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DEPT. OF MINES				
REF. No. 7822/81				

PROPOSED EXPLORATION PROGRAMME

EL 47/71 FOR THE SIX MONTHS TO

DECEMBER 21st, 1981.

Incorporating a review of previous exploration, a proposed programme for the excision area and an objection to the proposed excision.

OPEN FILE

Aberfoyle Exploration Pty. Ltd.
September 7th, 1981.

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SUMMARY

Since the granting of EL 22/73 in December 1973 (subsequently amalgamated with EL 47/71), exploration was carried out on the individual EL's, amalgamated EL and St. Dizier ML's as follows:

- .. 1973/74 Geological mapping, geochemistry and geophysics with diamond drilling and trenching on detailed grid over the St. Dizier skarn mineralisation.
- .. 4/1975 Airborne EM and Mag survey of EL 22/73. Anomalies located for ground follow up.
- .. 1976/77 Geological mapping and detailed ground magnetic survey on grid establishment from St. Dizier to 'Big H' prospect.
- .. 12/1977 Airborne magnetic survey covering original EL 47/71, and EL 13/76.
- .. 1977/78 Anomalies designated Tramway, Manganese Hill, Big One, Junction, Silver Stream and Comstock were followed up.
- .. 6/1978 Regional stream sediment sampling programme over 48 sq. km of catchment was commenced.
- .. 1978/79 Regional stream sediment sampling programme was extended to assess catchment of Heemskirk Granite including St. Dizier area.
- .. 3/1980 Orientation DIGHEM survey at Queen Hill and major survey in the St. Dizier area of Licence.
- .. 1980/81 (i) Follow up on four anomalies in the St. Dizier area and three anomalies in the Big Rocky Creek area. The finding of a previously unknown sulphide bearing gossan (Donnelly's) thought to indicate a new skarn horizon.

.. 1980/81 cont. (ii) Grid re-establishment at St. Dizier - 'Big H' prospect and detailed bedrock drilling programme using a Bombardier mounted R.C. drill rig.

Expenditure on all EL's and ML's totals \$1,280,000 for the period from January 1974 to June 1981.

Because of recent advances made by Aberfoyle/CSIRO with the Matte Fuming process for the recovery of fine grained, oxide and silicate tin, the St. Dizier skarn mineralised zone is considered to be very prospective.

The present programme involves an annual budget of \$50,700 to November 11, 1981 for the EL area. It is aimed to bring all targets to the same stage of target definition when sites will be selected for diamond drilling during the summer field season.

In relation to the area of proposed excision, bedrock drilling should be extended to close off and define anomalies prior to diamond drilling.

A programme is under consideration which could result in at least 150 metres of diamond drilling being allocated to this area.

Total expenditure on EL 47/71 for 1982 is expected to exceed \$75,000.

In view of the exploration carried out and our proposed programme, within the scope of our exploration philosophy, Aberfoyle Exploration Pty. Ltd. lodges an objection to the proposed excision from EL 47/71.

INTRODUCTION

Following application for renewal of Exploration Licence 47/71 on June 21st, 1981, Aberfoyle Exploration Pty. Ltd. was requested by the Department of Mines to provide a detailed programme of proposed exploration work for the next six monthly period as the Department does not consider that the area is being actively explored.

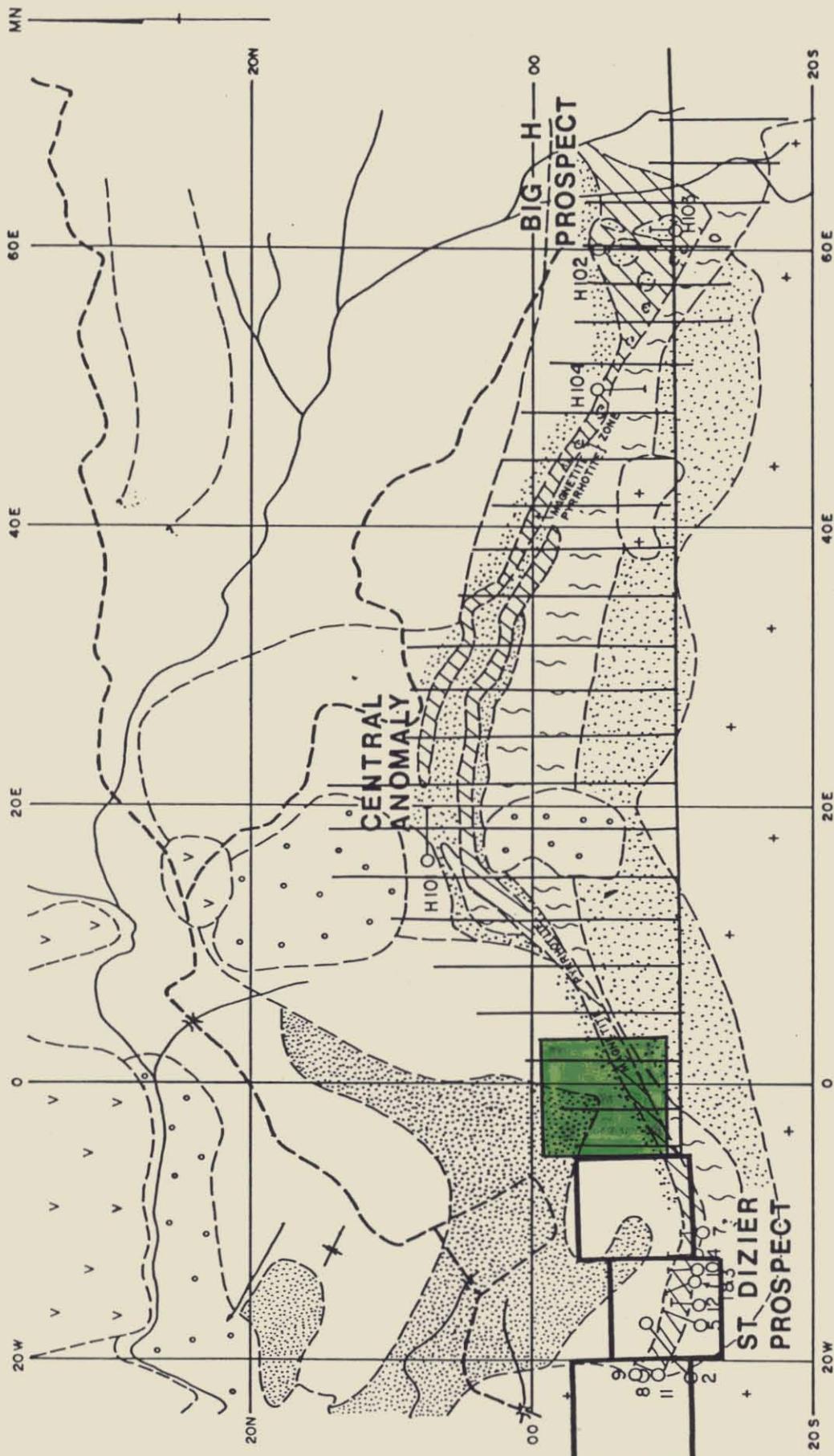
The Department of Mines proposes to excise an area adjoining ML 17M/62 from Exploration Licence 47/71 and requested comment and a programme for the area. This submission has been prepared to demonstrate our active exploration of the licence area and to support our objection to the excision of an area of prospective ground (Plate St. D 38).

HISTORY OF TENURE

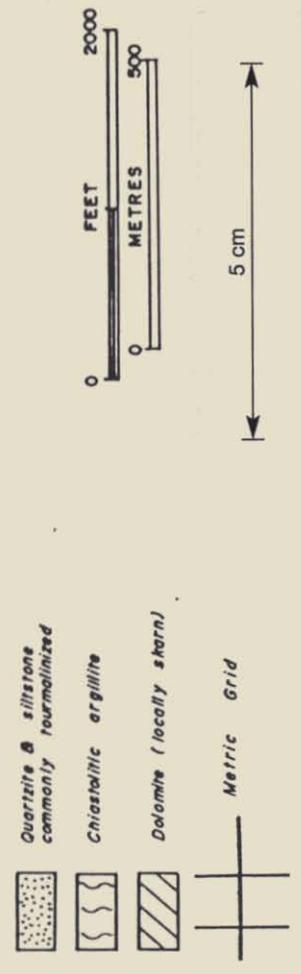
On December 21, 1971, Exploration Licence 47/71 of 24 sq. km was granted to Gippsland Minerals N.L. This licence, in conjunction with optioned Mineral Leases, gave Gippsland Minerals N.L. title to explore the Queen Hill area.

On March 27, 1972, Cominco Exploration Pty. Ltd. (C.E.P.L.) and Gippsland Minerals N.L. signed an agreement allowing C.E.P.L. to become the operating partner in a joint venture to continue exploration for cassiterite-sulphide mineralisation in the Queen Hill area. Prior to this date Gippsland Minerals N.L. had defined, by drilling, the upper portion of a body now referred to as the Queen Hill body. Active exploration has continued at Queen Hill since that time with drill hole number 77 currently in progress.

On December 17, 1973, Exploration Licence 22/73 (St. Dizier) was granted to C.E.P.L. to be followed on April 26, 1976 by EL 13/76 (Heemskirk). Both Licences were actively explored and in late 1977 were amalgamated along with the Queen Hill Licence into one Licence area, designated EL 47/71.



(IMPERIAL GRID)

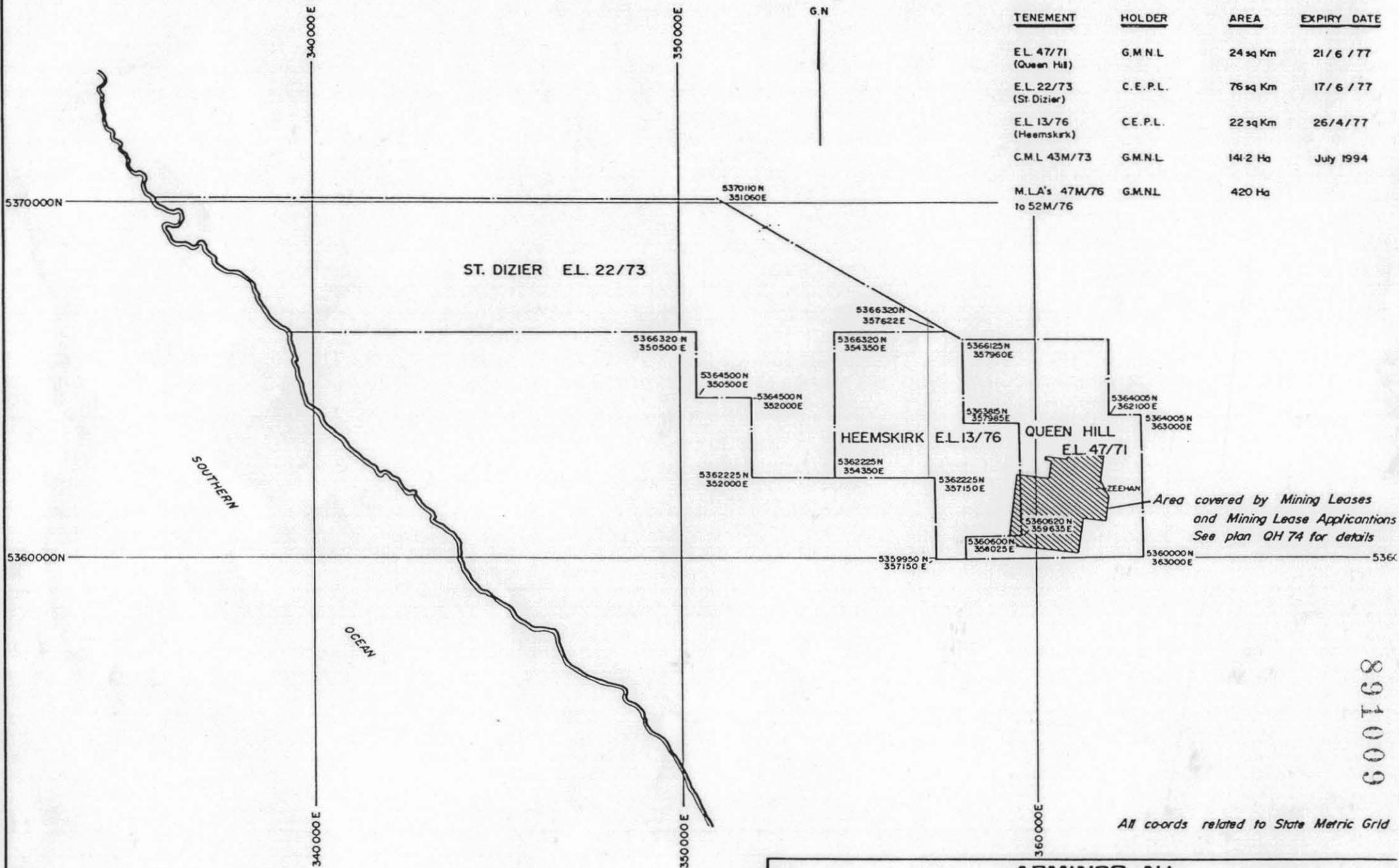


Aberfoyle Exploration Pty Ltd

Drawn:	
Traced:	JJB
Checked:	
Revised by:	Date:

NORTH WEST TASMANIA
 QUEEN HILL E.L. 47/71
 ST. DIZIER AREA
 LOCATION PLAN

Location code:	K55/5/50
Date:	Feb 1979
Scale:	as shown
Plate No:	StD 38



TENEMENT	HOLDER	AREA	EXPIRY DATE
E.L. 47/71 (Queen Hill)	G.M.N.L.	24 sq Km	21/6/77
E.L. 22/73 (St. Dizier)	C.E.P.L.	76 sq Km	17/6/77
E.L. 13/76 (Heemskirk)	C.E.P.L.	22 sq Km	26/4/77
C.M.L. 43M/73	G.M.N.L.	141.2 Ha	July 1994
M.L.A's 47M/76 to 52M/76	G.M.N.L.	420 Ha	

All co-ords related to State Metric Grid

891009

ABMINCO N.L.		Location code
Drawn: RKY	ST. DIZIER - QUEEN HILL AREA Location of Tenements	Scale 1:100,000
Traced:		Date January 1977
Checked:		Pl'te N°. QH 75
Revised	Date	

Since amalgamation Exploration Licence 47/71 has been subject to active detailed exploration culminating with the present drill target definition programmes at Donnellys, St. Dizier, Central and 'Big H' Prospects.

REVIEW OF PREVIOUS EXPLORATION

Exploration on E.L. 22/73 (St. Dizier)

Exploration Licence 22/73 (St. Dizier) of 76 sq. km was granted to C.E.P.L. (Aberfoyle) in December 1973, surrounding the Laffers St. Dizier ML's 13M/59, 6M/62, 17M/62. With the acquisition of this ground C.E.P.L. proposed to extend their exploration activities, previously focused on the Queen Hill area under a joint venture agreement with Gippsland Minerals N.L., into the contact regions of the Heemskirk Granite with particular emphasis on the St. Dizier skarn.

The initial summer exploration programme of 1973-74 completed on EL 22/73 at St. Dizier consisted of geological mapping, geochemistry, and geophysics. This was followed by diamond drilling and trenching, based on a regional grid and on a detailed grid over the known skarn mineralisation.

During the six months to December 1974 eight diamond drill holes for 540 metres were completed. The option on the Laffers St. Dizier ML's was not exercised because at that time, with the technology of the day, it was considered that the St. Dizier body was not economic. However, this action does not reflect the present status of the St. Dizier area - particularly with regard to recent advances made by Aberfoyle/C.S.I.R.O. with the Matte Fuming process for the recovery of fine grained, oxide and silicate tin.

In April 1975 an airborne EM and magnetic survey was flown over parts of Exploration Licence 22/73 with the aim of tracing the extent of the known magnetic skarn and locating any other skarn occurrences. Anomalies located during this survey formed the basis for subsequent ground follow-up (Plates X-St. D. 38 & 39).

Exploration on E.L. 22/73 (St. Dizier) .. cont.

During the 1976 and 1977 field seasons a 100 metre spaced detailed grid was established from St. Dizier to east of the 'Big H' prospect and the area was explored by geological mapping and a detailed ground magnetic survey. The results showed a continuous magnetic trend from St. Dizier to 'Big H'. During this period Exploration Licence 13/76 (Heemskirk) of 22 sq. km (Plate QH75) was approved on April 26, 1976 thus securing the ground between EL 22/73 (St. Dizier) and E.L. 47/71 (Queen Hill) for exploration.

On August 25, 1977 agreement was reached between Gippsland Minerals N.L. and Abminco N.L. (Aberfoyle) on the terms for further joint venture work on the Queen Hill, St. Dizier and Heemskirk properties (EL's 47/71, 22/73, 13/76 respectively). This was shortly followed by amalgamation of the three licences.

Exploration since amalgamation of E.L. 47/71

On November 17, 1977 Exploration Licences 47/71, 22/73 and 13/76 were amalgamated into one Licence, E.L. 47/71. Thus commencing with the quarterly report ended March 31, 1978, all exploration carried out on the joint venture was reported in one document.

