

80-1460.

064001

000
MICROFILMED

OPEN FILE

DRSG

ABERFOYLE EXPLORATION PTY. LTD.
MEREDITH GRANITE PROJECT
PROGRESS REPORT FOR THE SIX MONTHS
ENDING APRIL 20, 1980.

16/78

R.M. Joyce,
Geologist.

April 1980.

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY	1
INTRODUCTION	1
GENERAL GEOLOGICAL SETTING	2
PROSPECTIVE AREAS OUTLINED BY 1978-79 PROGRAMME	3
THE 1979-80 PROGRAMME	
1. Betts Track Area - Geology	3
- Geochemistry	4
- Geophysics	5
2. The Upper Castray River Area - Geology	5
- Geochemistry	6
3. Contact Creek/Scheelite Creek Area	
- Geology	6 - 7
- Geochemistry	8
CONCLUSIONS	9 - 10
PROPOSED WORK	10 - 11
FINANCE	11
REFERENCES	11

APPENDICES

APPENDIX 1	- Petrological Reports.
APPENDIX 2	- Graphical Interpretation of Ground Magnetic Traverses.
APPENDIX 3	- Location Maps and Assay Results - Base of Slope Soil Sampling.
APPENDIX 4	- Graphical Interpretation of Access Line Soil Sampling.

PLATES

<u>Plate No.</u>	<u>Title</u>	<u>Scale</u>
Mer. 12 (In text)	Locality Plan	1:1,000,000
Mer. 11 (In text)	Geological Summary Map	1:125,000
Mer. 17 (In text)	Stream Sediment Sampling in Vicinity of Circular Feature (1980 Programme)	1:15,000
Mer. 4 - 355/400	Surface Outcrop Geology	1:10,000
Mer. 4 - 355/395	Surface Outcrop Geology	1:10,000
Mer. 16 - 367/4025	Surface Outcrop Geology	1:5000
Mer. 16 - 367/4000	Surface Outcrop Geology	1:5000
Mer. 9 - 355/395	Stream Sediment Sampling Locations and Assay Results	1:10,000
Mer. 9 - 355/400	" " " "	1:10,000
Mer. 9 - 347/400	" " " "	1:10,000
Mer. 9 - 363/400	" " " "	1:10,000
Mer. 18	Geological Legend	

002

SUMMARY

This report summarises work conducted on Meredith Granite E.L. 16/78, for the six months ending April 20, 1980. It is anticipated that much of the further work proposed in this report will be completed in the latter half of this season.

The exploration programme has been directed towards follow-up of target areas delineated by the reconnaissance stream sampling and geological mapping programme carried out in 1978/79.

Follow-up work included the establishment of more than 20 km of walking tracks throughout the area. These tracks were used predominately for access, although routine sampling was performed on most. 236 stream sediment samples, 833 base of slope and grid soil samples, and 150 rock chip samples were collected. A total of 31.2 line km ground proton magnetometer traverses were also completed.

A helicopter DIGHEM survey involving 122 line km was flown over two areas of Cambrian rocks underlain by the northern contact of the Meredith Granite. Data compilation is still in progress.

Detailed geological mapping was conducted on all available access.

INTRODUCTION

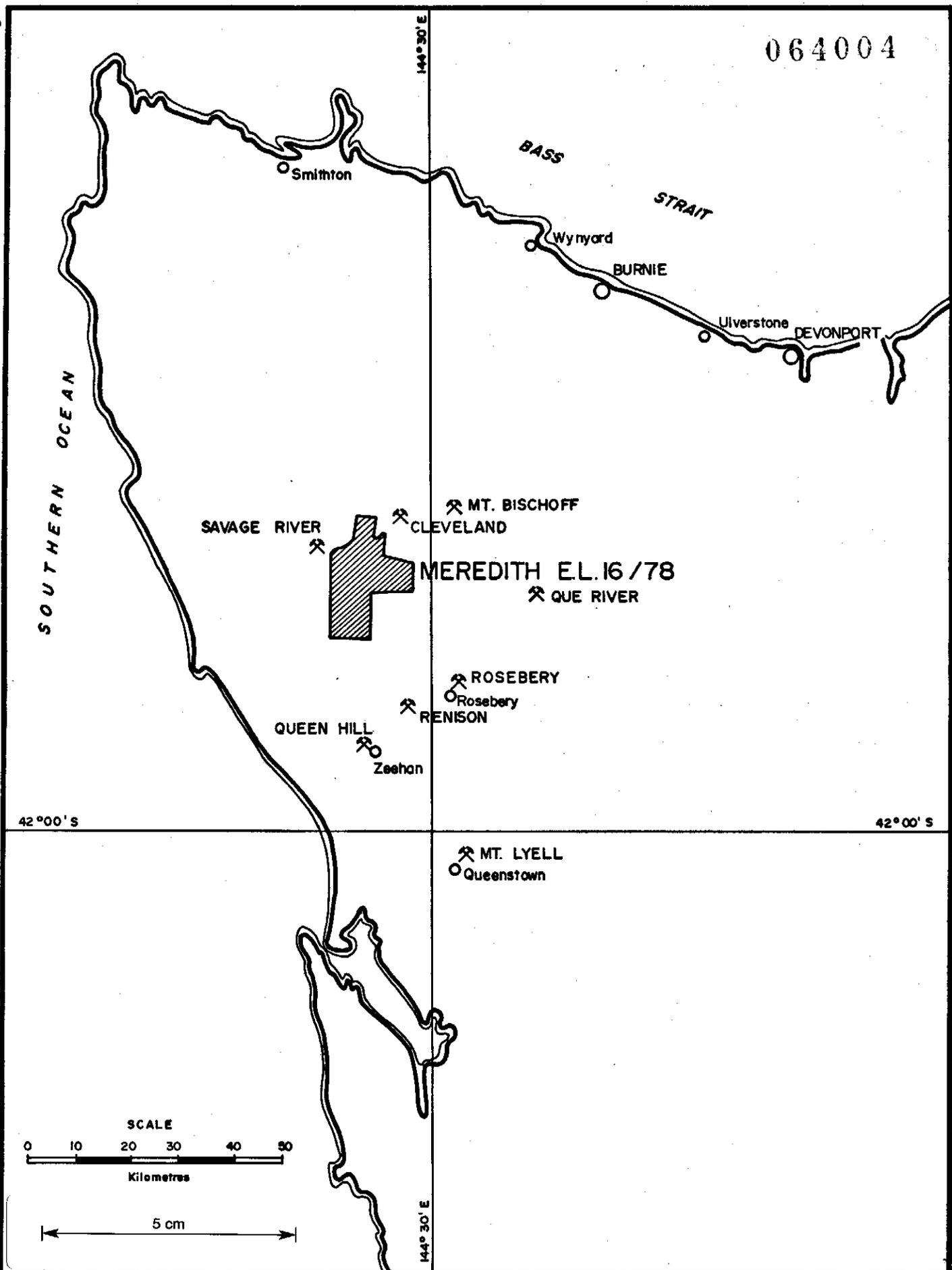
The Meredith Granite E.L. 16/78 was pegged in 1978 over vacant ground adjoining the south-west side of the Cleveland Exploration Licence in North West Tasmania (Plate MER 12).

Comstaff Pty. Ltd. under E.L. 1/68 were the first to use modern exploration techniques in an area which had been prospected for hard rock and alluvial tin deposits for decades. Both Comstaff and ANZECO (E.L. 11/75) undertook regional stream sediment sampling programmes covering both areas within the Meredith Granite, and the northern contact rocks.

Aberfoyle commenced exploration of the E.L. in the summer of 1978-⁷⁹~~80~~ with a reconnaissance mapping and stream sediment sampling programme.

003

064004



 **Aberfoyle Exploration Pty Ltd**

Drawn:	R. J. E.
Traced:	
Checked:	
Revised by:	Date:

NORTH WEST TASMANIA
 MEREDITH E.L. 16/78
 Locality Map

Location code:	
Date:	September, 1979
Scale:	1 : 1,000,000
Plate No	Mer. 12

GENERAL GEOLOGICAL SETTING (Plate Mer. 11)

The licence includes most of the outcrop extent of the Meredith Granite and its northern contacts. The Meredith Granite is an Upper Devonian (K/Ar; 350 my, Rb/Sr 353 ± 7 my) intrusive, closely related in both age and composition to the Husetop, Pieman, Granite Tor and Heemskirk granites in Western Tasmania.

