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72-886

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743001

INTERIM REPORT ON E.L. 48/70

PIERAN AREA

E.L. 48/70 was renewed on the 6th June, 1972 for a further six months. It was simultaneously reduced in area to 39 square miles.

Relevant field data collected prior to the end of 1972 and presented in the 1971-72 Annual Report which pertains to this reduced area has been redrafted on 1:10000 base maps.

The maps appended to this report are:

- (a) Geological Maps (2 sheets)
- (b) Magnetometry Maps (2 sheets)
- (c) Tin Values in Stream (2 sheets)  
Sediment Samples
- (d) Copper Values in Stream (2 sheets)  
Sediment Samples

Some additional geological information was obtained from the H.E.C. on the Delville Saddle area and is shown on the Geological Map - sheet 2.

There is little point in discussing the results presented in general terms. It is sufficient to say that only two restricted areas show any potential. These are:

- I. Sheet 2: - the gridded area.
  - II. Sheet 1: - the geochemically anomalous area stretching several miles to the North-East of the existing Field Camp on Violet Rivulet.
- I. This gridded area falls largely on the granite and immediate granite margin which is largely covered by Tertiary gravels.

Tin values are high in the streams, copper values are high in places.

No further work is recommended on this area because:

+ TRANS. HELD IN VERTICAL

- (a) The granite is not altered to any reasonable degree.
- (b) The gravels are thin.
- (c) There are no old workings in the area.
- (d) Lack of any aeromagnetic anomalies.
- (e) Abundance of small workings (all sub-economic) in the nearby Heemskirk Granite which would yield geochemical anomalies similar to those located in this area.

II. This area stretches from the current Field Camp on Violet Rivulet, North-East to an unnamed river (called Webster's Creek by some).

A limited soil and ground magnetic survey is recommended for completion in August in this area. The reasons are:

- (a) The Copper and Tin values in the stream sediments are generally very high.
- (b) The area is mapped as Precambrian sediments with only minor patches of Tertiary gravels present.
- (c) An "aeromagnetic discontinuity" exists in the general area.
- (d) The anomalous area trends concordantly with the regional stratigraphy.
- (e) One shallow prospecting shaft exists in the area. Some sulphide mineralisation was present in the dump material.

The work recommended consists of laying out a grid, soil sampling it, and if time permits, covering it with a ground magnetometry survey.

Estimated cost of this work is \$750-1000. If there is no encouragement from this work, I recommend the relinquishment of E.L.48/70 in its entirety.

L.A. NEUNHAM  
Chief Geologist  
Ranison Limited



4th August, 1972.



299 — 876  
 299 — 872  
 299 — 870  
 299 — 868

- SYMBOLS**
- 70° Cleavage, with Dip
  - 30° Bedding, with Dip
  - Geological Outcrop Boundary
  - Inferred Geological Boundary
  - Fault
  - Track
  - Bridge
  - Huts
  - Old Prospect

