

MICROFILMED

GEOPEKO LIMITED

KING ISLAND

REPORT No. KI/74/6

FINAL REPORT ON THE MINERAL POTENTIAL OF

OF EXPLORATION LICENCE 5/69

by

S. GRIEVE BROWN

KING ISLAND

AUGUST, 1974.

AMG REFERENCE POINTS ADDED

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LIST OF PLANS

Geological Plan Exploration Licence 5/69 1:63360

Magnetic Anomaly No. 3. Geology, Geochemistry and
Magnetic Profile 1:2500

Investigator 19 / Magnetic Anomaly 2 Geology 1:5000
Total Geochemistry 1:5000
Lead Geochemistry 1:5000
Zinc Geochemistry 1:5000

Geological Legend.

Map of Northern King Island showing Aeromagnetic Contours 1:25000

Geological Log and Geochemistry P.D.H. INV. 19-1.

Geological Log and Geochemistry W.B. 2.

INTRODUCTION

Exploration Licence 5/69 covers an area of 1.5 square miles in the north west of King Island and is due to expire on 14th September 1974.

The area covered by this licence has been reduced in stages from the initial 116 square miles applied for in March 1969. The major portion of the area was relinquished in March 1972.

The following exploration programme was conducted within the licence area up until March 1972.

- Base map compilation from aerial photographs scale 1:12000.
- Regional photo controlled geological mapping at an approximate scale of 1:12000.
- A regional geological and geochemical sampling programme involving gemco auger drilling to bedrock.
- Detailed hand and gemco auger drilling on the Investigator's 11 and 12 grids.

The results of this programme have been reported in 'Progress Report on E.L. 5/69 by P. Cottam, March 1972. It was concluded that the geological environment was unfavourable for the occurrence of economic mineral deposits within the southern portion of E.L. 5/69 and that area should be relinquished.

This report records the results of the exploration programme undertaken within the retained northern portion of E.L. 5/69 since March 1972. During this period the following exploration programme has been conducted.

- A regional geochemical sampling programme involving gemco auger drilling to bedrock (38 holes, 276.75 m).
- Close spaced gemco auger drilling on the Investigator 19 grid.
- An airborne radiometric and aeromagnetic survey.
- Evaluation of the three magnetic anomalies delineated by the airborne survey involving ground magnetic traverses and limited auger drilling
- One percussion drill hole (P.D.H. 19-1) drilled to 30.5 metres.

SUMMARY

Following the discovery of the Investigator 19 Pb/Zn prospect during the regional bedrock geochemical programme a further 38 gemco holes (276.75 m) were drilled in the regional geochemical sampling programme. Although this closer spaced programme confirmed the original anomalous results no other geochemically anomalous areas were located. The area of sampling was restricted by the road and track system within the licence.

Auger drilling on the Investigator 19 grid defined an area of low anomalous Pb/Zn values occurring in a chlorite muscovite schist zone within the meta-sediment sequence. The higher values (up to 3100 ppm Zn and 3500 ppm Pb) recorded in some holes were due to galena and sphalerite occurring in quartz veins which locally transect the chlorite muscovite schist.

The possible relationship between the olivine basalt at Magnetic Anomaly 2 (E.L. 20/73) and the Pb/Zn mineralization at Investigator 19 was examined and from the geochemical and geological evidence it is concluded that the olivine basalt plug is not associated with the Pb/Zn mineralization.

Besides magnetic anomaly No. 2 (E.L. 20/73) the aeromagnetic survey delineated two other spot highs (magnetic anomalies 3 and 15) and one distinct but broad linear anomaly trending approximately north - south. No meaningful results were obtained from the radiometrics.

The spot magnetic anomalies have similar characteristics to others (magnetic anomalies 2, 4, and Investigator 12) which were tested along with magnetic anomaly 3, by auger drilling. The source of these anomalies has been shown by bedrock auger drilling, to be due to olivine basalt plugs containing disseminated magnetite. Auger drilling across the contacts of these basalt plugs has shown no anomalous geochemical trends indicative of introduced mineralization.

CONCLUSIONS

1. The mineral potential of E.L. 5/69 excluding the anomalous magnetic features and the Pb/Zn mineralization at Investigator 19, has been adequately evaluated prior to March 1972. (Progress report E.L. 5/69 by P. Cottam)
2. The intense circular anomalies (No's 3 and 15) are considered to be due to magnetite rich olivine basalt plugs similar to others (anomalies 2 and 4) located in the north of King Island.
3. By comparison with the other magnetic anomalies whose sources were located and tested for mineralization it is reasonable to assume that the source of magnetic anomaly 15 will also be barren of introduced mineralization. (The contact of magnetic anomaly No. 3 was tested by auger drilling.)
4. It is considered that the probable source of magnetic anomaly No. 17 is a series of basic dykes intruded into the meta-sediments.
5. The Pb/Zn mineralization at Investigator 19 is restricted to the chlorite mica schist unit, the enrichment of these elements is only significant in secondary quartz veins, and is considered not to have any economic potential.

RECOMMENDATIONS

It is recommended that no further work be carried out and that this Exploration Licence be allowed to expire.

ACTION SHEET

Hello.

007

567008

AMG REFERENCE POINTS ADDED



KING ISLAND

AMG 252920mE,
5604900mN

AREA OF E.L. 5/69
RELINQUISHED
14-3-74

AREA OF E.L. 5/69
RETAINED
EXPIRES 14-9-74

CURRIE

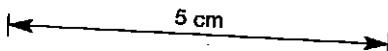
AREA OF E.L. 5/69
RELINQUISHED
14-3-72
(PREVIOUSLY REPORTED)

AMG 232100mE,
5860580mN

GRASSY

AREA OF E.L. 5/69
RELINQUISHED
14-9-71
(PREVIOUSLY REPORTED)

LOCATION MAP
E.L. 5/69



GEOPHYSICS

The Exploration Licence (as at 1-1-73) was flown for magnetics and radiometrics during February 1973. The contract was carried out by Canadian Aero Services on behalf of Geopeko Limited.