In early 1978 geological mapping at 1:10,000 was commenced in the eastern part of the Licence (Plates QH 87a, 87b) to provide control for interpretation of the airborne magnetic survey covering the original 'Queen Hill' and 'Heemskirk' Exploration Licences flown in December 1977. Coverage at this stage was concentrated on the strike extensions of Queen Hill and Severn stratigraphy. The aim of this survey was to locate magnetic anomalies which may be due to pyrrhotite with associated cassiterite mineralisation. Anomalies located by the airborne survey were designated Tramway, Manganese Hill, Big One, Junction, Silver Stream (Plates QH 90a, 90b) and were all followed-up by detailed mapping and ground magnetics. One diamond drill hole for 197.6 metres was drilled to test the Tramway magnetic anomaly while three percussion drill holes were completed to investigate the Manganese Hill anomaly.

Exploration since amalgamation of E.L. 47/71 .. cont.

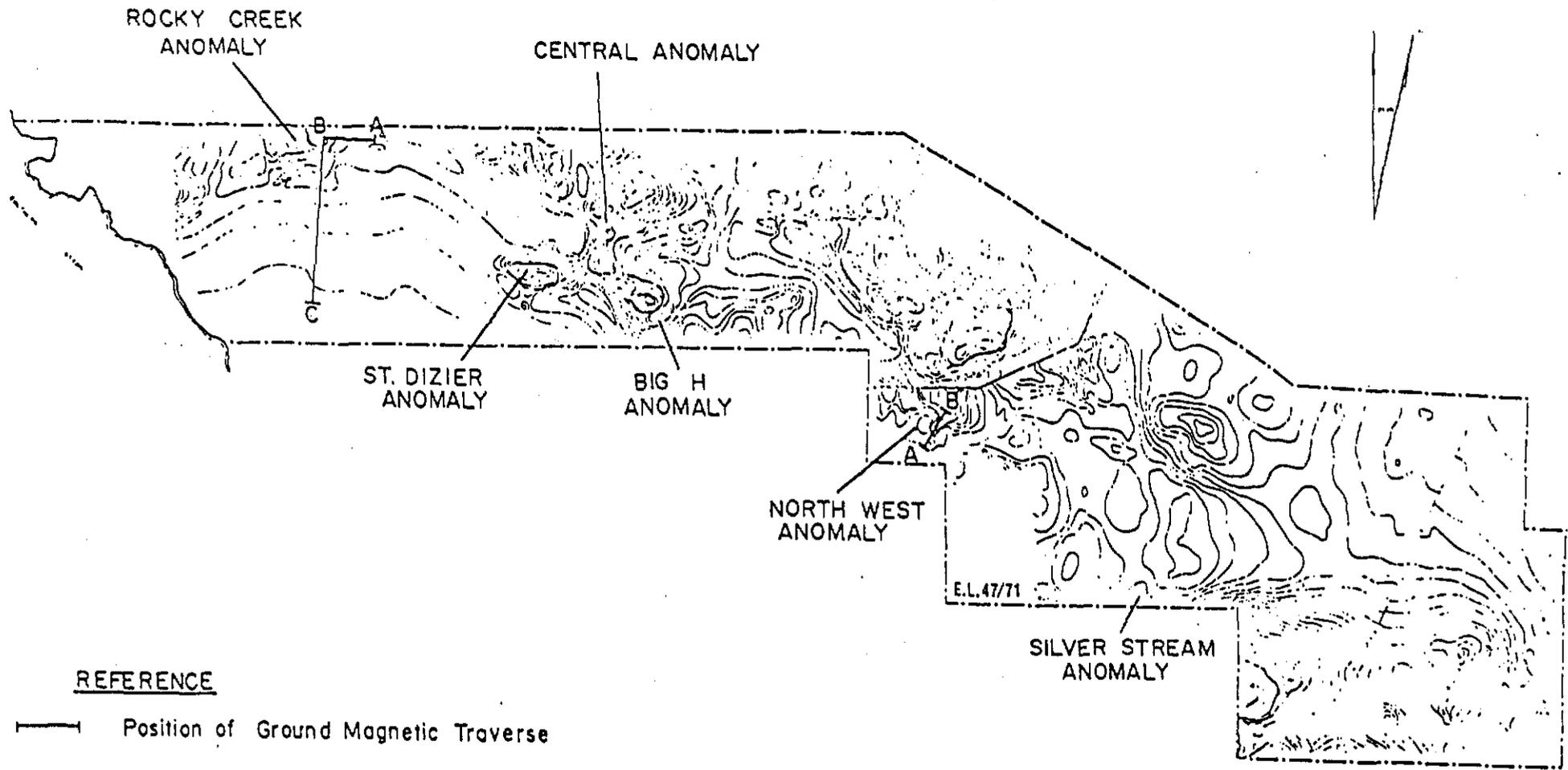
A regional stream sediment sampling programme was commenced in the second half of 1978 designed to assess approximately 48 square kilometres of prospective catchment area. The -80 mesh fraction of the sediments was analysed for Sn, W, Cu, Pb, Zn, Ag. Results from this survey which relates more to the Queen Hill area than the St. Dizier area are tabulated in the progress report for the Queen Hill joint venture, EL 47/71, quarter to December 31, 1978 by C.H. Young and R.V. Sale.

During 1979 the regional stream sediment sampling programme was extended to assess the prospecting catchment of the Heemskirk Granite, which includes the St. Dizier area. Assay data for the elements Sn, W, Cu, Pb, Zn is plotted on 1:10,000 scale plans attached (Plates QH 146, series). Regional geological mapping of the north western part of the Licence and the St. Dizier area at 1:10,000 scale was completed and is shown on the attached plans (Plates Nos. ST.D. 42/339/365; ST.D. 42/347/365; ST.D. 42/331/365).

During the first quarter of 1980 an orientation DIGHEM survey was flown at Queen Hill and a more extensive survey was completed in the north-western part of the Licence area near the Heemskirk Granite contact and St. Dizier (Plate QH 148). The survey consisted of 40 lines totalling 161 line km with line spacing of 250m.

Anomalies located by this survey (Fig 1.) have formed the basis for subsequent follow-up in this part of the Exploration Licence. As considerably more was known about the St. Dizier - Central - 'Big H' area than the other airborne anomalies, work was concentrated on assessing the new anomalies outside the St. Dizier area.

The "North-West" anomaly occurs approximately 15 km east of the 'Big H' prospect, near the northern contact of the Heemskirk Granite. A ground magnetic traverse designed to locate the source of the anomaly was completed. Rock chip samples collected during the survey were not anomalous and no further work was carried out.



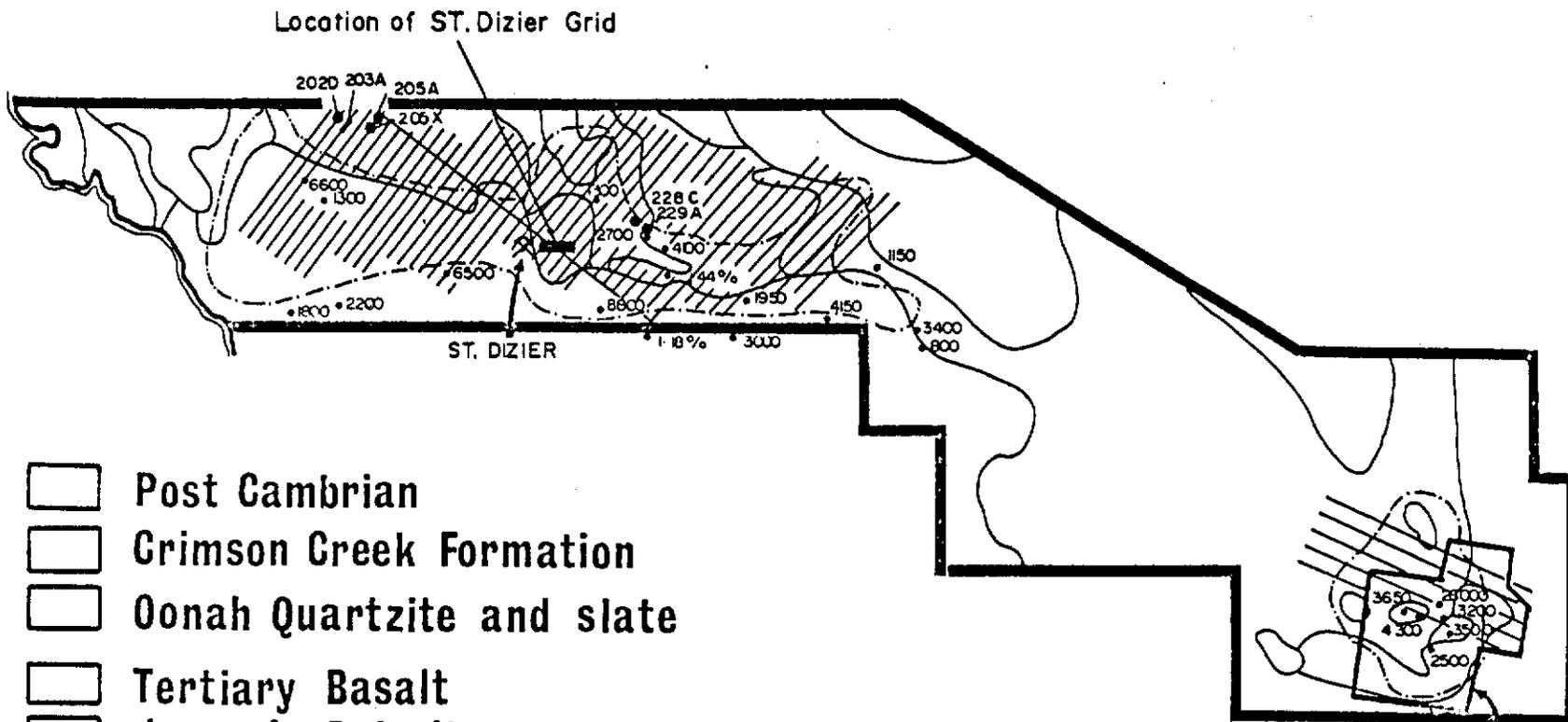
NORTH WEST TASMANIA.
 QUEEN HILL E.L. 47/71
 AEROMAGNETIC CONTOURS
 Contour interval 20 gammas

FIG. 1

891013

E.L. 47/71

QUEEN HILL Location Plan



-  Post Cambrian
-  Crimson Creek Formation
-  Oonah Quartzite and slate
-  Tertiary Basalt
-  Jurassic Dolerite
-  Devonian Granite

-  202 D Dighem Anomaly
-  Sn contour > 100 ppm
-  1800 Stream sediment anomaly
-  DIGHEM flight lines

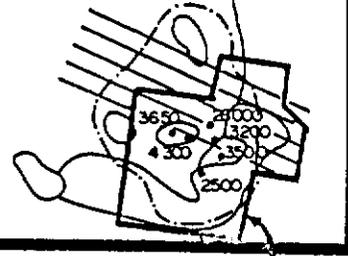
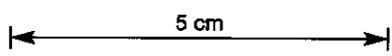


PLATE No. QH 148
Scale 1 : 125,000
Date : January, 1980

891014

Exploration since amalgamation of E.L. 47/71 .. cont.

The Silver Stream anomaly is situated approximately 1 km north of the Tenth Legion magnetite (skarn) prospect, 6.5 km west of Zeehan. Ground magnetometer traverses, detailed geological inspection and rock chip sampling downgraded the anomaly.

A DIGHEM anomaly in the 12 Mile Creek area was located on the ground and two backhoe trenches were completed to evaluate the source of the anomaly. Assay results were low but conductivity measurements on slate samples did not explain the source of the anomaly. A ground E.M. survey was conducted to define the exact location of the anomaly.

A SIROTEM survey consisting of 3 lines, 100m apart (Plate ST. Diz. 44) was completed in May 1980 by Geox Pty. Ltd. The strike length of the conductor from the SIROTEM data appears to be about 100m. The axis of the anomaly is shown to coincide with the eastern ends of the trenches. Seven bedrock geochemical samples were taken at 8m intervals by reverse circulation drilling. Only black carbonaceous slate was encountered and base metal values are low. It is concluded the source of the DIGHEM anomaly was carbonaceous slate and no further work will be conducted over this anomaly.

In the Big Rocky Creek (Donnellys) area DIGHEM anomalies 202D, 203A and 205A (X) in the vicinity of a distinct aeromagnetic anomaly (H - 400 EM/Magnetic Survey, April 1975) have been subjected to detailed follow-up. The finding of a previously undiscovered sulphide - bearing gossan assaying up to 2.6% Zn, 0.17% Pb, and 0.33% Cu has encouraged the concentration of exploration in this area to bring the prospect to the drilling stage.

At the St. Dizier - Central - 'Big H' area (Plate St. Diz. 44) the grid was re-established in 1980 and detailed work continued with a bedrock drilling programme using Geopeko's Jackro, Bombardier-mounted, reverse circulation drill rig. A total of 297 samples were taken on 23 lines at an average depth of 3.5m. Samples were collected at 20m intervals over country rock and this spacing was closed up to 10m where sulphides or obvious skarn was recognised.

Exploration since amalgamation of E.L. 47/71 .. cont.

The samples collected were generally of weathered bedrock, where surface outcrop occurred fresh rock chip samples were collected. The samples were assayed by Cleveland Tin Limited Laboratories for Sn, W0₃, Cu, Pb, Zn and As (Plates St. Diz. 43 : Sn, W0₃, Cu, Pb, Zn and As). A summary of the St. Dizier area is shown on plan (Plate St. Diz. 44) and interpreted geological sections from the drilling programme presented on Plates St. Diz. 45, Sheets 1-3.

A number of anomalies were not closed off by the initial bedrock sampling programme, due to the requirement to complete the work within a set period. Further bedrock sampling to close off anomalies is programmed to commence when a Bombardier-mounted rig is available.

EXPENDITURE TO JUNE 1981

Expenditure from January 1974 to end of 1977:

EL 22/73 including Laffer Option	..	\$100,000
Queen Hill Leases	..	\$ 41,000

Expenditure from January 1978 to December 1979:

Combined expenditure all Queen Hill areas	..	\$375,000
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Expenditure from January 1980 to June 1981:

Queen Hill ML's	..	\$696,000
Queen Hill EL 47/71	..	<u>\$ 68,000</u>
TOTAL:	..	<u><u>\$1,280,000</u></u>

Summary of Exploration to Date

The above record of exploration on EL 47/71 demonstrates that Aberfoyle Exploration Pty. Ltd. has pursued an active and thorough exploration programme since the original Licences were granted and subsequently consolidated in 1977.

This work has culminated in a number of targets; some like the St. Dizier Skarn, Central and 'Big H' anomalies have attracted detailed exploration in recent years and have reached a target definition stage where drilling is required. Others, in particular the Donnellys area, are new discoveries and warrant detailed examination to be brought to the same status of evaluation. Before diamond drilling commences all these targets should be brought to the same stage of target definition so that a drilling programme based on merit can be followed.

Potential of the St. Dizier Skarn Area

Current studies by T. Kwak of La Trobe University suggest that tin mineralisation is concentrated in a particular zone within a skarn horizon situated beyond the main concentration of magnetite. In this instance the favourable zone may be within the area proposed by the Department for excision. (Refer to location of area on the St. Dizier aeromagnetic contour plan at 1:10,000 scale; attached). Aberfoyle considers the area to be a conceptually favourable target zone.

PROPOSED PROGRAMME FOR EXPLORATION LICENCE 47/71

An exploration programme for Exploration Licence 47/71 has been formulated and a budget of \$28,700 allocated for the period July 20th to November 11th, 1981. Emphasis will now be placed on the Donnellys area where a detailed grid is currently being cut and pegged to cover the area of DIGHEM anomalies (Plate St. Diz. 42/339/365) where a coincident aeromagnetic anomaly exists and a gossan has been discovered.

Once established the grid will be geologically mapped at 1:2500 scale, geochemically sampled at 10m intervals and traversed by a detailed ground magnetometer survey. Magnetic anomalies will be further investigated by ground EM using the Max-Min II system and by I.P. Dependent on results from this programme of target definition, sites will be selected for diamond drilling during the summer field season.

PROPOSED PROGRAMME FOR THE EXCISION AREA

The area of proposed excision is shown on Plate St. Diz. 44, together with details of exploration conducted in the St. Dizier to "Big H" prospect region. Although it is an attractive target for reasons stated above, we aim to bring recently discovered areas of mineralisation at Donnellys to the same stage of evaluation. Once this is complete, drilling will be proposed. We believe that adherence to these normal exploration principles is better than restructuring the programme and budget in response to challenges to tenure.

A programme is under consideration which could result in at least 150 metres of diamond drilling being allocated to the area of proposed excision. Prior to diamond drilling, the existing bedrock drilling coverage will be extended to close off and further define anomalies located during the 1980 bedrock sampling programme. A total of some 75 holes of reverse circulation drilling is envisaged with an average depth around 5 metres. With the necessary geological supervision, logging of drill cuttings and geochemical analysis for Sn, W₀3, Cu, Pb, Zn and As.

