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received	- 4 JAN 1982			E & IL
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DEPT. OF MINES				
REF. No.	36/82			

PROJECT NAME: RINGAROOMA JOINT VENTURE - TASMANIA

TITLE: QUARTERLY REPORT TO THE DEPARTMENT
OF MINES TASMANIA
AUTHORITY TO PROSPECT 1/80 FOR THE
PERIOD ENDING 7 DECEMBER 1981

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES: SK55-4, Launceston
5 84 000m E
54 70 000m N

COMMODITY/IES: Tin

TEXT PAGES NO: 5.

PLAN NOS: TAS-10-1, 2, 3 and 4.

TABLE NOS:

APPENDICES:

AUTHOR/S: Bruce D Mellor

DATE: 21 December 1981

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

EL 2/77 - SOUTH MOUNT CAMERONA P 1/80 - SCOTIAQUARTERLY REPORT TO THE DEPARTMENT OF MINESTASMANIA FOR THE PERIOD ENDING 7 DECEMBER 19811. Preamble

The Triako Mines NL group of companies and Australian Anglo American Prospecting Proprietary Limited have signed a Joint Venture agreement to explore the Ringarooma Valley and the Great Northern Plain tin placers. Moruka Tin Pty Ltd and Kibuka Mines Pty Ltd are members of the Triako group of companies. The principal tenements involved in the Joint Venture are:

<u>Tenement</u>	<u>Company</u>
EL 28/76	Moruka Tin Pty Ltd
EL 2/77	Kibuka Mines Pty Ltd
EL 5/81	Australian Anglo American Prospecting Proprietary Limited
A P 1/80	Kibuka Mines Pty Ltd

The location of these tenements is shown on the attached plan. The tenements are being prospected as one prospecting entity.

EL 6/78, previously held by Kibuka Mines Pty Ltd, has been combined with EL 2/77.

2. Work Done

The principal work done has been the drilling of forty-nine holes, totalling 1 959.75 metres to test for alluvial deposits in five localities throughout the prospect area. These holes have tested some of the prospective areas indicated by J Newton-Smith in his report 'A Preliminary Review of the Alluvial Tin Potential of the Ringarooma Valley' (27 February 1981). The drill rig used was a Jetstream Reverse Circulation Air Blast Rig, which drills a BW sized hole (59.9mm) to depths of approximately 100 metres. The contractor was Kitching Jetstream Exploration Testing Pty Ltd. Samples were collected over 2 metre intervals and were deslimed and concentrated in Amdex Mining Ltd's sample preparation room at Pioneer. The concentrates were assayed for tin by Amdex Mining Ltd.

The areas tested by drilling were as follows:

2.

<u>Tenement</u>	<u>Area</u>	<u>Holes Drilled</u>	<u>Total Metres</u>
EL 2/77	Dauids Creek	9	378.25
EL 2/77	Gellibrand Plain	11	282.5
EL 2/77	Trout Creek	7	203
A P 1/80	Scotia	7	218.8
EL 28/76	Arba	13	771.2
Pioneer Leases	Pioneer Test Hole	2	106
			1 959.75

Two holes, totalling 106 metres were drilled ahead of the Pioneer Pit to gain an indication of the quality of the Jetstream sample. The two holes were at sites previously tested by both Churn Drill and Wallis Reverse Circulation rigs. The comparison of results is as follows:

<u>Site</u>	<u>Churn Drill</u> g Sn O ₂ /m ³	<u>Wallis R C Rig</u> g Sn O ₂ /m ³	<u>Jetstream R C Rig</u> g Sn O ₂ /m ³
K81	444	465	222
K111	365	313) 317)	173

Depth correlations were reasonably close. It this appears that the Jetstream Rig indicates approximately half the grade indicated by the other two rigs.

3. EL 2/773.1. Tenement Area

The tenement was increased in size by the incorporation into EL 2/77 of the EL 6/78.

