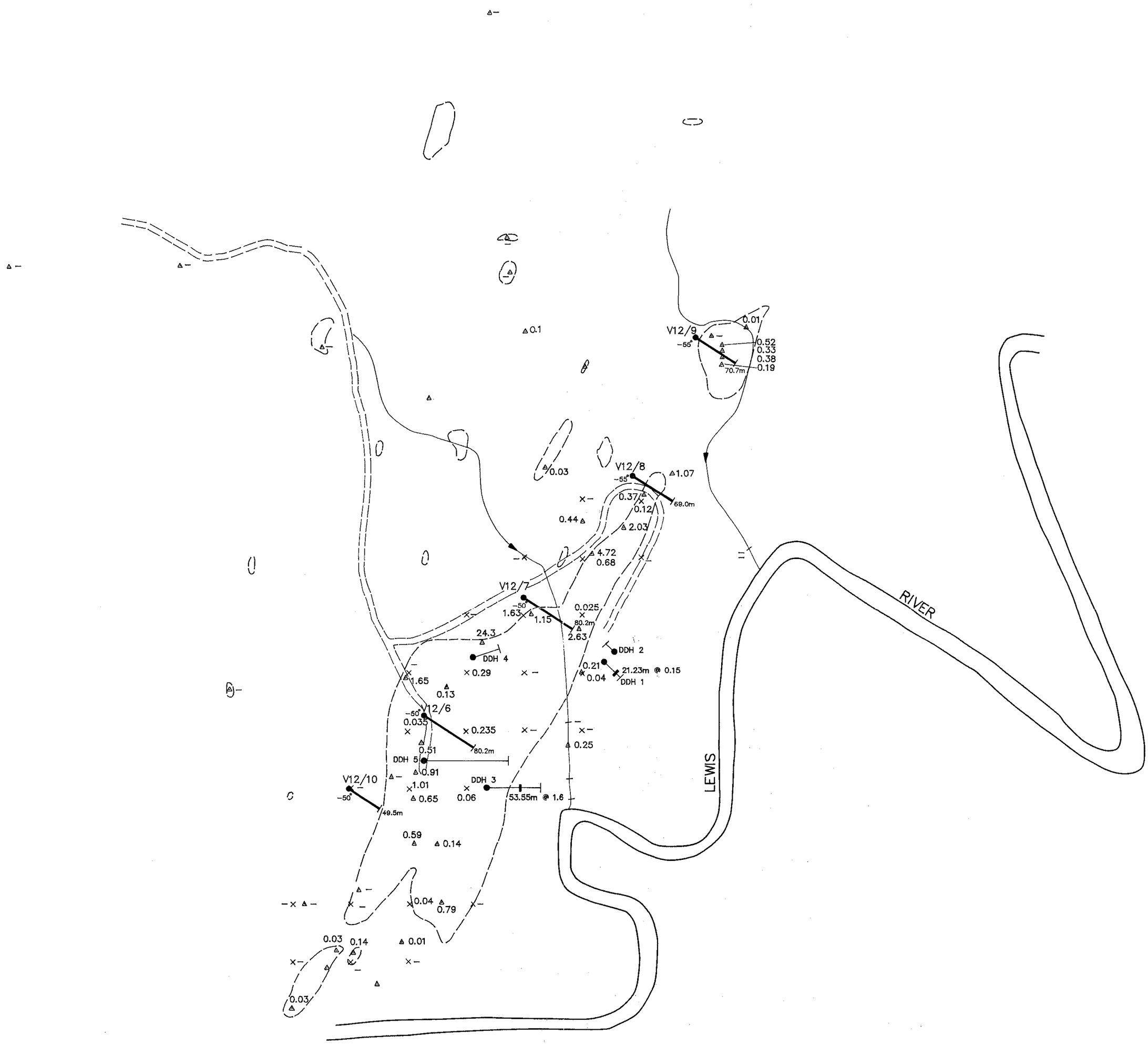
REPORT 595

ENCLOSURE 5

N. W. Computer Aided Drafting Centre (004 354315)

300 N
200 N
100 N
00
100 S
200 S
300 S
400 S
500 S

200 W | 100 W | 00 | 100 E | 200 E | 300 E | 400 E | 500 E



743511

5 cm

88-2853

7641

LEGEND

- Rock Chip
- × Systematic 50m Strip Rock Chip
- Stream Sediment (-80#, P = panned concentrate)
- Au Interseation — Geopeko Diamond Drill Hole
- V12/10, -50° Declination, Depth 49.5m — Cyprus Diamond Drill Hole

NB: Holes V12/6 to V12/10 are Cyprus Holes

GN
MN
13°
GN = TN

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85
NORTH LEWIS
DIAMOND DRILL HOLE LOCATIONS AND GOLD GEOCHEMISTRY

DRAWN BY : R.J.H.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS :
C.T. June '88
FILE No.

SCALE 1 : 2500 (25 0 50 100 METRES)

FIG.

REPORT 595

ENCLOSURE 6

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

13800 N

13700 N

13600 N

13500 N

13400 N

13300 N

13200 N

13100 N

13000 N

9900 E

10000 E

10100 E

10200 E

10300 E

ROCK CHIP SAMPLES — GEOCHEMISTRY

No.	Cu	Pb	Zn	As	Ag	Au
292112	25	0.18%	0.51%	<100	15	0.02
292124	0.492%	4.78%	8.97%	100	115	3.71
292125	0.66%	8.52%	12.12%	100	135	6.62
293058	0.335%	4.10%	9.75%	0.11%	64	0.33
293059	10	<5	10	0.12%	1	<0.005
293060	10	75	60	990	8	<0.005

L E G E N D

CAMBRIAN - ORDOVICIAN
WATERLOO CREEK GROUP

- 4c Black Shale
- 4b Tuffaceous coarse sandstone and grit
- 4a Agglomerate / conglomerate

CAMBRIAN
WART HILL & HUDSON RIVER VOLCANICS

- 5a Rhyolitic quartz-feldspar lithic tuff
- $5a_1$ Epiclastic tuffaceous sandstones and breccias
- $5a_2$ Chert
- 5b Rhyolitic quartz feldspar-biotite porphyry
- 5h Dolerite

- Massive Sulphide Location
- Geological contact - interpreted
- Fault - interpreted
- Shear - interpreted
- Schistosity; dip indicated
- Bedding; dip indicated
- Rock type determined in soil sample
- Quartz - pyrite stockwork zone
- Swamp boundary
- WH1 Cyprus Diamond Drill Hole
- DDH V19-2 Geopeko Diamond Drill Hole

743512

5 cm

GN MN 13° GN = TN

88-2853

7642

CYPRUS GOLD AUST.CORP. & POSEIDON LTD.	
ELLIOTT BAY — E.L. 40/85 WART HILL GEOLOGY	DRAWN BY : C.T; R.P. DRAFTSMAN : T.G.D.S. DATE : April '87 REVISIONS : April '88 FILE No.
SCALE 1 : 1000 (10 0 20 40 METRES)	FIG.

REPORT 595

ENCLOSURE 7

— 13800 N —

— 13700 N —

— 13600 N —

— 13500 N —

— 13400 N —

— 13300 N —

— 13200 N —

— 13100 N —

— 13000 N —

×125 ×126 ×127 ×128 ×129 ×130 ×131 ×132 ×133 ×134 ×135 ×136 ×137 ×138 ×139 ×140 ×141 ×142 ×143 ×144 ×145 ×146 ×147 ×148 ×149 ×150 ×053 ×054 ×055 ×056 ×057

×120 ×119 ×118 ×117 ×116 ×115 ×114 ×113 ×112 ×111 ×110 ×109 ×048 ×049 ×050 ×101 ×102 ×103 ×104 ×105 ×106 ×107 ×108

×121 ×122 ×123 ×124

·801 ·826 ·845 ·846 ·866 ·867 ·882 ·883 ·904
·802 ·827 ·844 ·847 ·865 ·868 ·881 ·884 ·903
·805 ·828 ·843 ·848 ·864 ·869 ·880 ·885 ·902
·804 ·829 ·842 ·849 ·870 ·879 ·886 ·901
·805 ·830 ·841 ·850 ·871 ·878 ·887 ·900
·806 ·831 ·840 ·951 ×011 ·872 ·877 ·888
·807 ·832 ·839 ·852 ×012 ·873 ·889
·812 ·833 ·838 ·853 ×013 ·874 ·890
·808 ·834 ·837 ·854 ·855 ×014 ·875 ×026 ·891 ×037
·809 ·835 ×001 ·856 ×015 ×016 ·876 ×027 ·892 ×038
·810 ·836 ×002 ·857 ×017 ×028 ·893 ×039
·811 ×003 ·858 ×018 ×029 ×030 ·894 ×040
·813 ×004 ·859 ×019 ×031 ·895 ×041
·814 ×005 ·860 ×020 ×032 ·896 ×042
·815 ×006 ·861 ×021 ×033 ·897 ×043
·816 ×007 ·862 ×022 ×034 ·898 ×044
·817 ×008 ·863 ×023 ×035 ·899 ×045
·818 ×009 ×024 ×036 ×046
·819 ×010 ×025 ×047
·820
·821
·822
·823

·905 ·918
·906 ·919
·907 ·920
·908 ·921
·909 ·922
·910 ·923
·911 ·924
·912 ·925
·913 ·926
·914 ·927
·915 ·928
·916 ·929
·917 ·930

— 9300 E —

— 9400 E —

— 9500 E —

— 9600 E —

— 9700 E —

— 9800 E —

— 9900 E —

— 10000 E —

— 10100 E —

— 10200 E —

743513

5 cm

88-2853

7643

LEGEND

× — Prefixed by 293
· — Prefixed by 291

GN
MN
13°
GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY — E.L. 40/85

WART HILL

SOIL SAMPLE LOCATIONS
1987 — 88 SEASON

DRAWN BY : C.T.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.

SCALE 1 : 2500 — 25 0 25 50 METRES

FIG.

REPORT 595

ENCLOSURE 8

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

— 13800 N —

— 13700 N —

— 13600 N —

— 13500 N —

— 13400 N —

— 13300 N —

— 13200 N —

— 13100 N —

— 13000 N —

— 9300 E — — 9400 E — — 9500 E — — 9600 E — — 9700 E — — 9800 E — — 9900 E — — 10000 E — — 10100 E — — 10200 E —

FOR ANALYTICAL DETAILS
SEE 1:1000 SCALE SOIL
GEOCHEMISTRY SHEETS

LEGEND

137 — Sample number
·x — Sample location
10 — Cu
· — Pb
30 — Zn
| — As
} ppm
x — Prefixed by 293
· — Prefixed by 291

GN
MN
13°
GN = TN

743514

88-2853

5 cm

7644

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.	
ELLIOTT BAY — E.L. 40/85 WART HILL INFILL SOIL GEOCHEMISTRY LINES 13600, 13700 & 13800N	DRAWN BY : C.T. DRAFTSMAN : T.G.D.S. DATE : April '87 REVISIONS : April '88 FILE No.
SCALE 1 : 2500 (25 0 50 100 METRES)	FIG.