No meaningful results were obtained from the radiometric survey.

Two intense circular magnetic anomalies (anomalies 3 and 15) were located within the licence area. Ground magnetometer traverses were carried out over both these anomalies which have similar characteristics, being intense magnetic highs with circular shape.

The source of anomaly No. 3 was shown by auger drilling to be due to an intruded plug of magnetite rich olivine basalt, similar to other such plugs occurring in the north of the Island.

The linear magnetic anomaly in the south west of the licence area (anomaly No. 17) is considered to have as its source a series of basic dykes which intrude the meta-sediments in this area.

GEOLOGY

The geology within Exploration Licence 5/69 consists mainly of meta-sediments with minor areas of West Coast granite overlain for the most part by a variable thickness of recent sands and gravels.

Geological mapping was carried out at a scale of 1:12000 on photo controlled regional base maps obtained from aerial photos (taken in 1967) using the slotted template method of photo laydown.

The West Coast granite is composed of a series of granitic rocks mainly adamellites and granodiorites with porphyritic biotite granite and includes areas of granitized sediments. This unit is locally known as the West Coast granitic complex.

No outcrops of this granite occur within the licence area but it is well exposed along the length of the west coast and is normally a light grey medium grained weakly foliated granite with granular quartz and feldspar as its principal constituents. Lenticular xenoliths of basic material commonly occur within the granite.

Based on potassium argon dating of the micas (McDougal & Leggo) the granite is considered to be of Precambrian age with 715 m.y. regarded as the minimum age of emplacement.

The mica schists consist of quartz-muscovite-chlorite assemblages, derived by green schist facies metamorphism of a fine grained silty quartz sandstone and are regarded as being of Precambrian age. From samples obtained during drilling of these meta-sediments it is apparent that they range in type from very well laminated mica schists to uniform micaceous quartzites. Since these rocks are not exposed in outcrop and are only encountered in drill holes or as float material their structure is not known. There is some evidence, from inspection of the aeromagnetic contours that these rocks strike approximately north - south and dip steeply to the west.

Geologically the Investigator 19 area lies at the contact between a chlorite mica schist unit of the meta-sediments and the West Coast granite. The Pb/Zn mineralization is confined to the chlorite mica schist and transecting quartz

veins. The West Coast granite and surrounding chlorite poor mica schists showing only low (background) geochemical values for Pb and Zn. A thin section of the chlorite mica schist shows it to be a quartz-chlorite-muscovite schist well foliated with elongated detrital quartz grains and large muscovite flakes in a fine schistose matrix. Fine grains of tourmaline, rutile and apatite are present in some layers.

It is considered that this rock is derived by greenschist facies metamorphism of a fine grained, silty and probably argillaceous, quartz sandstone.

The sphalerite and galena are confined to a single layer about 15 mm wide and as there is no apparent evidence that they may have been introduced they are regarded as being of syngenetic origin.

The olivine basalt plugs (magnetic anomalies No's 3 and 15) of Tertiary? age are intruded into mica schists and consist of fine serpentized olivine crystals in a matrix of microcrystalline pyroxene hornblende and volcanic glass. Clouds of dispersed magnetite are present in the matrix.

Recent fossiliferous limestone and ironstained (limonitic) consolidated sands occur in some areas.

ECONOMIC GEOLOGY

There is no known economic mineralization within the licence area. Minor Pb/Zn mineralization occurs in quartz veins transecting the mica schists in the south west of the E.L. (Investigator 19).

Visible galena and spalerite occur in quartz veins transecting the mica schists (as shown by percussion drilling) and it is considered that the mineralization is probably derived from the syngenetic sulphides occurring within the mica schists themselves. Petrographic examination of a thin section of the mica schist showed traces of galena and sphalerite confined to a single layer 15 mm wide. No disruption of the layer is apparent and there is no apparent evidence for the introduction of these sulphides.

The lack of any suitable host rocks and the low geochemical values for Pb and Zn present in the mica schist make it unlikely that this occurrence possesses any economic significance.

Bedrock geochemical sampling of the olivine basalt (magnetic anomaly 3) and the surrounding contact mica schists was carried out by auger drilling (11 holes, 93.26 metres of drilling) with no significant values being recorded for any of the elements assayed (Cu, Pb, Zn, Ni, Co, Cr, V). The possible relationship between magnetic anomaly No. 2 (E.L. 20/73) and the Pb/Zn mineralization at Investigator 19 was examined. It was reasoned that if the mineralization at Investigator 19 was associated with the olivine basalt plug at anomaly No. 2 then the mineral potential of the contact areas of the other basalt plugs on the Island would be considerably increased.

Auger drilling west of the Investigator 19 grid showed a very rapid drop off of Pb/Zn values away from the contact between the mica schists and the granite. It is considered likely that the anomalous Pb/Zn values are confined to a chlorite muscovite zone in the mica schists.

No anomalous geochemical trends were recorded from auger drilling in the granite and it is considered that the Pb/Zn mineralization at Investigator 19 is derived from within the mica schist unit and is not related to the olivine basalt plug intruded into the granite at magnetic anomaly 2.

Other basalt plugs tested elsewhere on the Island gave similar results and it is concluded that these plugs have no associated mineralization.

Although tin mineralization is known to occur in a series of small quartz veins, exposed in pits, to the east of the E.L. no evidence for areas of tin mineralization was recorded during the exploration programme. All auger drill samples were analysed for tin but only values up to 35 ppm Sn were obtained.

An assessment of the tin bearing potential of the King Island granites, (J. J. Gresham & P. Cottam 1971) concluded that all the granites were geochemically outside the parameters obtained by analysis of most of the tin bearing granites of the world.