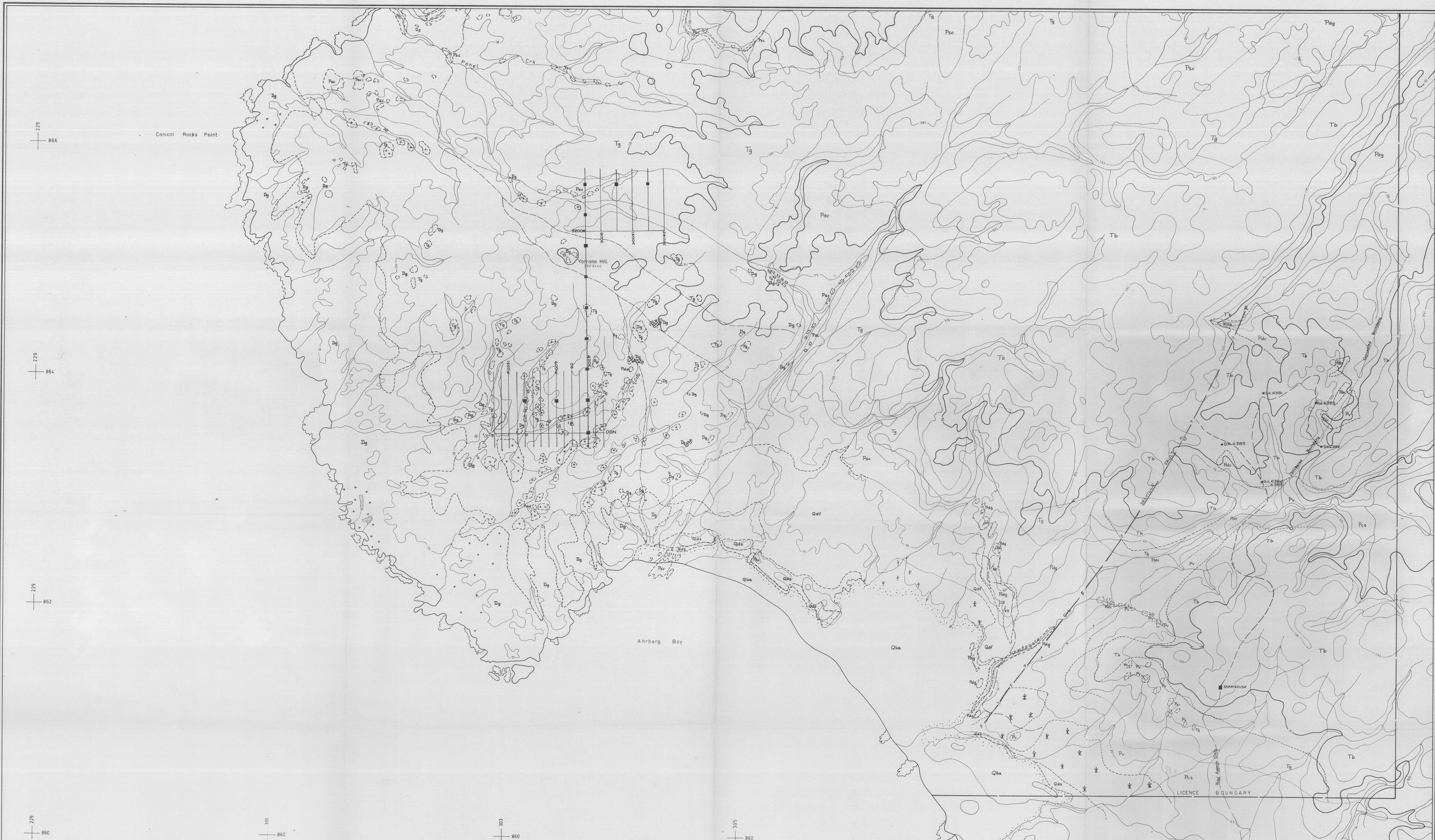
- LEGEND** — Outcrop Colors Darker Than Inferred Colors — Thus
- |                       |                                |                         |  |
|-----------------------|--------------------------------|-------------------------|--|
| <b>QUATERNARY</b>     | <b>TERTIARY</b>                | <b>DEVONIAN</b>         | <b>PRECAMBRIAN</b>                           |
| Qds Stable Sand Dunes | Tg Quartzose Sands and Gravels | Dg Biotite Rich Granite | P Donaldson Group Undifferentiated           |
|                       |                                |                         | Pds Siltstone, Mudstone                      |
|                       |                                |                         | Pdc Conglomerate                             |
|                       |                                |                         | Pds Quartzites, Sandstones                   |
|                       |                                |                         | Psc Siltstones, shales, micaceous sandstones |
|                       |                                |                         | Pl Intervale Siltstone                       |