Work by Aberfoyle has been concentrated on the northern margins of the intrusive, where porphyritic granite variants are common. Variations in these porphyritic marginal phases are common, usually involving relative phenocryst abundance and/or the abundance of biotite as a groundmass constituent. Other variations include grain size, and changes in the relative abundance of plagioclase, cordierite and tourmaline.

To the west the granite intrudes quartzites, quartz-muscovite schists, and carbonaceous black shales of the Precambrian Whyte Schist complex.

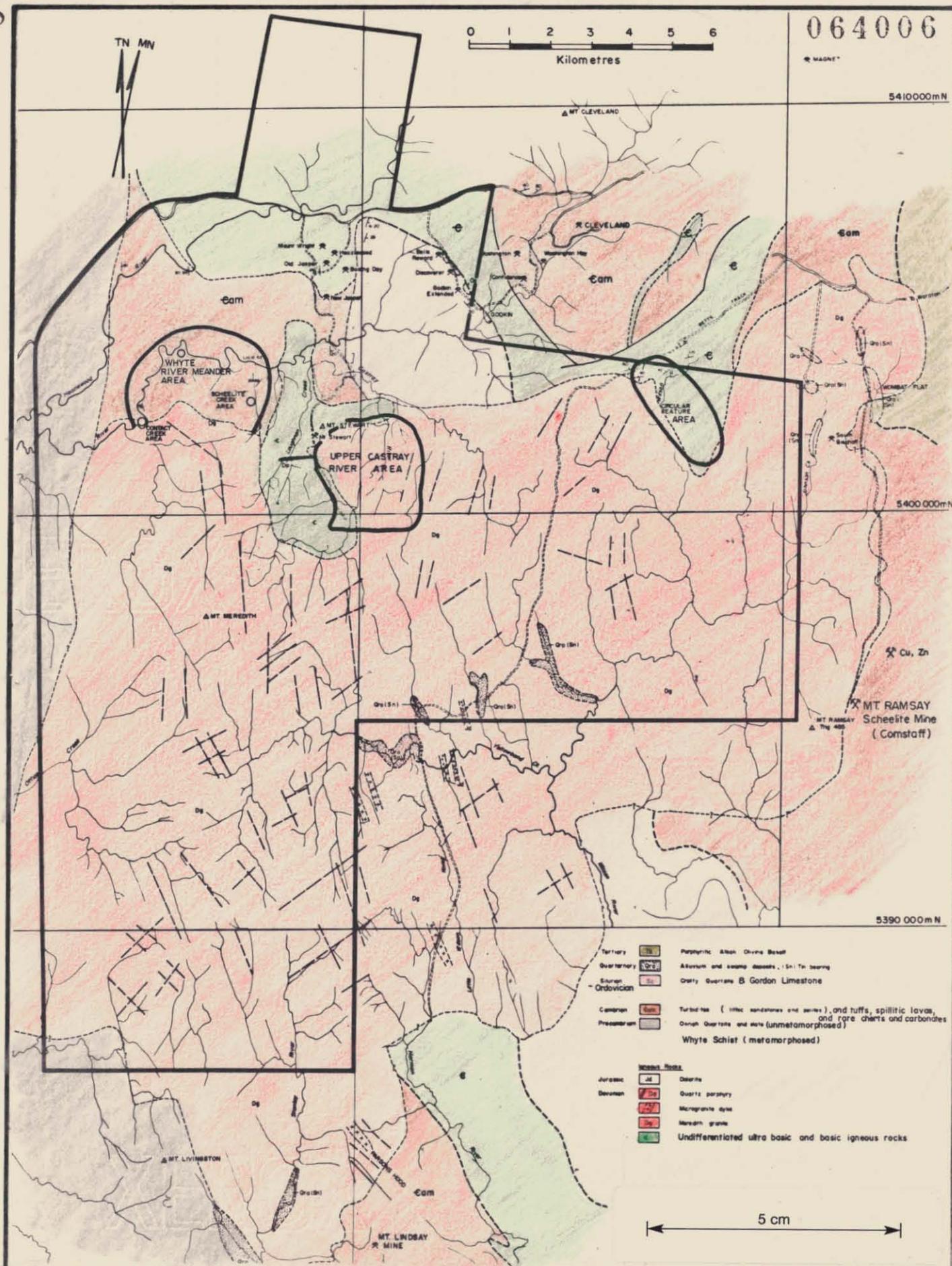
To the north-east pyroxenites, peridotites, serpentinites, altered basic volcanics and tuffs and undifferentiated igneous rocks of the Cambrian Heazlewood complex and similar mafic-ultramafic ophiolite suites outcrop.

In the north-west sediments of probable Cambrian age appear to correlate with the Crimson Creek formation. In general these sediments appear to be a sequence of turbiditic volcolithic sandstones, siltstones and shales with rare conglomerate and chert. Although not yet mapped it is possible that carbonate horizons occur within the sequence.

Ordovician-Silurian sediments are also in contact with the granite to the north, and apparently unconformably overlie the Cambrian sequence. Silurian quartzites constitute the bulk of these younger sediments but stylonitic limestone, perhaps related to the Ordovician Gordon Limestone has been mapped in the Castray River and mineralised limestones occur to the north-east (Godkin).

005

064006



Aberfoyle Exploration Pty Ltd

Drawn: Adapted from Groves, 1962-7
 Traced: R.J.E.
 Checked:
 Revised by: Date:

NORTH WEST TASMANIA
 MEREDITH E.L. 16/78
 Geological Summary Map

Location code:
 Date: September, 1979
 Scale: 1: 125,000
 Plate No Mer. 11

PROSPECTIVE AREAS OUTLINED BY 1978-79 PROGRAMME

In the summer of 1978-79, following a compilation of other company data, and interpretation of air photo and magnetic anomalies along the northern granite contact, Aberfoyle began a reconnaissance mapping and stream sediment sampling programme. This programme was directed at following up these anomalies and geological targets (i.e. attractive stratigraphy).

Three distinct areas with potential for Sn and W were outlined by this integrated geochemical and geological programme, these were;

1. The BETTS TRACK area, where anomalous Sn and Zn values occur adjacent to a circular air-photo and aeromagnetic feature.
2. The UPPER CASTRAY RIVER area, where stream sediment values highly anomalous for Sn and W outline a lobate section of granite with potential for greisen and breccia-pipe mineralisation.
3. The CONTACT CREEK/SCHEELITE CREEK area, where metasomatised sediments identical to the Crimson Creek formation at Mt. Lindsay and Renison occur.

THE 1979-80 PROGRAMME

The summer of 1979-80 was primarily devoted to follow-up of the three general areas outlined above.

1. Betts Track Area

Geology

The topographic expression of the circular air-photo anomaly is not controlled by a geological boundary. The circular feature is a distinct topographical high transgressive to the contact between the Meredith Granite and Cambrian altered basic volcanics and serpentites (Plate Mer. 17).

007

Within the circular feature, marginal granite phases show great variations, predominantly related to the abundance of phenocrysts relative to groundmass. Phases vary from very phenocryst depleted (i.e. aplitic) granites, to phenocryst rich (almost equigranular) granites and the distribution of these granite types appears irregular.

The granite in the circular feature area appears to be biotite depleted close to the granite/ultramafic contact, and becomes progressively enriched in biotite (as a groundmass constituent) as the bulk of the intrusion is approached. Further from the contact, the granite becomes less porphyritic and coarser grained.

The Cambrian mafic and ultramafic rocks intruded by the granite consist predominately of basic tuffs and lavas(?), and serpentinites.

The basic volcanic rocks are extremely altered, appearing as pale-dark grey-green chloritic rocks, occasionally bedded, and containing dark patches interpreted as ex-mafic phenocrysts and common disseminated crystalline ilmenite? (chromite?). In places weathered surfaces reveal the presence of large "clasts" within apparent bedded tuffs.

The serpentinites are dark green-black rocks, which are commonly very magnetite rich and occasionally silicified.