3.2. Drilling - Summary of Results

<u>Location</u>	<u>Holes Drilled</u>	<u>Total Metres</u>	<u>Results</u>
Dauids Creek	9	378.25	The drilling was ineffective
Gellibrand Plain	11	282.5	A gutter was located, no tin present
Trout Creek	7	203	A gutter was located, no tin present
		27	863.75

3.3. Davids Creek (Plan TAS-10-4)

(Nine holes, 378.25 metres)

The holes were designed to test for either:

- (a) Extension of the Echo lead to the north.
- (b) The gutter of the Tertiary Ringarooma River.

The drilling here was ineffective, as most of the holes were abandoned before basement was intersected. Most of the holes struck heavy flows of artesian water, and this, coupled with running sands, large cobbles and occasional basalt boulders prevented completion of the holes.

3.4. Gellibrand Plains (Plan TAS-10-1)

(Eleven holes, 282.5 metres)

The drilling was designed to test for alluvial tin deposits in gutters in the Tertiary sediments in the Boobyalla River. A secondary objective was to test for alluvial gold in the sediments.

The drilling defined a gutter between holes GRC2 and GRC8. Not all assay results for tin have yet been received, but to date, all results are low and the rest of the results are expected to be the same. No gold assay results have yet been received.

3.5. Trout Creek (Plan TAS-10-2)

(Seven holes, 203 metres)

The objective of the drilling was the same as for Gellibrand Plains, namely, to test for alluvial tin and/or gold deposits in gutters in the Tertiary sediments in the Boobyalla River valley.

Holes were drilled across the valley at intervals of 160 metres, and the drilling shows a gutter east of TRC5 and extending east of TRC11, the most easterly hole. Again, the tin content of all holes was low. No gold assay results have yet been received.

3.6. Work Programme For The Next Three Months

The work programme includes completing the assaying of samples, surveying of holes and plotting of the results of the recently completed drilling, to be followed by assessment of the results and planning future exploration. No drilling is planned for the next three months, but plans will be prepared for drilling after April, 1982.

4.

4. A P 1/80 - Scotia4.1. Drilling (Plan TAS-10-3)

Seven holes were drilled in the north of A P 1/80, and were designed to test for extension to the north of the Scotia Lead. The line of holes was drilled approximately half way between two lines of old holes which had shown the existence of the Scotia Lead, but with low tin content. The exact location on the ground of the old holes is not known.

The Jetstream holes showed a gutter over 240 metres wide. The actual width of the gutter is not established as the most easterly hole, SR6, showed the deepest intersection of the gutter (30m). The grades of the holes, as indicated by the Jetstream rig, ranged from 74-122g Sn O₂/m³. If the relationship indicated by the test holes² at Pioneer applies here, the actual grade will be approximately twice these grades, (i.e. 148-244 g Sn O₂/m³)

4.2. Engineering Study

An engineering study has been started to determine the technical and economic feasibility of mining the Scotia Lead. This survey will also pinpoint areas in need of further testing.

4.3. Work Programme For The Next Three Months

All outstanding data pertaining to the recently completed drilling will be plotted. No drilling is planned for the next three months, although further drilling is required to check the grades indicated by the Jetstream Drilling, and to complete the drill section across the full width of the mineralised zone east of SRC6. Plans will be prepared for this drilling after April, 1982. The engineering feasibility study will be continued.

5. EL 28/76

(Arba - thirteen holes, 771.2 metres)

Thirteen holes were drilled on the river flats of the Ringarooma River to the north of Arba Hill. Details of this drilling will be presented in a Six Monthly Report due in late December, 1981. A summary of results is as follows:

Two lines of holes were drilled. The more northerly line consisted of nine holes spaced at 80 metres apart. This line tested the Tertiary sediments between the base of Branhholm Estate Hill and the Ringarooma River near the most north-westerly hole of the line of previously drilled holes. The line of new holes showed the presence of a broad depression in the basement, but the tin content of all holes was low.

The second line of four holes was drilled at the northern base of Arba Hill, in a gap in the previously completed drilling. These four holes indicated a depression in the basement, but the tin content of the sediments at the basement was low. There was, however, a layer of tin bearing shingle at a depth of about 10 metres.