TOPOGRAPHIC CONTOUR INTERVAL 15m

743003  
 ACI & CONSOLIDATED SYNDICATE JOINT VENTURE  
 E.L. 48/70  
 PIEMAN PROJECT  
 GEOLOGICAL MAP 2557

DATE JULY 72  
 SCALE 1:10,000  
 DRAWING No. SHEET 1  
 7-1126

SCALE 1:10,000 METRES  
 5cm

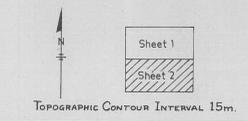


**SYMBOLS**

	Cleavage, with Dip		Fault		Geochemical Pt Sample
	Bedding, with Dip		Swamp		Diamond Drill Holes
	Geological Outcrop Boundary		Track		Pegged Grid Lines
	Inferred Geological Boundary		Approx. H.W. Mark		

**LEGEND** — Outcrop Colors Darker Than Inferred Colors — Thus

QUATERNARY		TERTIARY		DEVONIAN		PRECAMBRIAN	
	Beach and Active Dune Sand		Quartzose Sands and Gravels		Biotite Granite		Dolerite?
	Stable and Partly Vegetated Dunes		Basalt		Biotite Muscovite Granite		Donaldson Group—Undifferentiated
	Button Grass Covered Sand Flats				Possible Hornfelsed Siltstone Interiors		Savage Dolomite and Deville Chert
					Bernafai Volcanics		Corinna Slate
					Surprise Creek Beds		



ACI & CONSOLIDATED SYNDICATE JOINT VENTURE

E.L. 48/70  
PIEMAN PROJECT  
GEOLOGICAL MAP 2558

SCALE: 1:10,000 METRES

72-886

DRAWN: [Signature]  
TRACED: [Signature]  
DATE: JULY 1972  
SCALE: 1:10,000  
DRAWING No. SHEET 2

743004

299  
874

299  
872

Rupert Point

299  
870

299  
868

301  
868

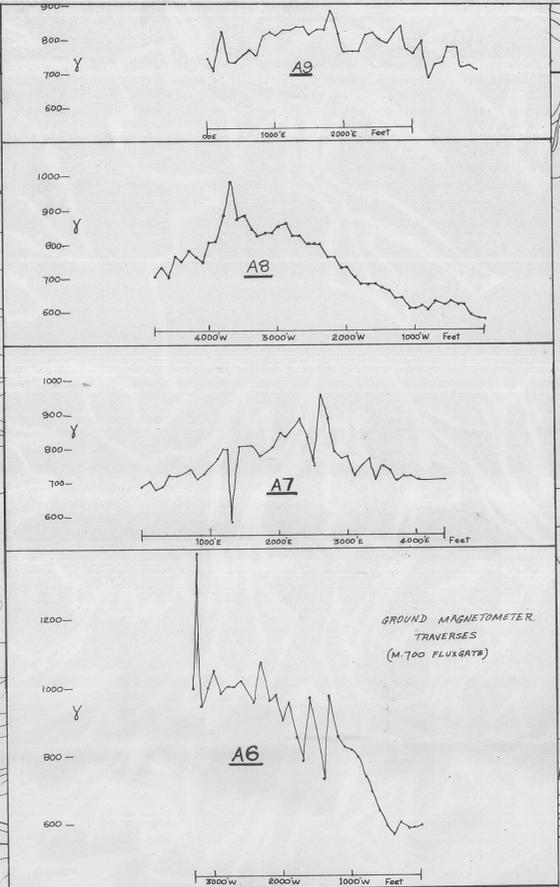
F1

Pieman Head

Hardwicke Bay

PIEMAN RIVER

FIELD CAMP



Inset shows ground magnetometry results taken with an M-700 along the pegged grid lines