Although Geopeko Limited has not carried out any testing of the sand deposits specifically for heavy mineral deposits no evidence of such deposits was encountered in the auger drilling programme. The sand cover within the licence area is relatively shallow and does not appear to have been subjected to the amount of reworking that the dunal areas have had. It is considered that the potential for economic heavy mineral deposits is small.

GEOPEKO LIMITED

S. Grieve Brown

S. Grieve Brown
GEOLOGIST.

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APPENDIX 1LOG OF P.D.H. INV. 19-1

0 - 25'

SANDY SOIL

Initially the material is quite loamy but from 5' onwards it comprises a coarse sand with some soil present. The colour changes down the hole from a deep brown at surface to a more grey brown at 25'.

25 - 40'

SAND

A grey probably granite derived sand with large amounts of small well rounded quartz chips which are extremely smooth and worn to 40'. Minor feldspar chips are also apparent and traces of muscovite are also present. Quite large amounts of clay are present in these samples and this would appear to be a compact unit difficult to auger drill.

40 - 60'

DECOMPOSED MICA SCHIST

A silvery green coloured clay unit with very small chips of green silver mica schist present.

On the 50 - 55' sample some minor mineralization is present while minor vein quartz is seen in the 55 - 60' sample.

60 - 80'

WEATHERED MICA SCHIST

A very light grey green mica schist as above but in these samples the chips are more common. In some areas the hammer has made rock flour out of mica schist.

80 - 100'

QUARTZ MICA SCHIST

A slightly darker grey green quartz mica schist. There are still quite large amounts of less quartz rich mica schist present here.

E.O.H. 100'

APPENDIX 2LOG OF P.D.H. W.B. 2

Hole Number:- W.B. 2 Date:- 28-2-74.
 Landowner:- L. Best
 Block:- R2 Parish:- Reekara
 Location:- As per Map

- 0 - 5' SOIL
 Orange sandy clay.
- 5 - 10' VEIN QUARTZ
 White vein quartz with white clay derived
 from weathered micaceous rocks.
- 10 - 20' CLAYS
 Light grey clays slightly sandy, derived
 from the underlying mica schists.
- 20 - 60' MICA SCHISTS
 Grey silver mica schists of the Reekara type
 with a very high muscovite content. The first 5
 feet of the unit is weathered and has a high clay
 content.
- 60 - 100' QUARTZ MICA SCHISTS
 A series of dark grey quartz muscovite
 schists. These rocks retain their schistose
 nature even though quite considerable amounts
 of quartz is visible in the chips.
- 100 - 120' QUARTZ MICA SCHISTS
 This unit consists of much harder chips of
 a reddish grey quartz mica schist. There is a
 higher quartz content here and both this unit and
 the one above are much more compact than the unit
 from 25 - 60'.

The overall appearance of this unit is however still quite schistose.

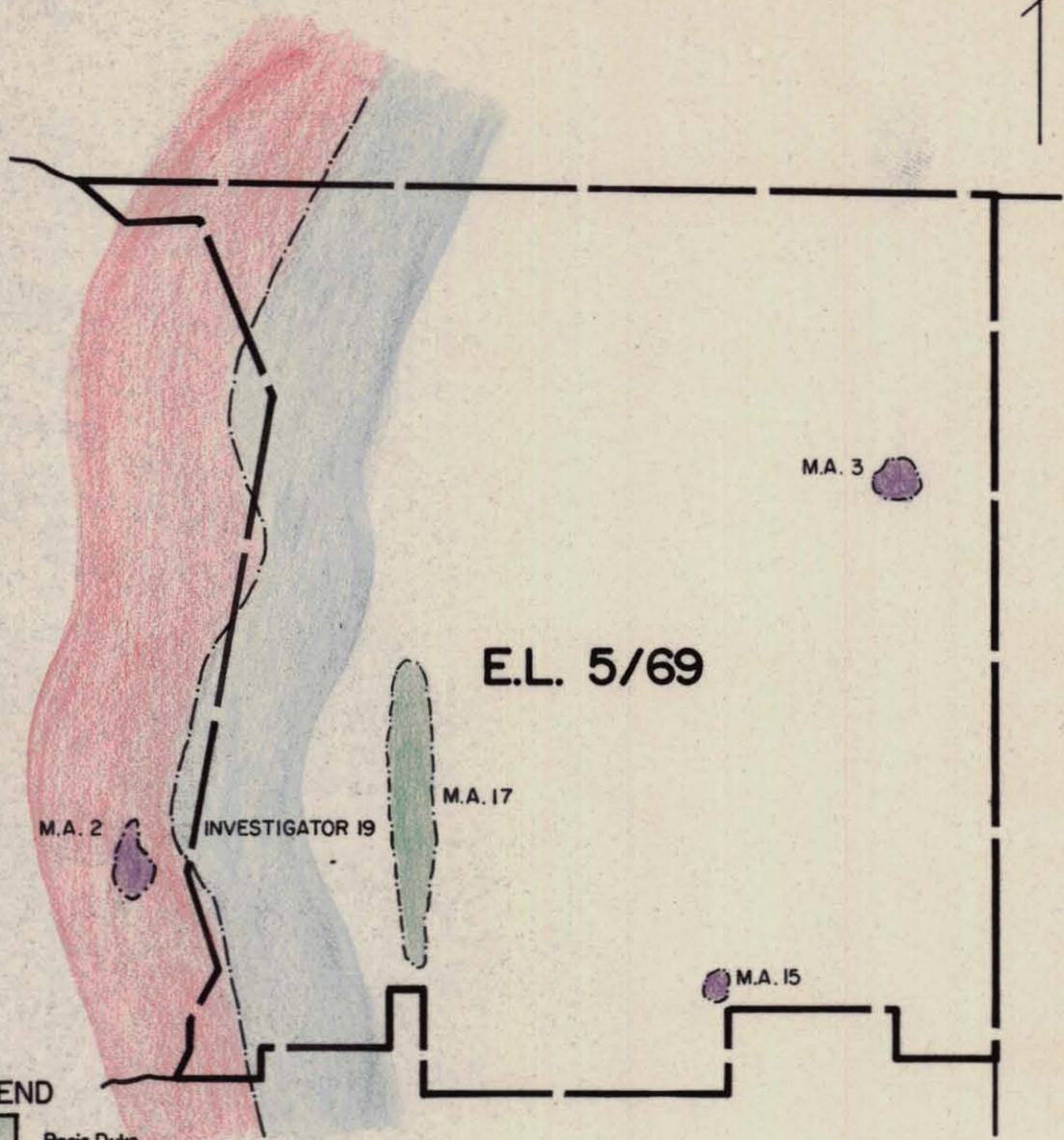
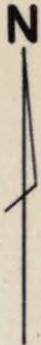
120 - 150' MICA SCHISTS