CONCLUSION AND OBJECTION TO THE PROPOSED EXCISION

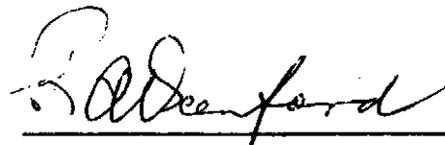
It is the understanding of Aberfoyle Exploration Pty. Ltd. that there is precedent for Mineral Leases to be extended at the discretion of the Minister of Mines to allow a Miner to follow a lode. This philosophy is fully supported and is particularly relevant should one party have failed to carry out, and does not contemplate continuing an exploration programme.

In the St. Dizier area where excision is contemplated we submit that neither of these situations arise. A uniform skarn horizon may occur but there is the possibility that a tin-rich zone separate from the existing leases may occur in the Aberfoyle ground.

Aberfoyle has conducted detailed exploration particularly in the St. Dizier - Central - 'Big H' zone, and plan further work in the area. Although the St. Dizier skarn is an attractive target and warrants drilling, it was postponed until the recently discovered mineralisation at Donnelly's has been brought to the same stage of evaluation. When target definition at Donnelly's is complete, the drilling of this target and the St. Dizier skarn targets is proposed. Expenditure for 1982 is likely to exceed \$75,000.

Aberfoyle Exploration Pty. Ltd. objects to the proposed excision of ground from the St. Dizier skarn horizon (as shown Plate St. Diz. 44).

Compiled:

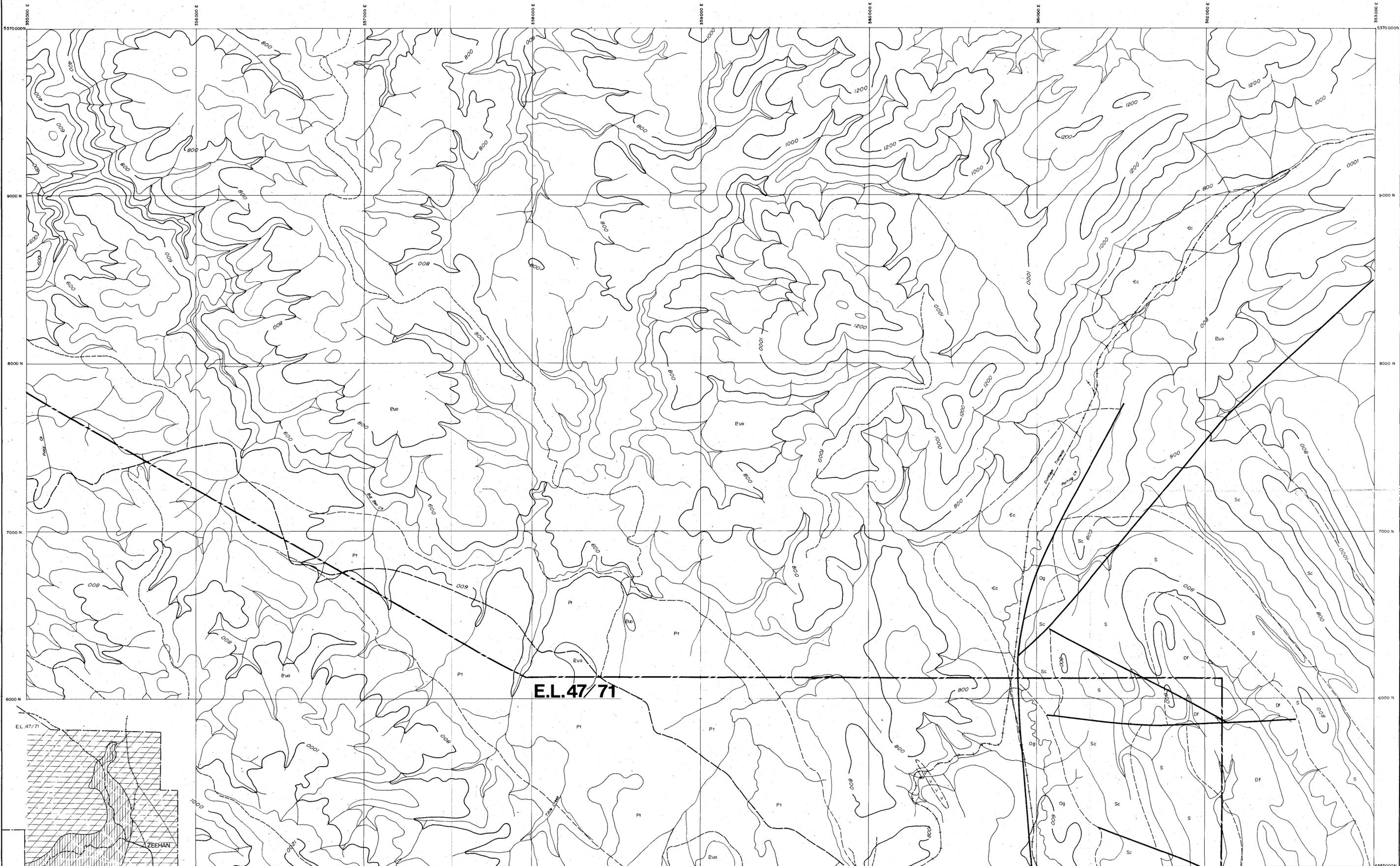


R. A. OXENFORD
EXPLORATION SERVICES SUPERINTENDENT

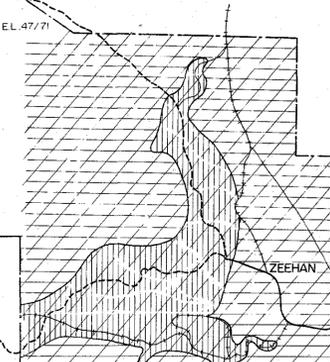
Approved:



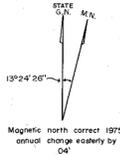
C. H. YOUNG
DISTRICT MANAGER



E.L.47/71



- 1:10000 mapping & compilation from previous C.E.P.L. work
- Compilation of work by Waller 1903, Twelvetrees & Ward 1910, Blissett 1962
- Aerial photograph interpretation and reconnaissance traverse

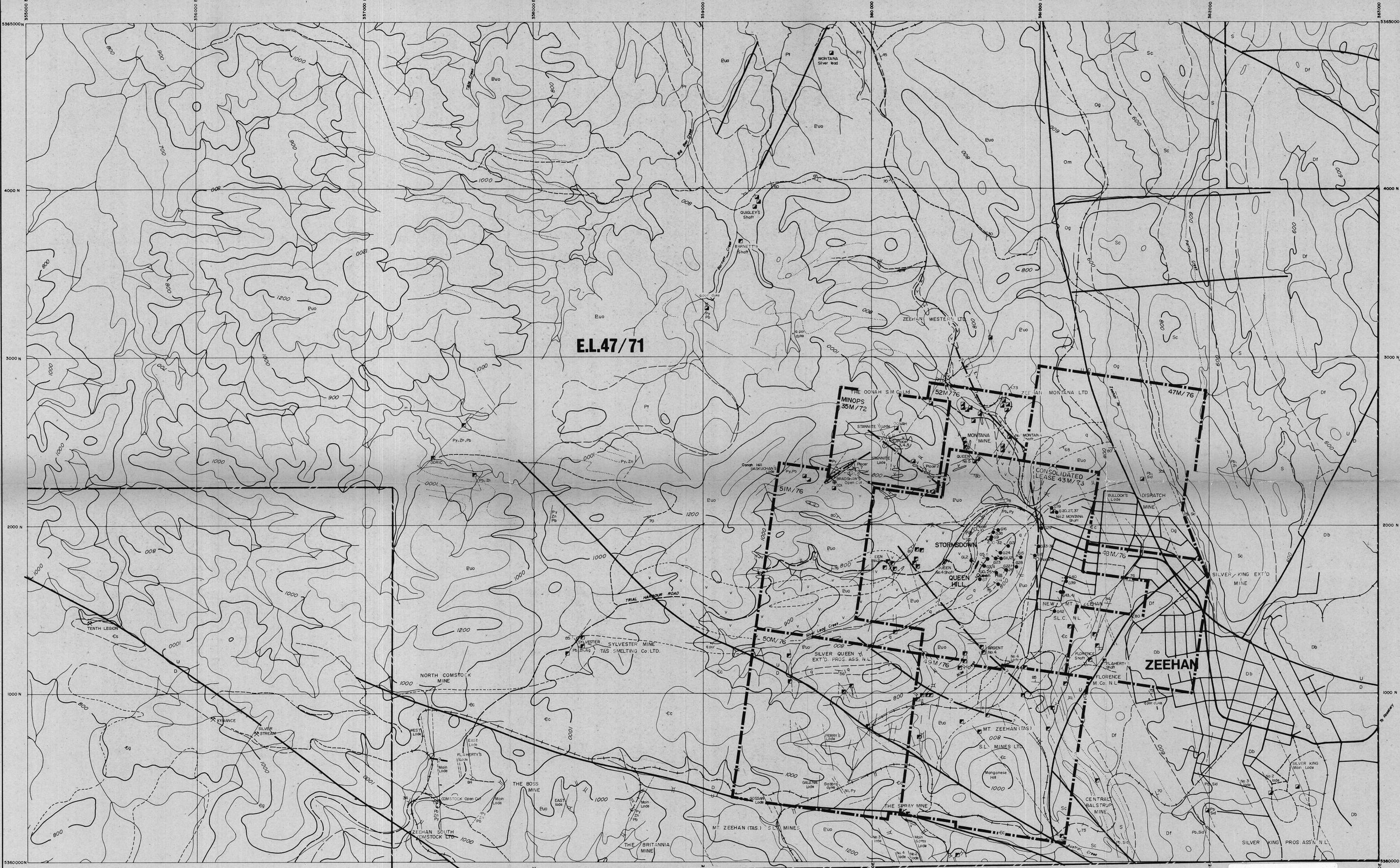


Contour interval 100 feet
 For Geological Legend
 See Plate QHBB

347/370	355/370	363/370
347/365	355/365	363/365
347/360	355/360	363/360

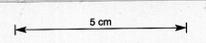
5 cm

Abminco Exploration		891020
NORTH WEST TASMANIA QUEEN HILL, E.L. 47/71		Location code: K55/5/50
Geology: A E		Date: Feb 1978
Drawn: A E		Scale: 1:10,000
Traced: JUB RJE		Plate No: QH87a
Checked:		
Revised by: Date:		
61-1597		



E.L.47/71

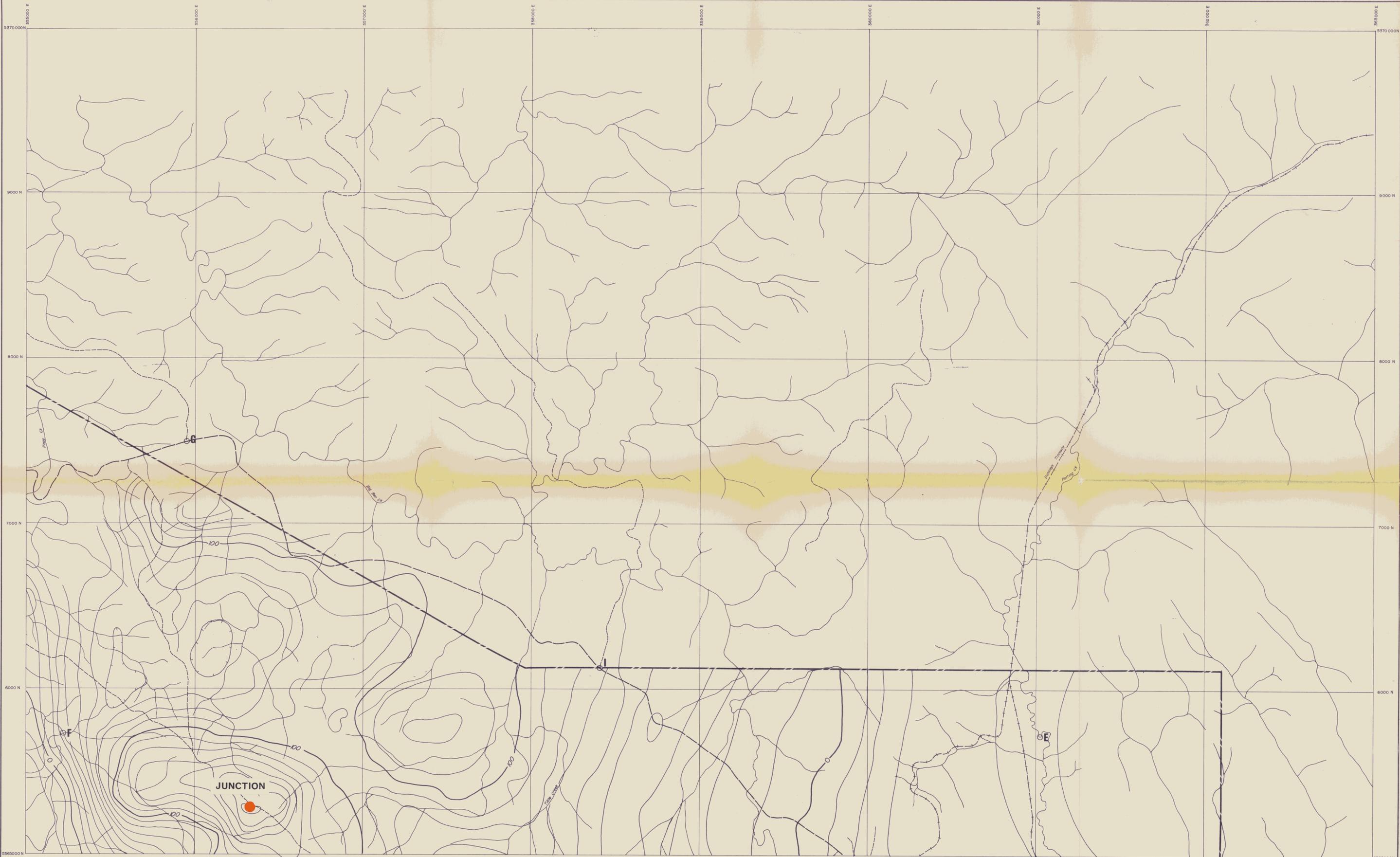
ZEEHAN



STATE G.N. M.N.
 Contour interval 100 feet
 For Geological Legend
 See Plate QH88
 Magnetic north correct 1975
 annual change easterly by
 04'

347/370	355/370	363/370
347/365	355/365	363/365
347/360	355/360	363/360

		891021	
		81-1597	
NORTH WEST TASMANIA QUEEN HILL, E.L. 47/71		Location code: K55/5/50	Date: Feb 1978
GEOLOGICAL COMPILATION MAP		Scale: 1:10,000	Plate No: QH87b
Geology: A.E.			
Drawn: A.E.			
Traced: R.K.Y. R.J.E.			
Checked:			
Revised by:	Date:		



356000 E 357000 E 358000 E 359000 E 360000 E 361000 E 362000 E 363000 E 364000 E 365000 E
 537000 N 9000 N 8000 N 7000 N 6000 N 536000 N

STATE C.N. M.N.
 13° 24' 26"
 Magnetic north differs 167° annual change western by 04

347/370	355/370	363/370
347/365	355/365	363/365
347/360	355/360	363/360

Main Road
 Minor Road or track
 Railway
 River or creek

● AEROMAGNETIC ANOMALY

Contour interval 10 gammas
 OE Reference point for flight paths

Flown by Geox Pty Ltd., December, 1977
 Line Spacing = 150 metres
 Altitude flown = 60 metres
 Readings taken every 0.8 Secs
 Instrument used was a Geometrics G803 proton precession magnetometer

