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No. 1698

SML 584

KANYAKA

**PROGRESS REPORTS TO LICENCE
SURRENDER/PARTIAL RENEWAL FOR THE PERIOD
27/5/1971 TO 26/11/1971**

Submitted by
Electrolytic Zinc Co. of Australasia Ltd
1971

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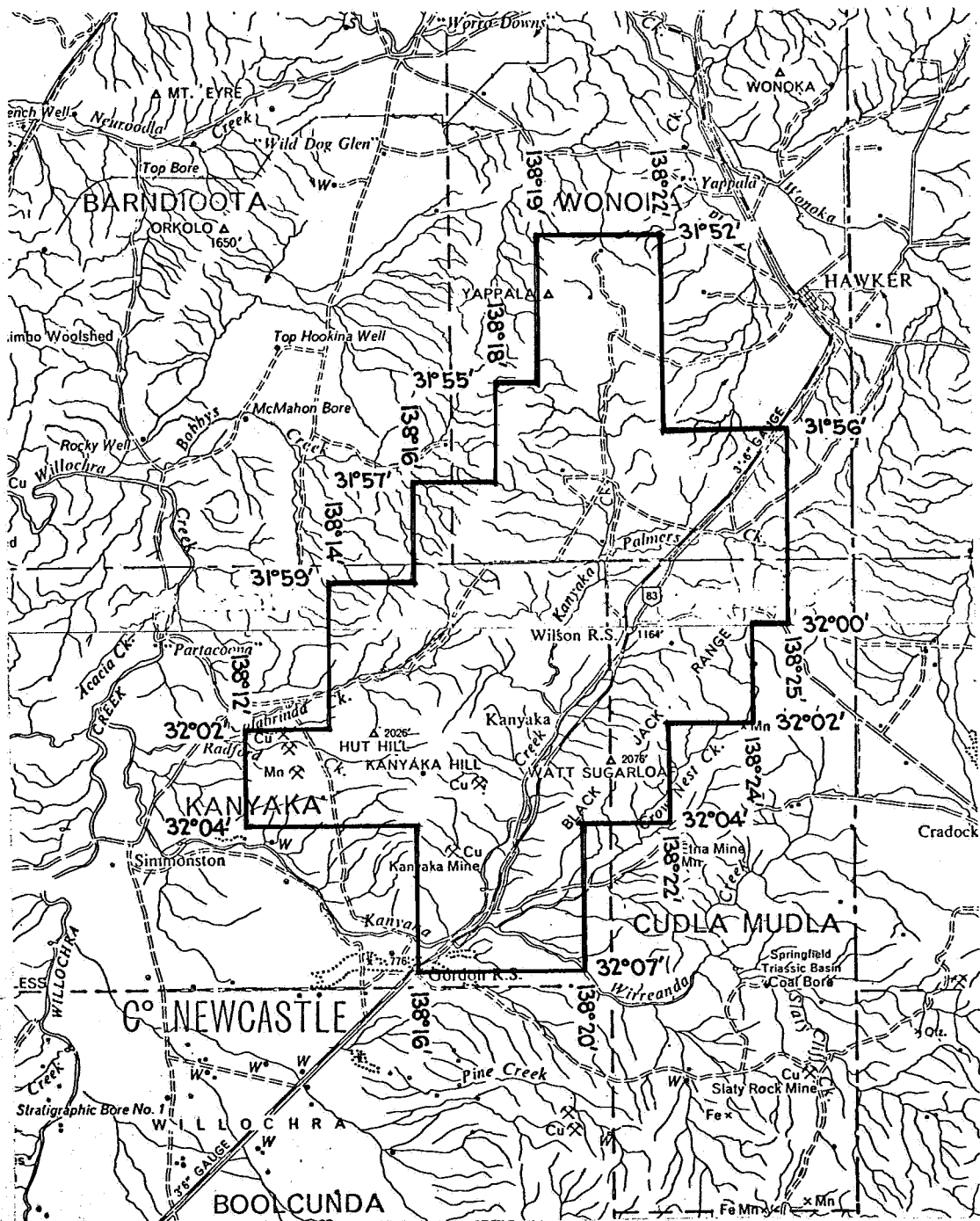
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Government of South Australia
Primary Industries and Resources SA



SCALE 1:250000

ELECTROLYTIC ZINC CO. OF A/ASIA. LTD.