REPORT 595

ENCLOSURE 9

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

13400 N —

13300 N —

13200 N —

13100 N —

13000 N —

9900 E

10000 E

10100 E

10200 E

CONTOUR INTERVAL

14	> 1000 ppm
10	1000 – 200 ppm
6	200 – 20 ppm
	< 20 ppm

GN

MN

13°

GN = TN

743515

5 cm

KEY:

- · Previously collected sample (Geopeko or Cyprus)
- × Cyprus infill 1987–88 season
- 10 Previous value (Geopeko or Cyprus)
- × Site resampled
- 5 1987–88 value
- — Below limit of detection
- NA No analysis

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

COPPER

DRAWN BY : C.T.

DRAFTSMAN : T.G.D.S.

DATE : April '87

REVISIONS : April '88

FILE No.

SCALE 1 : 1000 (10 0 20 40 METRES)

FIG.

REPORT 595

ENCLOSURE 10

13400 N —

13300 N —

13200 N —

13100 N —

13000 N —

9900 E | 10000 E | 10100 E | 10200 E

CONTOUR INTERVAL

37	> 600 ppm
33	600 – 300 ppm
39	300 – 150 ppm
	< 150 ppm

GN
MN
13°
GN = TN

KEY:

- · Previously collected sample (Geopeko or Cyprus)
- × Cyprus infill 1987–88 season
- 10 Previous value (Geopeko or Cyprus)
- × Site resampled
- 5 1987–88 value
- — Below limit of detection
- NA No analysis

5 cm

743516

7645

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

LEAD

DRAWN BY : C.T.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.

SCALE 1 : 1000 (10 0 20 40 METRES)

FIG.

REPORT 595

ENCLOSURE 11

13400 N

13300 N

13200 N

13100 N

13000 N

9900 E

10000 E

10100 E

10200 E

CONTOUR INTERVAL

45	> 2000 ppm
43	2000 – 1000 ppm
42	1000 – 500 ppm
44	500 – 250 ppm
	< 250 ppm

GN

MN

13°

GN = TN

KEY:

- · Previously collected sample (Geopeko or Cyprus)
- × Cyprus infill 1987–88 season
- 10 · Previous value (Geopeko or Cyprus)
- 10 × Site resampled
- 5 · 1987–88 value
- — Below limit of detection
- NA No analysis

5 cm

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

ZINC

DRAWN BY : C.T.

DRAFTSMAN : T.G.D.S.

DATE : April '87

REVISIONS : April '88

FILE No.

SCALE 1 : 1000 (10 0 20 40 METRES)

FIG.

743517

7646

REPORT 595

ENCLOSURE 12

13400 N

13300 N

13200 N

13100 N

13000 N

9900 E

10000 E

10100 E

10200 E

CONTOUR INTERVAL

66	> 80 ppm
63	80 – 60 ppm
60	60 – 35 ppm
58	35 – 12 ppm
	< 12 ppm

GN

MN

13°

GN = TN

KEY:

- · Previously collected sample (Geopeko or Cyprus)
- x Cyprus infill 1987–88 season
- 10 Previous value (Geopeko or Cyprus)
- × Site resampled
- 5 1987–88 value
- – Below limit of detection
- NA No analysis

5 cm

743518

7647

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

ARSENIC

DRAWN BY : C.T.

DRAFTSMAN : T.G.D.S.

DATE : April '87

REVISIONS : April '88

FILE No.

SCALE 1 : 1000

10 0 20 40 METRES

FIG.

REPORT 595

ENCLOSURE 13

13400 N —

13300 N —

13200 N —

13100 N —

13000 N —

9900 E

10000 E

10100 E

10200 E

5 cm

GN

MN

13°

GN — TN

KEY:

- Previously collected sample (Geopeko or Cyprus)
- x Cyprus infill 1987–88 season

Results in ppm. Only results above detection limits are shown.

TOP CENTRE
MICROFILMED
FICHE No. 16 -

743519 7648

88-2853

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

GOLD

DRAWN BY : C.T.
DRAFTSMAN : T.G.D.S.
DATE April '87
REVISIONS . April '88
FILE No.

SCALE 1 : 1000 METRES

FIG.

REPORT 595

ENCLOSURE 14

13400 N

13300 N

13200 N

13100 N

13000 N

9900 E

10000 E

10100 E

10200 E

CONTOUR INTERVAL

20	> 3000 ppm
19	2000 – 3000 ppm
21	1500 – 2000 ppm
13	750 – 1500 ppm
	< 750 ppm

GN

MN

13°

GN = TN

KEY:

· Previously collected sample (Cyprus only)

x Cyprus infill 1987–88 season

5 cm

743520

88-2853

7649

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

WART HILL

SOIL GEOCHEMISTRY

BARIUM

DRAWN BY : C.T.

DRAFTSMAN : T.G.D.S.

DATE : April '87

REVISIONS : April '88

FILE No.

SCALE 1 : 1000 (10 0 20 40 METRES)

FIG.

REPORT 595

ENCLOSURE 15

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

10800mN. 10600mN. 10400mN. 10200mN. 10000mN.

5 249 000mN. AMG

fg. micaceous sst
fg. chl qxlt
chl (q) xt trace ox py
chl qf xt
mg ser lqxt
rhy qf p l
D68 60 rhy qf pl
5h
mg. chl qf xt
mg. -cg. locally chloritic
cg. chl qf lxt (extremely flattened frags)
fg. ser tuff
fg. micaceous sst
chl qf xt
chl q x lt
D74 KR9486 (chl)qfxt 2% diss px py
5a
5b
cg. ser qxt
D71 70 mg. chl f (q) xt
fg ser qxt
fg q xf?
fe. stained pyritic q xt 1% py
mg. ser qxt
fg. qxt
≈ D73 ser (chl) qt
weath. rhy qpl
chips: ser qxt 1% diss py
chips: blk carb sl/shale
4b
D69 mg white sst
cg. tuff sst
"ladder" qtz veins (2cm)
cg. pebbly l tuffaceous sst
mg. ser qxt
fg. qtz sst
f-mg layered ser qxt
fe stained l qxt
fg. bedded qtz sst
fg. qf xt
D73
5 cm

LEGEND

- 4b — Tuffaceous coarse sandstone and grit
- 5a — Fine to med. grained rhyolitic volcaniclastic
- 5b — Rhyolitic quartz-feldspar porphyry (lavas and intrusives)
- 5h — Micaceous, tuffaceous sandstone and siltstone
- Quartz outcrop
- Surface rubble, white vein quartz
- Unconformity
- Interpreted geologic contact
- Syncline axis

GN MN 13° GN = TN

Compiled by W. Herrmann Geopeko 1981; Modified by R. Poltock 1988.

7433921

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

GEOLOGY INTERPRETATION

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : June '88
REVISIONS :
FILE No.

SCALE 1 : 2500 25 0 50 100 METRES

FIG.

7650

REPORT 595

ENCLOSURE 16

N.W. Coast Computer Aided Drafting Centre Phone (094 354315)

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

5 249 000mN. AMG

10600mN.

10400mN.

10200mN.

10000mN.

△292111

△292110

△292248 △292108 △292101 △292107 △292106 △292105 △292109 △292102 △292103 △292104

ROCK CHIP SAMPLES

No.	Cu	Pb	Zn	As	Au
292101	10	55	145	6	<0.008
292102	10	15	10	<1	<0.008
292103	10	65	125	2	<0.008
292104	<5	<5	15	<1	<0.008
292105	<5	<5	20	<1	0.25
292106	<5	<5	15	<1	0.03
292107	<5	<5	10	<1	<0.008
292108	<5	40	10	1	0.13
292109	<5	<5	20	<1	0.03
292110	<5	15	15	<1	<0.008
292111	<5	15	10	<1	0.05
292248	25	75	160	22	0.24

743522

5 cm

7851

88-2853

GN MN 13° GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

ROCK GEOCHEMISTRY LOCATIONS & RESULTS

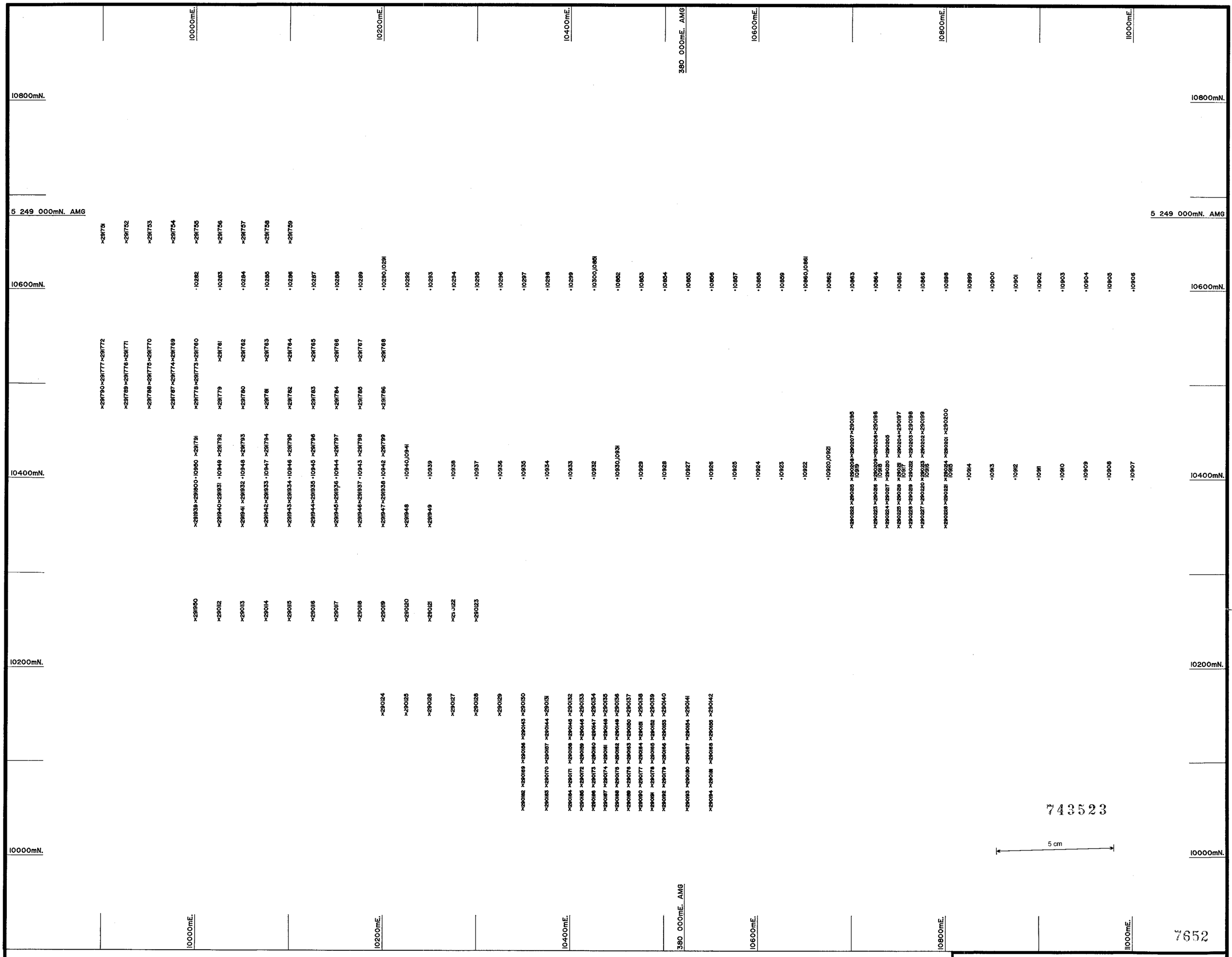
DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : April '88
REVISIONS :
FILE No.