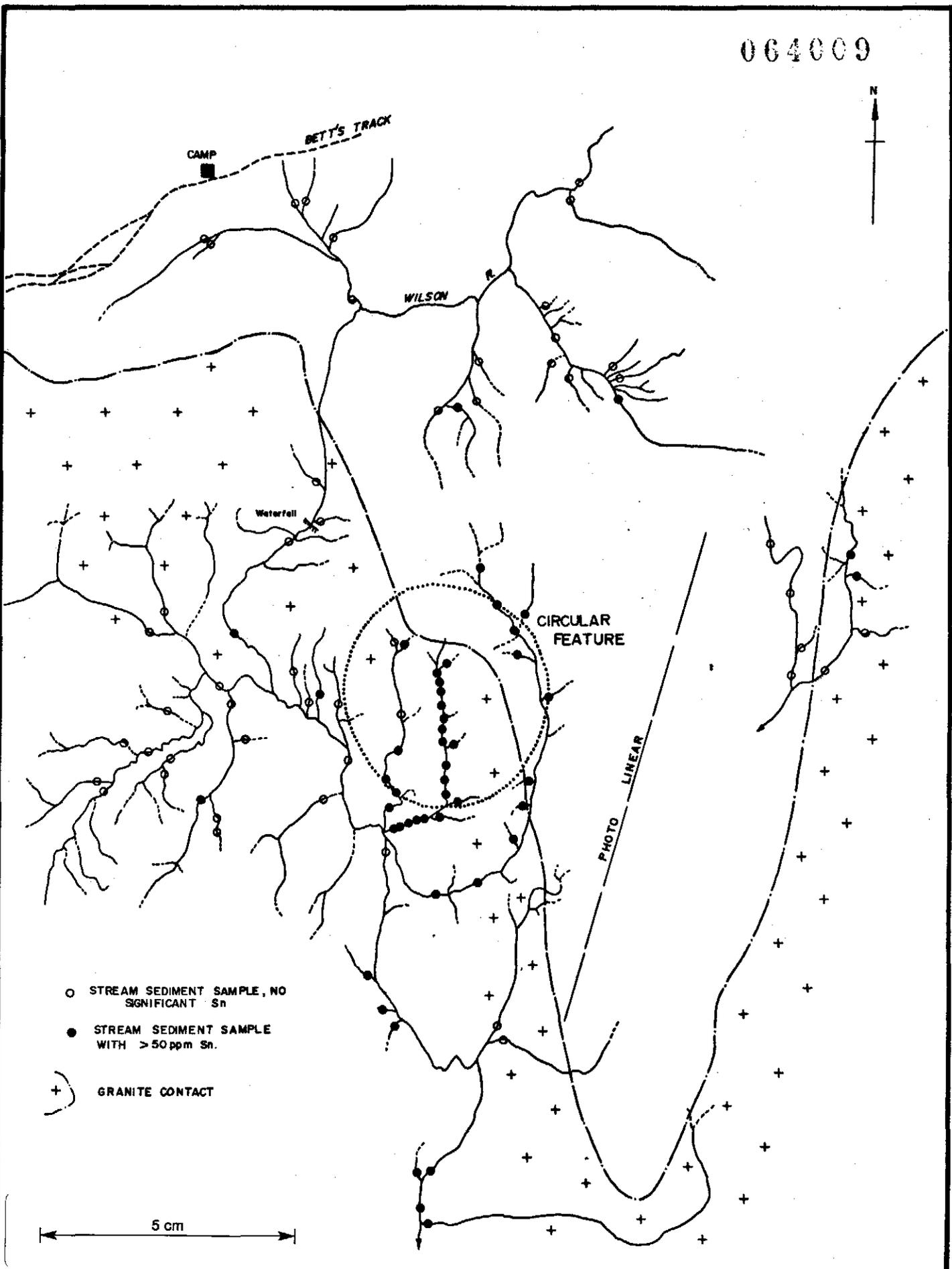
High Sn geochemistry in rock chip samples (maximum 800 ppm) have been recorded from the ridge of silicified, magnetite-rich ultramafics east of the circular feature.

Geochemistry

Reconnaissance stream sediment sampling was undertaken to improve the coverage of drainage from the circular air-photo feature. Results show consistently anomalous Sn stream sediment values in creeks draining from both the circular feature and a ridge immediately to the east. High Zn values were recorded where Cambrian ultramafic rocks were the stream sediment source (Plate Mer 17).

003

064009



- STREAM SEDIMENT SAMPLE, NO SIGNIFICANT Sn
- STREAM SEDIMENT SAMPLE WITH > 50 ppm Sn.
- + GRANITE CONTACT

5 cm

 **Aberfoyle Exploration Pty Ltd**

Drawn: W. E. M.	NORTH WEST TASMANIA MEREDITH E.L. 16 / 78 STREAM SEDIMENT SAMPLING IN VICINITY OF CIRCULAR FEATURE (1980 Programme)	Location code:
Traced: R. J. E.		Date: August, 1980
Checked:		Scale: 1 : 15, 000
Revised by: Date:		Plate No: MER. 17

Base of slope soil samples were taken as follow-up of 1979-80 stream anomalies, and one of the creeks sampled, draining off the ridge to the east of the circular feature, returned anomalous Sn values (Appendix 3).

All available access was covered by 25 m spaced soil sampling, however, complete results are not yet available.

Geophysics

Ground proton magnetometer surveys over all available access indicate:-

- (i) The granite underlying the circular feature is magnetically "noisy", and stands out from the bulk of the Meredith Granite.
- (ii) There is an approximate linear magnetic anomaly (due to surficial magnetite) on the ridge east of the circular feature.

Magnetic profiles are appended. (Appendix 2).

2. The Upper Castray River Area

Geology

The Upper Castray River area is underlain principally by granite, with the northern contact between granite and Cambrian ultramafics exposed in places. The bedrock is predominantly coarse grained equigranular biotite granite, with more porphyritic variants occurring near granite margins.

In the vicinity of the Mt. Stewart mine (an Ag, Pb, Zn fissure lode in sheared ultramafics) occasionally weakly greisenised granite dykes extend up to 500 m into the ultramafics.

Marginal granite phases in the Mt. Stewart area show very great compositioned and textural variations. Aplitic and pegmatitic phases have been noted, along with foliated cordierite-rich granites and magnetite bearing intrusives.

The ultramafic rocks in the area are predominantly dark green serpentinites, with occasional peridotites. Large areas of lateritic, iron oxide rich concretionary material occurs in the region (within the ultramafics).

Within the granite, narrow joint controlled greisen veins occur, the larger and more accessible of which have been prospected, presumably for tin. Sulphide rich (galena, sphalerite) quartz veins have also been observed. Quartz tourmaline veins are very common.

Geochemistry

As follow-up to consistently high Sn and W stream geochemistry in the Upper Castray River region, a blanket stream sediment sampling programme was initiated. Stream anomalies in small creeks were followed-up with base of slope soil sampling, but in most cases, anomalous drainage had to be traced to a more definitive source before soil sampling was applicable.

Within the granite, anomalous Sn drainage is probably due primarily to narrow joint controlled greisen veins, as the drainage pattern is also largely controlled by the dominant joint directions of the granite.

Anomalous Sn and Zn drainage commonly occurs across the granite/ultramafic contact. Where base of slope soil sampling has been used to follow up this anomalous drainage, encouraging soil sample results have been returned, (Appendix 3).

3. Contact Creek/Scheelite Creek Area

Geology

In the Contact Creek/Scheelite Creek area, Cambrian volcanolithic sediments occur in contact with the Meredith Granite. The sediment sequence, despite generally poor geochemical results is considered very prospective because of lithological similarities with rocks of the Cambrian Crimson Creek Formation at Renison and Mt. Lindsay.

The sediments in the area are a monotonous sequence of massive purple, brown, grey and greenish volcanolithic sandstones and coarse siltstones, purple and pale and dark grey laminated cherty siltstones, often with oriented clasts (pebbles), black, brown, purple and grey shales and rare conglomeratic tuffaceous sediments and cherts.