DOCKET D.M. 541/71 AREA 114 SQ MILES

1:250000 PLANS . PARACHILNA

. ORROROO

LOCALITY

S.M.L. No. 584

EXPIRY DATE 26.7.72

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TENEMENT: S.M.L. 584 - Kanyacka.

TENEMENT HOLDER: Electrolytic Zinc Of Australasia Ltd.

REPORT: No. 1 Three Monthly Period Ended 26th Aug. 1971.Pgs. 3-5
 No. 2 " " " " 26th Nov. 1971.Pgs. 6-9

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
EXPLORATION DEPARTMENT

Special Mining Lease No. 584

KANYAKA

Report No. 1 for three months ended 26th August, 1971

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

EXPLORATION DEPARTMENT

Special Mining Lease No. 584

Report No. 1 for three months ended 26th August, 1971

ABSTRACT

A stream geochemical sampling programme was commenced in the Lease.

GEOCHEMISTRY

Aerial photographs were obtained from the Lands Department and stream sheets drawn up at a scale of 1 inch to 1,700 feet.

Samples are being collected from sediments of creeks draining Lower Cambrian limestone.

Results of geochemical analyses are not yet available.

GEOLOGY

A brief geological investigation of the Lease area was made by a senior geologist.

With the permission of the claim-holders, the Kanyaka Mine was examined.

FUTURE PROGRAMME

Geochemical sampling will continue. An examination will be made of possible extensions of a rare earth anomalously located by Kennecott Explorations (Australia) Pty. Ltd., in the Kanyaka Mine area.

PRESERVATION OF INFORMATION

Copies of all relevant reports and plans are kept at both our Melbourne and Adelaide offices.

PERSONNEL

Sampling is being undertaken by four field assistants under the supervision of a senior geologist.

R. A. Horn,
Senior Geologist,
Exploration Department.

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITEDEXPLORATION DEPARTMENTSpecial Mining Lease No. 584KANYAKAReport No. 2 for three months ended 26th November, 1971

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
EXPLORATION DEPARTMENT

Special Mining Lease No. 584

Report No. 2 for three months ended 26th November, 1971

ABSTRACT

A geochemical reconnaissance sampling programme was completed. Investigations were made of rare earth anomalies in the vicinity of Kanyaka Mine. A brief geological study was made of the southern portion of the Lease.

GEOCHEMISTRY

1. Base metals

Samples were collected at the intersections of creeks draining Lower Cambrian sediments. Several lead-zinc anomalies were located and found to be related to the Parachilna Formation at the base of the Cambrian. The intensity of these anomalies is of the order of seven times background.

A more intense anomaly was found in creeks draining a crush zone in the south-east of the Lease. Lead values were as high as 1,000 ppm.

Stream sheets, showing distribution of lead, zinc and copper, were drawn up at a scale of 1 inch to 1,700 feet.

2. Rare earths

Investigations of a rare earth anomaly, reported in the previously quarterly report (No. 1 for three months ended 26th August, 1971) failed to duplicate high lanthanum, yttrium and scandium values recorded by Kennecott (in

Johns R. K., 1969, Rep. Bk. No. 67/77,
G. S. No. 4105, D.M. 1686/68, South Australia
Department of Mines).

As rare earths are significant indicators of
carbonatite/kimberlite rocks, further field
examinations will be pursued with the intention
of locating intrusions similar to the Orroroo
occurrence.

GEOLOGY

A brief examination of literature and field mapping
within the area of the Orroroo four-mile sheet
(Binks 1968) was undertaken in an attempt to relate
Kanyaka geologically with known kimberlite/carbonatite
material in Special Mining Lease No. 646 at Orroroo.
Work is in progress and several interesting aspects
are being pursued.

CONCLUSIONS

1. Anomalies related to the Parachilna formation
are thought to reflect dispersion of primary,
possibly syngenetic, mineralisation within
this formation. Although the possibility of
economic mineralisation has not been eliminated,
anomalies discovered do not warrant the high
cost of geophysical surveying and drilling which
would be required to investigate the formation
further.
2. Anomalies related to the crush zone in the
southern part of the Lease are probably related
to complex tectonics. It is considered further
information may be gained from detailed geological
examination of this area.
3. Although rare earth analyses failed to duplicate
previously recorded anomalies, the discovery of
carbonatites and kimberlites at Orroroo strengthens
the contention that similar igneous suites may be
present in the southern part of the Lease.