SCALE 1 : 2500 25 0 50 100 METRES

FIG.

REPORT 595

ENCLOSURE 17



88-2853

KEY:

- • GEOPEKO SAMPLES REASSAYED
- x CYPRUS SAMPLES

GN
MN
13°
GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

B/C HORIZON

SOIL GEOCHEMISTRY

SAMPLE LOCATIONS

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DATE : April '88
REVISIONS :
FILE No.
FIG.

SCALE 1 : 2500 (25 0 50 100 METRES)

REPORT 595

ENCLOSURE 18

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

10800mN.

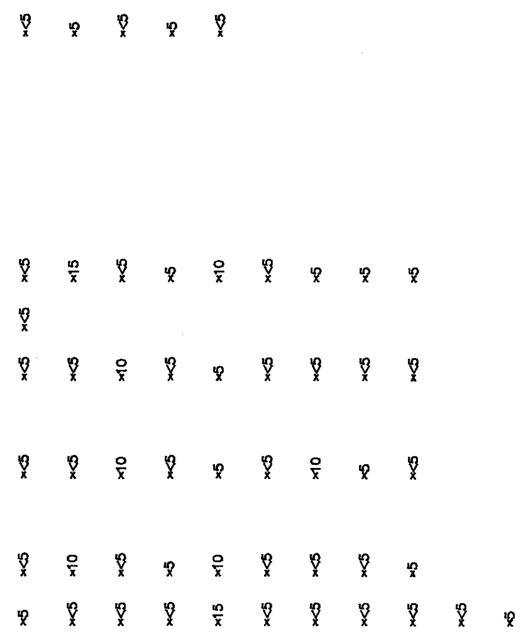
5 249 000mN. AMG

10600mN.

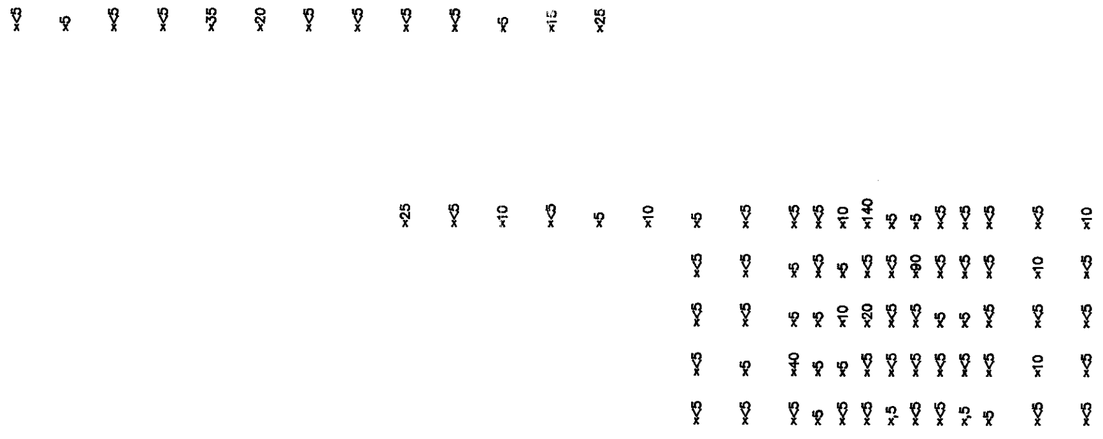
10400mN.

10200mN.

10000mN.







743524

5 cm

7653

KEY:

x CYPRUS SAMPLES

88-2853

GN

MN

13°

GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

B/C HORIZON

SOIL GEOCHEMISTRY

Cu RESULTS

DRAWN BY : R.P.

DRAFTSMAN : T.G.D.S.

DATE : April '88

REVISIONS :

FILE No.

SCALE 1 : 2500 25 0 50 100 METRES

FIG.

REPORT 595

ENCLOSURE 19

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

10800mN.

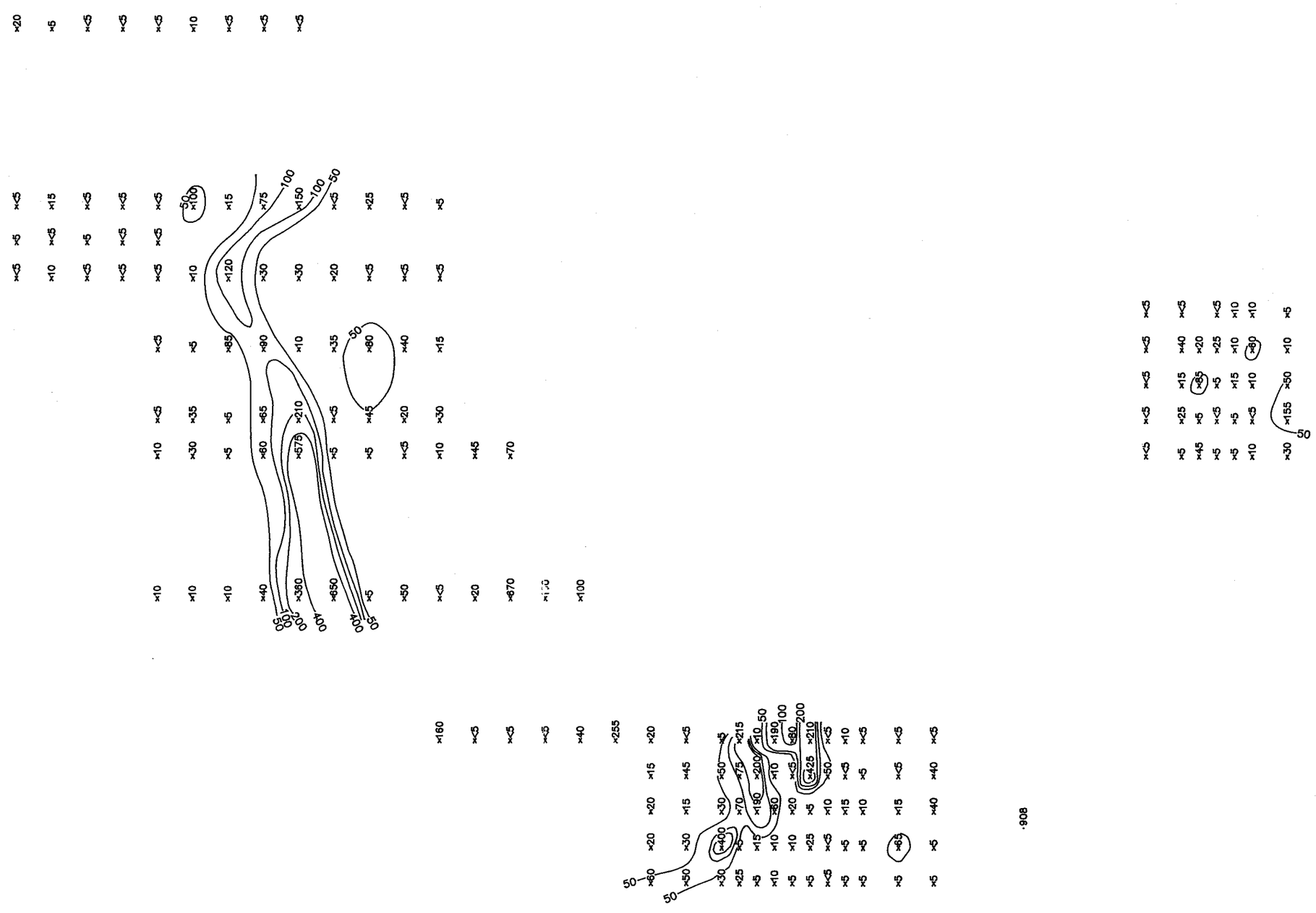
5 249 000mN. AMG

10600mN.

10400mN.

10200mN.

10000mN.



908

743525

5 cm

88-2853

7654

380 000mE. AMG

KEY:

× CYPRUS SAMPLES

GN

MN

13°

GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

B/C HORIZON

SOIL GEOCHEMISTRY

Pb CONTOURS

DRAWN BY : R.P.

DRAFTSMAN : T.G.D.S.

DATE : April '88

REVISIONS :

FILE No.

SCALE 1 : 2500 25 0 50 100 METRES

FIG.

REPORT 595

ENCLOSURE 20

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

10800mN.