The sediments on the whole, appear to be derived from a basic-intermediate volcanic source (mainly lavas). Sedimentary features are consistent with deposition in a sub-aqueous environment as a result of the action of turbidity currents. Intervals between turbidity currents are indicated by the presence of shales, (normal pelagic sedimentation?) and chemical sediments (cherts and carbonates?). Much of the sequence could be tuffaceous. Any petrological distinctions between tuffs and immature volcanic sediments have been obscured by alteration.

The presence of considerable thicknesses of downward facing sediment indicates that the sequence has possibly undergone at least two deformations. The apparent absence of cleavage parallel to bedding could indicate that the earlier of these deformational episodes did not involve cleavage formation and may be related to the Cambrian Jukesian Uplift (a tilting orogeny).

The sediments show the effects of metamorphism and metasomatism, probably both contact related.

Within approximately 1 km of the granite contact, sandstones and siltstones have been converted to very hard, dark hornfelsic rocks rich in biotite, (where composition allows). Closer to the granite, more pelitic sediments contain common large cordierite porphyroblasts.

Metasomatic alteration appears to have involved the addition of vast amounts of Ca and Mg to the rocks. The most common metasomatic assemblage includes;

. tremolite, diopside, phlogopite, prehnite, pyrrhotite (pyrite)

Tremolite is the most common alteration product, but selective layers or beds are replaced by diopside or phlogopite.

Veinlets of tremolite (\pm pyrite, quartz) commonly have alteration haloes of a few centimetres (tremolite, diopside-pyrrhotite) in largely unaltered rocks and there is an obvious field relationship between veining and extent of alteration.

Apparently concordant sills of doleritic material occur throughout the Cambrian sequence. Closer to the granite, the volume of doleritic material appears to increase markedly.

Geochemistry

Within this general area, two centres of high geochemistry emerged from the 1978-79 programme. A small tributary of the Whyte River, in the vicinity of a series of small meanders (state grid co-ordinates), gave highly anomalous Sn values in both stream sediment and base of slope soil samples. Further sampling indicates that the early results may be due to contamination from the Whyte River. However, a magnetic anomaly does coincide with the geochemically anomalous area and further work is anticipated.

Scheelite in panned concentrates was reported by ANZECC (1976), in a large creek about 1 km west of Mt. Stewart (Scheelite Creek). Due to problems of navigation in thick vegetation, this creek was not sampled by Aberfoyle until the 1979-80 season, when contractors were hired to take heavy concentrate samples, in an attempt to verify the ANZECC results. Visible scheelite was observed in these samples. Conventional stream sediment coverage and base of slope soil sampling were also undertaken. Results are awaited.

In general, stream sediment samples taken in the 1978-79 season gave poor response for Sn and W, so follow-up was not a large part of the 1980 programme.

All available access tracks were soil sampled at 25 m intervals. The background of Sn and W in the Cambrian sediment sequence was very low (<10 ppm) and few encouraging results were returned. (Appendix 4).

CONCLUSIONS

Betts Track Area

1. The circular air photo anomaly is a distinct topographic high possibly related to silicification.
2. The granite-ultramafic contact is transgressive to the circular feature. The feature is attributed to a sub-surface phenomena post dating the exposed lithologies.
3. The circular feature appears to be the source of anomalous Sn drainage.
4. The occurrence of high Sn geochemistry in serpentinites immediately to the east of the circular feature could be due to;
 - (i) a primary alteration halo surrounding a buried Sn rich breccia pipe, or
 - (ii) a carbonate filled shear zone (a definite north-east trending photo-lineament occurs in this area).

Upper Castray River Area

1. Narrow, joint controlled greisen veins are the possible source of Sn anomalies in stream sediment samples.
2. The granite-ultramafic contact is consistently geochemically anomalous in Sn.
3. Potential exists for skarn or replacement style mineralisation within Ordovician Limestones in the Castray River area.

Contact Creek/Scheelite Creek Area

1. The Cambrian sediment sequence has a very low Sn and W threshold, and no carbonate horizons have been mapped to date.
2. A source has not yet been found to explain the scheelite anomaly in Scheelite Creek.
3. The high Sn geochemistry in the Whyte River meander area may be due to contamination. ?

PROPOSED WORK

This report summarises work in the first half of the 1979-80 summer season, it is anticipated that much of the work detailed below will be completed during the latter part of the season.

Further work is proposed on three areas:

1. Betts Track Area

Bedrock geochemistry has proven the most effective method of locating "blind breccia" style mineralisation, and it is proposed to undertake bedrock sampling within the circular feature.

The ridge of ultra-mafics to the east of the circular feature is yet to be mapped.

2. Upper Castray River Area

Several anomalous creek systems still require follow-up. Base of slope soil sampling should help discriminate between narrow greisen veins and economic mineralisation.

The possibility of mineralised carbonate horizons in the Ordovician sequence in the Castray River will be evaluated.

3. Contact Creek/Scheelite Creek Area

Work will continue on the scheelite anomaly in Scheelite Creek.
The results of the DIGHEM survey over much of the area may provide further exploration targets.

FINANCE

Expenditure for the six months ending Aberfoyle Period 4, April 7, 1980 totals \$87,188.00, see Finance Summary on next page.

REFERENCES

- Young, C.H. (1978) Property Generation Report for the Meredith Granite Area. Internal Report Aberfoyle Exploration.
- Young, C.H. (1979) Aberfoyle Exploration Pty. Ltd. Meredith Granite Project. Report for the six months ending October 20, 1979.

SIGNED: Bill Joyce
R.M. Joyce,
Geologist.

ENDORSED: K.R. Yates
K.R. Yates,
Manager Outside Exploration.

016

064017

ABERFOYLE EXPLORATION PTY. LTD.PROJECT: MEREDITH, Exploration Licence 16/78.

20th October, 1979 to 20th April, 1980.

	Period 11/79 to 4/80	YEAR TO DATE (20.4.80)	PROJECT TOTAL
<u>Salaries & Wages</u>	\$38,762	\$37,503	\$70,701
<u>Contractors, Consultants</u>			
Geology			
Petrology	542	542	1,151
Gridding	4,550	2,450	4,550
Geophysics	4,114	4,114	4,114
Geochemistry	1,759	1,759	6,377
RAB Drilling			
Diamond Drilling			
Percussion Drilling			
Assay			
Other Costeaning Access	6,030	6,030	3,179 17,880
<u>Materials</u>	6,294	5,471	11,234
<u>Accom & Travel</u>	7,398	7,105	12,257
<u>Vehicles</u>	4,543	4,509	9,447
<u>Communications</u>	565	565	2,298
<u>Tenure</u>	470	384	632
<u>Legal</u>	-	-	-
<u>Equipment Use</u>	300	-	347
<u>Sundries</u>	503	493	1,541
<u>SUB-TOTAL</u>	\$75,830	\$70,925	\$145,708
<u>ADMINISTRATION</u>	11,358	10,639	22,801
<u>TOTALS</u>	\$87,188	\$81,564	\$168,509

APPENDIX 1

Petrological Descriptions by W. Fander M.Sc.
Central Mineralogical Services.

REPORT CMS 80/5/10

Petrological Descriptions

203 695B (T.S. 31696) K-stain positive.

This rock can be classified as an incipiently altered porphyritic Biotite micro-adamellite.

Weakly stressed and partly recrystallized quartz phenocrysts (to 3.5 mm) are thinly disseminated throughout with an incipiently banded distribution. The remainder of the rock consists of subprismatic microperthite, incipiently zoned oligoclase and granitic-textured quartz in approximately equal proportions, with a mean grain size of 600 μ . Accessories are thinly disseminated titaniferous biotite flakes (mean 300-350 μ), sub- to euhedral magnetite and rare zircon. There are subtle differences in feldspar proportions over areas of a few millimetres diameter, but gross composition is distinctly adamellite rather than granitic.

Sparse microfractures are evident with small displacements. Feldspars are incipiently stressed and incipiently kaolin-stained in response to weathering, but are otherwise essentially unaltered. Magnetite tends to be mantled with thin selvages of Fe-chlorite. Fractures are healed with quartz films carrying thinly disseminated chlorite flakes. Marginal to these features, feldspar grains are locally phlogopite-stained and biotite partly to completely chloritised.