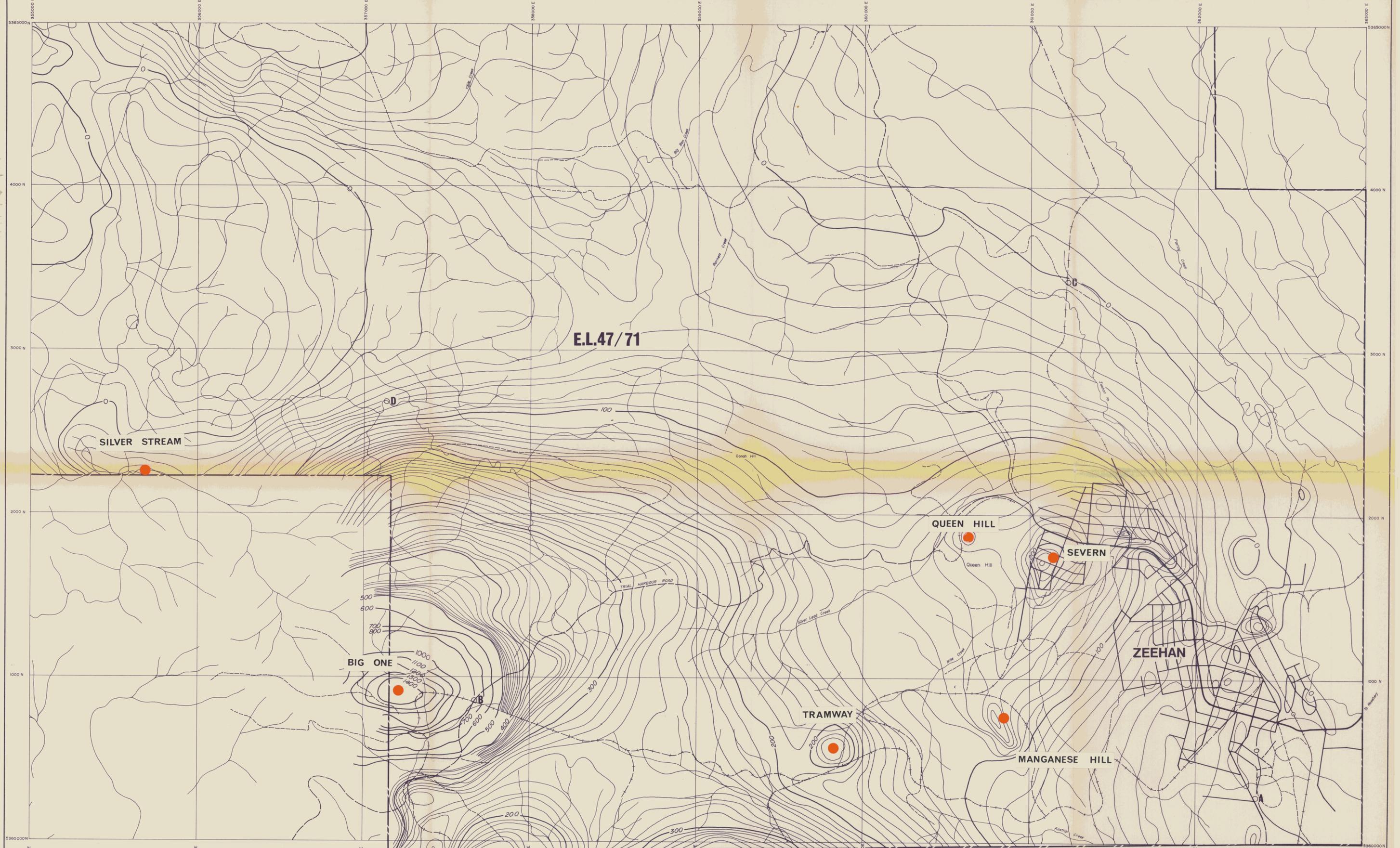
891022



Abminco Exploration 81-1591

NORTH WEST TASMANIA
 QUEEN HILL E.L. 47/71
 AEROMAGNETIC CONTOURS

Geology:		Location code: K55/5/50
Drawn: SS W		Date: March, 1978
Traced: R J E		Scale: 1:10,000
Checked:		Plate No
Revised by: Date:		QH90a



E.L.47/71

SILVER STREAM

QUEEN HILL

SEVERN

ZEEHAN

TRAMWAY

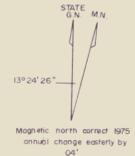
MANGANESE HILL

BIG ONE

891023

5 cm

- Main Road
- Minor Road or track
- Railway
- River or creek



347/365	355/365	363/365
347/361	355/360	363/360
347/357	355/355	363/355

AEROMAGNETIC ANOMALY

Contour interval 10 gammas

OD Reference point for flight paths

Flown by Geox Pty. Ltd., December, 1977
 Line Spacing = 150 metres
 Altitude flown = 60 metres
 Readings taken every 0.8 Secs.
 Instrument used was a Geometrics G803 proton precession magnetometer

Abminco Exploration		81-1597
NORTH WEST TASMANIA		
QUEEN HILL E.L. 47/71		
AEROMAGNETIC CONTOURS		
Geology:		Location code: K55/5/50
Drawn: S.S.W.		Date: March, 1978
Traced: R.J.E.		Scale: 1 : 10,000
Checked:		Plate No
Revised by: Date:		QH 90 b



E.L. 47/71

Sample location and number, Sn, W, Cu, Pb, Zn (Mo, As) in p.p.m.

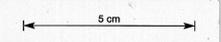
Base sheet enlarged from
1:31,680 Tasmanian Lands
Dept. Topo.



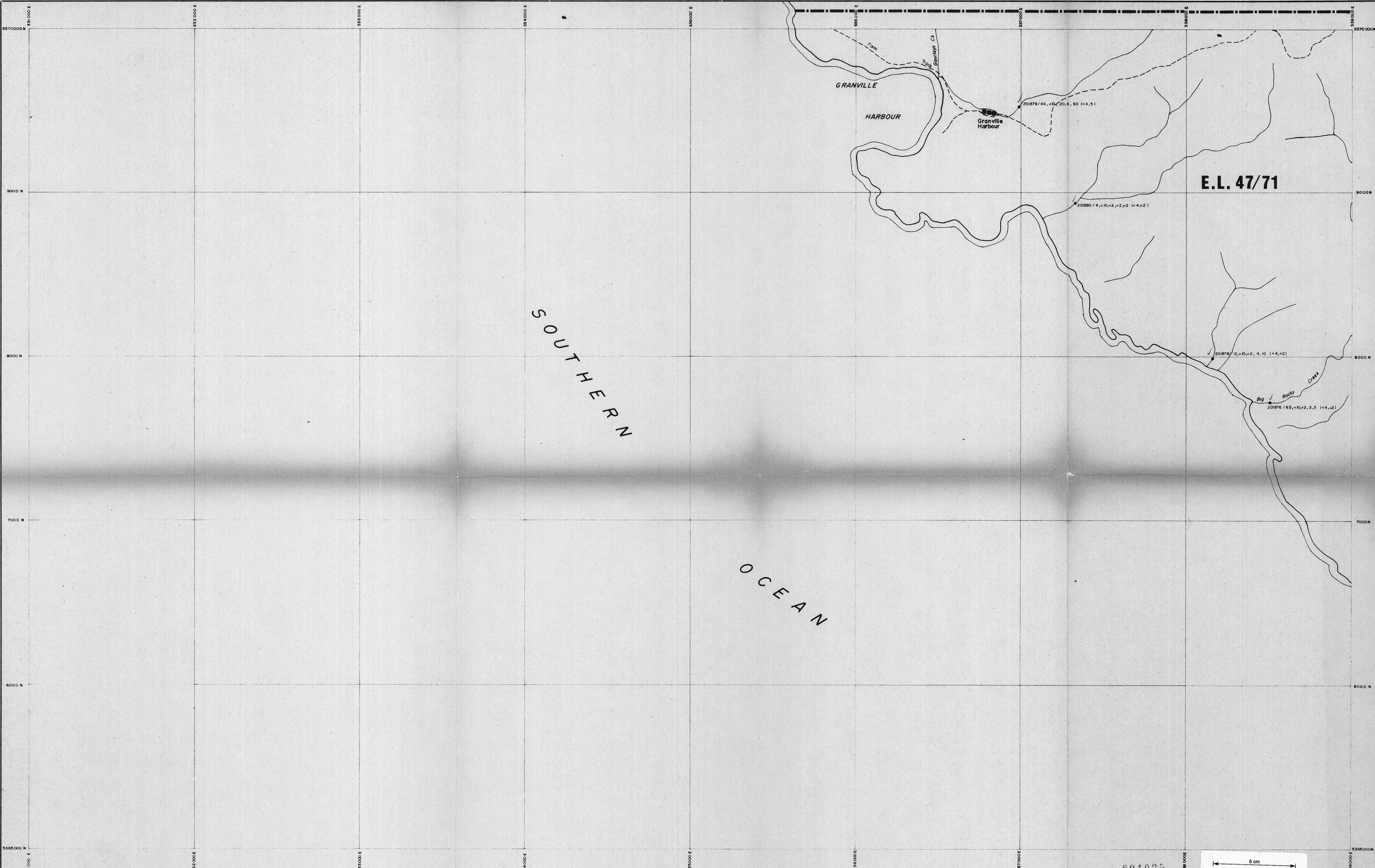
339/370	347/370	355/370
339/365	347/365	355/365
339/360	347/360	355/360

Index to adjoining sheets

891024

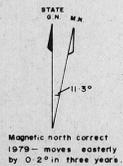


Aberfoyle Exploration		81-1597
NORTH WEST TASMANIA ZEEHAN AREA QUEEN HILL E.L. 47/71 STREAM SEDIMENT SAMPLING LOCATIONS & ASSAY RESULTS		Location code
Geology		Date: OCT. 1979
Drawn	R. J. E.	Scale: 1:10 000
Traced	LED	Plate No.
Checked		QH146-347/365
Revised by	Date	



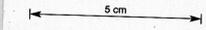
Sample location and number, Sn, W, Cu, Pb, Zn (Mo, As) in p.p.m.

Base sheet enlarged from
1:31,580 Tasmanian Lands
Dept. Topo.

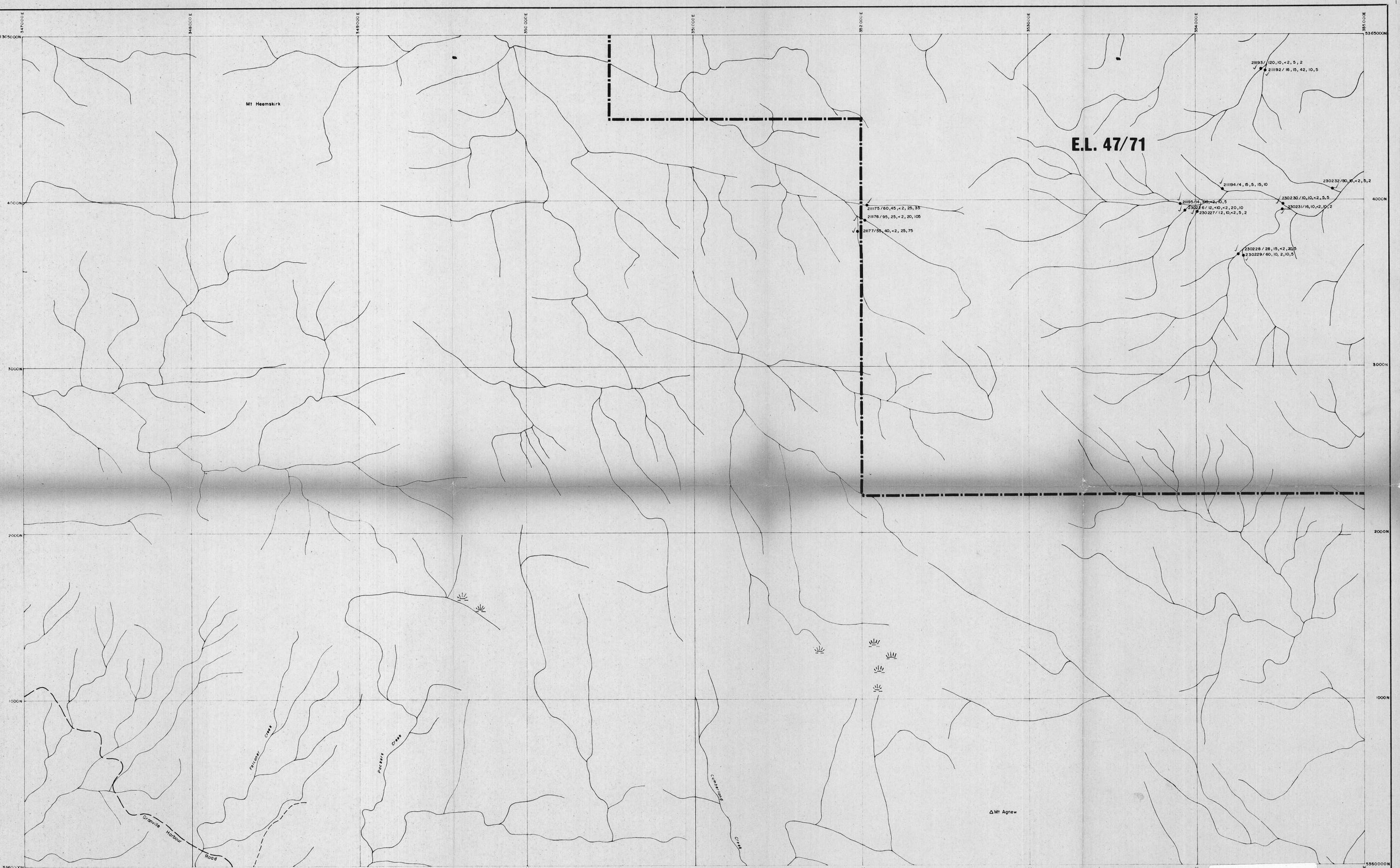


323/370	331/370	339/370
323/365	331/365	339/365
323/360	331/360	339/360

891025



Aberfoyle Exploration		81-1597
NORTH WEST TASMANIA ZEEHAN AREA QUEEN HILL E.L. 47/71 STREAM SEDIMENT SAMPLING LOCATIONS & ASSAY RESULTS		
Geology		Location code
Drawn R.J.E.		Date OCT. 1979
Traced L.E.D.		Scale: 1:10,000
Checked		Plate No
Revised by: Date		QH 146-331/365



E.L. 47/71

Sample location and number, Sn, W, Cu, Pb, Zn (Mo, As) in p.p.m.

Base sheet enlarged from
1:31,680 Tasmanian Lands
Dept. Topo

STATE
O.N.
M.A.
11.3°
Magnetic north correct
1979 - Moves easterly
by 0.2" in three years

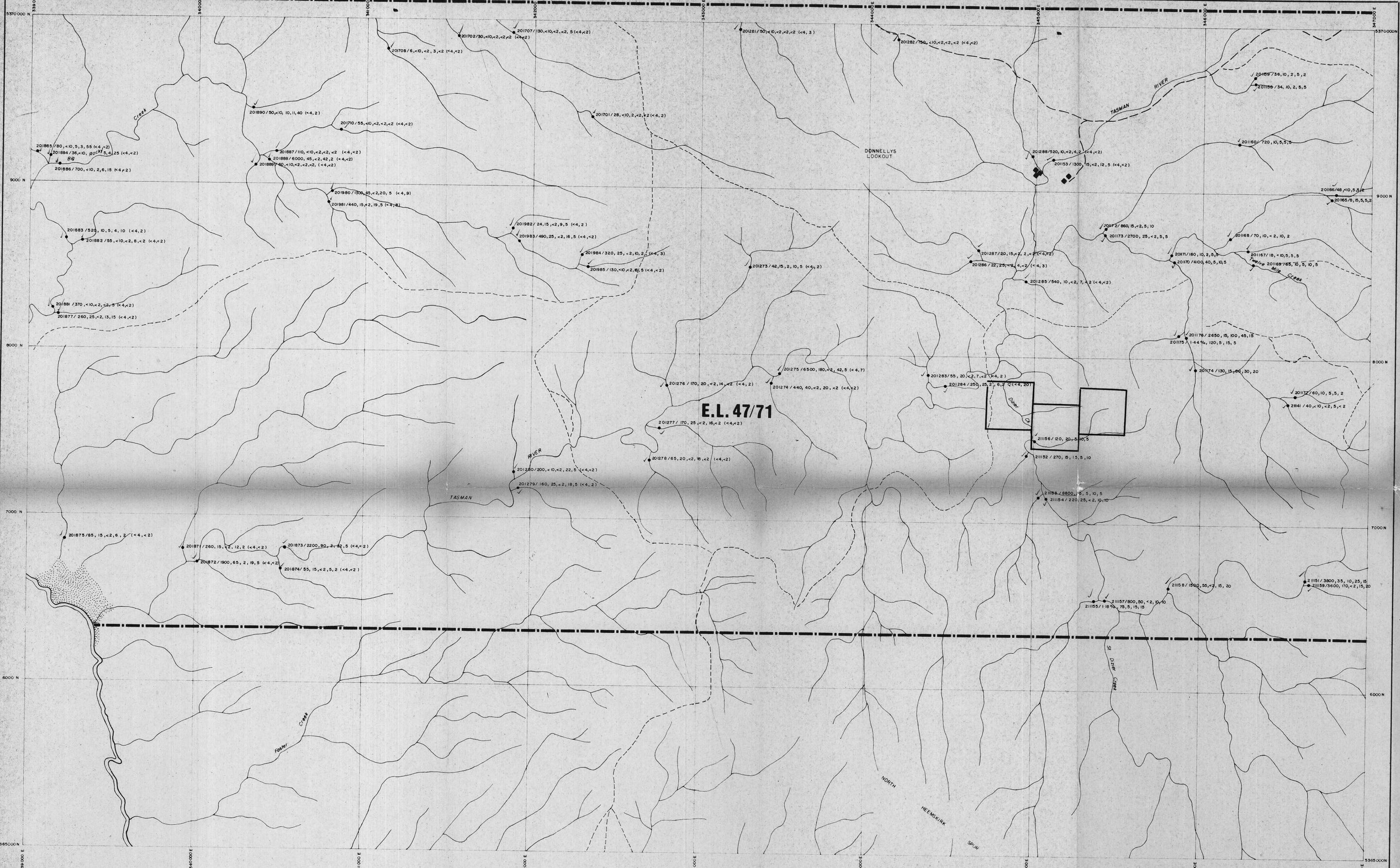
339/365	347/365	355/360
339/360	347/360	355/360
339/355	347/355	355/355

Index to adjoining sheets

891026

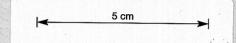
5 cm

A Aberfoyle Exploration		81-1597
NORTH WEST TASMANIA ZEEHAN AREA QUEEN HILL E.L. 47/71 STREAM SEDIMENT SAMPLING LOCATIONS & ASSAY RESULTS		
Geology		Location code
Drawn R. J. E.		Date OCT 1979
Traced LED		Scale 1 : 10 000
Checked		Plate No
Revised by	Date	QH 146-347/360



Base sheet enlarged from 1:31,680 Tasmanian Lands Dept. Topo.