FUTURE PROGRAMME

It is intended, with the approval of the Minister of Mines, to reduce the area of the Lease by approximately one half, and concentrate investigations in the southern portion.

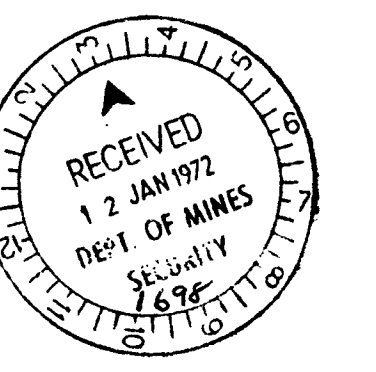
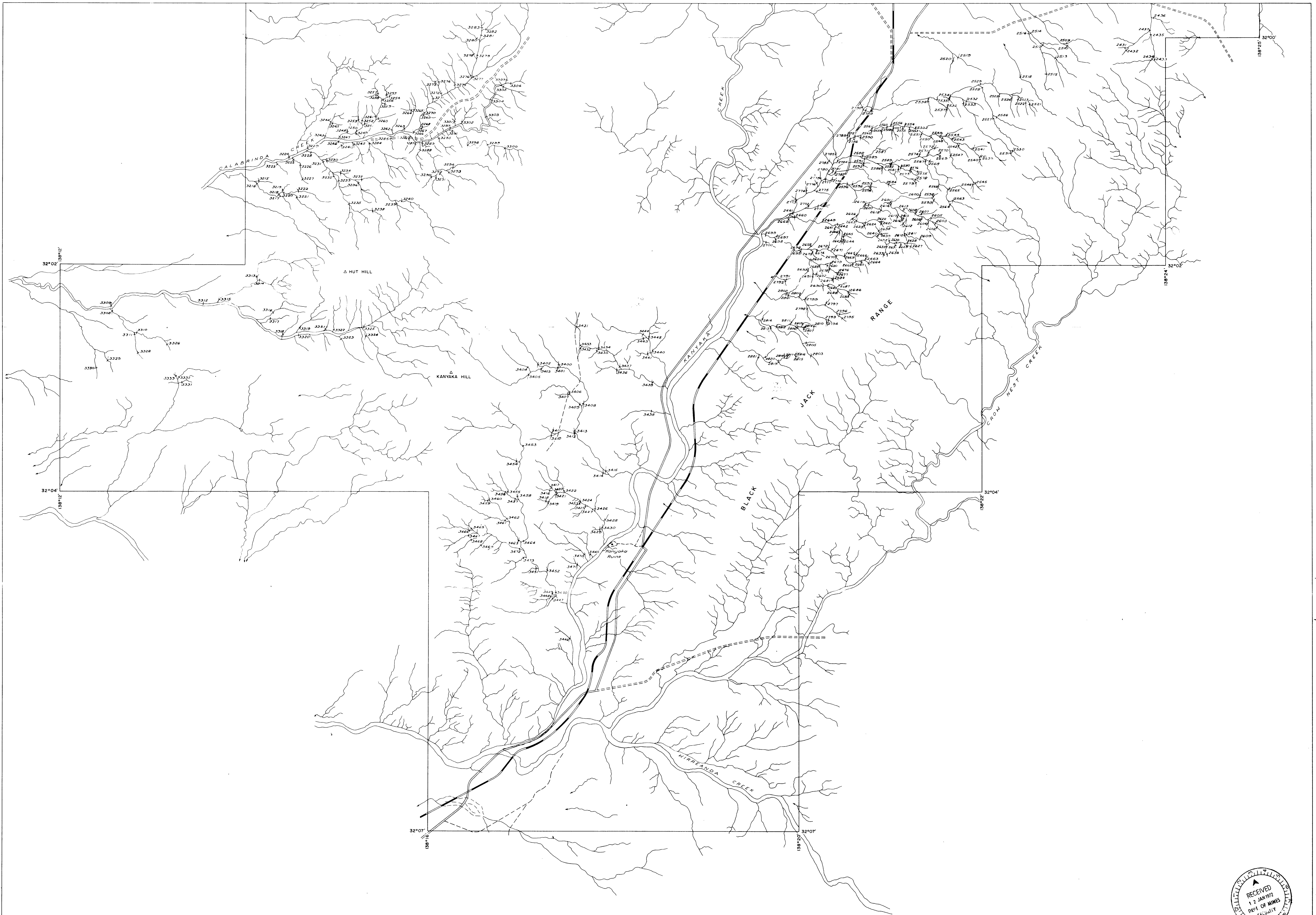
The programme will consist of detailed geological investigations of both the area surrounding the claimed Kanyaka Mine and the crush zone to the east. (See "Geochemistry" above)