These mica schists are dark grey-silver in colour and have much larger muscovite flakes present in them than occur in the quartz mica schists.

150 - 160' QUARTZ MICA SCHISTS

Grey black quartz mica schists similar to those occurring between 60 and 100 feet.

E.O.H. 160'

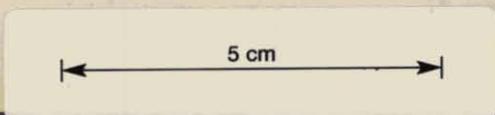


LEGEND

-  Basic Dyke
-  Basalt
-  Granite
-  Metasediments
-  E.L. Boundary
-  Geological Boundary

E.L. 5/69
GEOLOGICAL INTERPRETATION MAP

SCALE 1" = 1mile



018

200 W

00E

200E

400E

00 S

00 S

200 S

200 S

400 S

400 S

600 S

600 S

200 W

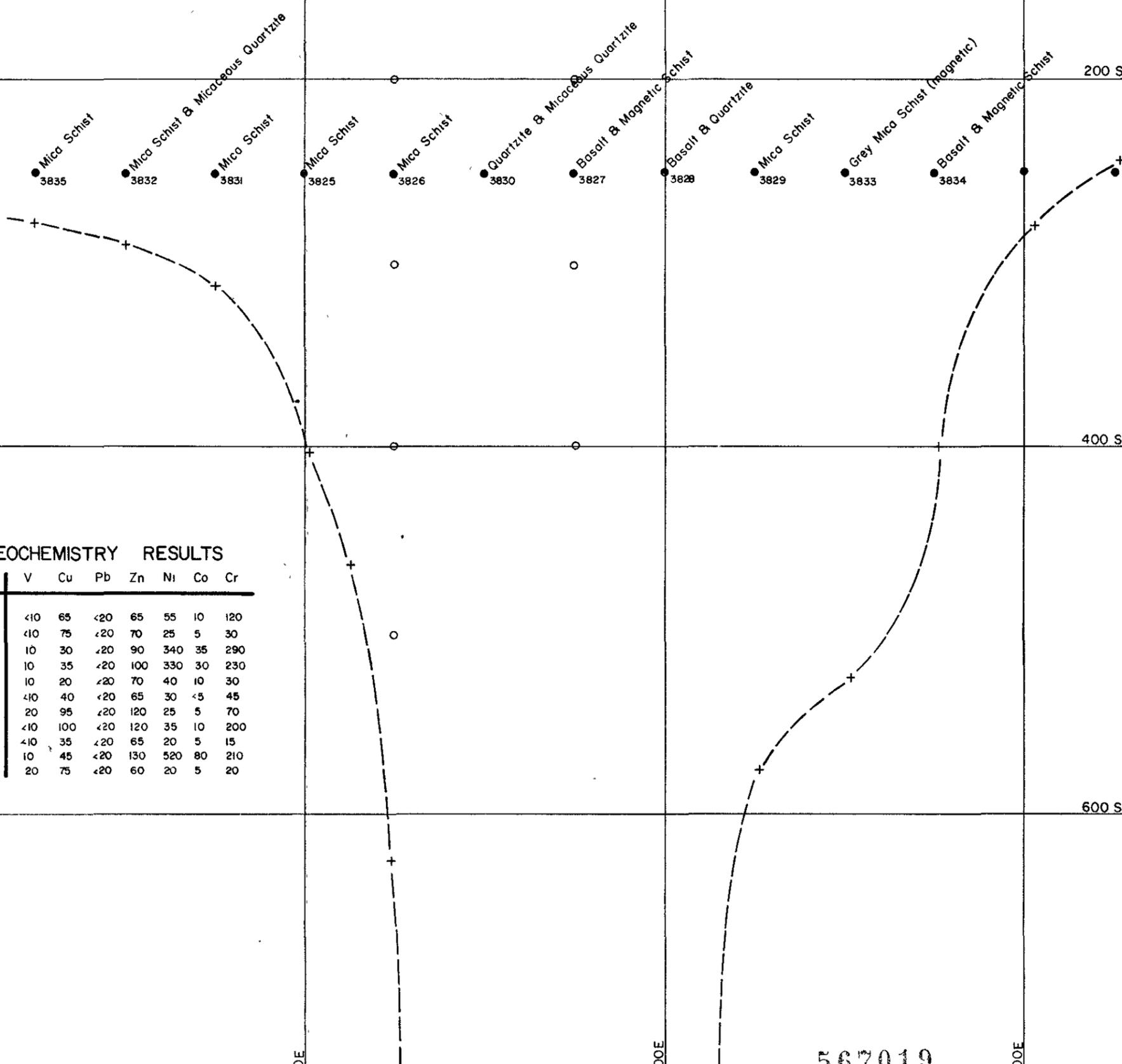
00E

200E

400E

GEOCHEMISTRY RESULTS

	V	Cu	Pb	Zn	Ni	Co	Cr
3825	<10	65	<20	65	55	10	120
3826	<10	75	<20	70	25	5	30
3827	10	30	<20	90	340	35	290
3828	10	35	<20	100	330	30	230
3829	10	20	<20	70	40	10	30
3830	<10	40	<20	65	30	<5	45
3831	20	95	<20	120	25	5	70
3832	<10	100	<20	120	35	10	200
3833	<10	35	<20	65	20	5	15
3834	10	45	<20	130	520	80	210
3835	20	75	<20	60	20	5	20