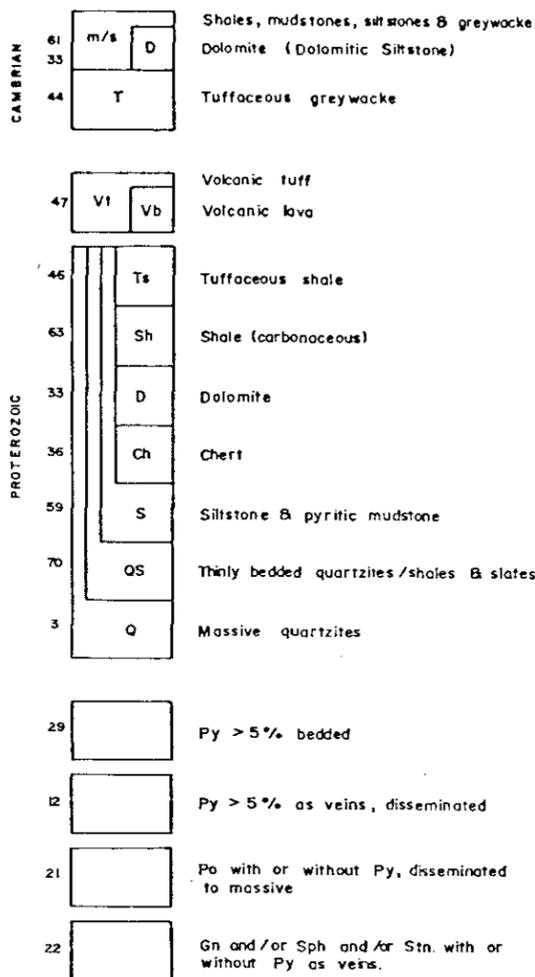
Sample location and number, Sn, W, Cu, Pb, Zn (Mo, As) in p.p.m.



331/370	339/370	347/370
331/365	339/365	347/365
331/360	339/360	347/360

891027 Aberfoyle Exploration		81-1591
Geology	NORTH WEST TASMANIA	Location code
Drawn R.J.E.	ZEEHAN AREA	Date OCT. 1979
Traced L.E.D.	QUEEN HILL E.L. 47/71	Scale: 1:10 000
Checked	STREAM SEDIMENT SAMPLING	Plate No
Revised by Date	LOCATIONS & ASSAY RESULTS	QH146-339/365

QUEEN HILL DRILL HOLE REFERENCE



ABBREVIATIONS

Carbon rich, locally carbonaceous	(carbon)
Sericite rich, locally sericitic	ser (ser)
Chlorite rich, locally chloritic	chlor (chlor)
Carbonate rich, locally carbonated	carb (carb)
Silicified, locally silicified	silic (silic)
Vesicular, amygdaloidal	vesic
Probable original character	siliceous

Bedding	
Cleavage, foliation	
Fault, unmeasured orientation	
Fault, measured orientation	
Fault Zone, unmeasured orientation	
Fault Zone, measured orientation	
Recrystallisation	
Sedimentary breccia	

SULPHIDE CONTACT

Py 5 (50)	Pyrite 5%, locally 50%
Py 5-10	Pyrite 5-10%
Gn 2	Galena 2%
Sph 5	Sphalerite 5%
Cpy 15	Chalcopyrite 15%
Ba 5	Barite 5%
q vein	quartz vein
c vein	carbonate vein
si vein	Siderite vein

Petrological Sample 230453

ROCK TYPES illustrated by code and colour on left side of drill hole plots

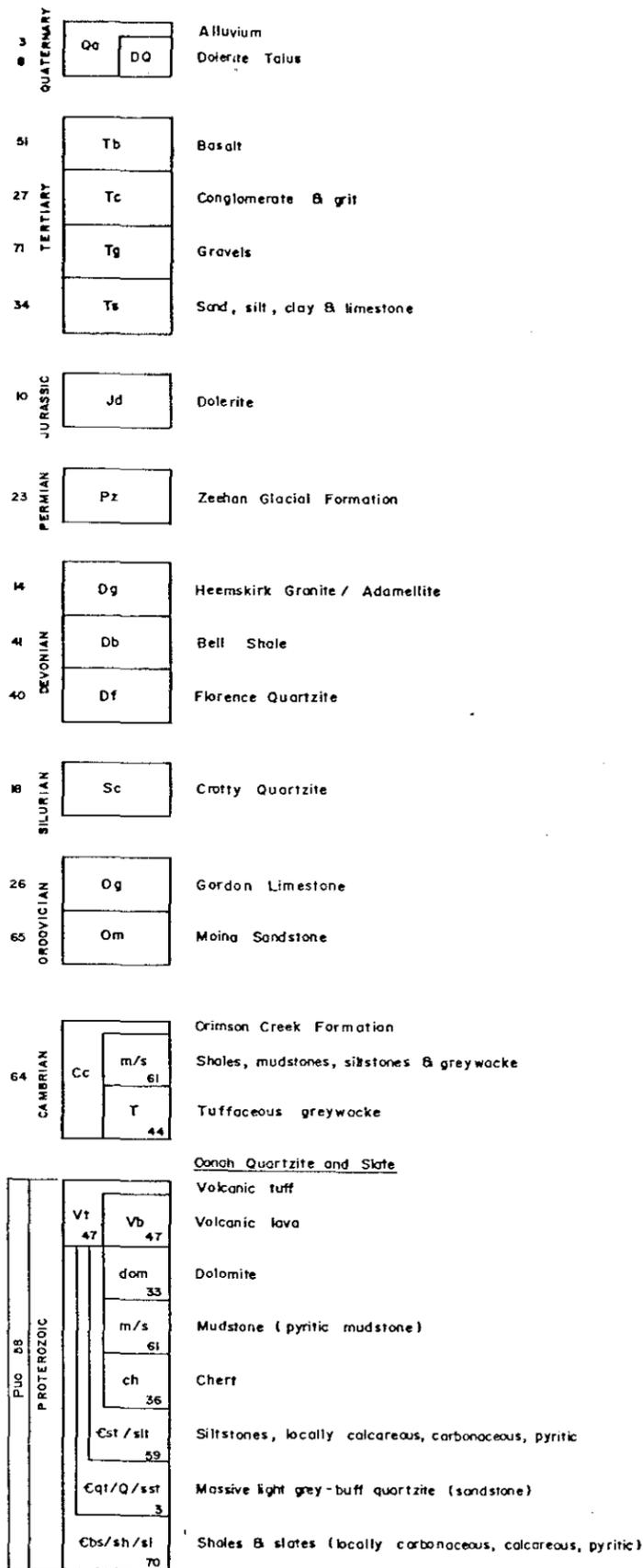
Contact shown thus

Internal variations shown

Drill hole trace

Drill hole trace

QUEEN HILL LICENCE REFERENCE



GENERAL ABBREVIATIONS

MINERAL

Py	-	Pyrite
Cpy	-	Chalcopyrite
Sph	-	Sphalerite
Gn	-	Galena
Po	-	Pyrrhotite
Si	-	Siderite
Mag	-	Magnetite
Ma	-	Marcasite
Ar	-	Arsenopyrite
Stn	-	Stannite
musc	-	muscovite
graph	-	graphite
lim	-	limonite
hem	-	hematite
tm	-	tourmaline
Kspar	-	K feldspar
fd	-	feldspar
bi	-	biotite
plag	-	plagioclase
serp	-	serpentine
chi	-	chiastolite
calc	-	calcareous
q	-	quartz
cord	-	cordierite
chlor	-	chlorite
trem	-	tremolite
dio	-	diopside
pyrox	-	pyroxene
carb	-	carbonate
dam	-	damonite
Fl	-	fluorite
Am	-	amphibole

TEXTURE

xeno	-	xenocrysts
mic	-	micaceous
sacch	-	saccharoidal
tuff	-	tuffaceous
homog	-	homogenous
porph	-	porphyry
phen	-	phenocrysts
brec	-	breccia
rx	-	recrystallised
dissem	-	disseminated
interb	-	interbedded
nod	-	nodules
frog	-	fragments
alt	-	altered
lam	-	laminated
abund	-	abundant
weath	-	weathered
undiff	-	undifferentiated
fg	-	fine grained
mg	-	medium grained
cg	-	coarse grained
st	-	staining

STRUCTURE

fol	-	foliation / foliated
ax.pl.	-	axial plane
cr.cl.	-	crenulated cleavage
vert	-	vertical
f.a.	-	fold axis
80-->63°M	-	dip/dip direction magnetic

ROCK TYPES

Sediments

sst	-	sandstone
qtz	-	quartzite
sh	-	shale
sl	-	slate
slt	-	siltstone
a	-	argillite
ch	-	chert
lst	-	limestone
dom	-	dolomite
gw	-	greywacke
cong	-	conglomerate
ms	-	mudstone

Igneous

Vt	-	tuff
Vb	-	lavas
Va	-	agglomerate
um/ub	-	rocks of ultrabasic affinity
dol	-	dolerite
A	-	adamellite
G	-	granite
serp	-	serpentine

Folding

Fo ¹	-	F1 fold deforming bedding plane
Fo ²	-	F2 fold deforming bedding plane

Deformation history

S ₀	-	bedding
S ₁	-	first deformation
S ₂	-	second deformation

Ligneations

L ₁	-	lineation produced by S ₁
L ₂	-	lineation produced by S ₂

GENERAL SYMBOLS

0-2		Outcrop boundary
		Float
0-4		Contact known
		Contact interpreted
		Contact inferred
		Fault definite (known dip)
		Fault inferred
		Bedding strike & dip
		Schistosity with dip
		Joint with dip
		Minor folding showing plunge & trend
		Fold axis showing plunge & trend
DDH		Diamond drill hole, with projected trace of hole (collar location accurate)
DDH		Diamond drill hole, with projected trace of hole (collar location not accurate)
PD		Percussion drill hole
		Shaft
		Trig station
		Lease corner peg
		Building
		Costean or trench
		Pit
		Dump
		Scarp, cliff or breakaway
		River or creek
		Railway or tram track
		Adit
		Topographical contours & interval
		Cleared area
		Swamp
		Alluvial deposits
		Track
		Road (unsealed)
		Highway (sealed)
		Licence boundary & number
		Dam on stream
		Thin section
		Mine

891028 81-1597



Aberfoyle Exploration Pty Ltd

Geology: C.H.Y., R.M.J.

Drawn: R.J.E.

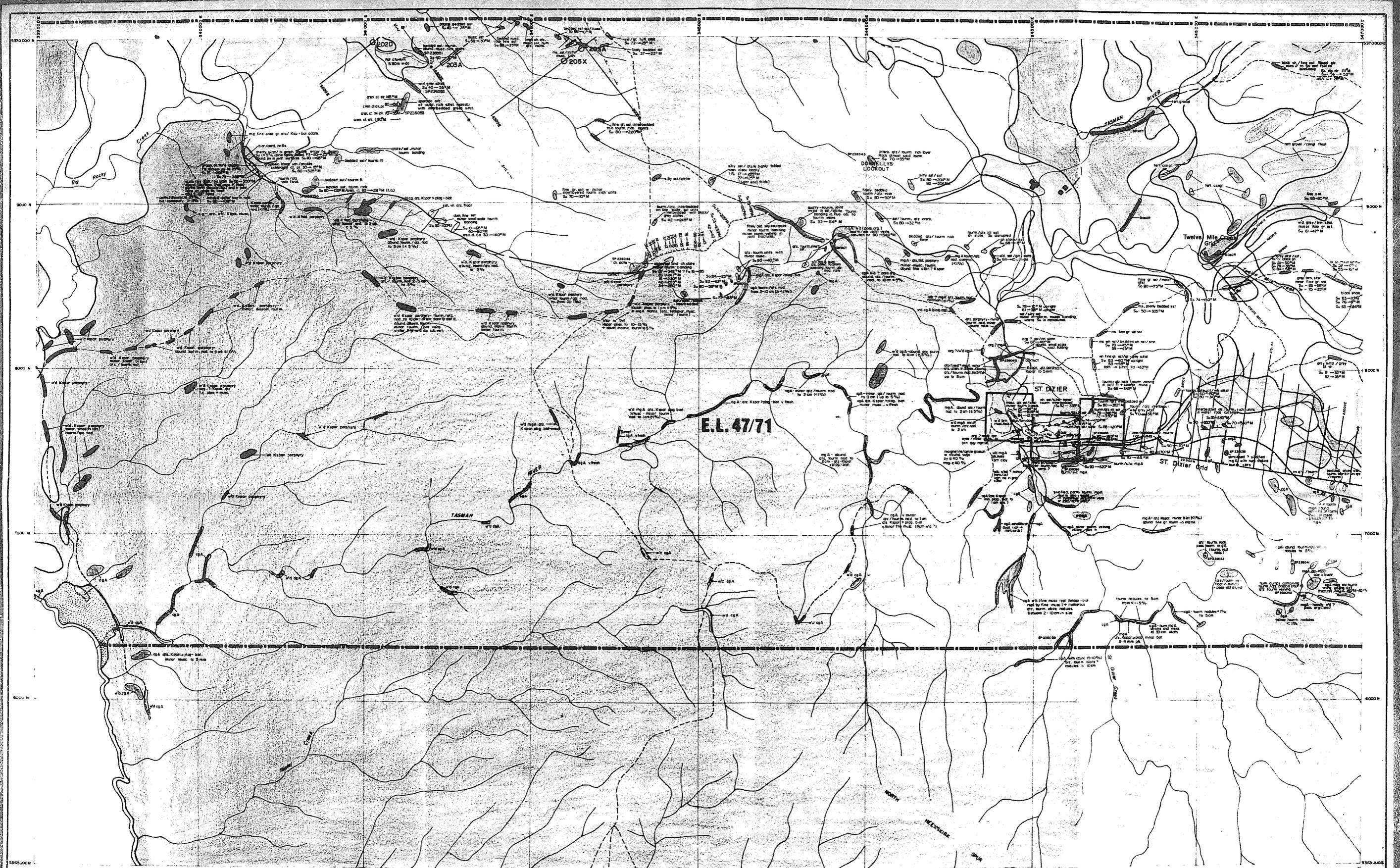
Traced:

QUEEN HILL
GEOLOGICAL LEGEND
Surface Geology & Cross Sections

Date: AUGUST, 1980

Scale:

Plate No: QH 138



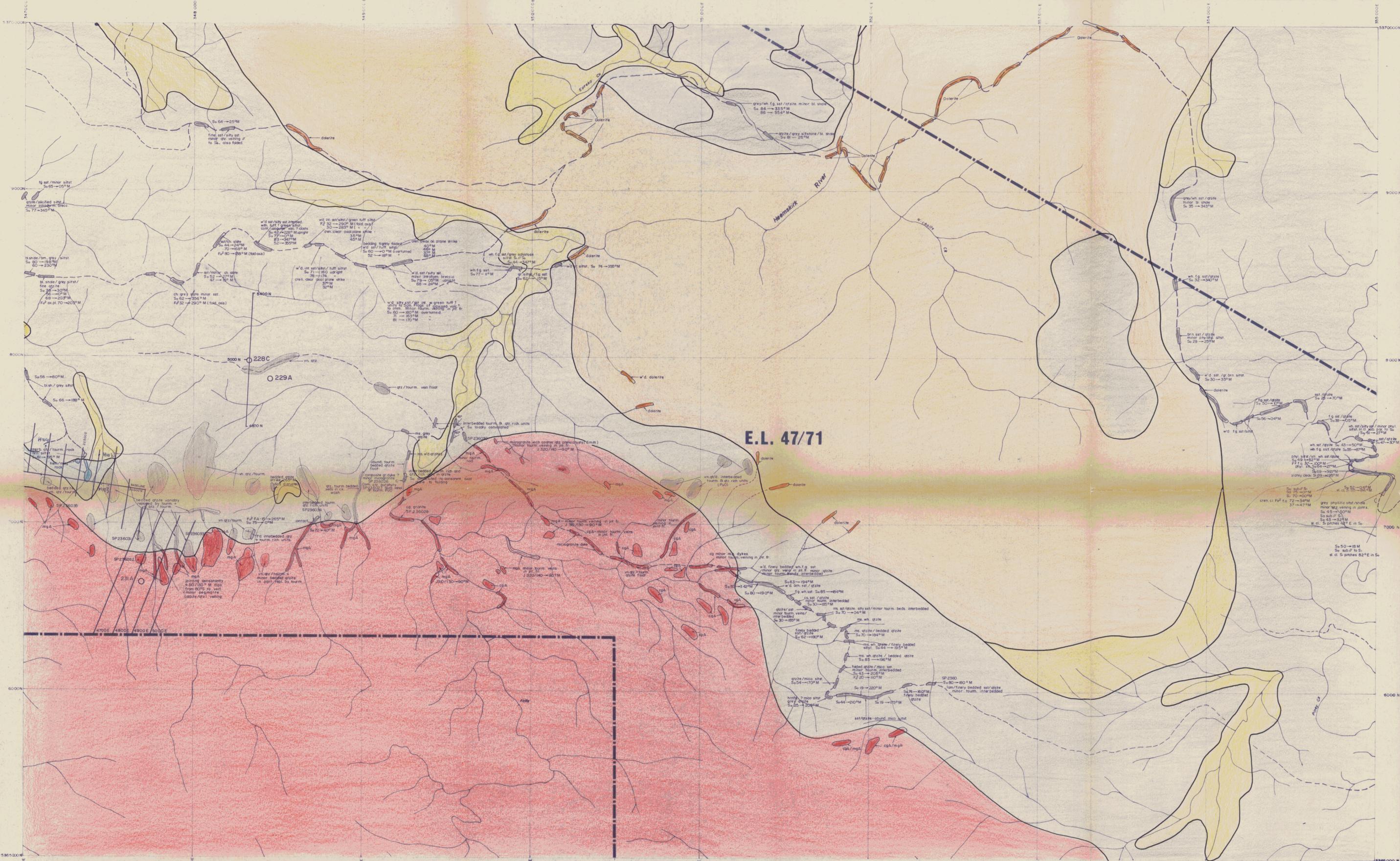
FOR LEGEND SEE PLATE STD. 40

Base sheet enlarged from
1:51,680 Tasmanian Lands
Dept. Topo.