PRESERVATION OF INFORMATION

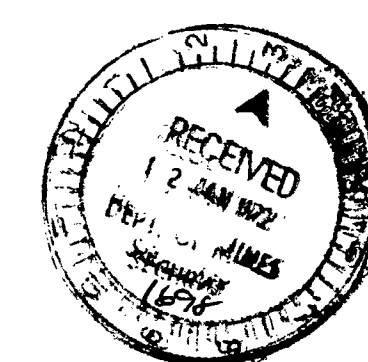
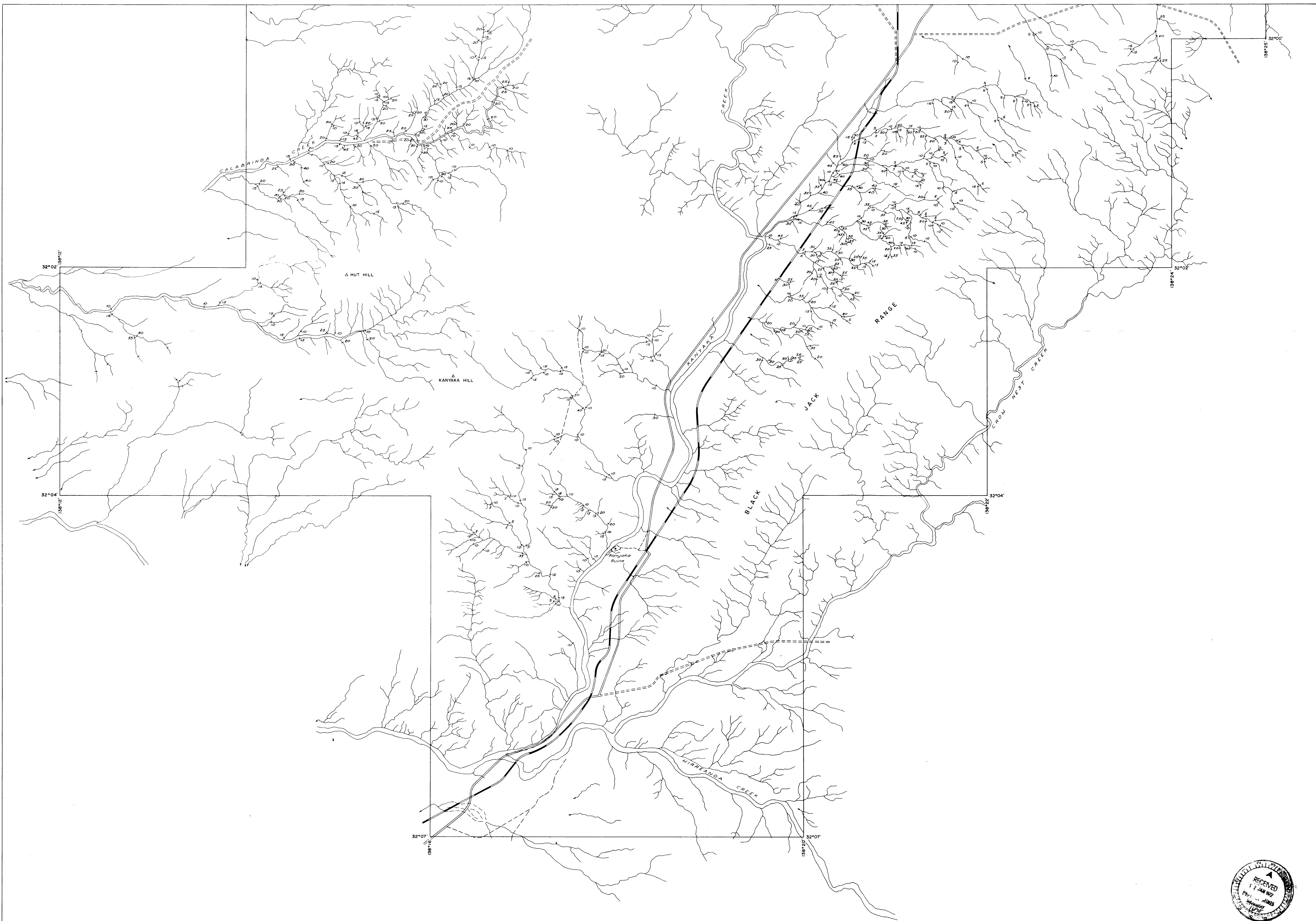
Copies of all relevant reports and plans are kept at Melbourne and Adelaide offices.