567019

74-1043

- Grid pegs
- Auger holes

--- Magnetic profile along 250mS. 1cm = 20 gamma (vert)

5 cm



DATE: AUG '74
 GEOLOGIST: SGB
 DRAWN: K.D.
 CHECKED: SGB

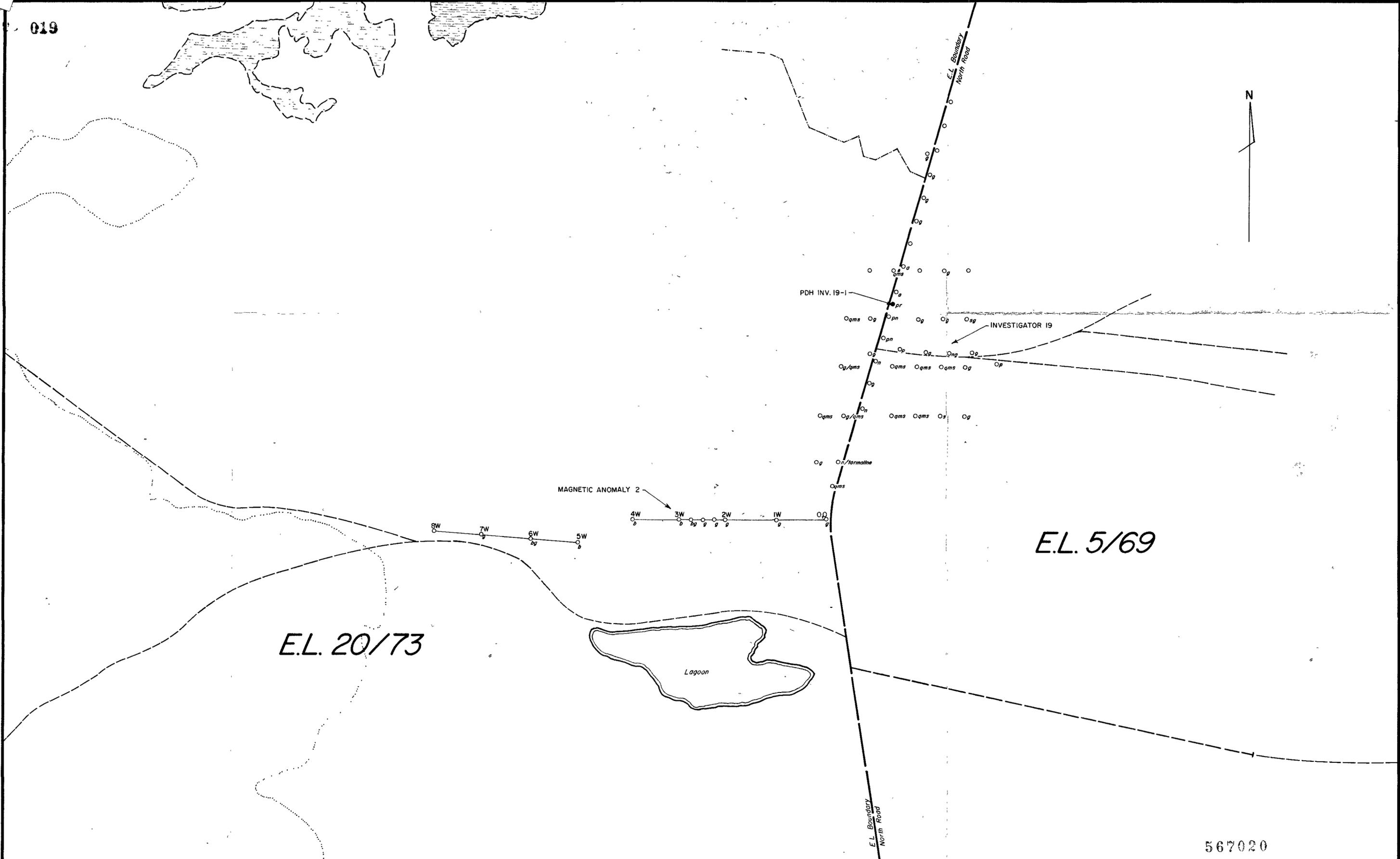
GEOPEKO LIMITED
KING ISLAND GROUP

SCALE: 1:250

No. KG 13-5

E.L. 5/69
 MAGNETIC ANOMALY No. 3
 Geology, Geochemistry and Magnetic Profile

N



- LEGEND:**
- Swamp
 - Road - E.L. Boundary
 - Road
 - Track
 - Drain
 - Edge of Sand Dunes

- o qms Quartz mica schist
- o r Mica schist
- o s Siliceous chert
- o b Basalt
- o n Quartz
- o g Granite
- o a Aplite
- o p Pegmatite

74-1043

DATE NOV 1973
GEOLOGIST S.G.B.
DRAWN K.D.
CHECKED M.C.R.