A10 Pegged Grid Line

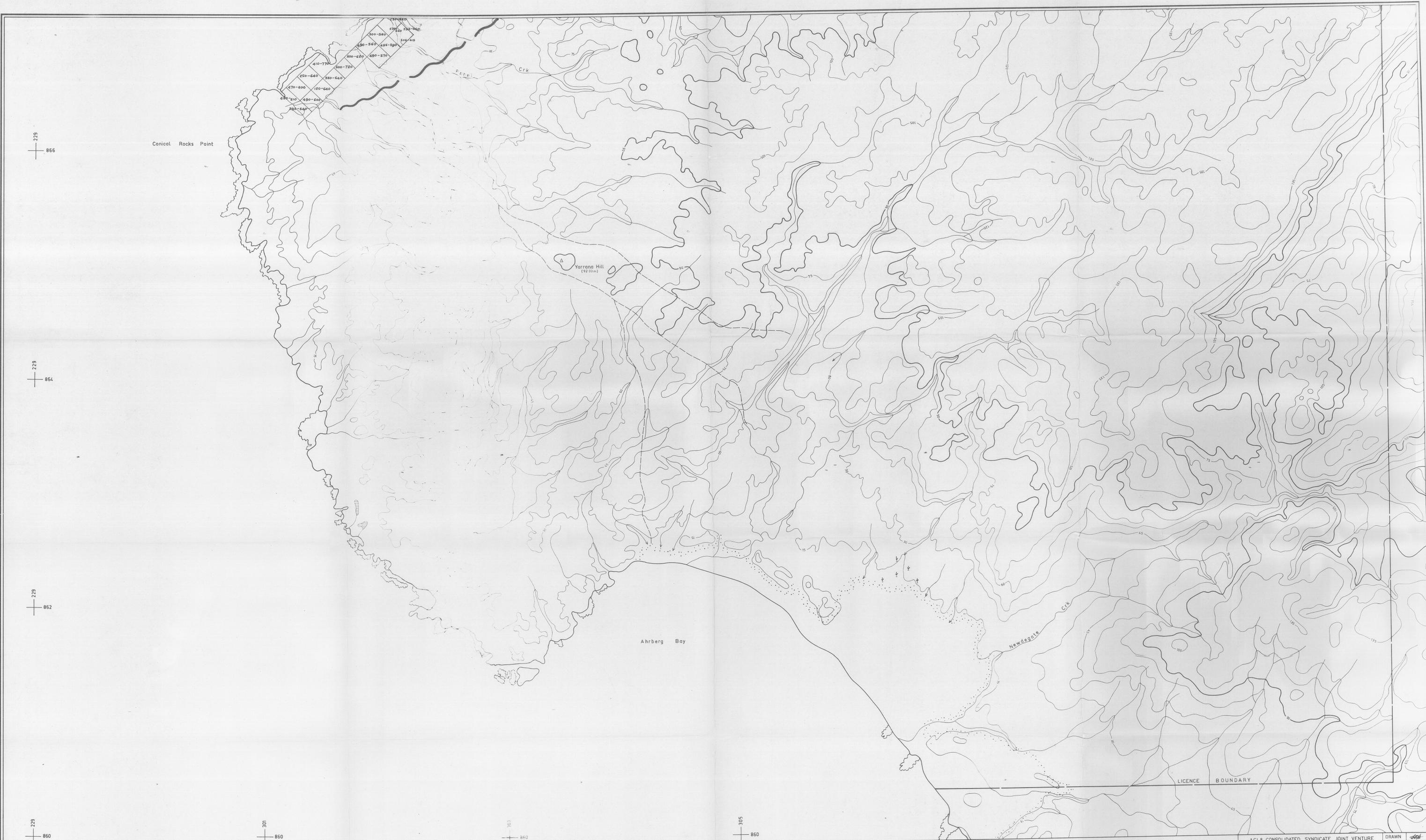
Aeromagnetic Discontinuity



Sheet 1  
Sheet 2

743005  
ACI & CONSOLIDATED SYNDICATE JOINT VENTURE  
E.L. 48/70  
PIEMAN PROJECT  
MAGNETOMETRY RESULTS  
SCALE 1:10,000 METRES

DRAWN	<i>[Signature]</i>
TRACED	<i>[Signature]</i>
DATE	7-2-88
SCALE	1:10,000
DRAWING No.	SHEET 1
	2559



229  
866

229  
864

229  
862

229  
860

301  
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303  
860

305  
860

500-600 Pegged Grid With Range of Ground Magnetic Readings, in Gammas, read with an M700 along the boundaries of each square. Readings every 15m.