Bruce D Mellor
Divisional Geologist

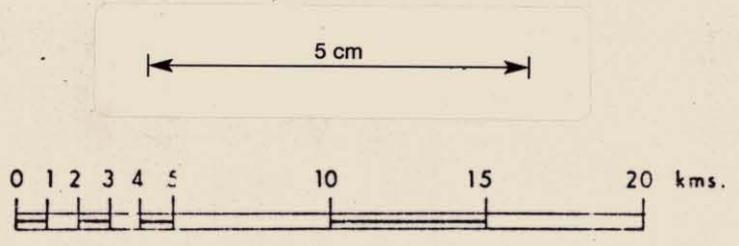
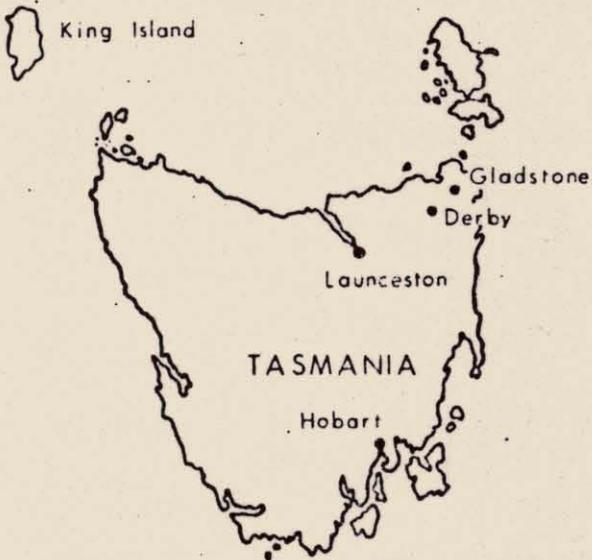