203 696 (T.S. 31697) K-stain positive.

This is a stressed and partly recrystallized porphyritic biotite microgranite. The rock is clearly closely related to 203695B, but is relatively alkaline and reflects a slightly different cooling history.

Phenocrysts are abundant, comprising around 40 % of the rock, sized in the 1 to 5 mm range with a weakly banded distribution. Completely recrystallized quartz of weakly marginally resorbed inverted beta ("bipyramidal") habit is accompanied by stressed microperthite and subordinate, extensively sericitised plagioclase (?oligoclase). These features tend to be mantled with micrographic quartz-feldspar intergrowths and are embedded in a stressed/partly recrystallized granitic to micrographic-textured quartz-K-feldspar groundmass with accessory oligoclase, disseminated titaniferous biotite flakes and traces of magnetite. Minor accessory phases are zircon and extremely rare monazite.

Apart from sericitisation of phenocrystal plagioclase, alteration is incipient only with groundmass feldspars very weakly sericite-stained and biotite incipiently chloritised. Tectonic effects, however, are relatively marked.

203 697C (T.S. 31698) K-stain positive.

This rock is closely related to 203695B and 203696 and can be classified as a porphyritic biotite microgranite. The fabric is crudely gneissic and reflects shearing/recrystallization analogous to that in 203696, but slightly more marked in comparison.

Sporadic quartz phenocrysts are represented by crudely lenticular aggregates of polygonal quartz (to 3 mm x 7.5 mm) and these are accompanied by occasional stressed/partly recrystallized phenocrystal grains of perthite or, less commonly, oligoclase. The enclosing recrystallized groundmass shows a medium-grained (mean 250 μ) relict granitic fabric and consists largely of K-feldspar (orthoclase-microperthite) with slightly subordinate quartz and relatively minor oligoclase. Titaniferous biotite flakes are thinly disseminated throughout, along with accessory traces of magnetite and rare zircons. Recrystallization is most marked in the quartz and along feldspar grain boundaries where microscopic, subpolygonal, directed subgrains have developed.

Alteration is incipient only. Oligoclase is weakly, but pervasively, sericite-stained, but orthoclase and biotite are fresh despite the marked tectonic effects.

Compositionally, this rock is near-identical with 203696. In comparison, 203695B is slightly more basic, but may represent a local variation. All three rocks are characterised by fairly calcic oligoclase (about An 25) and the titaniferous mica. They are of adamellite to granitic composition rather than alkali granitic.

237 990 (T.S. 31714) K-stain positive.

This rock can be categorised as a greisened 'granite'. Primary composition is partly obscured by complete alteration of the plagioclase feldspar, which was present in roughly equal proportions with orthoclase microperthite (thus, adamellite or alkali granitic). Accessory

muscovitised biotite flakes are present and provide a probable link with 203695B, 203696 and 203697C.

The fabric is granitic with a mean grainsize about 1.5 mm. Frequent subprismatic feldspar phenocrysts range up to 7.5 mm diameter, with completely muscovitised plagioclase and relatively fresh orthoclase-perthite, with the perthite bodies preferentially sericitised. Muscovitised biotite flakes are outlined by "inherited" accessory zircon-inclusions and films of leucoxenitic TiO₂. Rarely, biotite is partly pseudomorphed by brown schorl in composite with muscovite. Alteration is typical of greisening in that the plagioclase and mica are initially preferentially altered.

The rock is very incipiently stressed. There is no evidence of sulphide despite weak semi-pervasive Fe-staining.

237 991A (T.S. 31715) K-stain positive.

This is an incipiently altered, weakly porphyritic biotite micro-adamellite with close affinities to 203695B, 203696 and 203697C.

Sparse prismatic oligoclase phenocrysts (to 2 mm) are accompanied by rare phenocrystal quartz grains (to 1 mm) of crudely banded distribution. These are embedded in a granitic-textured, medium-grained groundmass (mean 300 μ) of oligoclase, orthoclase and quartz in near-equant proportions. Accessories include sparse titaniferous biotite flakes, rare zircons and minor traces of magnetite. In addition, this rock includes sporadic, strongly poikilitic patches of green schorl which are of late-magmatic (i.e. primary) rather than replacive habit.

Feldspar proportions are slightly variable over areas of a few millimetres diameter (sim. 203695B). Feldspars are incipiently kaolin-stained in response to weathering, but otherwise unaltered. Biotite is very weakly muscovitised. The rock is essentially unstressed.

237 992A (T.S. 31716) K-stain positive.

This rock can be termed a mildly altered biotite granophyre. It consists largely of coarse-scale, subradiating to plumose K-feldspar with pervasive micrographic included quartz. Fine flakes of weakly titaniferous biotite are disseminated throughout. Minor traces of albite occur interstitially to the coarse, bladed orthoclase-quartz intergrowths.

The rock is crudely banded on a coarse scale with sporadic discontinuous films and lenses of coarser-grained granite. These consist of orthoclase and albite with subordinate quartz as graphic-textured inclusions and intergrowths and accessory biotite. Grainsizing is

021

064022

medium, but rather variable. Overall, this rock is distinctly alkaline in comparison with the associated granitoids and with a fabric indicative of rapid crystallization of felsic residuum.

Alteration is incipient only, with plagioclase very weakly sericite-stained and isolated biotite flakes partly chloritised. K-feldspar is incipiently kaolin-stained in response to weathering. There are no stress effects.

237 994A (T.S. 31717) K-stain negative.

This specimen is representative of a stressed to brecciated and locally granulated, quartz-healed and weakly restressed vein-quartz.

The sectioned area consists almost entirely of quartz of widely variable grain sizing and habit. The earlier generation is pinkish in hand specimen with more or less pervasive Fe-stained, accessory and included and intergranular mica (sericite, extremely fine phlogopite). This phase is granular to euhedral and locally very coarse-grained and growth-zoned. Tourmaline is a minor accessory phase.

Later generation quartz is relatively clear optically and is milky to faintly grey in hand specimen. Contacts between the two phases are typically vague and poorly resolved in thin-section.

Euhedral pyrite (mean 250 μ to 600 μ) is disseminated throughout the late-stage quartz aggregates. Minor fine-grained Cu-sulphide (? covellite after chalcopyrite) is associated, along with extremely rare clots of pale sphalerite. Rare pyrite-sphalerite boxworks are evident on the surface of the hand specimen.

237 996 (T.S. 31718) K-stain positive.

This is a pervasively sericitised and mildly weathered biotite aplite. It consists of quartz, orthoclase and completely sericitised, indeterminate plagioclase in approximately equal proportions, with thinly disseminated sericitised biotite flakes, minor accessory oxidised opaques and rare zircons.

The fabric is aplitic to locally granophyric. Mean grain size is 100 μ . There are thinly dispersed microphenocrysts of feldspar, or rarely quartz, up to 500 μ diameter (mean 250-300 μ).

K-feldspar is incipiently kaolinised in response to weathering, but unaltered. Sericitisation is pervasive, but entirely restricted to plagioclase and the biotite flakes. Alteration is of greisenizing character.

APPENDIX 2

Graphical Interpretation of
Ground Magnetic Traverses.