331/370	336/370	341/370
331/365	336/365	341/365
331/360	336/360	341/360

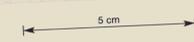
Aberfoyle Exploration		NORTH WEST TASMANIA QUEEN HILL EL 47/71	
		ST. DIZIER AREA GEOLOGICAL MAP	
Geology J.W. Plans J.W. Trace R.J.E. Checked Revised by Date	Location code Date April, 1980 Scale 1:10,000 Plate 1/1	STD. 42 / 339 / 365	



E.L. 47/71

FOR LEGEND SEE PLATE ST.D.40
891030

Base sheet enlarged from
1:31,680 Tasmanian Lands
Depl. Topo.



336/370	347/370	355/370
338/365	347/365	355/365
339/360	347/360	356/360

Index to adjoining sheets

		81-1597	
		Location code	
Geology	J. W.	Date	
Drawn	J. W.	April, 1980	
Traced	R. J. E.	Scale	
Checked		1 : 10,000	
Revised by	Date	Plate No.	
		ST. D. 42 / 347/365	



SOUTHERN
OCEAN

E.L. 47/71

GRANVILLE
HARBOUR

Granville
Harbour

5 cm

891031

FOR LEGEND SEE PLATE STD. 40

Base sheet enlarged from
1:50,000 Tasmanian Lands
Dept. Topo.



32 1/2 370	33 1/2 370	35 1/2 370
32 3/4 365	33 3/4 365	35 3/4 365
32 3/8 360	33 3/8 360	35 3/8 360

		<p>81-1597</p>
<p>NORTH WEST TASMANIA QUEEN HILL E.L. 47/71 ST. DIZIER AREA GEOLOGICAL MAP</p>		
Geology	J. W.	Location code
Drawn	J. W.	Date
Traced	R. J. E.	Scale
Checked		Plate No.
Revised by	Date	STD 42 / 331 / 365

True North
 Local Grid North
 Magnetic North

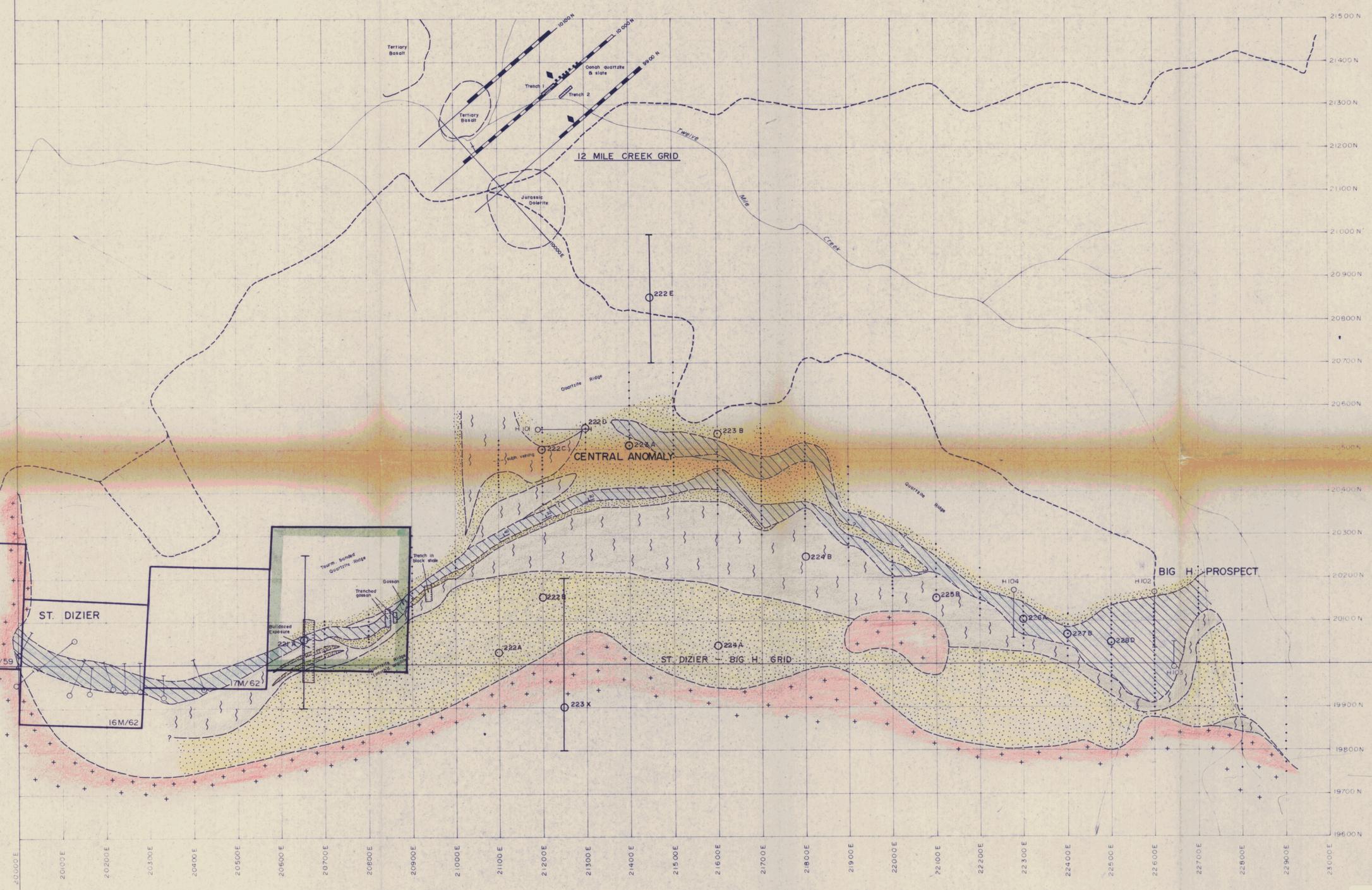
Grid Surveyed, Fisher 1973
 Datum assumed 20,000N, 20,000E

— LEGEND —

Centre of Anomaly
 Sirotem Coverage

Bedrock geochemical sample

Trench



— LEGEND —

DEVONIAN Heemskirk Granite

PRE CAMBRIAN Quartzite - Buff to grey qtz rich sandstone occasionally dolomitic. Tourmalinization common. Interbeds of shale & siltstone.

Black Shale - Contact metamorphic porphyroblasts of Andalusite.

Dolomite (locally Skarn)

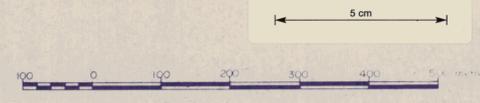
Location of bedrock drill hole

Location of DDH. (Pickands Mather & Co., 1967)

Trench or costean

Interpreted geological contact

Dipmeter Anomaly

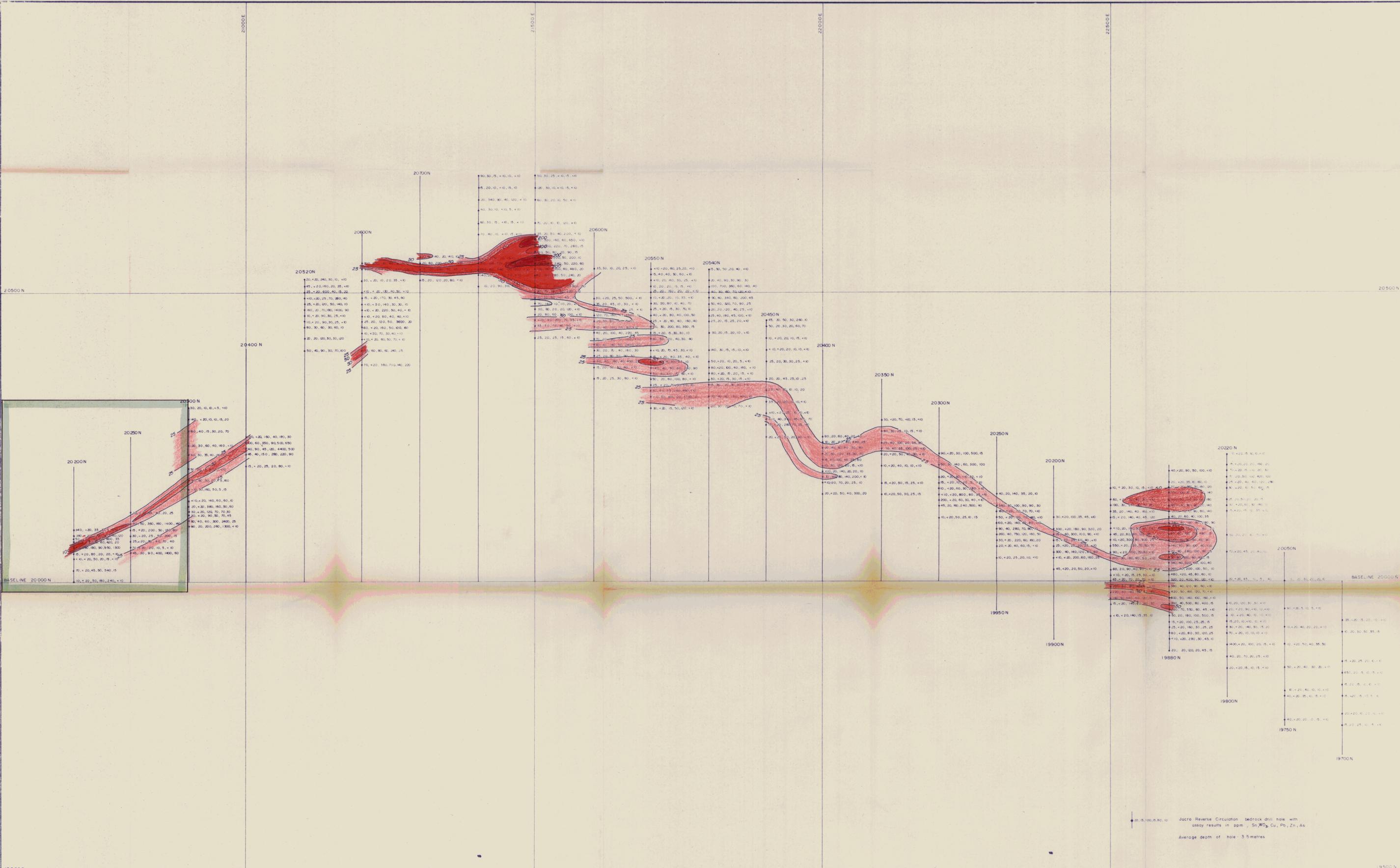


891032

Aberfoyle Exploration Pty Ltd

Geology: R. M. J.	NORTH WEST TASMANIA EXPLORATION LICENCE 47/71 ST. DIZIER - BIG 'H' AREA Geological Interpretation - Skarn Horizon	Location Code
Drawn: R. M. J.		Date: July, 1980
Traced: R. J. E.		Scale: 1:5000
Checked:		Plate No: ST. DIZ. 44
Revised by: Date:		

81-1597



20500 N
20400 N
20300 N
20200 N
20100 N
20000 N

21000 E
21500 E
22000 E
22500 E

BASELINE 20000 N

BASELINE 20000 N

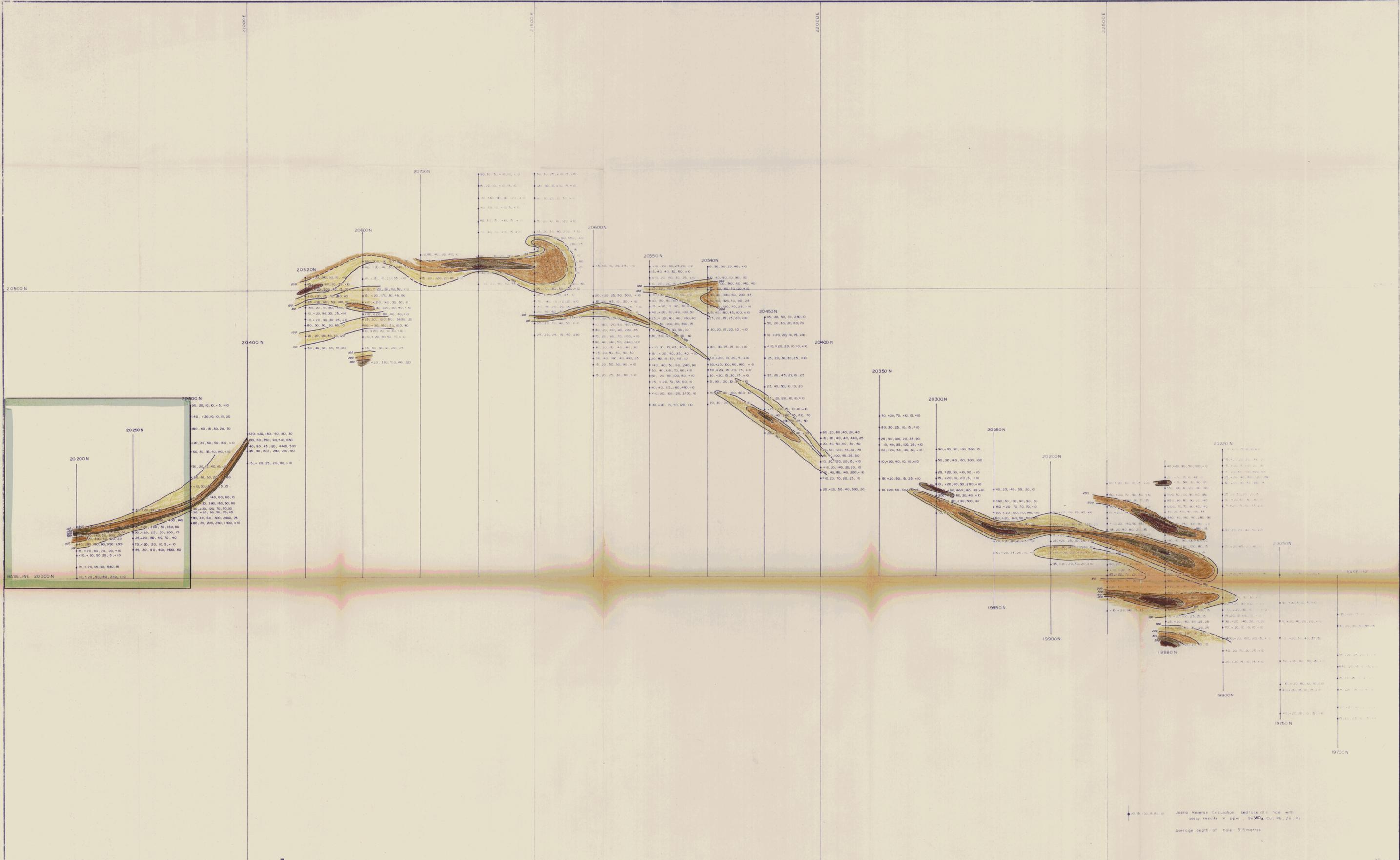
2015,100,5,80,10 Jacro Reverse Circulation bedrock drill hole with assay results in ppm Sn,WO₃,Cu,Pb,Zn,As
Average depth of hole - 3.5 metres