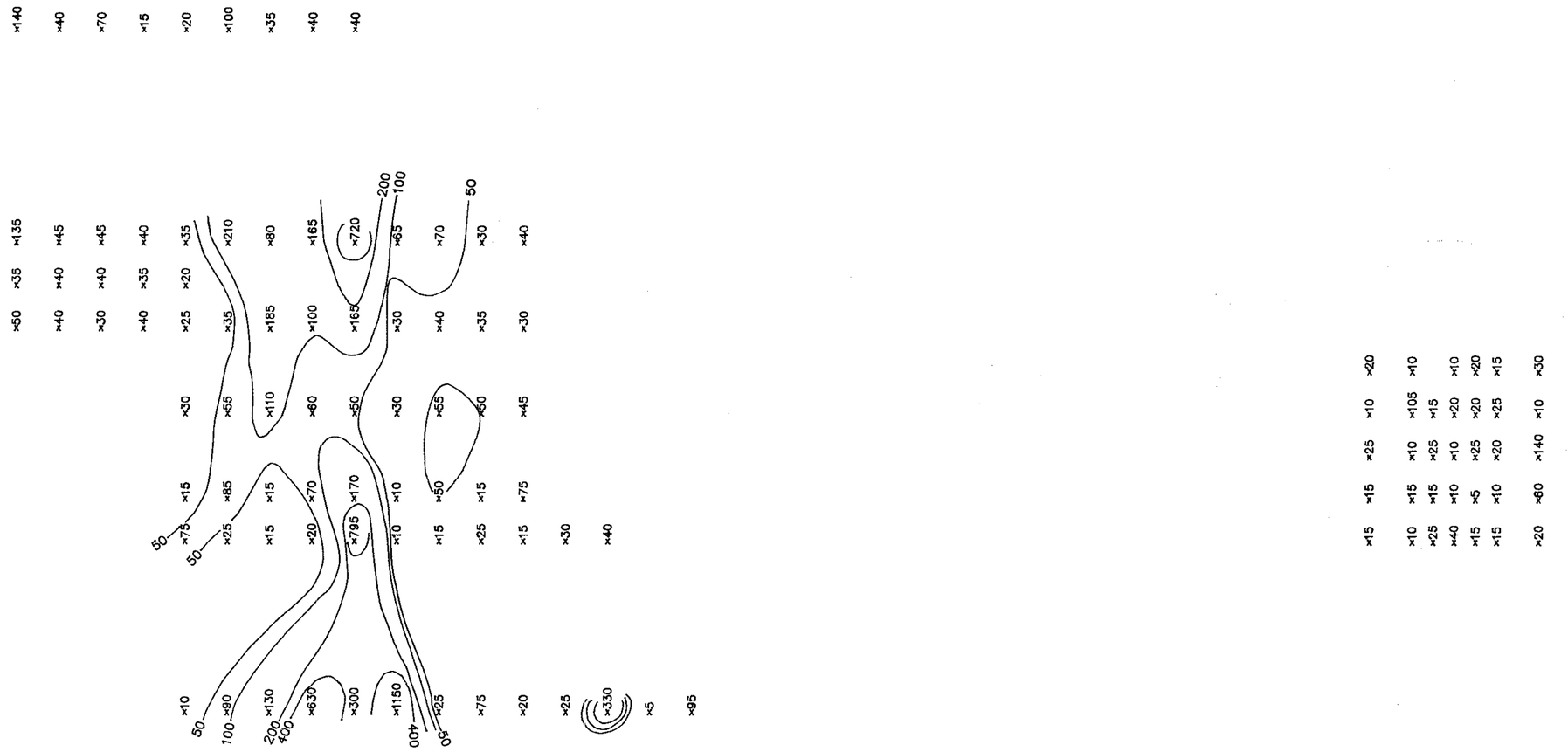
5 249 000mN. AMG

10600mN.

10400mN.

10200mN.

10000mN.



743526

5 cm

7655

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

88-2853

KEY:

x CYPRUS SAMPLES

GN
MN
13°
GN = TN

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

B/C HORIZON

SOIL GEOCHEMISTRY

Zn CONTOURS

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : April '88
REVISIONS :
FILE No.
FIG.

SCALE 1 : 2500 25 0 50 100 METRES

REPORT 595

ENCLOSURE 21

10800mN.

5 249 000mN. AMG

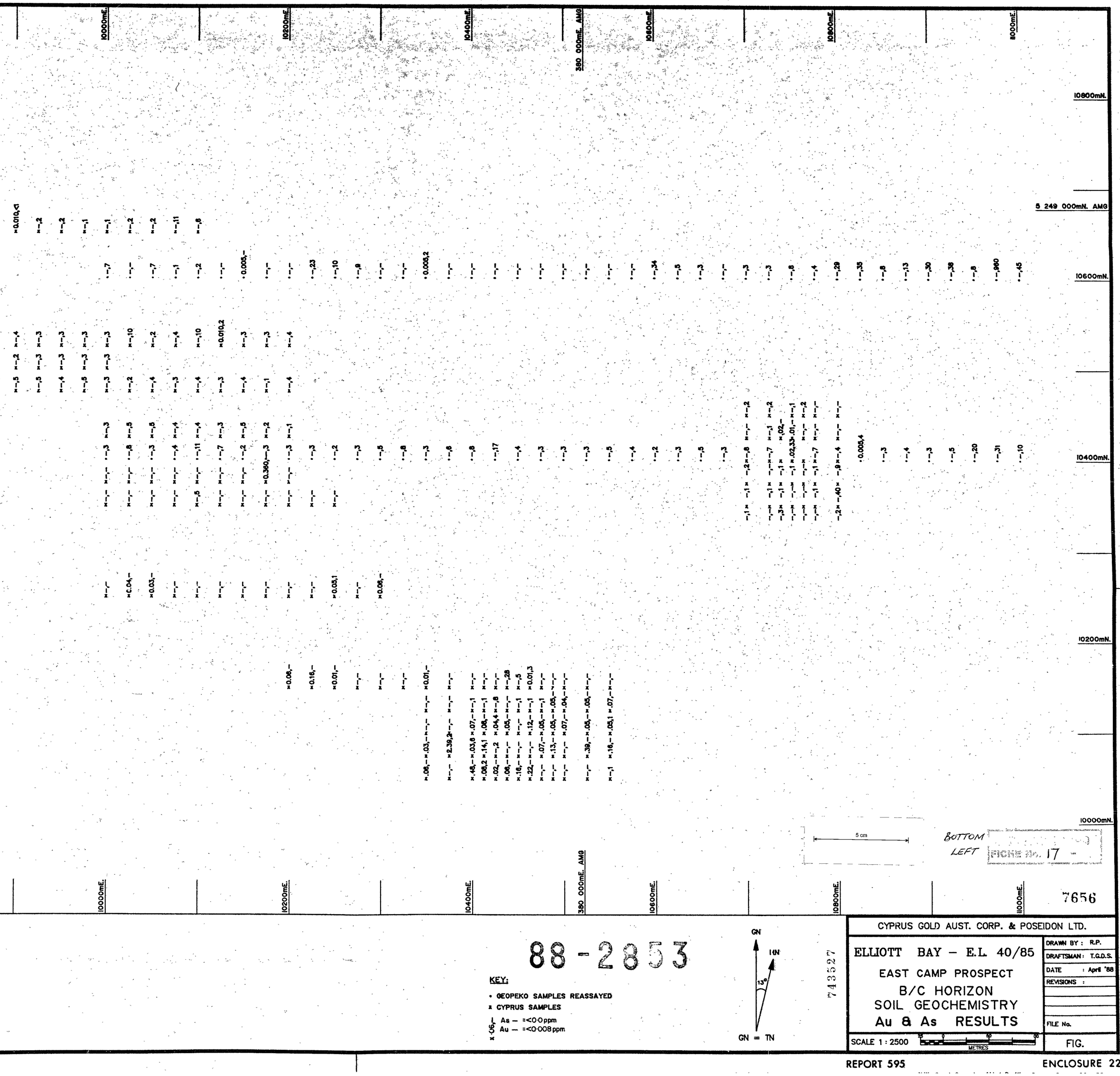
10600mN.

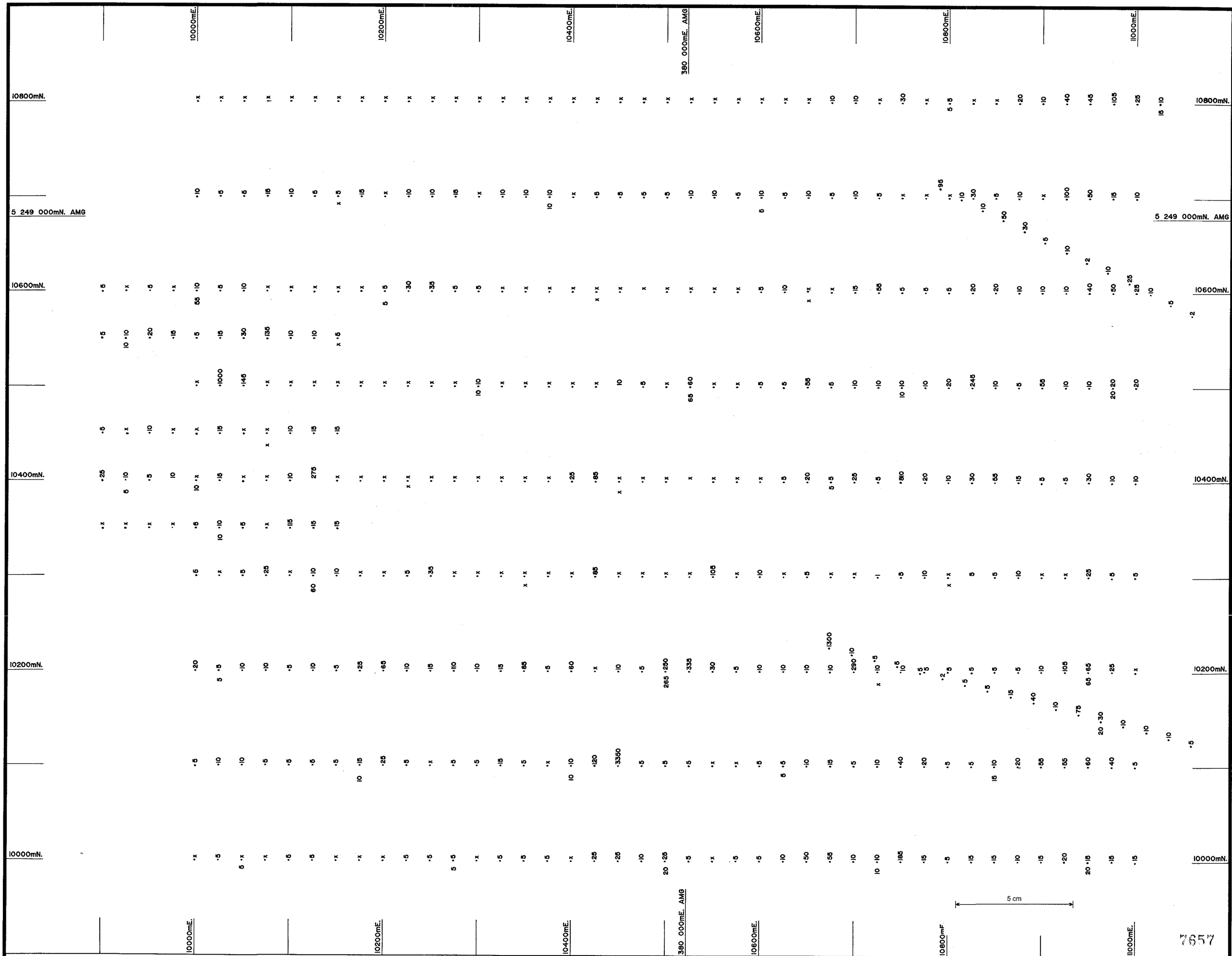
10400mN.