023

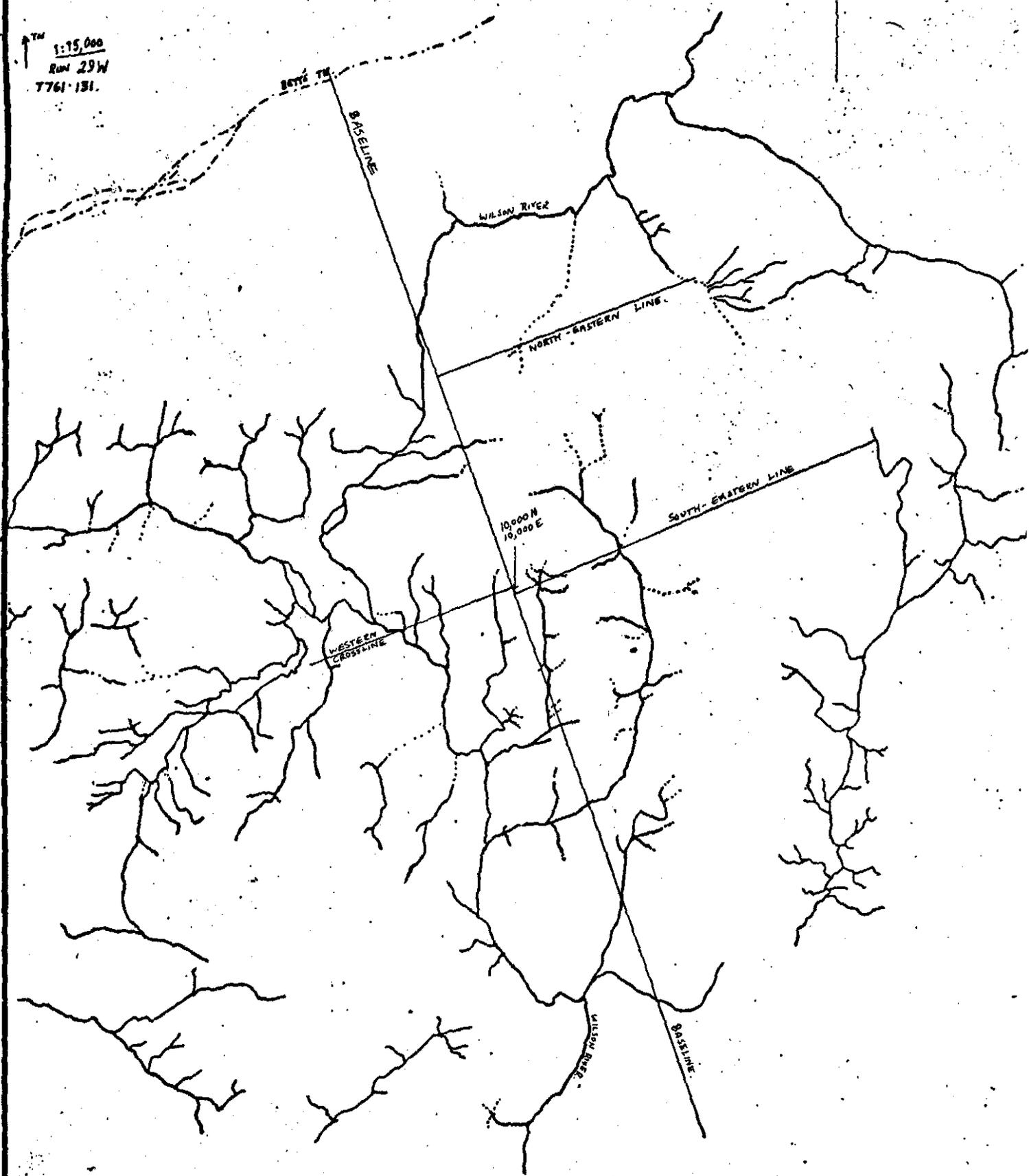
064024

5 cm

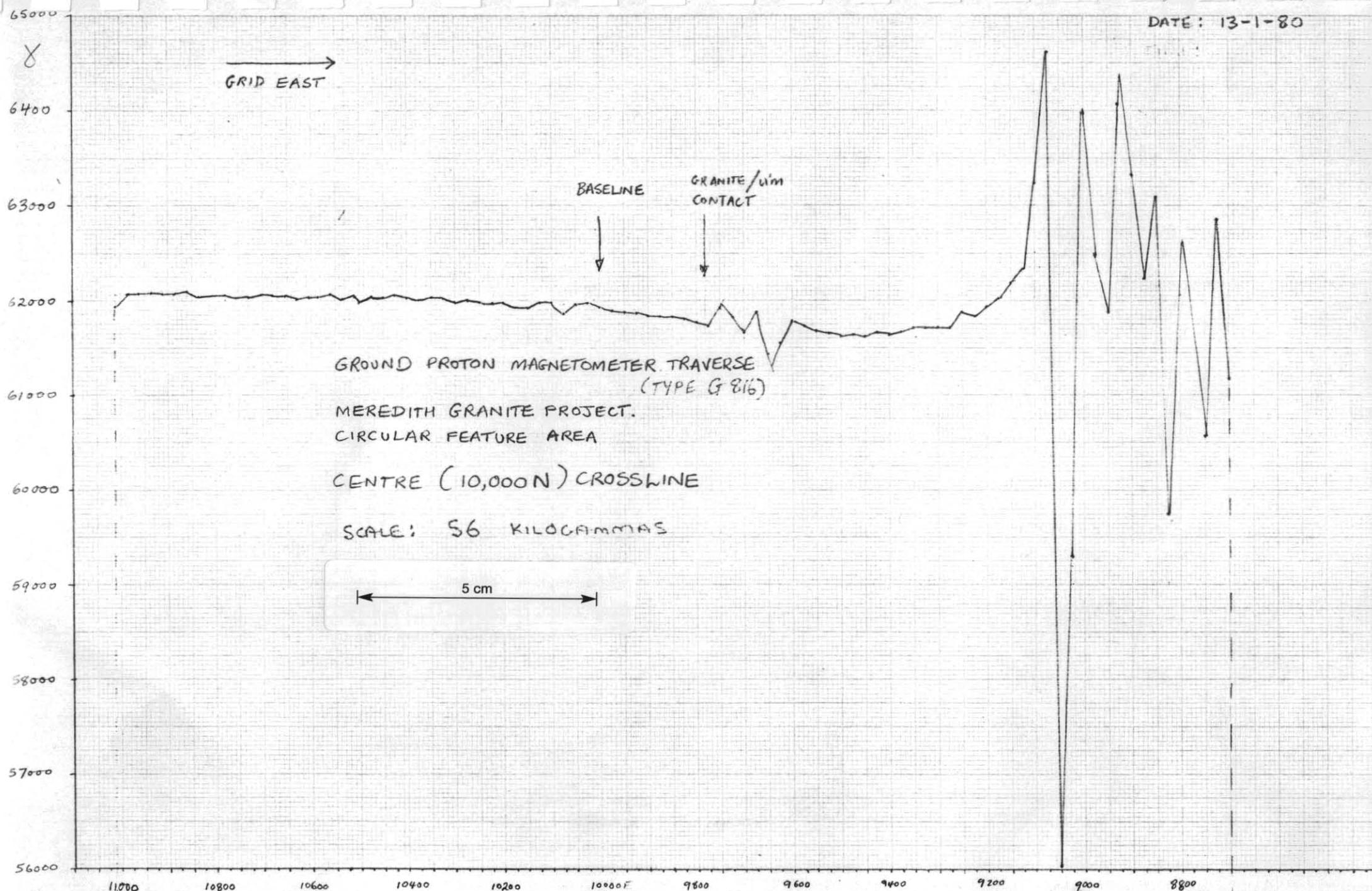
ACCESS LINE PLAN - CIRCULAR FEATURE.
SCALE 1:15,000.

TRUE NORTH

TM
1:15,000
Rund 29W
7761-131.



DATE: 13-1-80

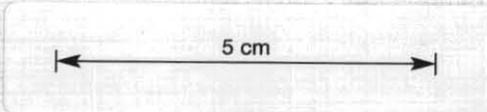


GROUND PROTON MAGNETOMETER TRAVERSE
(TYPE G 816)

MEREDITH GRANITE PROJECT.
CIRCULAR FEATURE AREA

CENTRE (10,000N) CROSSLINE

SCALE: 56 KILOGAMMAS



11010E 10000N
 EASTINGS (metres)
 Scale 1:10,000
 Station spacing 25m.
 064025
 8700E 10000N

65000

64000

63000

62000

61000

60000

59000

58000

57000

56000

DATE PERFORMED,
12-1-80

TIME: 5.50p.m. → 6.50p.m.

→
GRID EAST.

GROUND PROTON MAG. TRAVERSE (TYPE G 816)

MEREDITH GRANITE PROJECT
CIRCULAR FEATURE

NORTH-EAST (10707 N) CROSSLINE.

SCALE 56. KILOGRAMMAS.