PERSONNEL

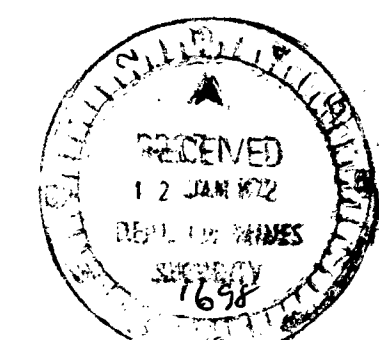
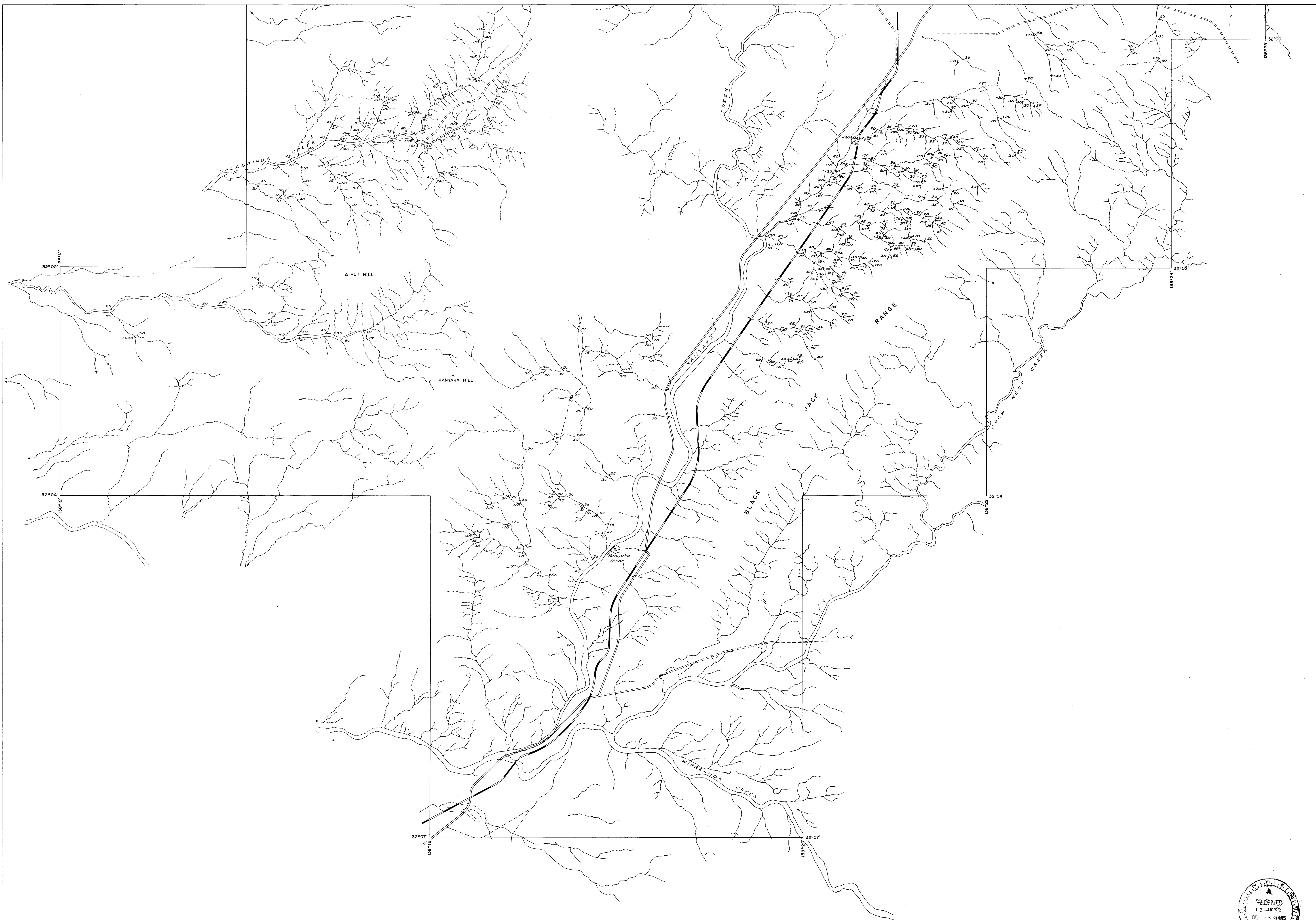
Company personnel consisted of one senior geologist and a field assistant operating from the Company's Flinders Base and Hawker camp. Assays and analyses were undertaken by McPhar Geophysics and AMDEL.