10200mN.

10000mN.

10000mE. | 10200mE. | 10400mE. | 380 000mE. AMG | 10600mE. | 10800mE. | 11000mE.


×0.010,<1 ×-,2 ×-,2 ×-,1 ×-,1 ×-,2 ×-,2 ×-,11 ×-,6
×-,5 ×-,2 ×-,4 ×-,5 ×-,3 ×-,3 ×-,3 ×-,3 ×-,3 ×-,3 ×-,3 ×-,3 ×-,10 ×-,2 ×-,4 ×-,3 ×-,4 ×-,4 ×-,10 ×-,4 ×0.010,2 ×-,3 ×-,4 ×-,3 ×-,1 ×-,4
×-,-- ×-,-- ×-,--



KEY:
x <5 ppm

88-2853

FROM WILSON, GEOPEKO 1982

GN
MN
13°
GN = TN

7438528

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

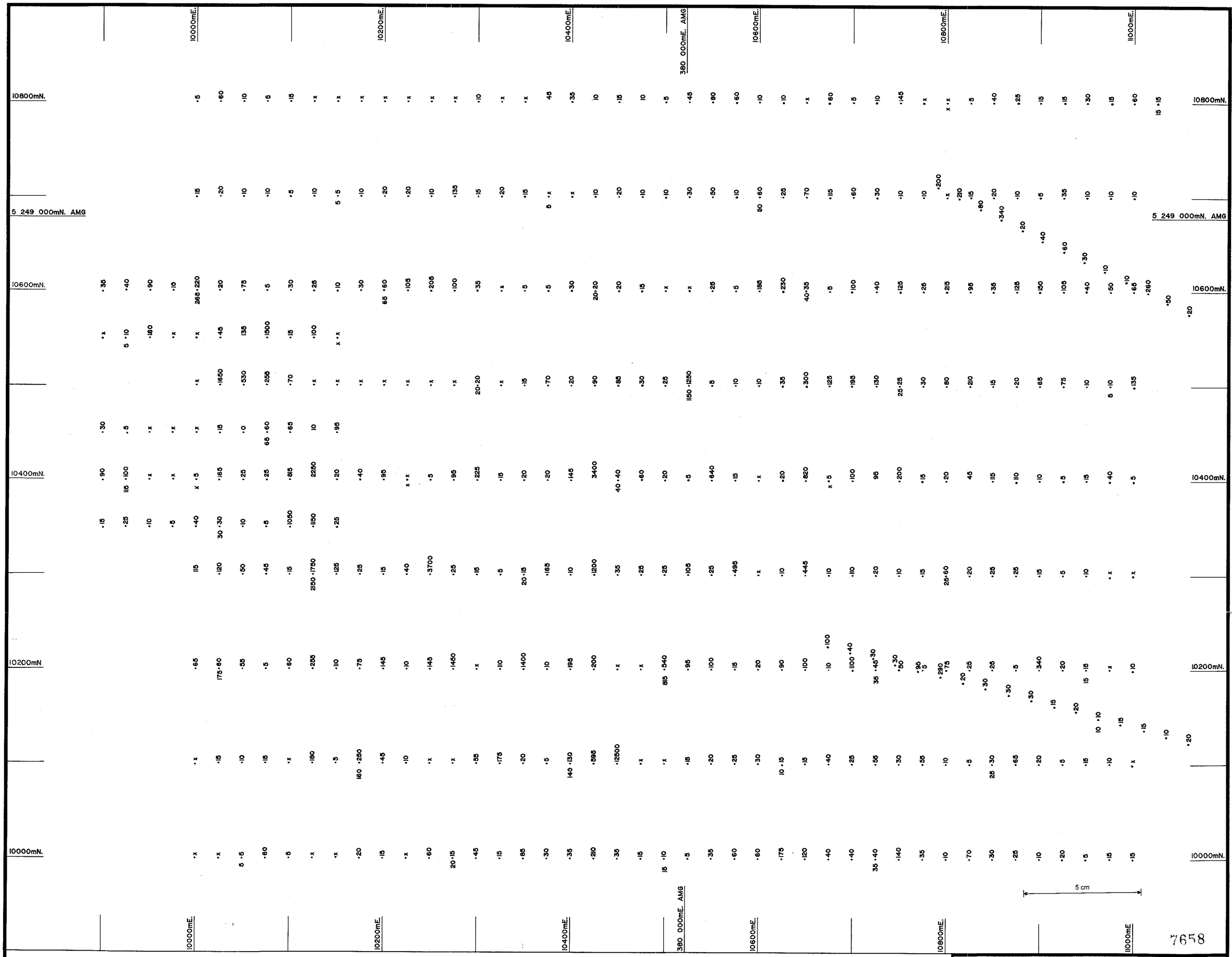
ELLIOTT BAY – E.L. 40/85
EAST CAMP PROSPECT
C-HORIZON GEOCHEM. RESULTS
COPPER

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.
SCALE 1 : 2500 (25 0 50 100 METRES)
FIG.

7657

REPORT 595

ENCLOSURE 23



KEY:
x <5ppm

88-2853

FROM WILSON, GEOPEKO 1982

GN
MN
13°
GN = TN

7438529

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

C-HORIZON GEOCHEM. RESULTS

LEAD

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.
FIG.

SCALE 1 : 2500 (25 0 50 100 METRES)

7658

REPORT 595

ENCLOSURE 24

10000mE. 10200mE. 10400mE. 380 000mE. AMG 10600mE. 10800mE. 11000mE.

10800mN.

5 249 000mN. AMG

10600mN.

10400mN.

10200mN.

10000mN.

5 cm

7659

88-28537

CONTOUR INTERVAL

- 100 - 199 ppm
- 200 - 399 ppm
- 400 - 799 ppm
- 800 - 1599 ppm
- > 1600 ppm

FROM WILSON, GEOPEKO 1982

GN
MN
13°
GN = TN

743530

CYPRUS COLL & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

EAST CAMP PROSPECT

C-HORIZON GEOCHEM. RESULTS

ZINC CONTOURS

DRAWN BY :	R.P.
DRAFTSMAN :	T.G.D.S.
DATE :	April '87
REVISIONS :	April '88
FILE No.	
SCALE 1 : 2500	FIG.

25 0 50 METRES

REPORT 595

ENCLOSURE 25

N.W. Coast Computer Aided Drafting (xxxxx xxxxx 100m 354X151)

10000 N.

9900 N.

9800 N.

9700 N.

9600 N.

9500 N.

9400 N.

9300 N.

9200 N.

9100 N.

9000 N.

8900 N.

8800 N.

8500 E.

8600 E.

8700 E.

8800 E.

8900 E.

9000 E.

9100 E.

9200 E.

9300 E.

9400 E.

9500 E.

292246

292201 292202 292203 292204 292205 292206 292207
292214 292213 292212 292211 292210 292209 292208
292215 292216 292217 292218 292219 292220 292221 292222 292223
292224 292225 229226 292227 292228 229229 292230 292231 292232
292234 292233

171992

171993

171597/98
171650

171599

292015 292014 292013 292012 292011 292010 292009 292008 292007 292006 292005 292004 292003 292002 292001 292000 291999 291998 291997 291996 291995 291994 291993 291992 291991 291990 291989 291988 291987 291986 291985 291984 291983 291982 291981 291980 291979 291978 291977 291976 291975 291974 291973 291972 291971 291970 291969 291968 291967

292016 292017 292018 292019 292020 292021 292022 292023 292024 292025 292026 292027 292028 292029 292030 292031 292032 292033 292034 292035 292036 292037 292038 292039 292040 292041 292042 292043 292044 292045 292046 292047 292048 292049 292050 292051 292052 292053 292054 292055 292056 292057 292058 292059 292060 292061

292245 292244 292243 292242 292241 292240 292239 292238 292237 292236 292235 292100 292099 292098 292097 292096 292095 292094 292093 292092 292091 292090 292089 292088 292087 292086 292085 292084 292083 292082 292081 292080 292079 292078 292077 292076 292075 292074 292073 292072 292071 292070 292069 292068 292067 292066 292064/065 292063 292062

292901 292902 292903 292904 292905 292906 292907 292908 292909 292910 292911 292912 292913 292914 292915 292916 292917 292918 292919 292920 292921 292922 292923 292924 292925 292926 292927 292928

88-2853

5 cm

7660

743531

GN
MN
13°
GN = TN

LEGEND

× B/C HORIZON SOIL SAMPLE

△ ROCK CHIP SAMPLE

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

SASSY CREEK

B/C HORIZON SOIL & ROCK SAMPLE LOCATIONS

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.