10.000 E
10707 N

9800

9600

9400

9200

9000

8800

8600

9150 E
10200 N EASTINGS (metres)

scale 1:10,000
station spacing 25m

064026

5 cm

025

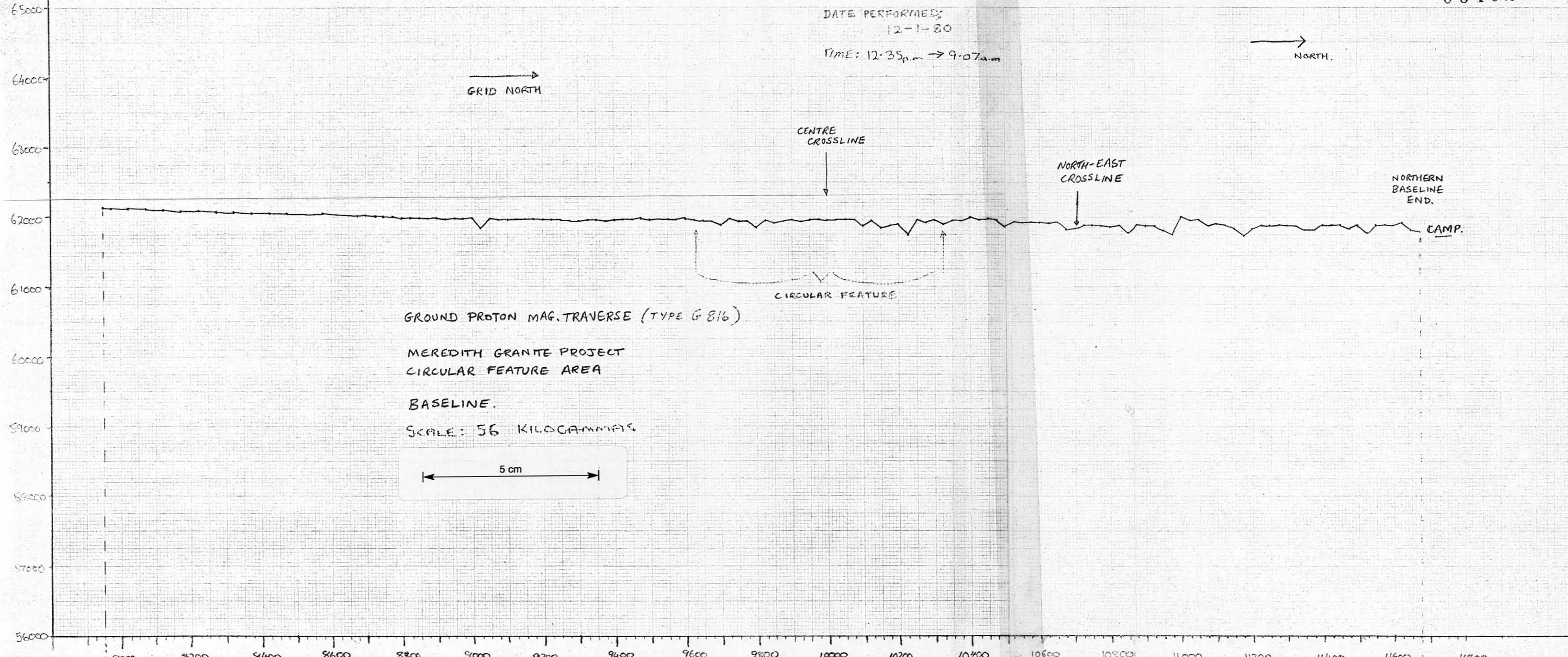
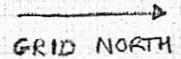
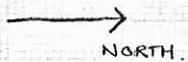
026

064027

DATE PERFORMED:

12-1-80

Time: 12:35pm → 9:07am

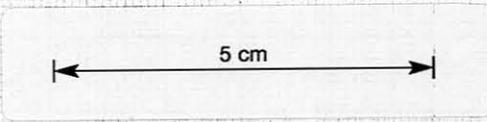


GROUND PROTON MAG. TRAVERSE (TYPE G 816)

MEREDITH GRANITE PROJECT
CIRCULAR FEATURE AREA

BASELINE.

SCALE: 56 KILOGAMMETS



NORTHINGS (metres) Station spacing 25m.
scale 1:10,000

11675 N
10000 E.

027

064028

APPENDIX 3

Location Maps and Assay Results for
Base-of-Slope Soil Samples.

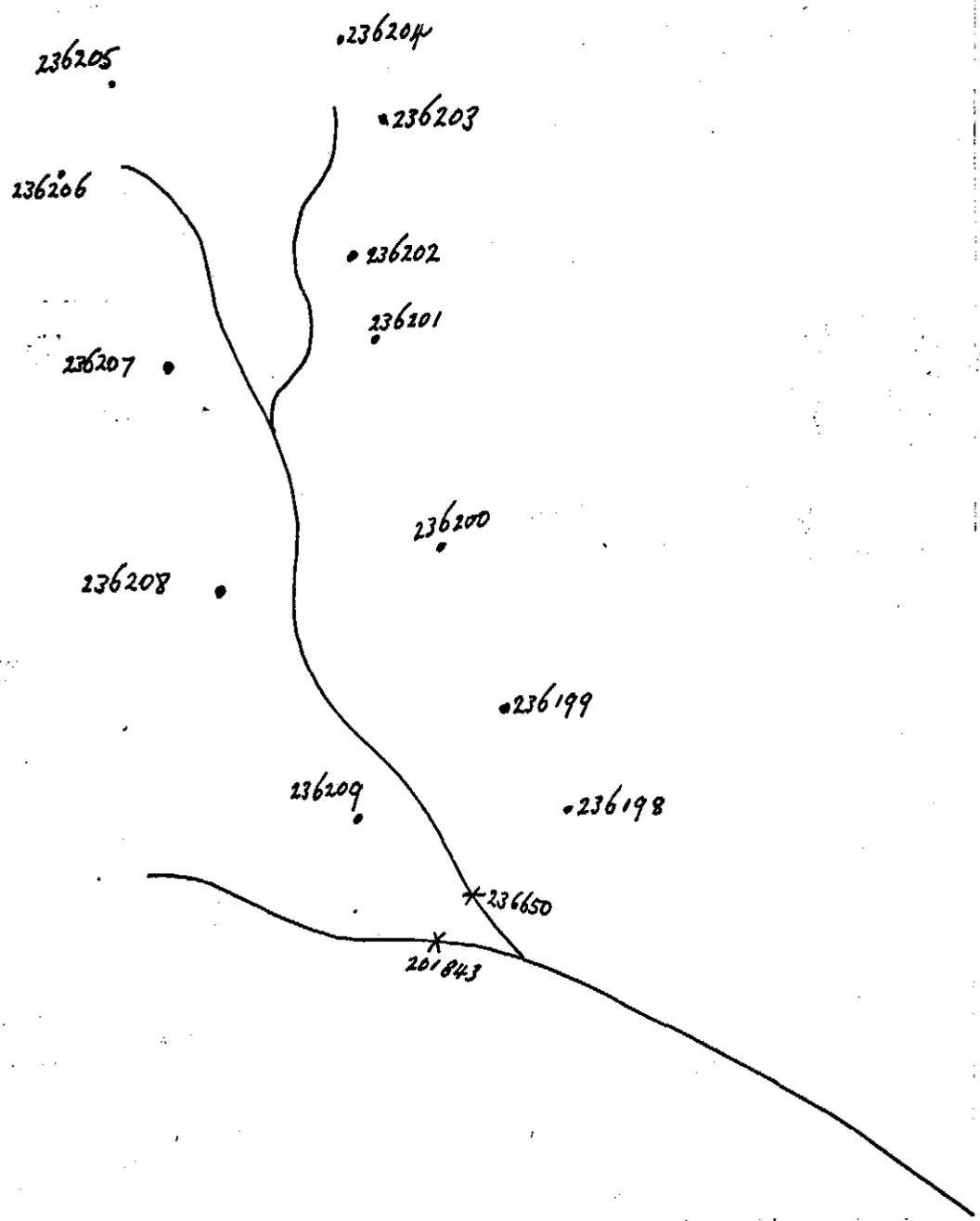
BASE OF SLOPE SOIL SAMPLES FOLLOW UP OF SSS 201843.