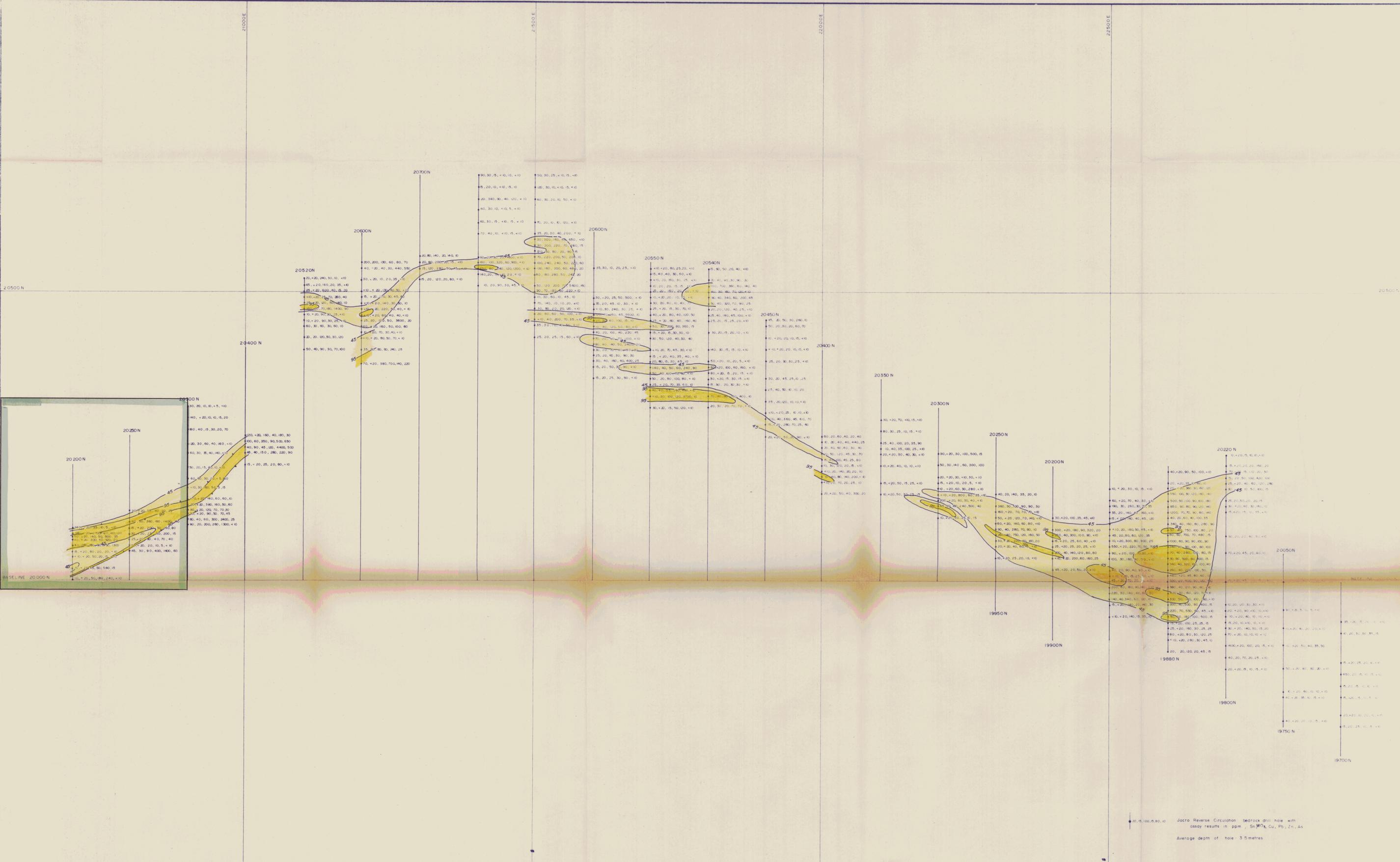
891034

		NORTH WEST TASMANIA	
		EXPLORATION LICENCE No. 47/71	
ST. DIZIER GRID		Location code	
Bedrock Geochemistry WO ₃ inppm		Date July, 1980	
Geology: R M J Drawn: R J E Traced: R J E Checked: Revised by: Date		Scale 1:2500 Plate No. ST. DIZ 43	

81-1597



<p>891035</p> <p>Aberfoyle Exploration Pty Ltd</p> <p>NORTH WEST TASMANIA EXPLORATION LICENCE No 47/71 ST. DIZIER GRID Bedrock Geochemistry Cu in p.p.m.</p>		<p>Drawn: R J E Traced: R J E Checked: [] Revised by: []</p>	<p>Date: 2/5/06 Scale: 1:5000 Plan No: ST DIZ 43</p>
--	--	--	--



20500N
20400N
20300N
20200N
20100N
20000N

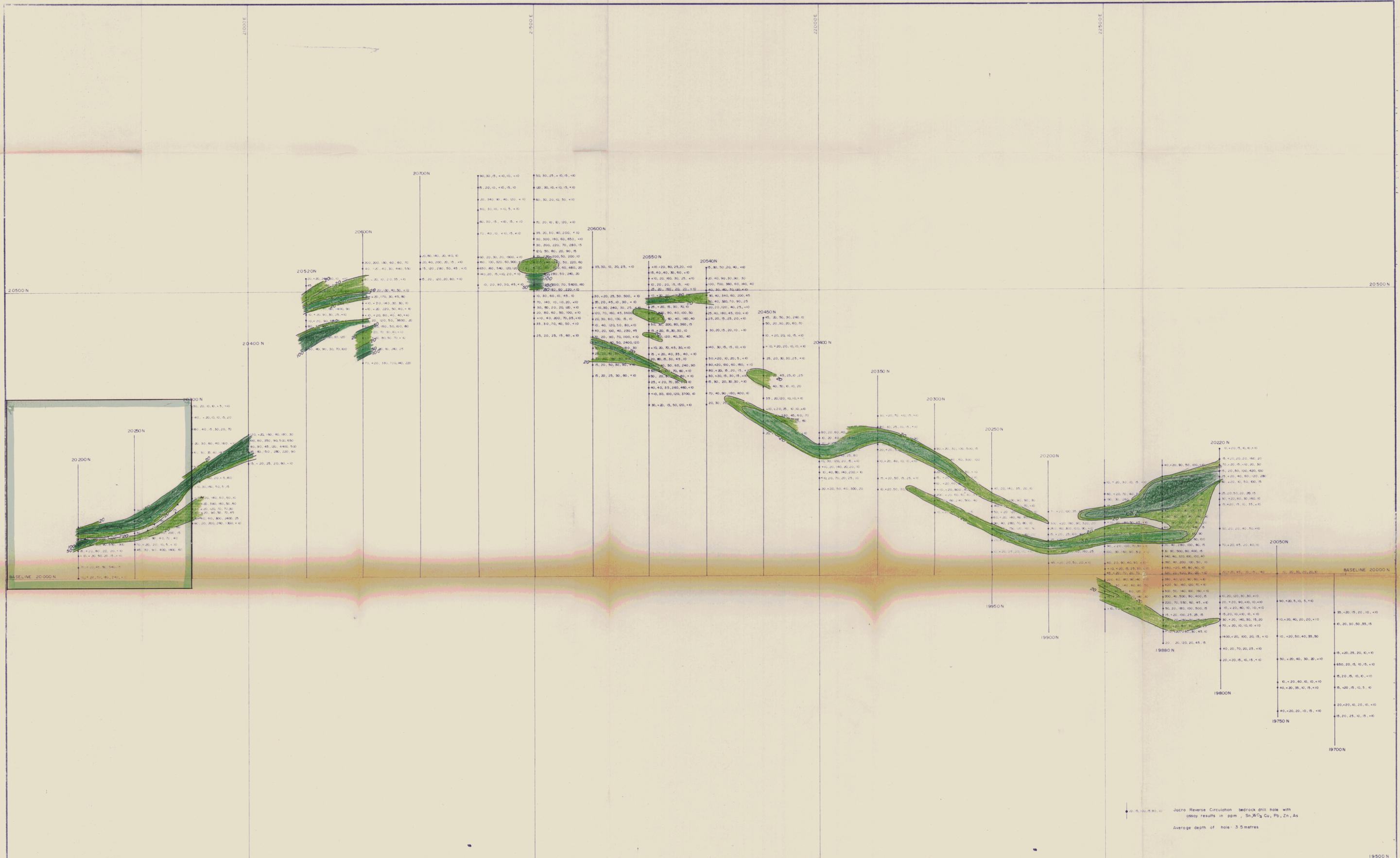
21000E
21500E
22000E
22500E

30, 15, 100, 5, 80, 10 Jacro Reverse Circulation bedrock drill hole with assay results in ppm, Sn, W, Cu, Pb, Zn, As. Average depth of hole - 3.5 metres.

5cm

89103G

Aberfoyle Exploration Pty Ltd		
Geology: R M J	NORTH WEST TASMANIA EXPLORATION LICENCE No. 47/71	Location: ST DIZ
Drawn: R J E	ST. DIZIER GRID	Date: July 1980
Traced: R J E	Bedrock Geochemistry Pb in ppm.	Scale: 1:2500
Checked:		Plate No: ST DIZ 43
Revised by: Date:		



10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 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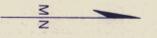
Jacto Reverse Circulation bedrock drill hole with assay results in ppm, Sn, W, Cu, Pb, Zn, As. Average depth of hole - 3.5 metres.



89103S

Aberfoyle Exploration Pty Ltd		NORTH WEST TASMANIA
EXPLORATION LICENCE No 47/71		Location code
ST. DIZIER GRID		Date: July, 1980
Bedrock Geochemistry As in p.p.m.		Scale: 1:2,500
Revised by: _____ Date: _____		Plate No: ST DIZ 43

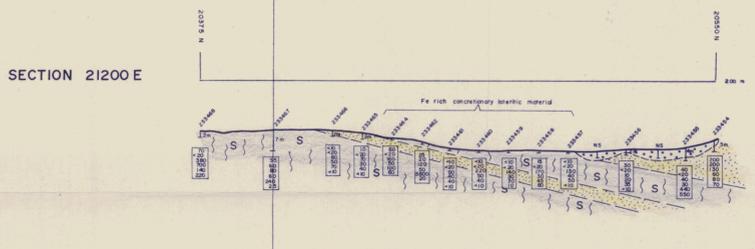
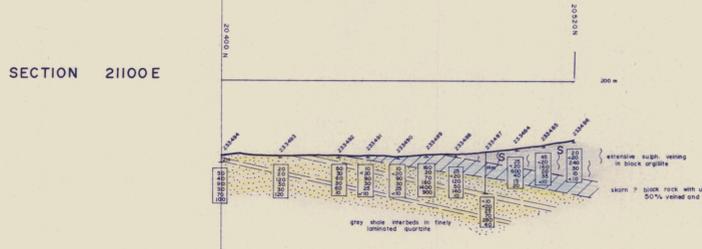
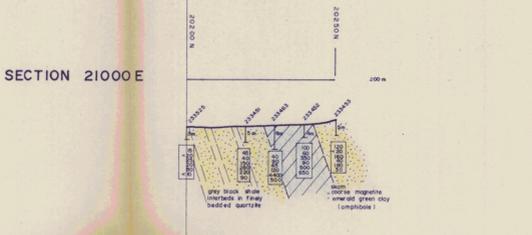
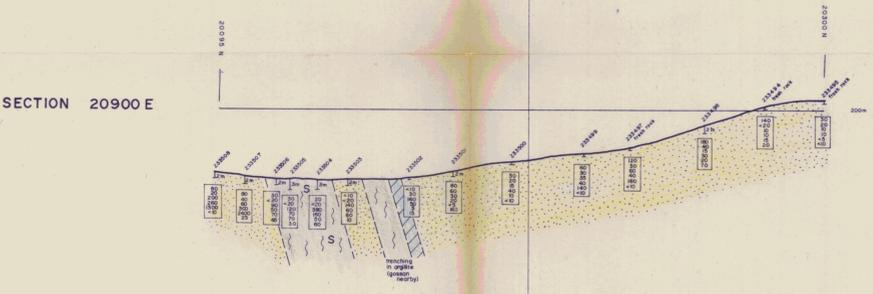
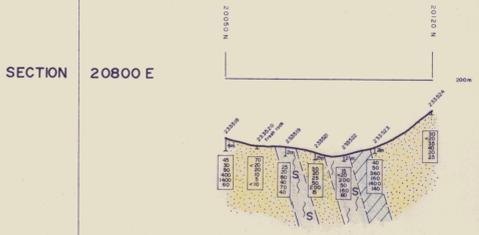
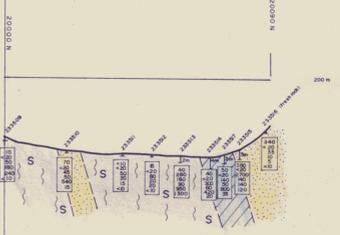
81-1597



20400 N

20200 N

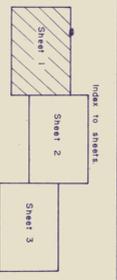
20400 N



20000 N

20200 N

20400 N



- LEGEND —
- Gravels
 - Gneiss
 - Magnetite Skarn
 - Chloritic Argillite
 - Quartzite
- Reverse circulation bedrock sample number
- Depth of hole
- Sn
WO₃ in ppm
- Fe
Pb
Zn
- Depth of hole <2 m
- No sample taken.

Abertoye Exploration Pty Ltd

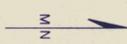
891033

Geology:	R. M. J.	Location:	
Drawn:	R. M. J.	Date:	August, 1980
Checked:	R. L. E.	Scale:	1:1000
Revised by:	DM	Printed at:	ST DIZ 45

NORTH, WEST TASMANIA
EXPLORATION LICENCE 47/71
ST. DIZIER GRID
BEDROCK GEOCHEM PROGRAMME
INTERPRETED GEOLOGICAL SECTIONS

Sheet 1

81-1597



20600 N

20400 N

20200 N

20200 N

20200 N

SECTION 22000E

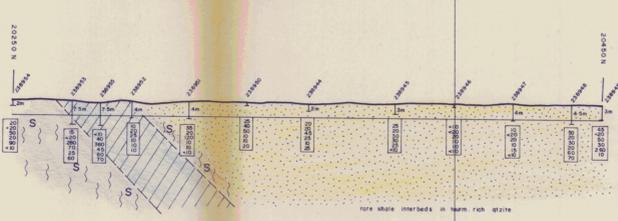


SECTION 22100E
SEE SHEET 31

20200 N

20200 N

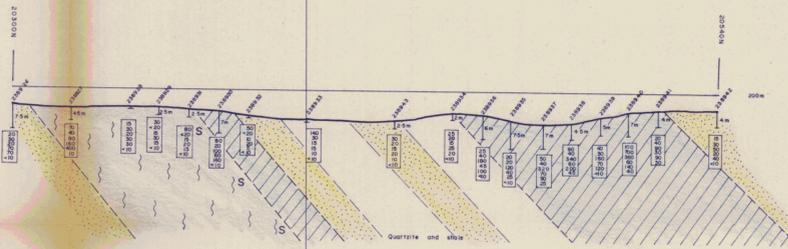
SECTION 21900E



20200 N

20200 N

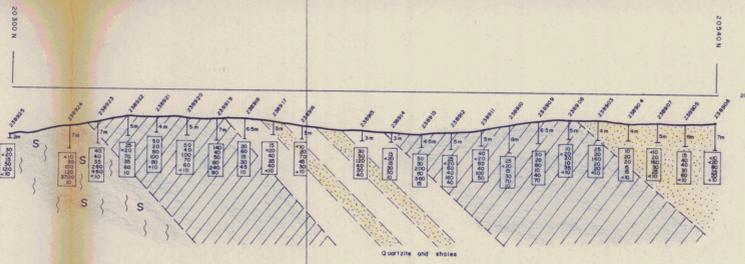
SECTION 21800E



20200 N

20200 N

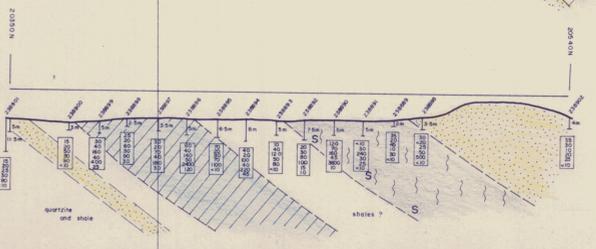
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20200 N

20200 N

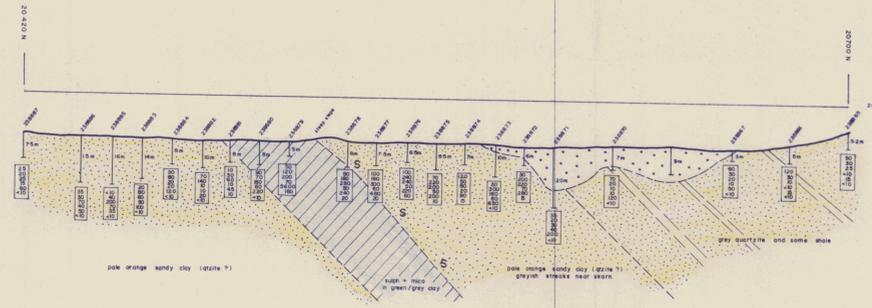
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20400 N