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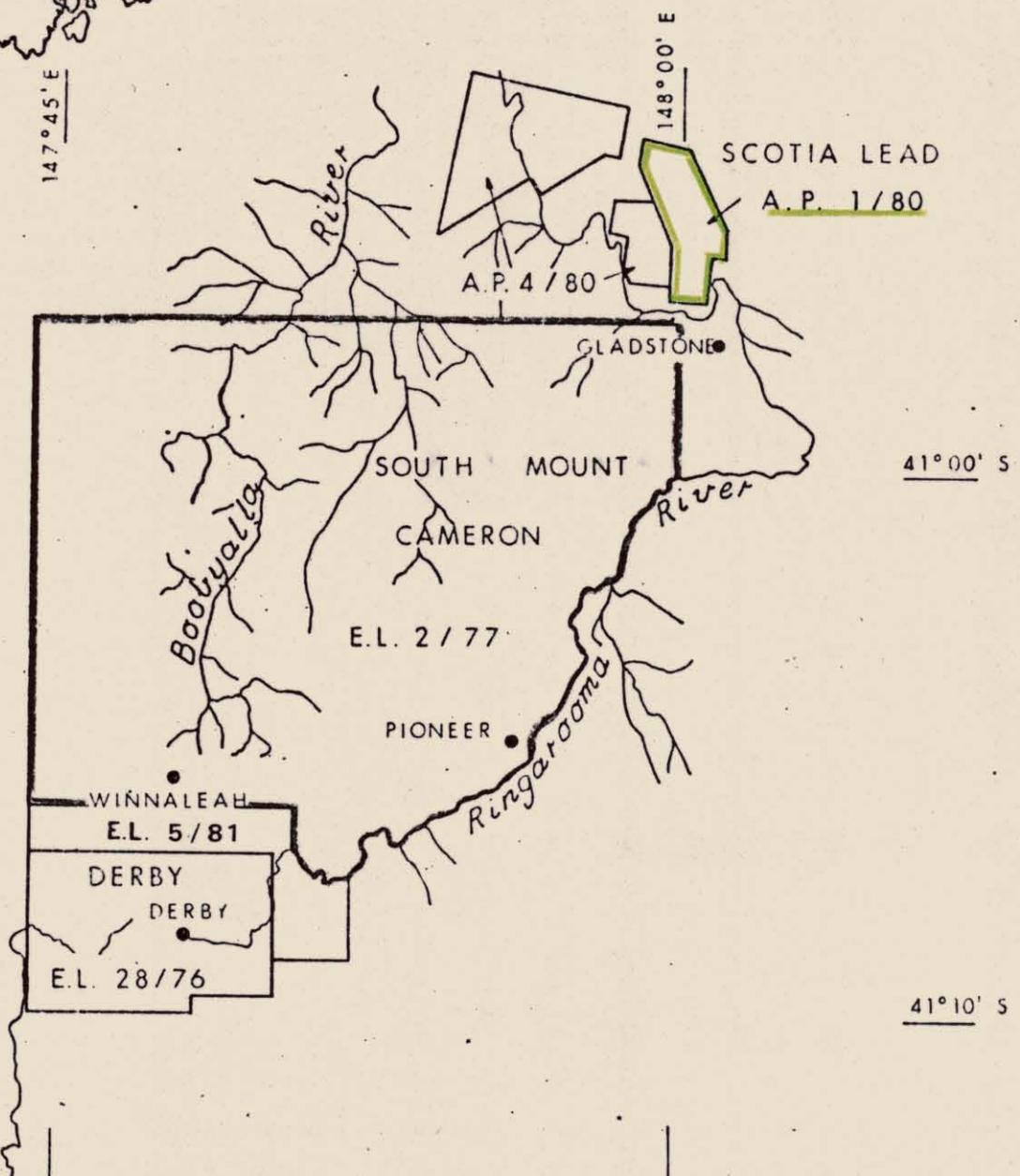
R J Kernick
Exploration Manager