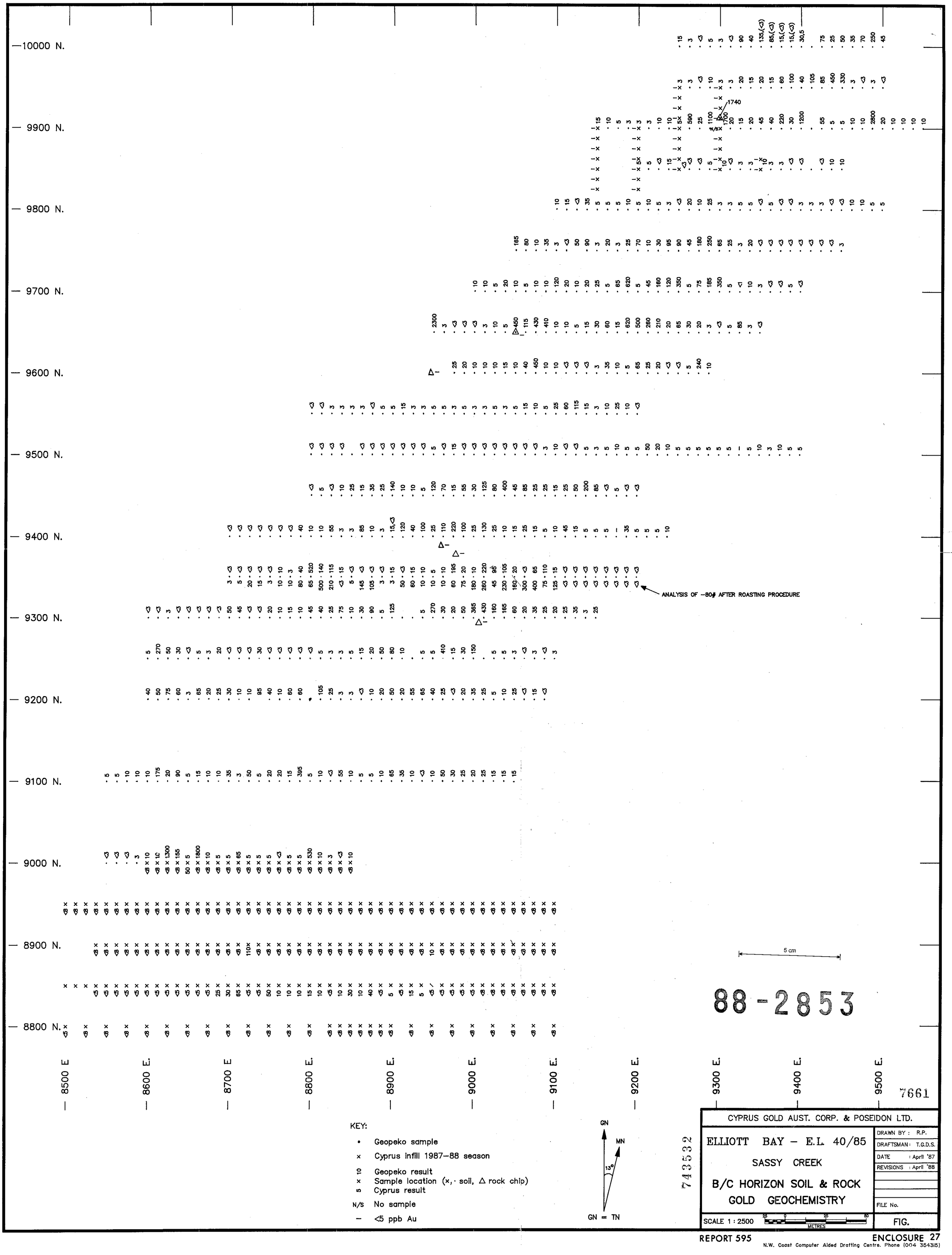
SCALE 1 : 2500 25 0 25 50 METRES

FIG.

REPORT 595

ENCLOSURE 26

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REPORT 595

ENCLOSURE 27

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

10000 N.
9900 N.
9800 N.
9700 N.
9600 N.
9500 N.
9400 N.
9300 N.
9200 N.
9100 N.
9000 N.
8900 N.
8800 N.

V24–4
V24–2
V24–1
V24–3

ANALYSIS OF –80# AFTER ROASTING PROCEDURE

CYPRUS 1987 – 88 RESULTS

5 cm

88-2853

8500 E.
8600 E.
8700 E.
8800 E.
8900 E.
9000 E.
9100 E.
9200 E.
9300 E.
9400 E.
9500 E.

7662

CONTOUR INTERVAL
- 50 - 100 ppb
- 100 - 200 ppb
- 200 - 400 ppb
- 400 ppb

FROM WILSON, GEOPEKO 1982

GN
MN
13°
GN = TN

7435333

CYPRUS GOLD AUST. CORP. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

SASSY CREEK

C HORIZON SOIL GEOCHEMISTRY

GOLD CONTOURS

DRAWN BY: R.P.
DRAFTSMAN: T.G.D.S.
DATE : April '87
REVISIONS : April '88
FILE No.

SCALE 1 : 2500 (25 0 50 100 METRES)

FIG.

REPORT 595

ENCLOSURE 28

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

75000mE. 76000mE. 77000mE. 78000mE. 79000mE. 80000mE. 81000mE. 82000mE. 382500mE.

46000mN. 45000mN. 44000mN. 43000mN. 42000mN. 41000mN. 40000mN. 5239000mN.

OCEAN

SOUTHERN

CREEK

SASSY

LEWIS

RIVER

VERIDIAN POINT

PENDERS PROSPECT

BLACK ISLAND

WAVE-CUT PLATFORM

LOW ROCKY POINT

ELLIOTT BAY

OSMUND FAULT

LEWIS RIVER FAULT

LIMONITIC VOLCANICS
QUARTZ-SULPHIDE VEINS.
MAGNETIC ANOMALY
Au TO 7.25g/t
IN ROCK (V6)

VOLCANICS & GRANITE WITH DISSEMINATED MAGNETITE & QUARTZ-PYRITE VEINS (V5)

EM ANOMALY (1975 GEOEX DATA) (V11)

MASSIVE & BANDED MAGNETITE-PYRITE-CHLORITE BEDS (V1)

MAGNETITE IN GRANITE (V3A)

CYPRUS LINE 11600 N.
CYPRUS LINE 11500 N.
CYPRUS LINE 11400 N.
CYPRUS LINE 10900 N.
CYPRUS BASELINE 10900 E. GEOPEKO BASELINE 10000 E.
10300 E. CYPRUS
11000 E. CYPRUS

	Cu	Pb	Zn	Ag	As	Au
171283	1950	10	505	–	94	0.065
171284	2.65%	220	940	27	450	0.875
171285	9350	310	1800	20	550	0.2
171286	435	70	630	1.5	31	0.02
171287	590	–	160	2.5	6	–
202716	10	–	10	–	1	–
202717	540	–	10	–	1	–
202718	15	–	10	–	1	–
202719	25	–	5	–	1	–
202720	15	–	10	–	1	–
202721	10	–	15	–	–	–
202722	15	–	35	–	1	–
202723	10	–	35	–	–	–
202724	10	–	15	–	–	–
202725	25	–	40	–	1	–
202726	40	–	40	–	2	–
202727	10	–	60	–	1	–
202728	15	–	110	–	3	–
202729	7500	245	3100	7.0	71	0.03
202730	35	–	65	–	6	–
202731	15	20	50	–	4	–
202732	30	25	50	–	7	–
202733	20	–	55	–	1	–
202734	550	–	110	–	7	–
202735	80	70	185	–	8	0.005
202736	50	–	55	–	1	–
202737	1400	15	90	–	16	0.01
202738	135	–	10	–	1	–
202738	770	–	40	–	58	0.01
202740	240	–	40	–	9	–
202741	8400	75	90	3.0	16	0.01

2m Strip Samples

	Cu	Pb	Zn	Ag	As	Au
171970	90	505	610	–	37	0.15
171981	910	675	60	21	25	7.25
171982	1150	395	30	14	21	8.77
171983	30	5	15	–	8	–
171984	20	15	60	–	7	–
171985	20	5	130	–	6	–
171986	45	50	85	–	4	–
171987	15	95	160	–	3	–
216391	590	3700	125	57	–	0.59
216392	220	255	40	1	–	0.07
216393	530	455	40	1	6	0.65
216394	40	–	50	–	–	0.05
216395	125	60	20	–	–	0.04
216396	10	–	5	–	–	0.01
216397	5	–	15	–	–	0.01
216398	280	135	10	28	19	1.81

LEGEND

- 5 / 5a — WART HILL and HUDSON RIVER VOLCANICS – undifferentiated – fine to medium grained rhyolitic volcaniclastic
- 7 — LOW ROCKY POINT GRANITE
- 10 / 10d — WESTERN EPICLASTICS – undifferentiated – fine to medium grained rhyolitic volcanics
- Fault
- Magnetic Lineament
- (V1) Geopeko Voyager Prospect
- △ 171437 – Sample No.
- CU|AG / PB|AS / ZN|AU – Results (ppm)
- Samples with a 17 or 20 prefix are 1986 – 87 season with a 29 prefix are 1987 – 88 season

1986 – 87 Season
- (2) Visible gold grain count in panned concentrate
- – —— –80# Au result (ppm)
- 68 —— Panned concentrate Au result (ppm)
- NS —— No Sample
- – —— Below level of detection

1987 – 88 Season
- (2) Visible gold grain count in panned concentrate
- 292794 – –80# sample number
- CU|AG / PB|AS / ZN|AU – Results (ppm)

SHEET LOCATION

SHEET 1	SHEET 2
SHEET 3	SHEET 4
SHEET 5	SHEET 6

GRID CONVERGENCE 1.2° (GN, TN, MN) GRID/MAGNETIC ANGLE 12.5°

88-2853 | 7663

CYPRUS MINERALS AUST. CO. & POSEIDON LTD.

ELLIOTT BAY – E.L. 40/85

LOW ROCKY POINT

GEOLOGICAL / GEOCHEMICAL COMPILATION

7433534

DRAWN BY :	R.P.&C.T.
DRAFTSMAN :	T.G.D.S.
DATE :	May '87
REVISIONS :	April '88
FILE No.	

SCALE 1 : 10000 (200 0 200 400 METRES)

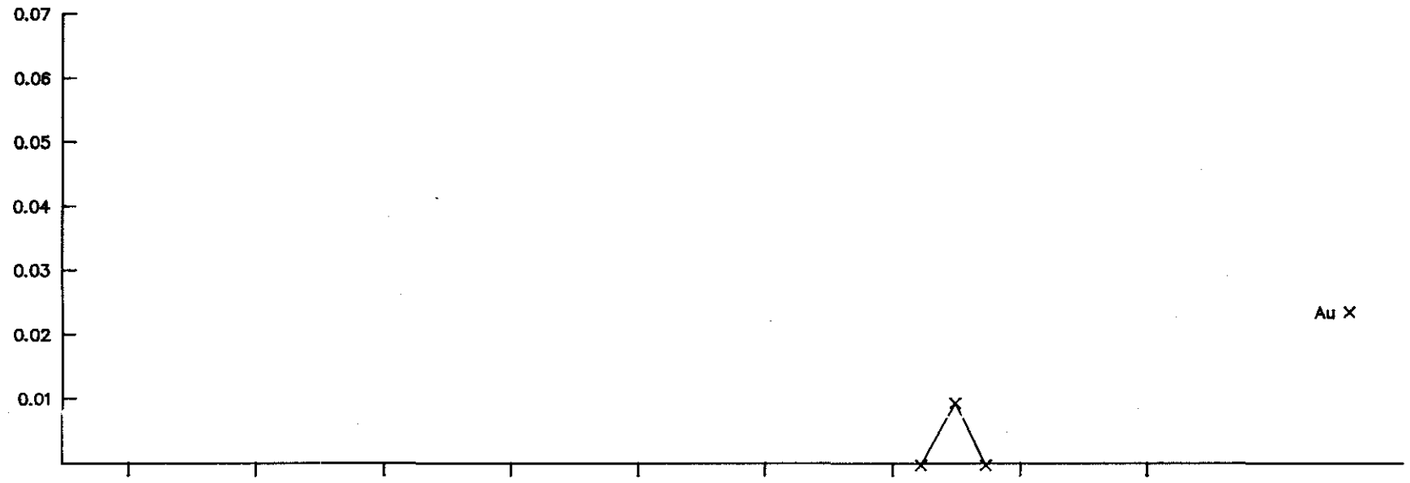
FIG.