20400 N

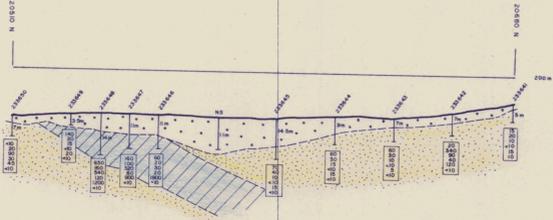
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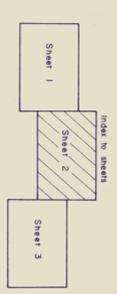
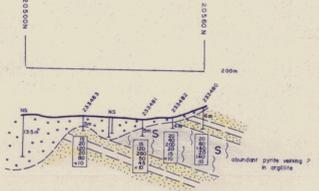
SECTION 21400E



20300 N

20300 N

SECTION 21300E

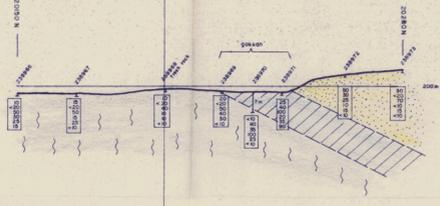


Aberfoyle Exploration Pty Ltd
 NORTH WEST TASMANIA
 EXPLORATION LICENCE 47771
 ST. DIZIER GRID
 BEDROCK GEOCHEM PROGRAMME
 INTERPRETED GEOLOGICAL SECTIONS

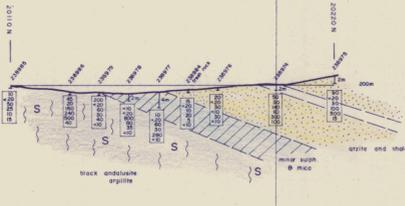
Geologist:	R. M. J.
Drawn:	R. M. J.
Field:	R. J. E.
Checked:	
Revised by:	
Date:	

891010
 Issue date: August 1, 1980
 Scale: 1:1000
 Print No: ST.DIZ.45

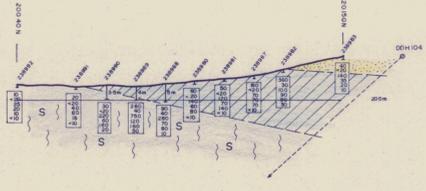
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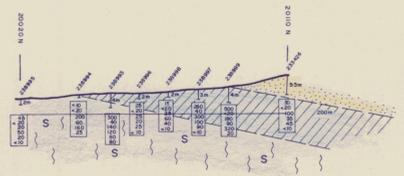
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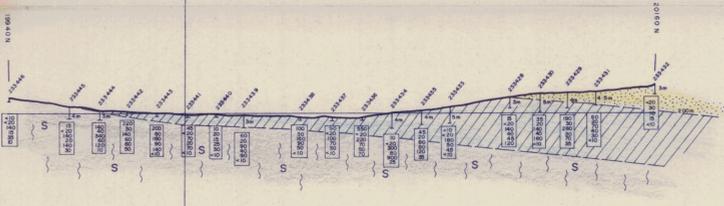
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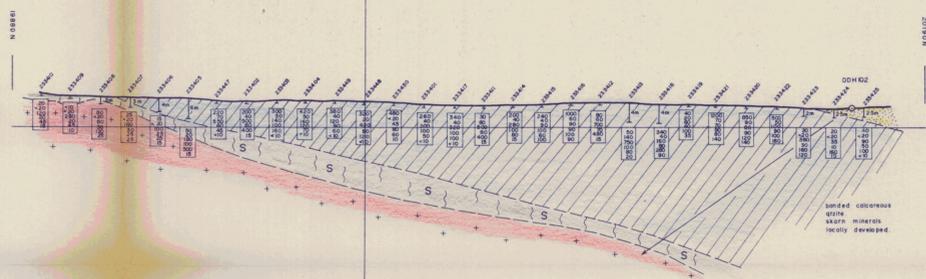
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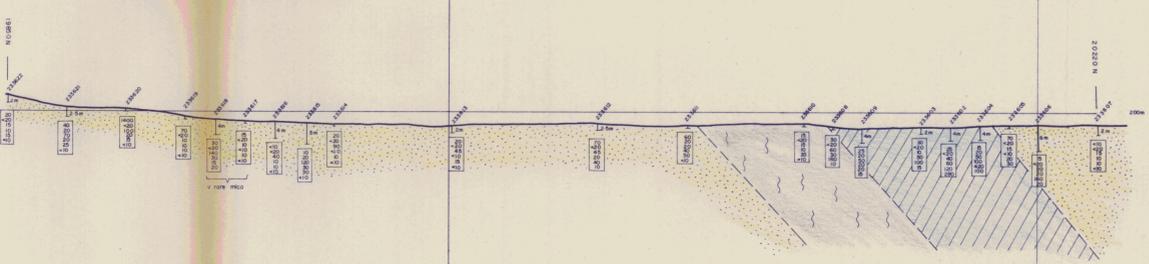
SECTION 22500E



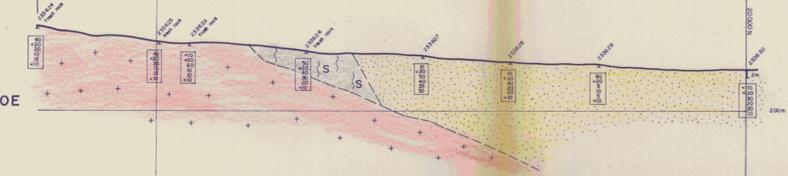
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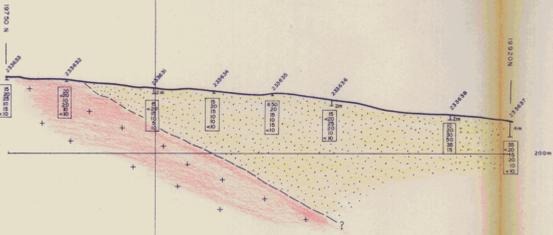
SECTION 22700E



SECTION 22800E

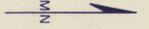


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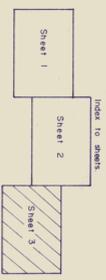


500 300 200 100

common boulders and
mud in clay



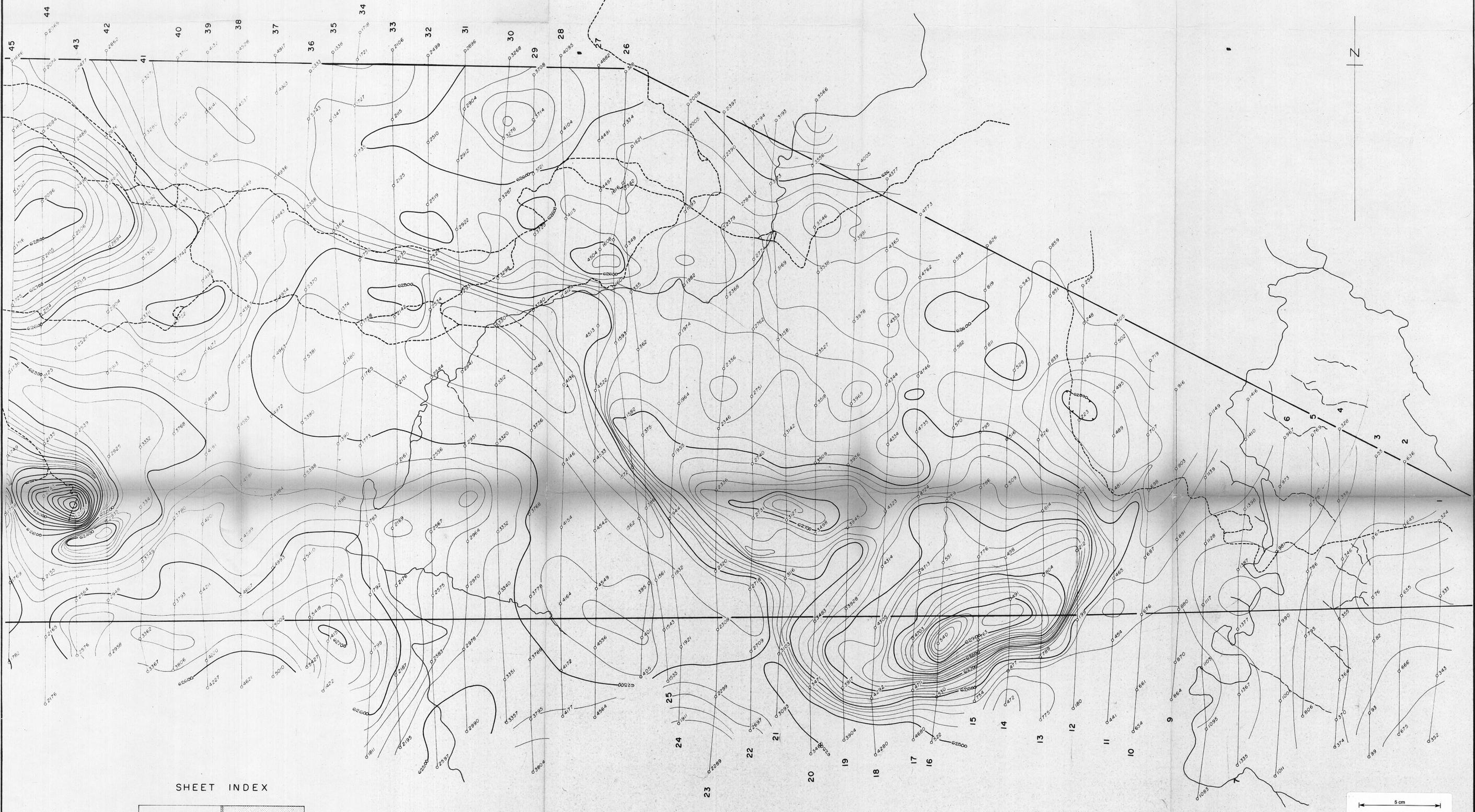
891041
5cm



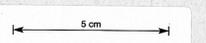
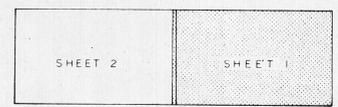
Aberfoyle Exploration Pty Ltd

NORTH WEST TASMANIA
EXPLORATION LICENCE 47/71
ST. DIZIER GRID
BEDROCK GEOCHEM. PROGRAMME
INTERPRETED GEOLOGICAL SECTIONS

Geology:	R.M.J.	Location code:	
Drawn:	R.M.J.	Date:	August, 1980
Traced:	R.J.E.	Scale:	1:1000
Checked:		Print no:	ST.DIZ. 45
Revised by:	DM		



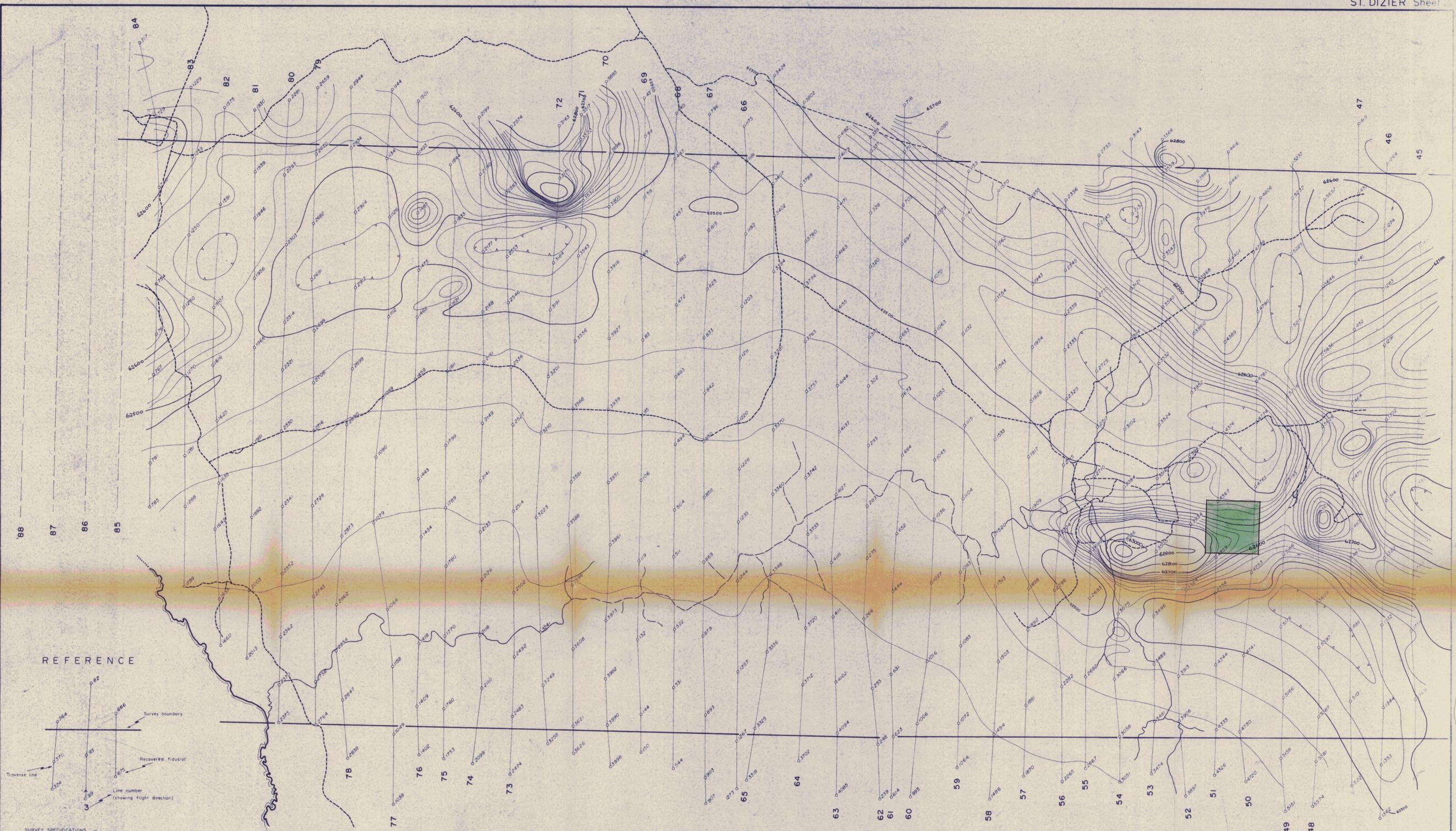
SHEET INDEX



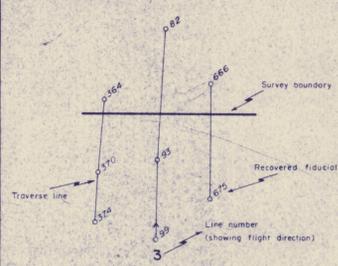
Total magnetic field contour interval
 — 20 gammas
 - - - 100 gammas

891042
COMINCO EXPLORATION PTY. LTD.
 ST. DIZIER
 AEROMAGNETIC CONTOURS
 SCALE 1 : 10000

SURVEYED : APRIL 1975
 DRAWN BY : I. B.
 APPROVED: J. E. HAIGH
 PROJECT N°: AFP 75/09-1

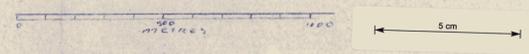
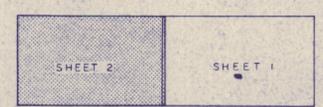


REFERENCE



- SURVEY SPECIFICATIONS —
- HELICOPTER: Bell Jet Ranger 206B VH-BLR
 - E.M. SYSTEM: McPhar H400 dual frequency sequential transmission 340 Hz and 1070 Hz.
 - MAGNETOMETER: Geometrics G803 proton precession (reading accuracy ± 1 gamma)
 - JOURNAL RECORDER: Geometrics G806 proton precession magnetometer with Rustrack recorder and crystal clock.
 - ALTIMETER: Bortec, radar
 - ANCILLARY EQUIPMENT: Geox intervalometer; Century 444 analogue light beam recorder; Geox film digital recorder; Vinten 16 mm ground tracking camera
 - READING INTERVAL: 1/023 seconds
 - NOMINAL AIRCRAFT SPEED: 90 knots (Mean reading spacing 47 metres)
 - NOMINAL AIRCRAFT SURVEY ALTITUDE: 140 metres (E.M. bird 50 metres, Mag. bird 120 metres)

SHEET INDEX



Total magnetic field contour interval
 — 20 gammas
 — 100 gammas

891043
COMINCO EXPLORATION PTY. LTD.
 ST. DIZIER
 AEROMAGNETIC CONTOURS
 SCALE 1:10000

SURVEYED: APRIL 1975
 DRAWN BY: I.B.
 APPROVED: J.E.H.
 PROJECT NO: AFR 100

891044

Extra here pegged-out Oct 1981
after reversal of decision of July 1980.

J

29-10-81.

5 cm

AUSTRALIA 1:15,840