BDM:AML

21 December 1981



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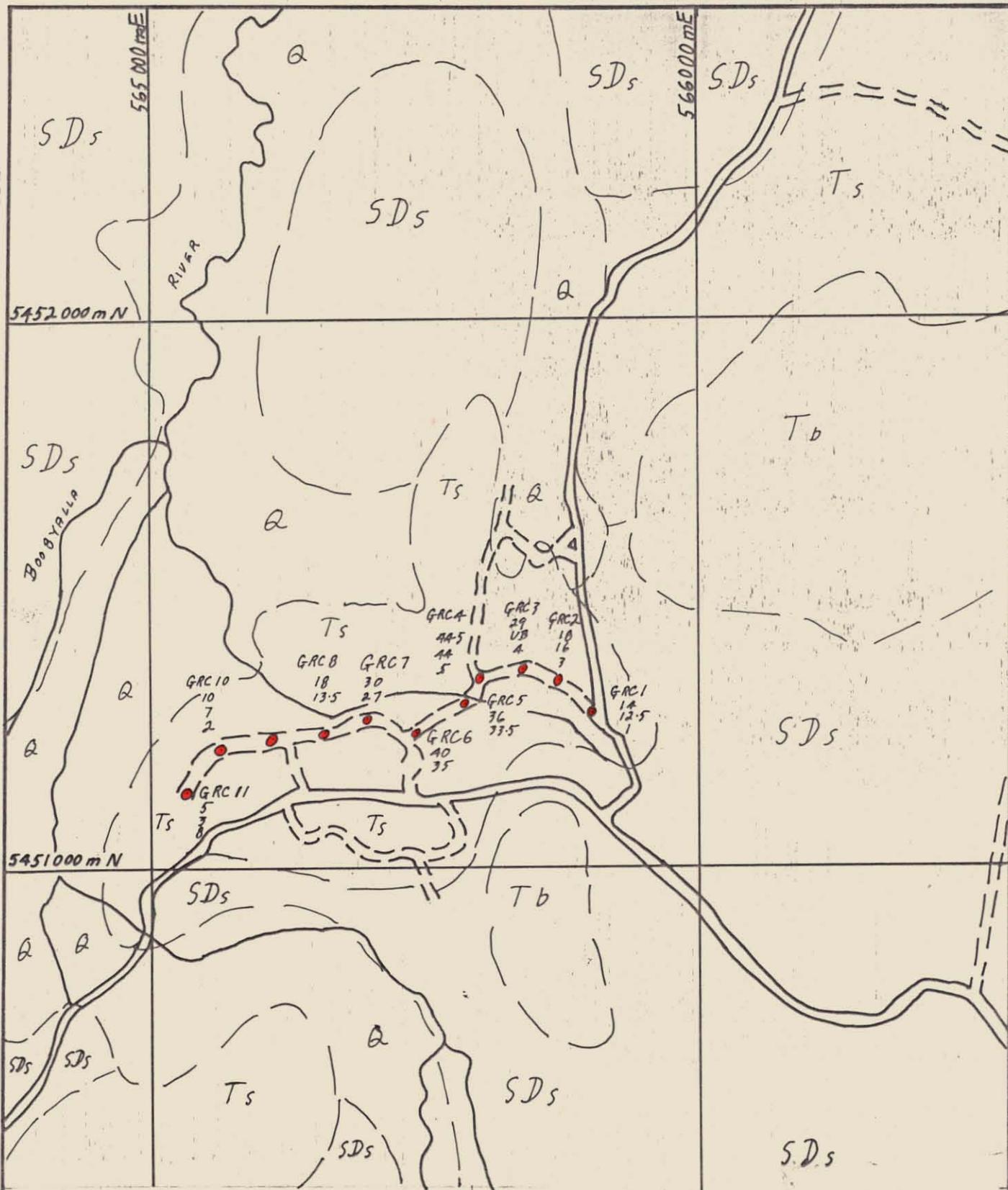


Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

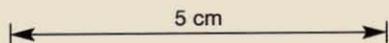
Author	Date	Dwg. No.
Drafting	Report No.	Base Plan

Fig 1



○ HOLE NUMBER
 DEPTH OF HOLE
 DEPTH TO BASEMENT
 GRADE ($g\text{ SnO}_2/m^3$)

Q QUATERNARY
 Tb TERTIARY BASALT
 Ts TERTIARY SEDIMENT
 SDs MATHERINA BEDS



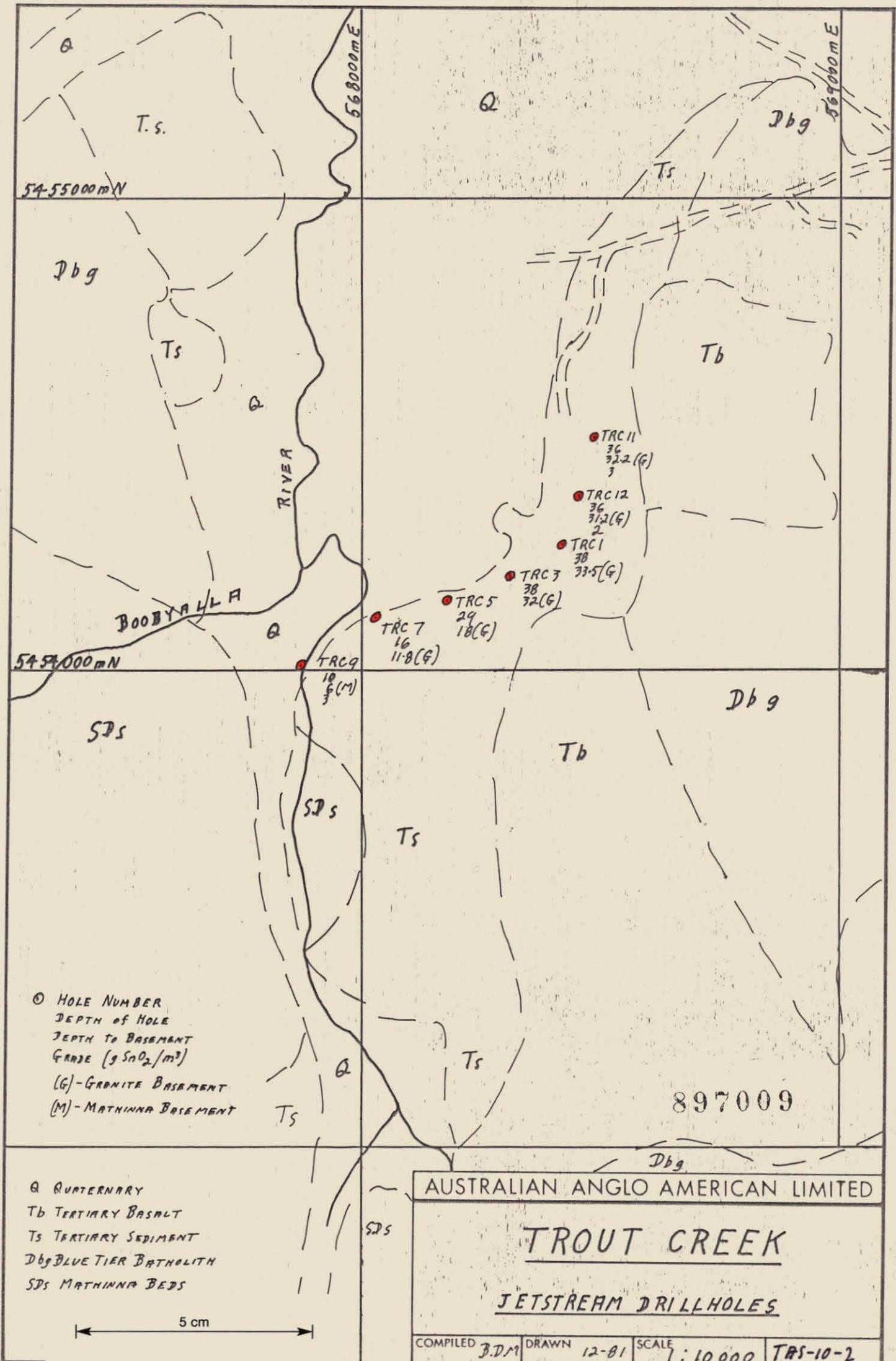
897008

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GELLIBRAND PLAIN

JETSTREAM DRILLHOLES

COMPILED B.R.M. DRAWN 12-81 SCALE 1:10 000 TRG-10-1



5455000mN

568000mE

569000mE

5454000mN

BOOBYA L L A