REPORT 595

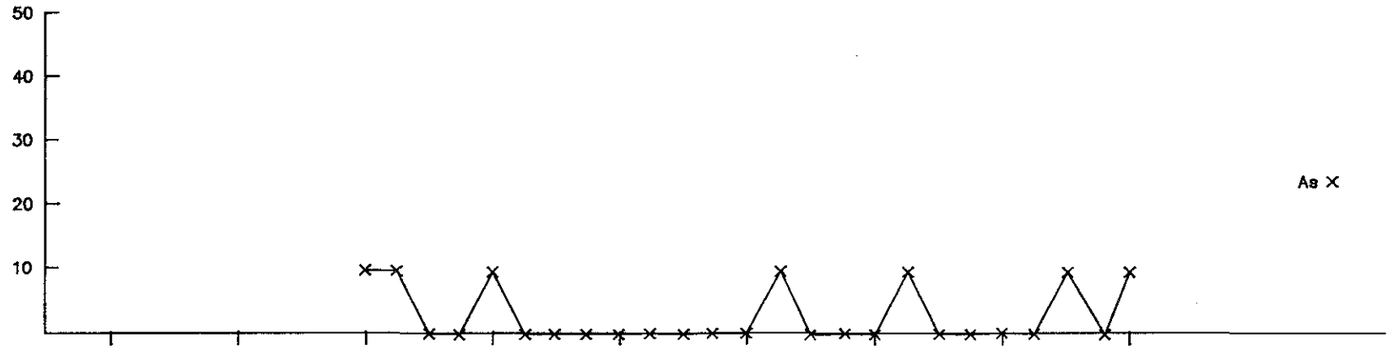
ENCLOSURE 29

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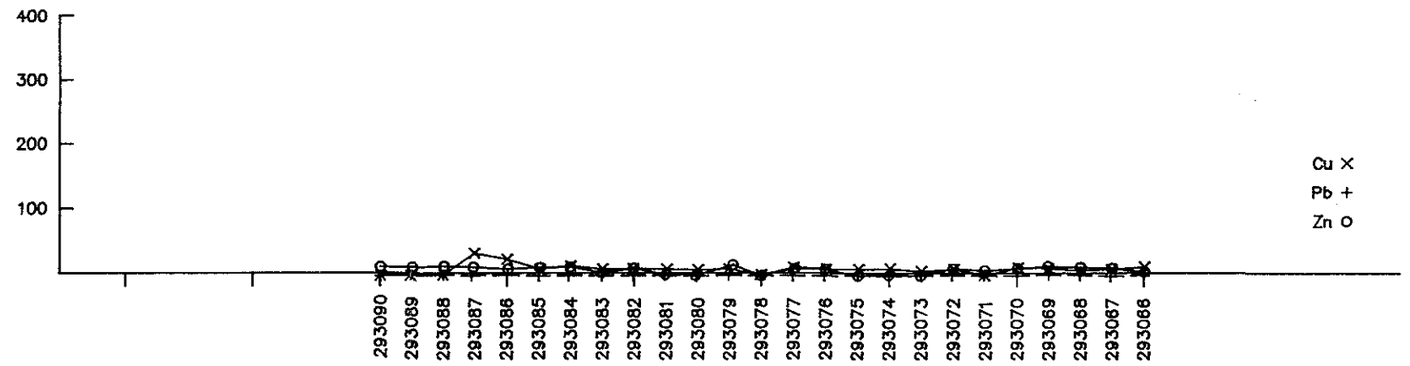
GOLD
ppm

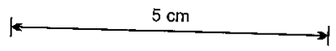


ARSENIC
ppm



COPPER
LEAD
ZINC
ppm





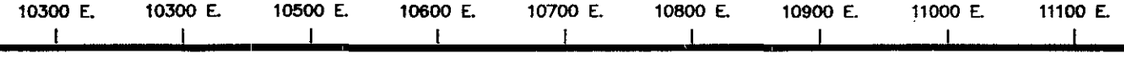
743535

REPORT 595 ENCLOSURE 30

7664

VOLCANICS | GRANITE

BASE LINE
GEOPEKO 10000 E.



88-2353

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LOW ROCKY POINT

LINE PROFILE 10900 N.
GEOPEKO LINE 10400 N.

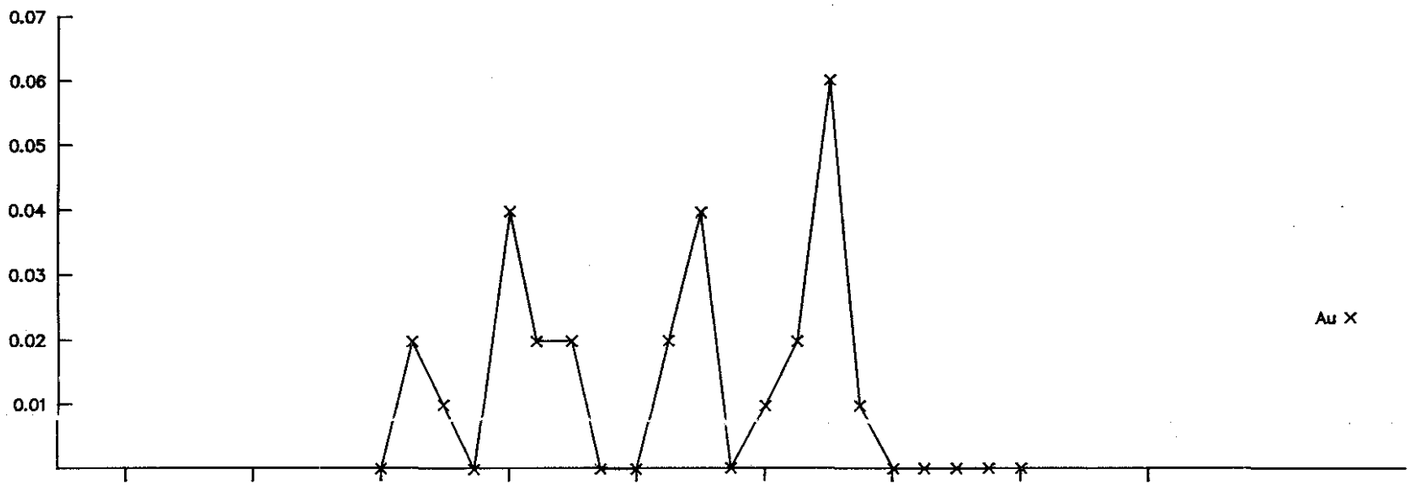
DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : June '88
REVISIONS :
FILE No.

SCALE 1 : 5000 500 0 500 1000 METRES

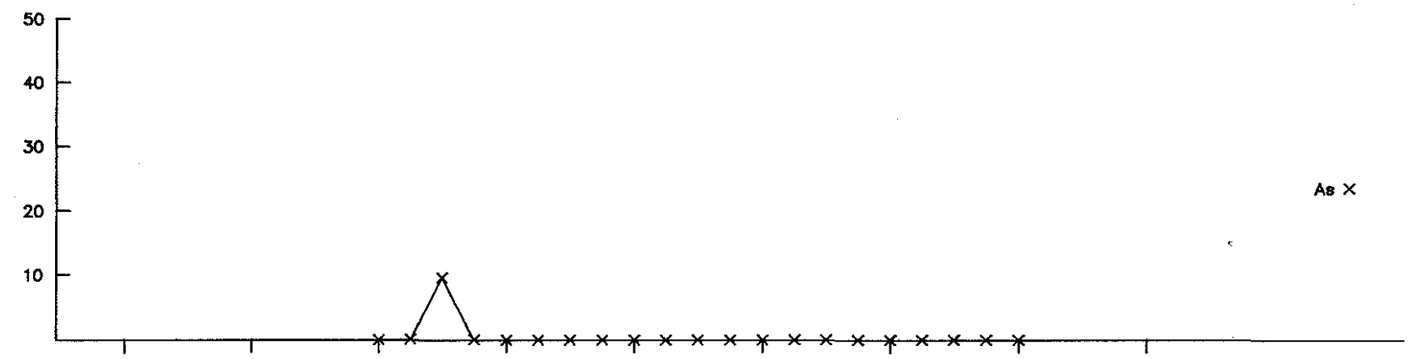
FIG.

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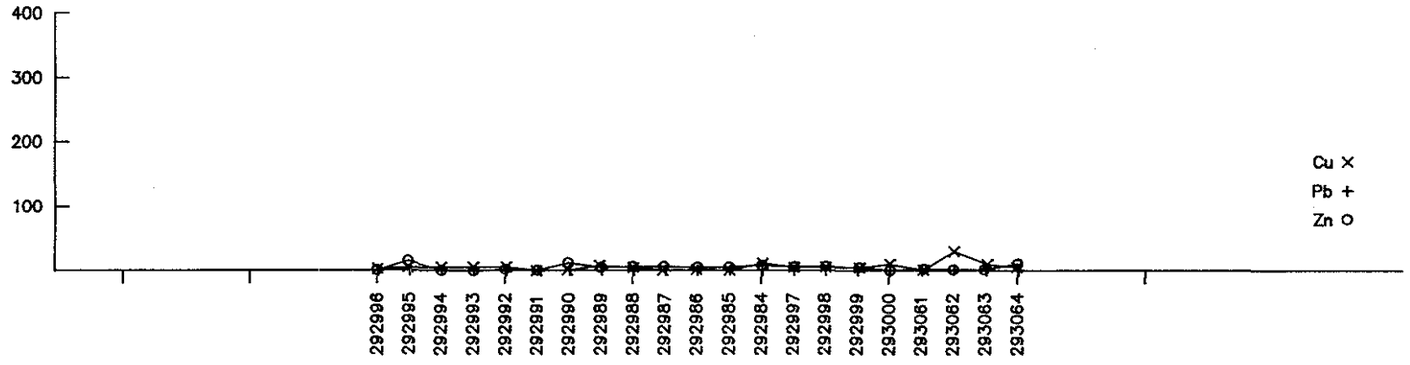
GOLD
ppm

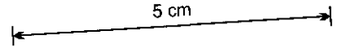


ARSENIC
ppm



COPPER
LEAD
ZINC
ppm





VOLCANICS | GRANITE

BASE LINE
GEOPEKO 10000 E.

10300 E. 10300 E. 10500 E. 10600 E. 10700 E. 10800 E. 10900 E. 11000 E. 11100 E.

88-2853

REPORT 595 ENCLOSURE 31

743536 7665

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LOW ROCKY POINT

LINE PROFILE 11400 N.