Aeromagnetic Discontinuity

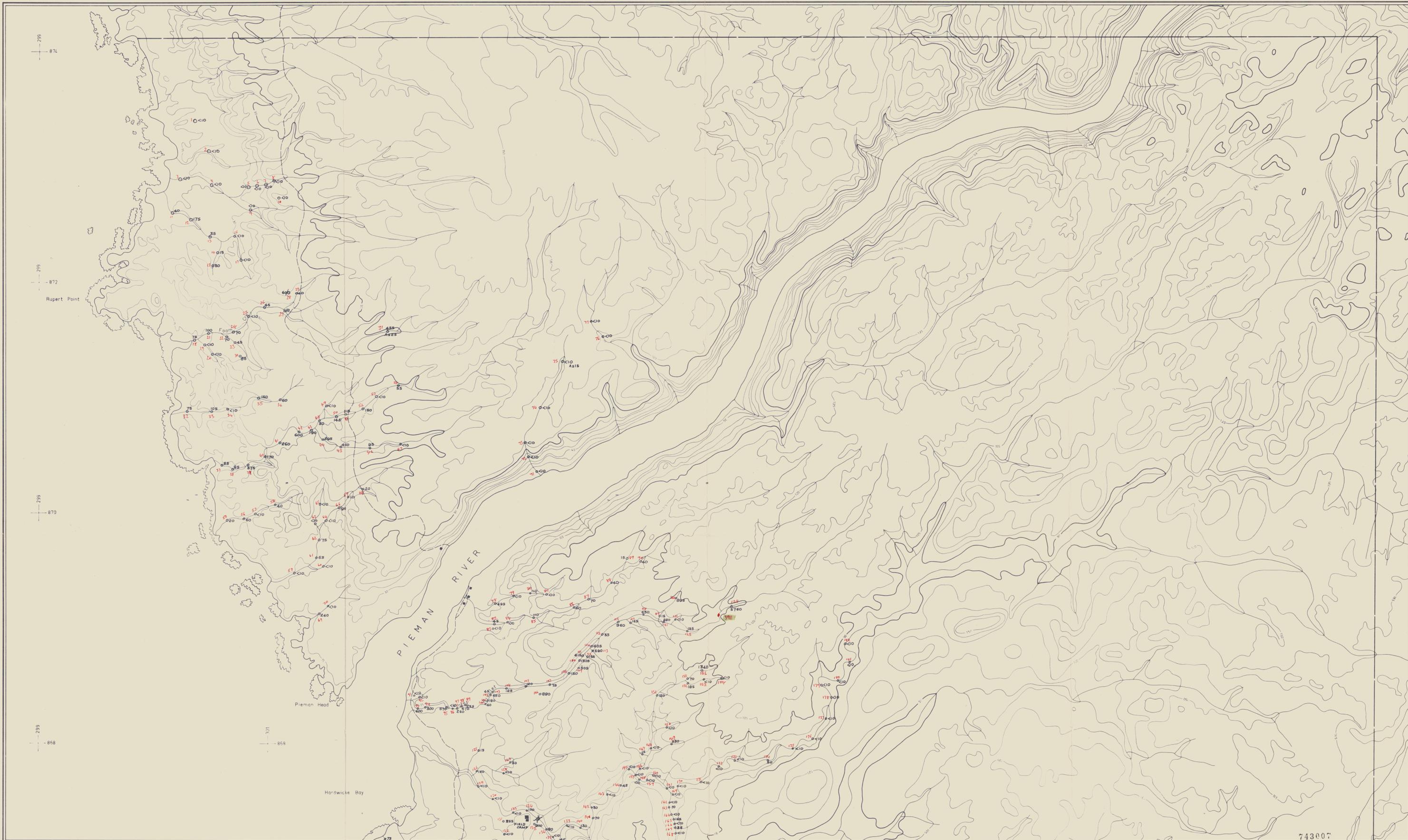


Sheet 1  
Sheet 2

ACI & CONSOLIDATED SYNDICATE JOINT VENTURE  
E.L. 48/70 72-886  
**PIEMAN PROJECT**  
**MAGNETOMETRY RESULTS**  
SCALE: 1:10,000 METRES  
500 200 100 0 100 200 300

DRAWN	<i>SPH</i>
TRACED	<i>SPH</i>
DATE	JULY 1972
SCALE	1:10,000
DRAWING No.	SHEET 2
	2560

743006 5 cm



- p.p.m Sn
- <10 p.p.m.
  - 10-50
  - 50-100
  - 100-250
  - >250

⊥ Pegged Grid Lines

■ Geochemical Pit Locality

○ Sample Location and Tin Content in p.p.m. of the -95 mesh Fraction



743007

ACI & CONSOLIDATED SYNDICATE JOINT VENTURE

DRAWN: [Signature]

TRACED: [Signature]