RIVER

○ HOLE NUMBER
 DEPTH OF HOLE
 DEPTH TO BASEMENT
 GRADE (g SO₂/m³)
 (G) - GRANITE BASEMENT
 (M) - MATHINNA BASEMENT

Q QUATERNARY
 Tb TERTIARY BASALT
 Ts TERTIARY SEDIMENT
 Dbg BLUE TIER BATHOLITH
 SDs MATHINNA BEDS

5 cm

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TROUT CREEK

JETSTREAM DRILLHOLES

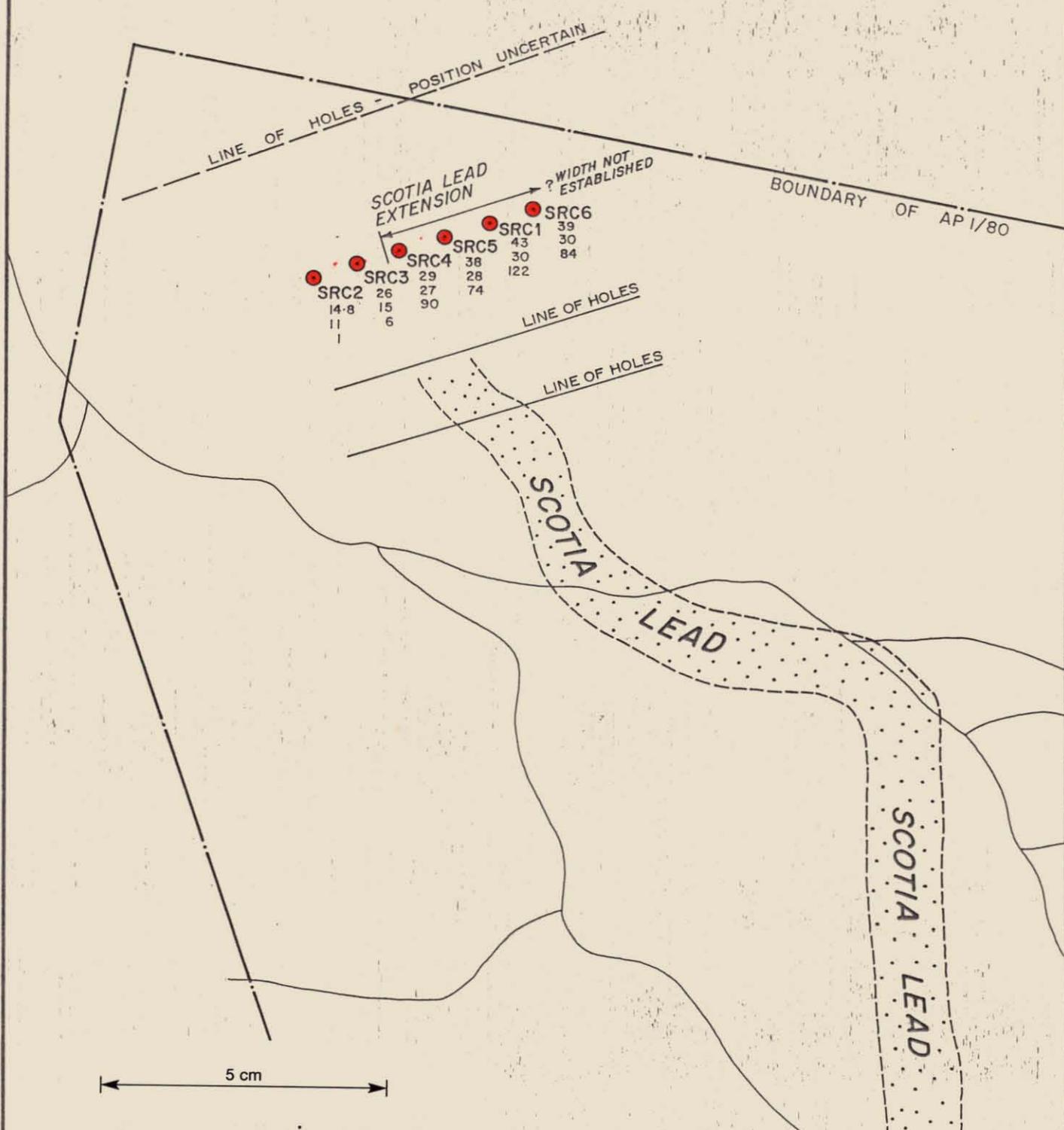
COMPILED B.D.M. DRAWN 12-81 SCALE 1:10000 TAS-10-2

897009

Dbg

SDs

NB Location of lines of drillholes relative to each other and natural features and AP 1/80 boundary has not been established