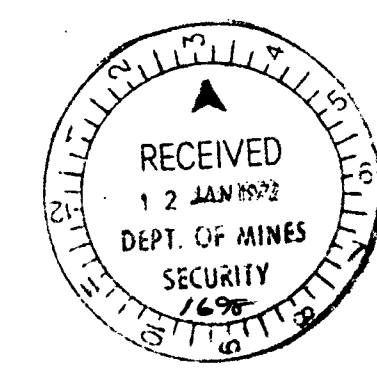
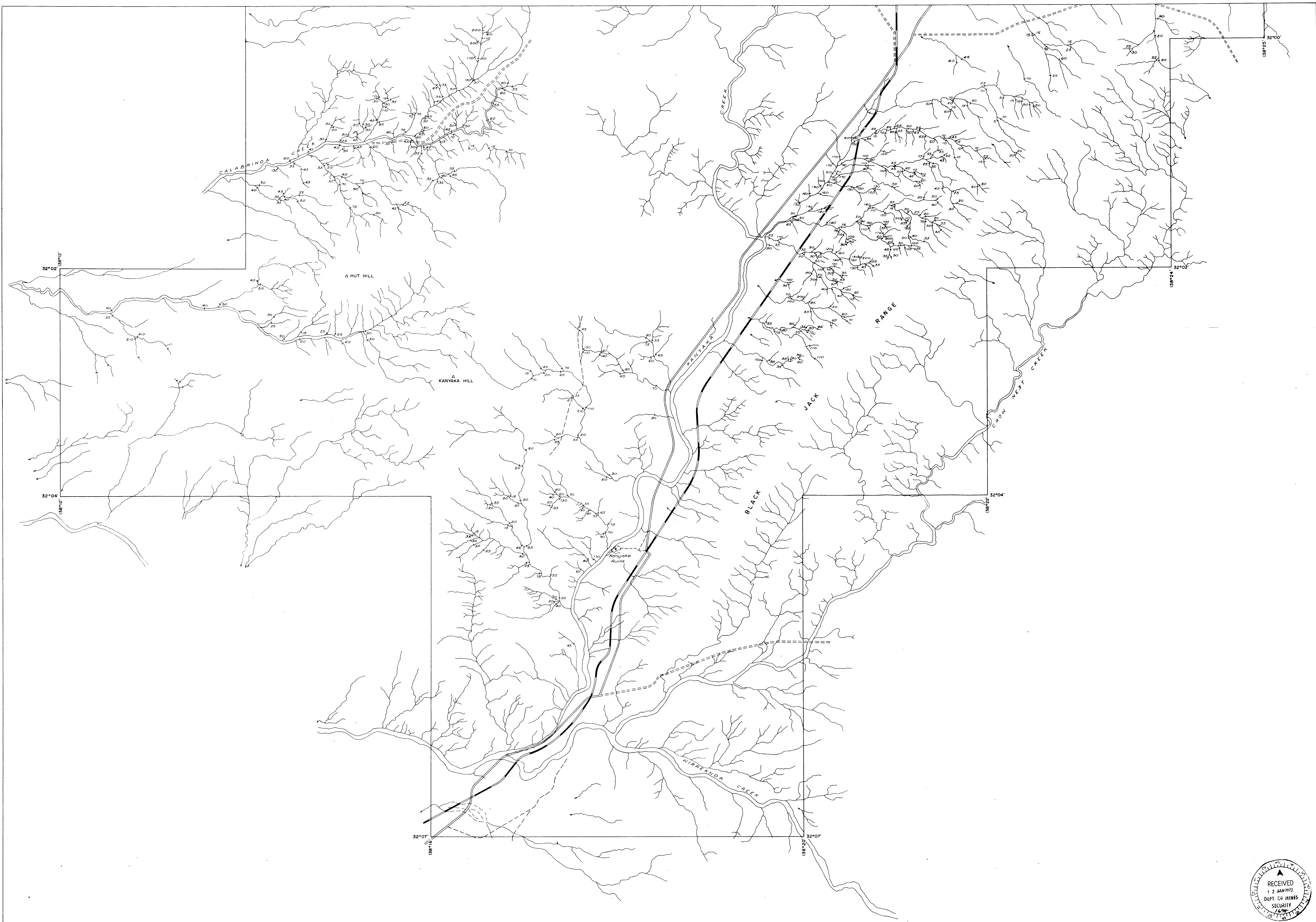
ELECTROLYTIC ZINC CO. OF ASIA LTD.	
PROJECT :	KANYAKA
SOUTH AUSTRALIA	
KANYAKA (SOUTH) STREAM GEOCHEMISTRY	
SAMPLE LOCATIONS AND NUMBERS	
NOTE : Topography compiled by uncontrolled aerial photographs.	
SCALE : 1 in. to 1700 ft. (approx.)	Survey : R.A.Horn.
Reference :	REF. NO. D147.2
Date : Dec. 1971	Drawn : F.L.S. Checked : R.A.H.
SHEET 2	