DATE: July 1970

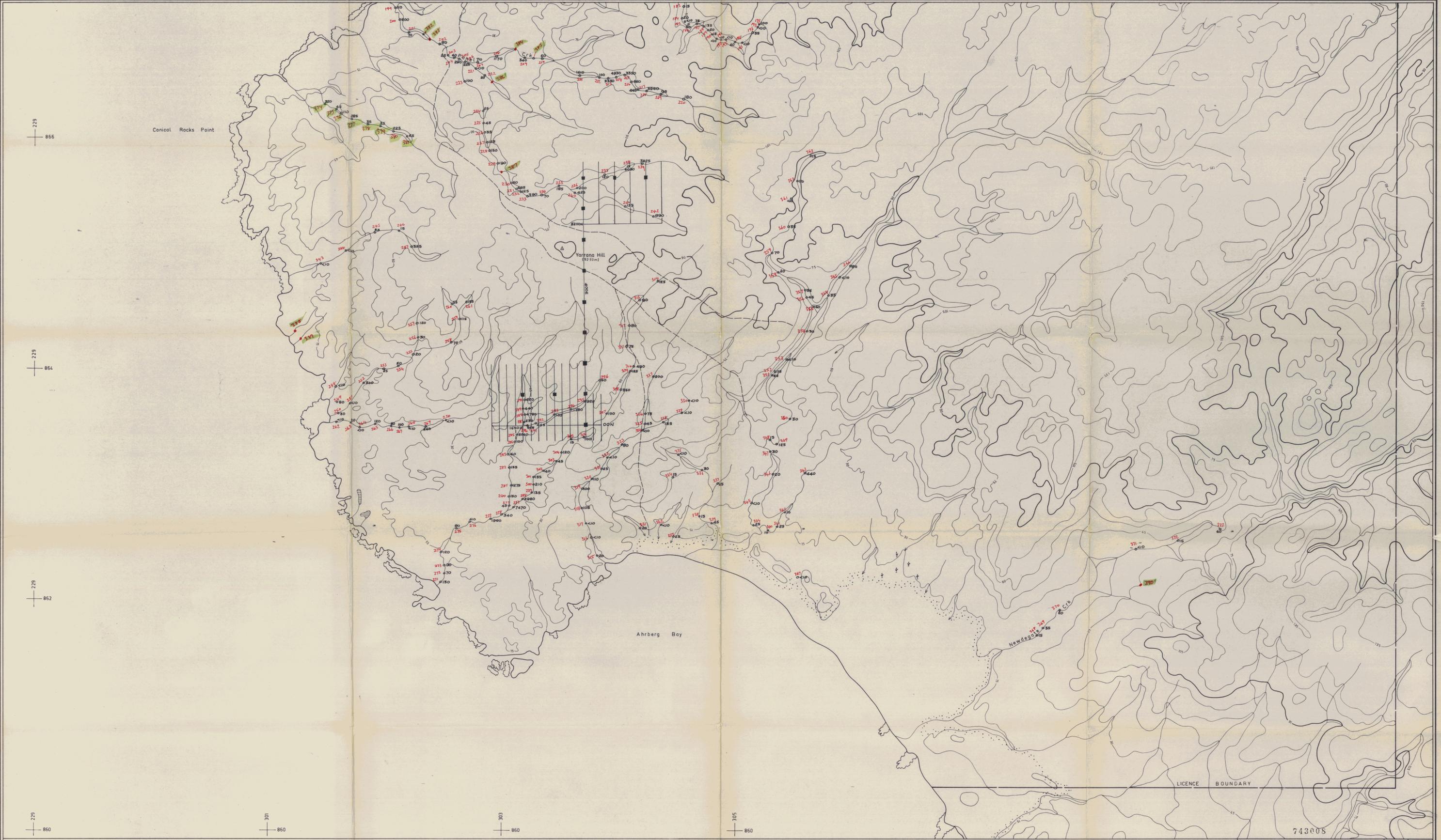
SCALE: 1:10,000

DRAWING No. SHEET 1

2561

E.L. 48/70  
PIEMAN PROJECT  
STREAM GEOCHEMISTRY  
TIN VALUES

SCALE: 1:10,000 METRES



229  
866

229  
864

229  
862

229  
860

301  
860

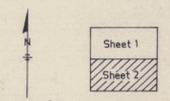
303  
860

305  
860

- p.p.m. Sn
- 0-10 p.p.m.
- 10-50
- 50-100
- 100-250
- >250

++ Pegged Grid Lines  
■ Geochemical Pit Locality

Sample Location and Tin Content in p.p.m. of the -85 mesh Fraction



743008

ACI & CONSOLIDATED SYNDICATE JOINT VENTURE

E.L. 48/70  
PIEMAN PROJECT  
STREAM GEOCHEMISTRY  
TIN VALUES 2562

SCALE 1:10,000 METRES

0 200 400 600

5 cm

DRAWN	<i>[Signature]</i>
TRACED	<i>[Signature]</i>
DATE	JULY 1978
SCALE	1:10,000
DRAWING No.	2562
<b>SHEET 2</b>	



- p.p.m. Cu
- ≤10
  - 10-25
  - 25-50
  - 50-100
  - >100