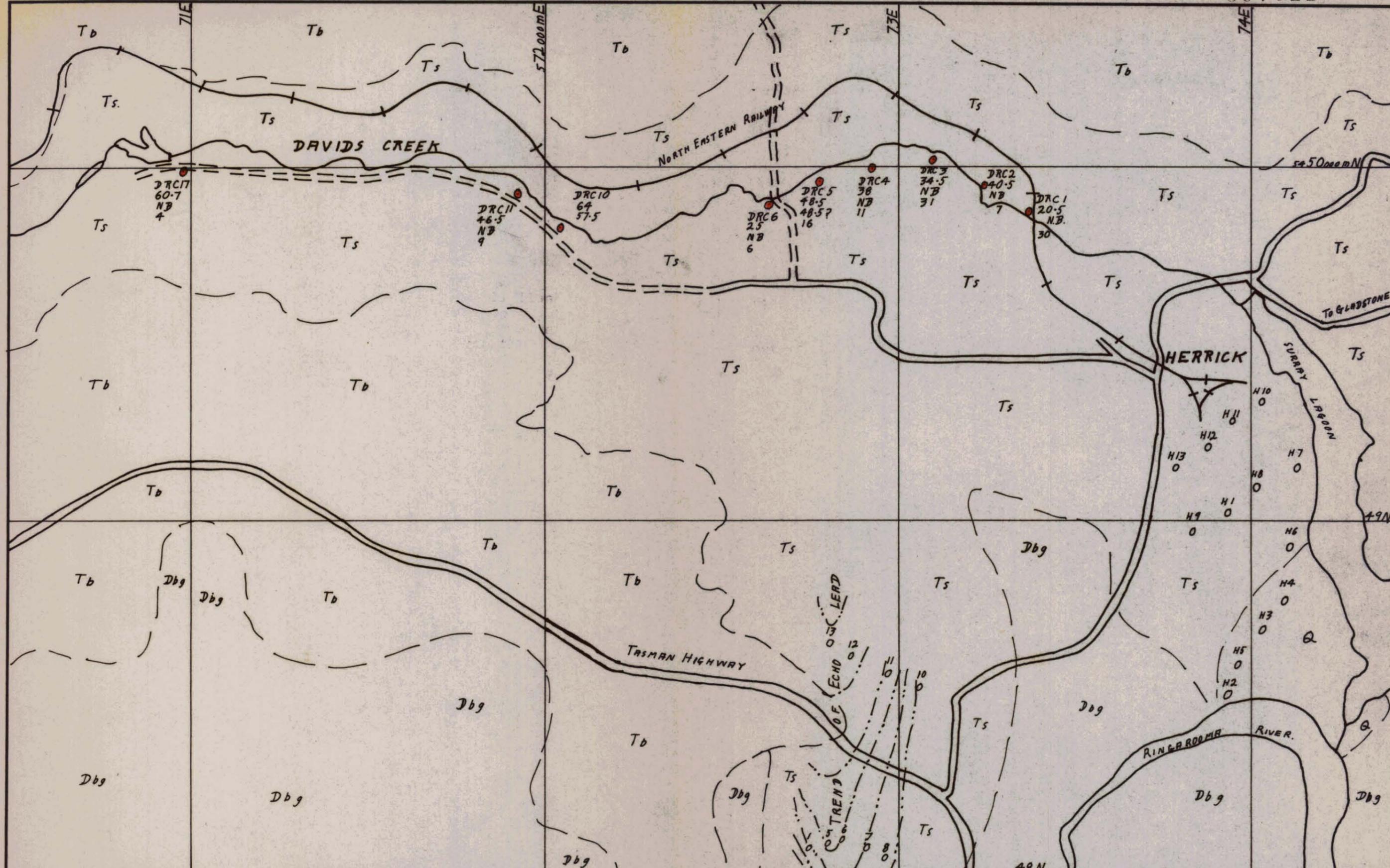


5 cm

⊙ SRC2 Hole number
38 Depth of hole
27 Depth to basement
84 Grade (g SnO₂/m³)

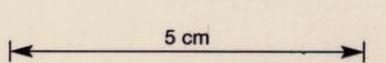
0 600
METRES

AUSTRALIAN ANGLO AMERICAN LIMITED			
SCOTIA LEAD AP 1/80 - TASMANIA JETSTREAM DRILLING			
COMPILED	BDM	DRAWN	12/81
SCALE		1:10,000	
			TR5-10-3



○ HOLE NUMBER
 DEPTH OF HOLE
 DEPTH TO BASEMENT
 GRADE (gSO₂/m³)

Q QUATERNARY
 Tb TERTIARY BASALT
 Ts TERTIARY SEDIMENT
 Dbg BLUE TIER BATHOLITH



AUSTRALIAN ANGLo AMERICAN LIMITED

DAVIDS CREEK
 EL 2/77
JETSTREAM DRILLING

COMPILED B.D.M. DRAWN 12/81 SCALE 1:10 000 TRS-10-4