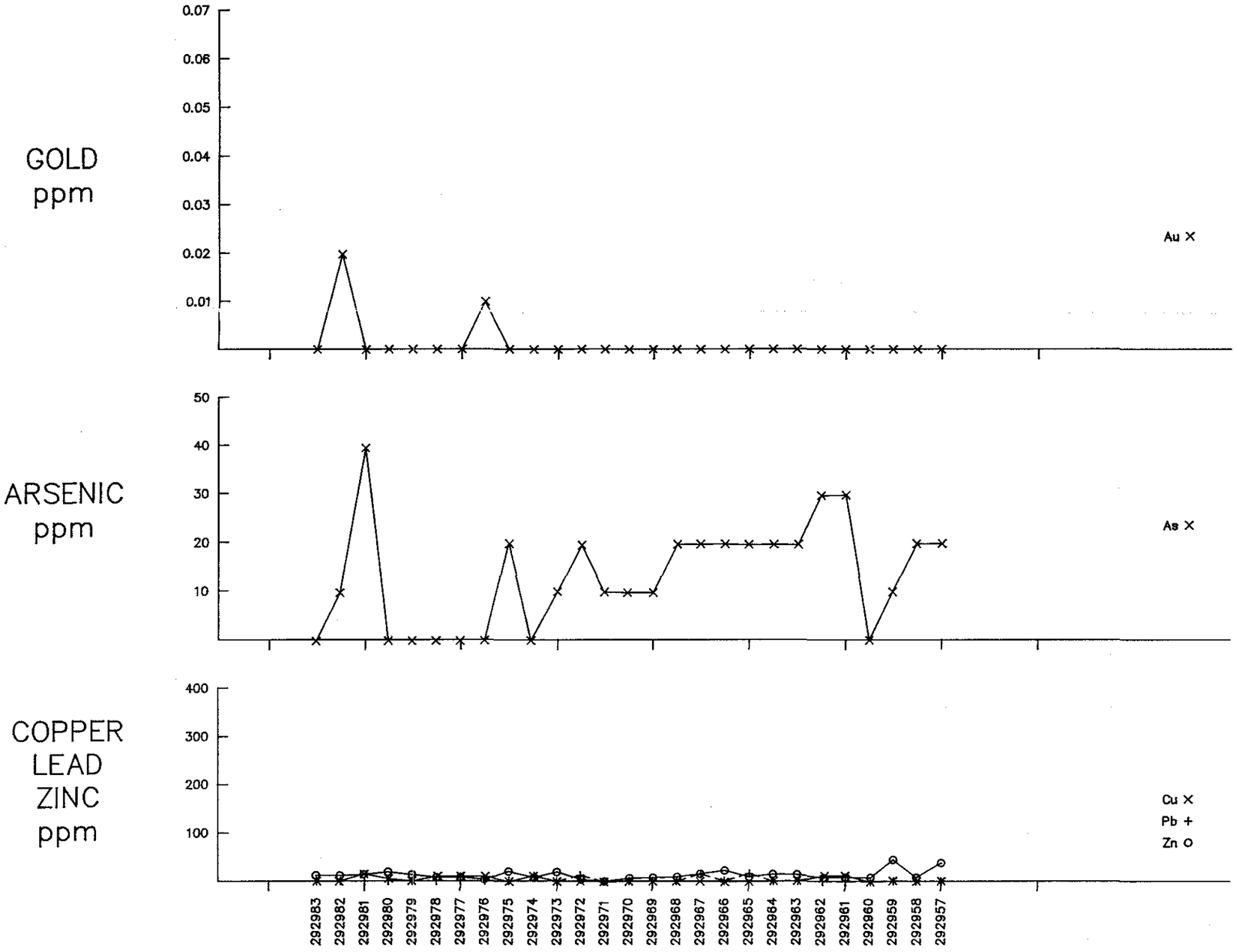
GEOPEKO LINE 10900 N.

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : June '88
REVISIONS :
FILE No.

SCALE 1 : 5000 500 0 500 1000 METRES

FIG.

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5 cm

REPORT 595 ENCLOSURE 32

743537 7666

88-2853

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LOW ROCKY POINT

LINE PROFILE 11500 N.

GEOPEKO LINE 11000 N.

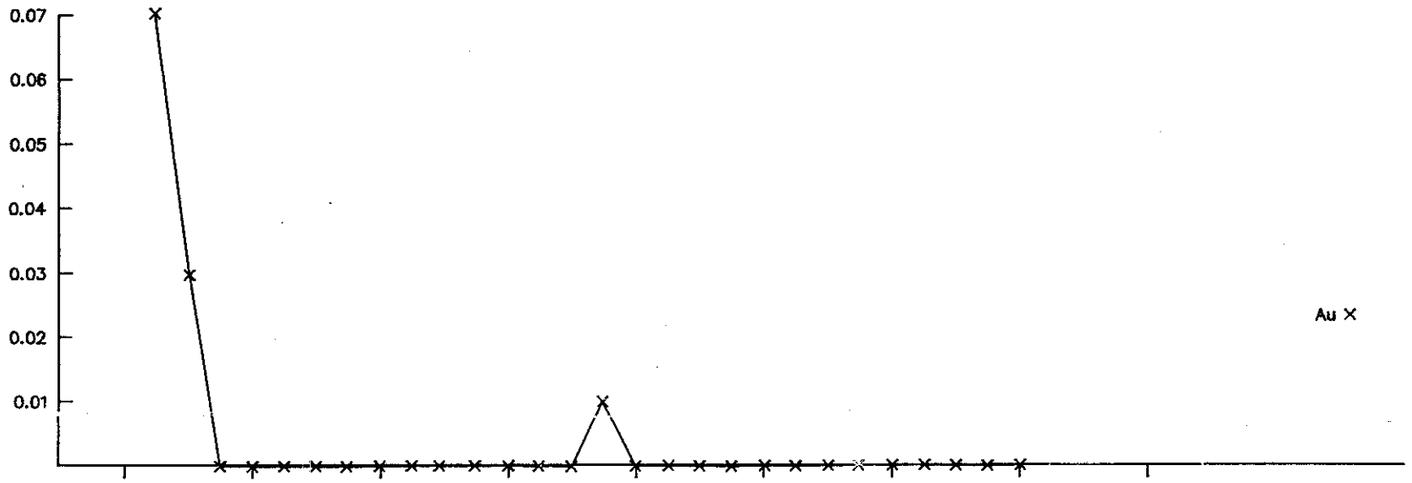
DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : June '88
REVISIONS :
FILE No.

SCALE 1 : 5000 (500 0 500 1000 METRES)

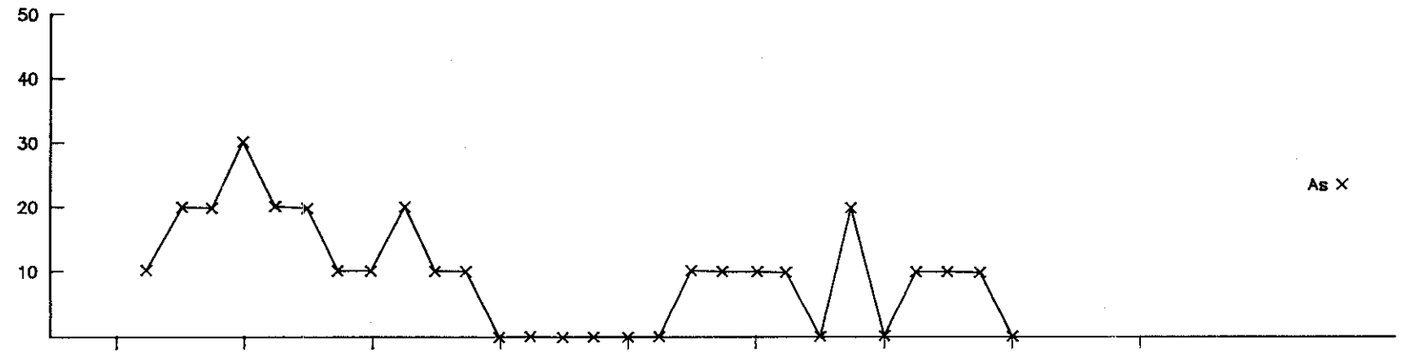
FIG.

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)

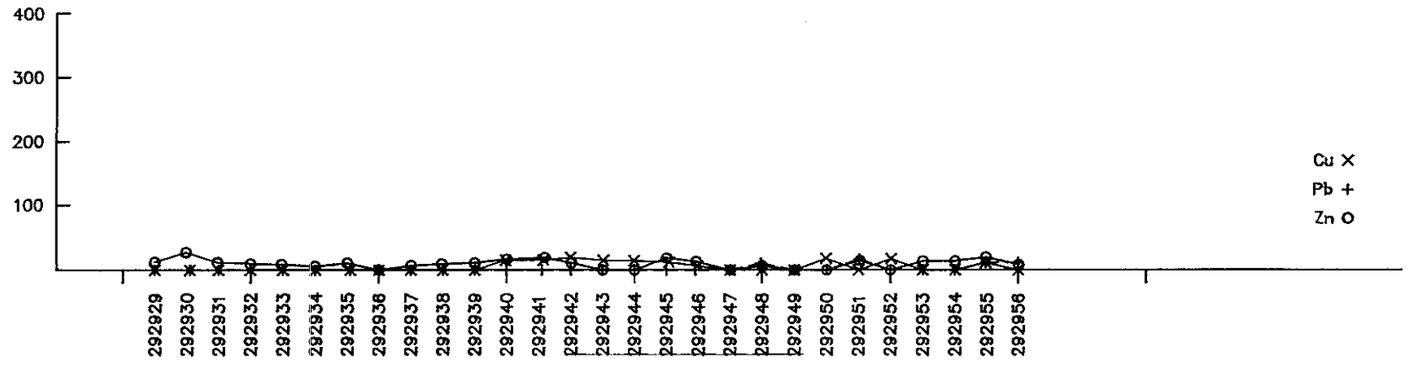
GOLD
ppm



ARSENIC
ppm



COPPER
LEAD
ZINC
ppm



5 cm

VOLCANICS | GRANITE

BASE LINE
GEOPEKO 10000 E.

10300 E. 10300 E. 10500 E. 10600 E. 10700 E. 10800 E. 10900 E. 11000 E. 11100 E.

88-2853

REPORT 595 ENCLOSURE 33

743538 7667

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ELLIOTT BAY – E.L. 40/85

LOW ROCKY POINT

LINE PROFILE 11600 N.

GEOPEKO LINE 11100 N.

DRAWN BY : R.P.
DRAFTSMAN : T.G.D.S.
DATE : June '88
REVISIONS :
FILE No.
FIG.

SCALE 1 : 5000 500 0 500 1000 METRES

N.W. Coast Computer Aided Drafting Centre. Phone (004 354315)