■ Geochemical Pt Locality

○ Sample Location and Copper Content  
in p.p.m. of the -85 mesh Fraction



743009

ACI & CONSOLIDATED SYNDICATE JOINT VENTURE

E.L. 48/70

PIEMAN PROJECT

STREAM GEOCHEMISTRY

COPPER RESULTS

SCALE: 1:10,000 METRES

DRAWN	TRACED
DATE	JULY 1970
SCALE	1:10,000
DRAWING No.	SHEET 1
2563	



229  
866

229  
864

229  
862

229  
860

Conical Rocks Point

Yarrana Hill  
(527.3m)

Ahrberg Bay

LICENCE BOUNDARY

- p.p.m. Cu
- ≤10
- 10-25
- 25-50
- 50-100
- >100

⊥ Pegged Grid Lines

■ Geochemical Pt Locality

○ Sample Location and Copper Content  
in p.p.m. of the -85 mesh Fraction



ACI & CONSOLIDATED SYNDICATE JOINT VENTURE

E.L. 48/70  
PIEMAN PROJECT  
STREAM GEOCHEMISTRY  
COPPER VALUES

SCALE: 1:10,000 METRES



DRAWN	TRACED
DATE	JULY 1972
SCALE	1:10,000
DRAWING No.	
<b>SHEET 2</b>	<b>2564</b>

743010