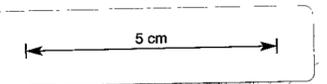
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GEOPEKO LIMITED
KING ISLAND GROUP

SCALE 1:5000

No KI-19-8

INVESTIGATOR 19
E.L. 5/69 and E.L. 20/73
GEOLOGY



	Cu	Pb	Zn	Co	Ni	Ag	Bi	Sb	W	Sn	As	Cr	V
1929	10	180	100	15	25	<2	<20	<2	<2	<5			
1930	10	230	270	20	20	<2	<20	28	<2	<5			
1931	55	770	420	35	25	3	<20	<2	<5	<2			
1932	25	190	230	20	30	<2	<20	<2	5	<5			
1933	15	900	1200	35	30	<2	<20	<2	<2	<5			
1934	30	500	190	10	25	<2	<20	<2	<2	<5			
1935	30	80	65	10	25	<2	<20	<2	<2	<5			
1936	45	40	160	25	35	<2	<20	<2	<2	<5			
1937	5	30	20	10	130	<2	<20	<2	40	<5			
1938	5	30	15	5	35	<2	<20	<2	<2	<5			
1939	15	35	30	5	20	<2	<20	<2	3	<5			
1940	10	20	20	5	130	<2	<20	<2	<2	<5			
1941	15	25	25	5	160	<2	<20	<2	<2	<5			
1942	15	30	20	5	150	<2	<20	<2	40	<5			
1943	15	190	75	<5	35	<2	<20	<2	<2	<5			
1946	10	65	30	<5	110	<2	<20	<2	10	<5			
1947	20	35	30	5	120	<2	<20	8	<2	<5			
1948	30	150	100	10	75	<2	<20	<2	<2	<5			
1949	20	5				<2							
2690	25	15				<2							
2691	90	20				<2							
2692	130	35				<2							
2683	210	180				<2							
2684	350	260				<2							
2685	290	270				<2							
2686	500	120				<2							
2687	20	20	40										
2688	20	40	20										
2689	25	400	270										
2690	15	20	20										
2691	10	20	20										
2692	30	40	70										
3842	20	<20	30	25	180					80	200		
3843	45	<20	70	60	240					60	200		
3844	20	<20	40	15	180					50	200		
3845	40	<20	50	55	170					65	100		
3846	10	<20	45	10	85					65	100		
3913	10	<20	30	<5	5					20	20		
3914	10	35	50	<5	45					95	20		
3915	10	<20	40	<5	5					20	200		
3916	10	<20	25		5								
3917	35	60	50		10								
3918	10	60	70		10								
3919	12	40	60		10								
3920	15	80	100		20								
3921	15	80	100		20								
3922	30	80	30		10								
3923	15	20	100		30								
3924	5	30	20		15								
3925	80	140	120		20								
3926	10	60	100		30								
1798	40	50	90		160					<2	<20		
1799	5	40	60		80					2	<20		
1901	20	40	180		30					5	<20		

PDH INV. 19-1

INVESTIGATOR 19

MAGNETIC ANOMALY 2

NOTE:
A 3845
B 1798
C 1799
D 1901

E.L. 5/69

E.L. 20/73

5 cm

567021

LEGEND

- Swamp
- Road - E.L. Boundary
- Road
- Track
- Drain
- Edge of Sand Dunes

74-1043

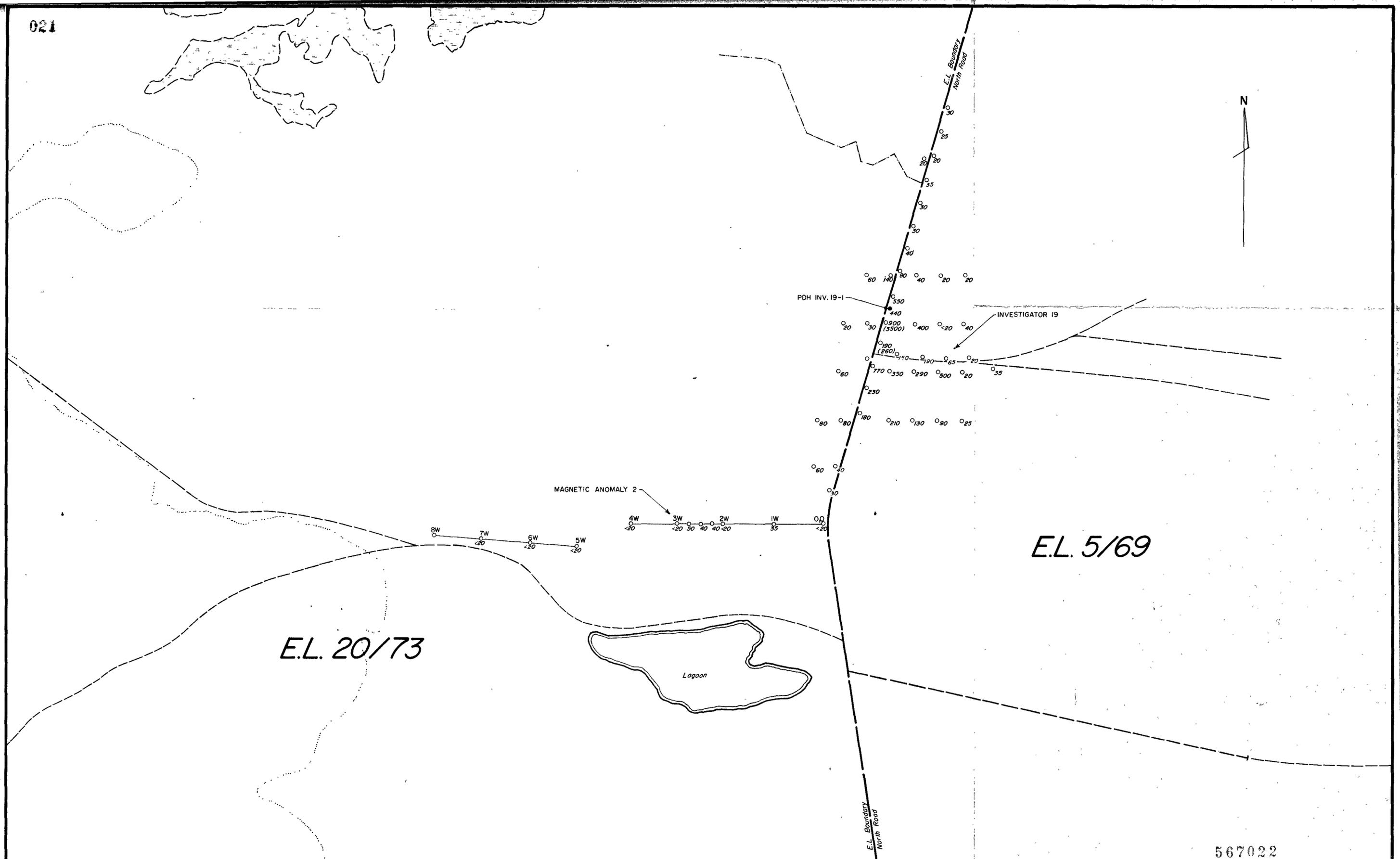
DATE NOV 1973
GEOLOGIST S.G.B.
DRAWN K.D.
CHECKED M.C.R.