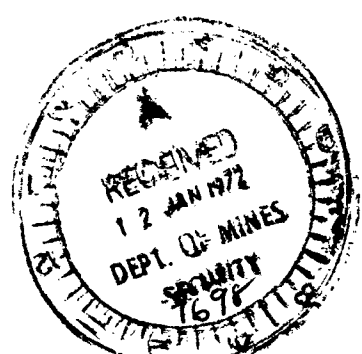
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PROJECT :	KANYAKA
SOUTH AUSTRALIA	
KANYAKA (SOUTH) STREAM GEOCHEMISTRY	
COPPER VALUES (PPM.)	
NOTE : Topography compiled by uncontrolled aerial photographs.	
SCALE : 1 in. to 1700 ft. (approx.)	Survey : R.A. Horn.
Reference :	REF. NO. D147.3
Date : Dec. 1971	Drawn : F.L.S. Checked : R.A.H. SHEET 2



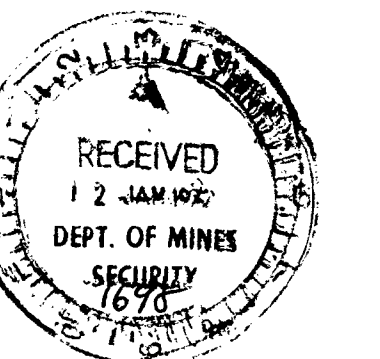
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PROJECT: KANYAKA	SOUTH AUSTRALIA
KANYAKA (SOUTH) STREAM GEOCHEMISTRY	
LEAD VALUES (PPM.)	
NOTE: Topography compiled by uncontrolled aerial photographs.	
SCALE: 1 in. to 1700 ft. (approx.)	Survey: R.A. Horn.
Reference:	
Date: Dec. 1971	Drawn: F. L. S. Checked: R.A.H.
REF. NO. D147-4	SHEET 2