GEOPEKO LIMITED
KING ISLAND GROUP

SCALE 1:5000

No. KI-19-9

INVESTIGATOR 19
E.L. 5/69 and E.L. 20/73
TOTAL GEOCHEMISTRY



LEGEND:

- Swamp
- Road - E.L. Boundary
- Road
- Track
- Drain
- Edge of Sand Dunes

Lead (ppm)

- <20
- 20-40
- 41-80
- 81-120
- 121-160
- > 160

(1200) Repeat Assay

5 cm

74-1043

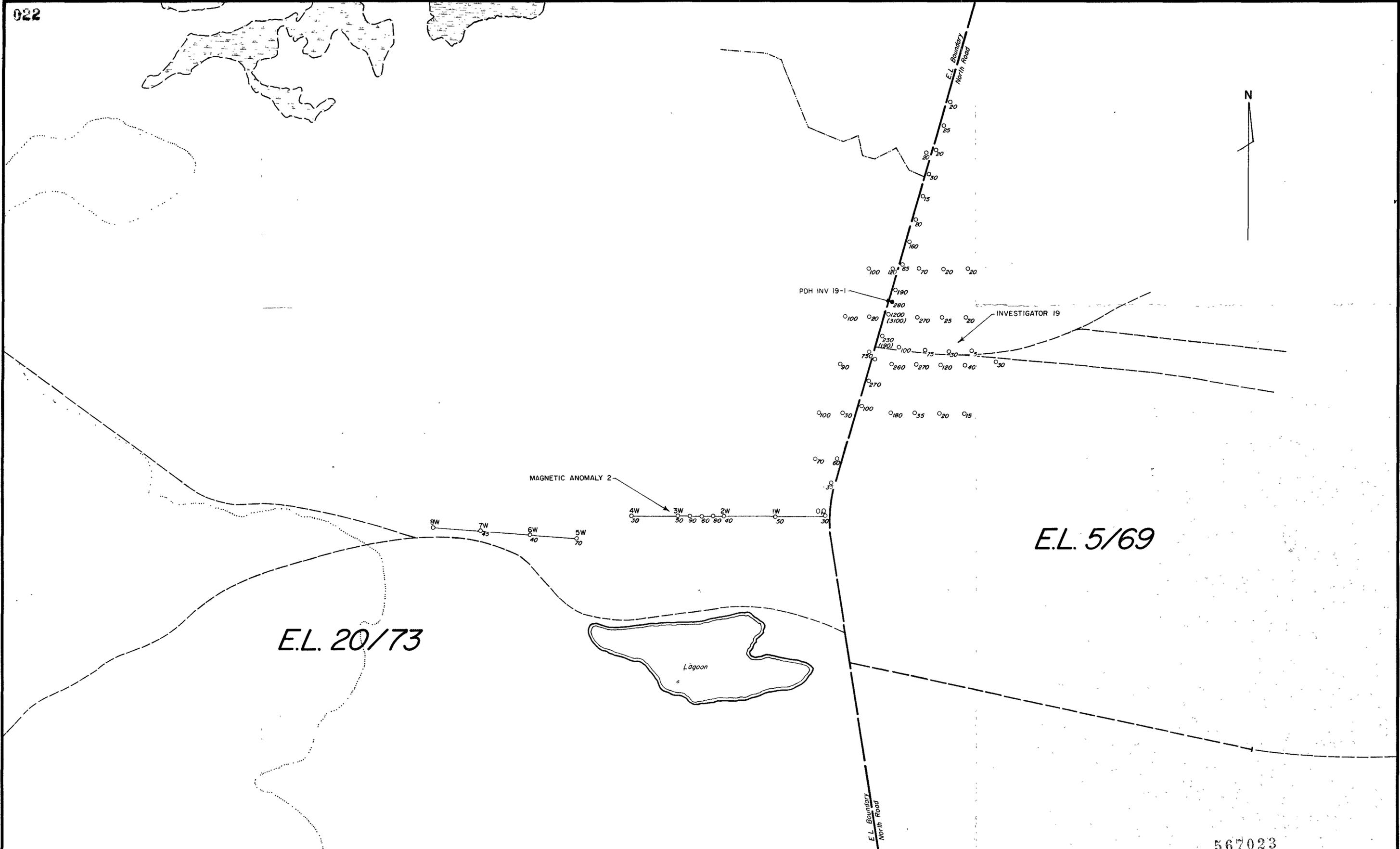
DATE NOV. 1973
GEOLOGIST S.G.B.
DRAWN K.D.
CHECKED M.C.R.

567022

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SCALE 1:5000 No. KI-19-7

INVESTIGATOR 19
E.L. 5/69 and E.L. 20/73
LEAD GEOCHEMISTRY

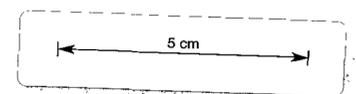


LEGEND

	Swamp
	Road - E.L. Boundary
	Road
	Track
	Drain
	Edge of Sand Dunes

Zinc (ppm)

○ 0-20
○ 21-40
○ 41-80
○ 81-120
○ 121-160
○ > 160
(1200) Repeat Assay



74-1043

DATE NOV 1973
GEOLOGIST: S.G.B.
DRAWN: K.D.
CHECKED: M.C.R.