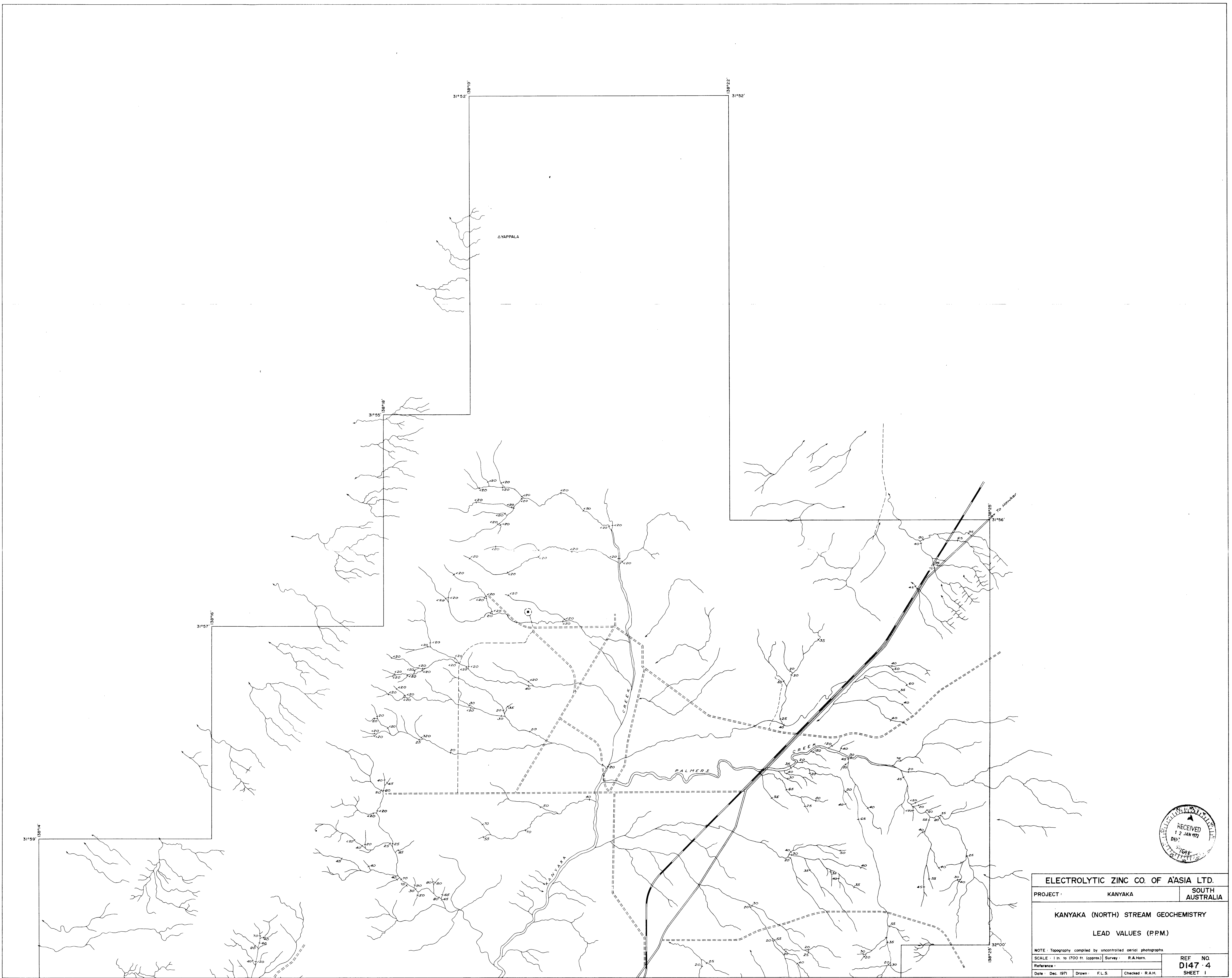
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PROJECT: KANYAKA	SOUTH AUSTRALIA
KANYAKA (SOUTH) STREAM GEOCHEMISTRY	
ZINC VALUES (PPM.)	
NOTE: Topography compiled by uncontrolled aerial photographs.	
SCALE: 1 in. to 1700 ft. (approx.)	Survey: R.A.Horn.
Reference:	REF. NO. D147.5
Date: Dec. 1971	Drawn: F.L.S. Checked: R.A.H.
SHEET 2	



REF. NO.
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SHEET I



ELECTROLYTIC ZINC CO. OF ASIA LTD.	
PROJECT: KANYAKA	SOUTH AUSTRALIA
KANYAKA (NORTH) STREAM GEOCHEMISTRY	
COPPER VALUES (PPM)	
NOTE: Topography compiled by uncontrolled aerial photographs.	
SCALE: 1 in. to 1700 ft. (approx.)	Survey: R.A.Horn.
Reference:	REF. NO. D147.3
Date: Dec. 1971	Drawn: F.L.S. Checked: R.A.H. SHEET 1



ELECTROLYTIC ZINC CO. OF ASIA LTD.			
PROJECT: KANYAKA		SOUTH AUSTRALIA	
KANYAKA (NORTH) STREAM GEOCHEMISTRY			
LEAD VALUES (PPM.)			
NOTE: Topography compiled by uncontrolled aerial photographs.			
SCALE: 1 in. to 1700 ft. (approx.)		Survey: R.A.Horn.	
Reference:			
Date: Dec. 1971	Drawn: F.L.S.	Checked: R.A.H.	REF. NO. D147-4 SHEET 1