567023
GEOPEKO LIMITED
KING ISLAND GROUP

SCALE 1:5000 No. KI-19-6

INVESTIGATOR 19
E.L. 5/69 and E.L. 20/73
ZINC GEOCHEMISTRY

4823

MICROFILMED
FICHE No. 2

TOP
LEFT

75-1094

567024

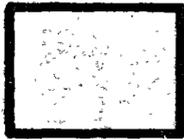
Geological Legend



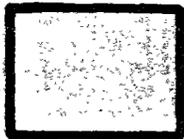
EAST COAST SANDSTONES - SHALES



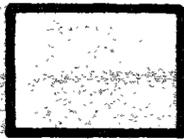
REEKARA QUARTZ MUSCOVITE SCHISTS



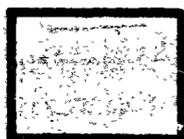
WEST COAST METASEDIMENTS
(quartzites and quartz mica schists)



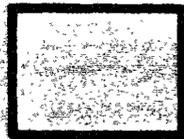
DEVONIAN GRANITE



WEST COAST GRANITE COMPLEX



BASALT



BASIC DYKES



Mt. COUNSEL METAMORPHIC AUREOLE



**MAGNETIC CONTOUR PLAN
SHOWING LOCATION OF AUGER DRILL HOLES**

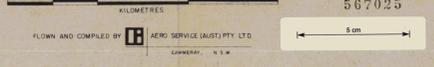
- ⊙ Percussion Drill Hole
- GeoCo Hole
- Road
- Boundary E.L.
- Boundaries of area covered by larger scale maps

FLIGHT ALTITUDE 92 METRES
 FLIGHT INTERVAL 4 KILOMETRES
 CONTOUR INTERVAL 25 GAMMAS
 PROJECTION INTEGRATED CO-ORD SYSTEM
 SURVEYED AND COMPILED MARCH - MAY 1973
 A.S.C. PROJECT NO. 7302

SHEET INDEX

3
2
1

AIRBORNE GEOPHYSICAL SURVEY
 KING ISLAND
 TASMANIA
 GEOPEKO LIMITED
TOTAL MAGNETIC INTENSITY
 REGIONAL FIELD REMOVED
 SCALE 1:25,000

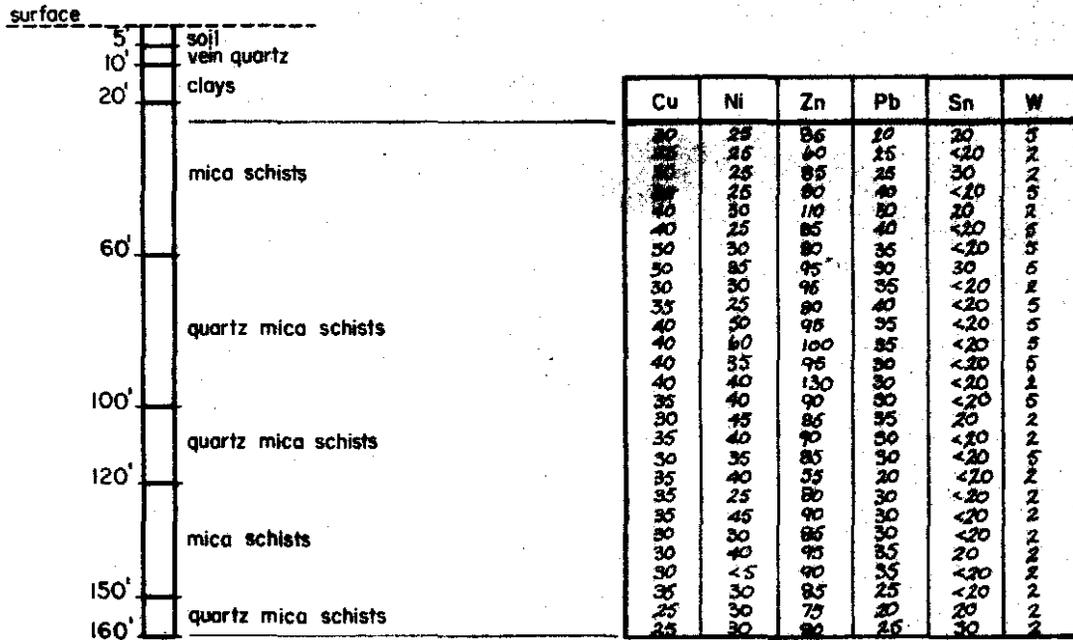


A
 B
 C

74-1043

surface		Cu	Ni	Zn	Pb	Sn	W
		15	10	35	<20	<20	2
		10	10	20	20	<20	2
	sandy soil	10	10	30	<20	<20	2
		15	5	30	25	<20	2
25'		15	10	35	25	<20	2
		10	10	105	60	<20	2
	sand	20	10	105	60	<20	5
40'		30	15	350	270	<20	2
		30	35	540	730	<20	2
	decomposed mica schist	30	30	1000	130	<20	5
		25	20	1100	1100	<20	5
60'		25	20	1200	1700	<20	10
		20	25	1100	1100	<20	2
	weathered mica schist	30	20	640	750	<20	2
		30	25	540	850	<20	5
80'		20	30	1100	980	<20	5
		20	25	420	680	<20	5
	quartz mica schist	20	30	480	620	<20	5
		20	30	370	500	<20	2
100'		25	30	400	490	<20	2

E.L. 5/69
 INVESTIGATOR 19-1
 Geological Log and Geochemistry



E.L. 5/69
 WATER BORE No. 2
 Geological Log and Geochemistry

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