PROJECT MEREDITH CIRCULAR FEATURE

DATE 16-1-80

MAP REFS. 2000-300 N. 368-100 E.

MEA 9 363/400



030

064031

BASE OF SLOPE SOIL SAMPLING FOLLOW UP OF STRAY SEDIMENT

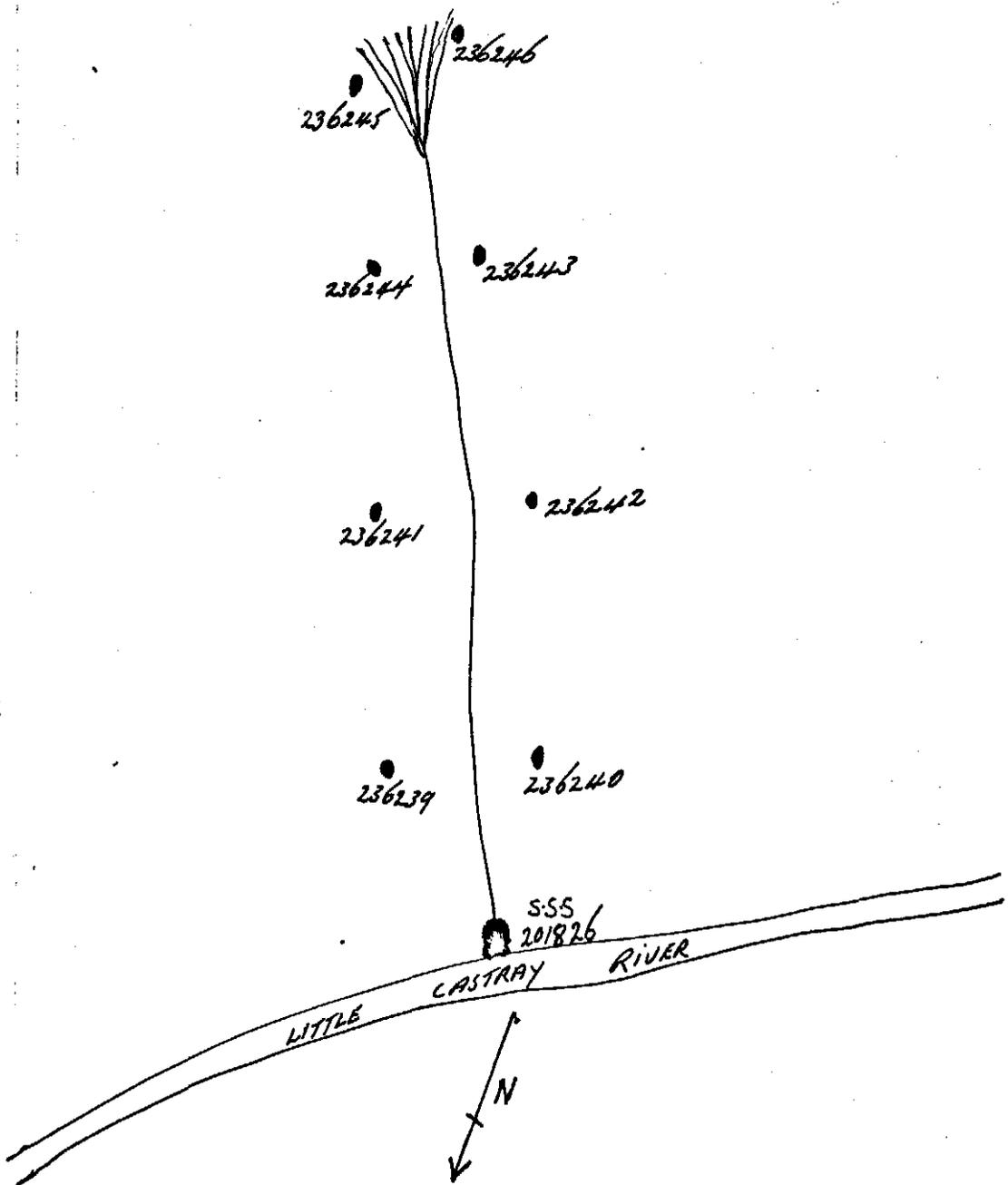
SAMPLE NO 201826

PROJECT MEREDITH GRANITE MT. STEWART

DATE 31-1-80

MAP REFS 5400-1000 N 360-300 E

355/400



032

064033

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO ANIMALS

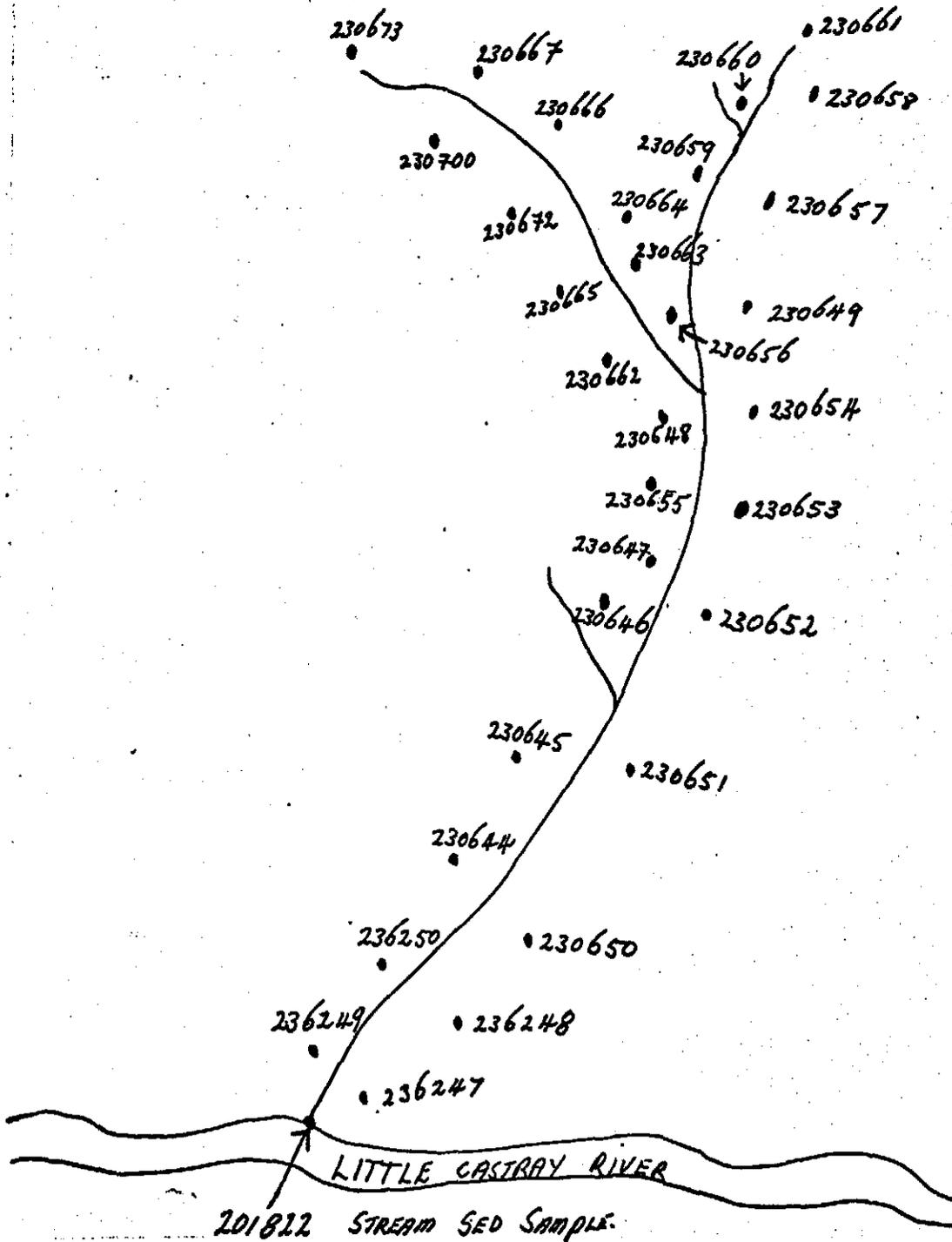
STREAM SED SAMPLE 201822

PROJECT MEREDITH GRANITE MT. STUART

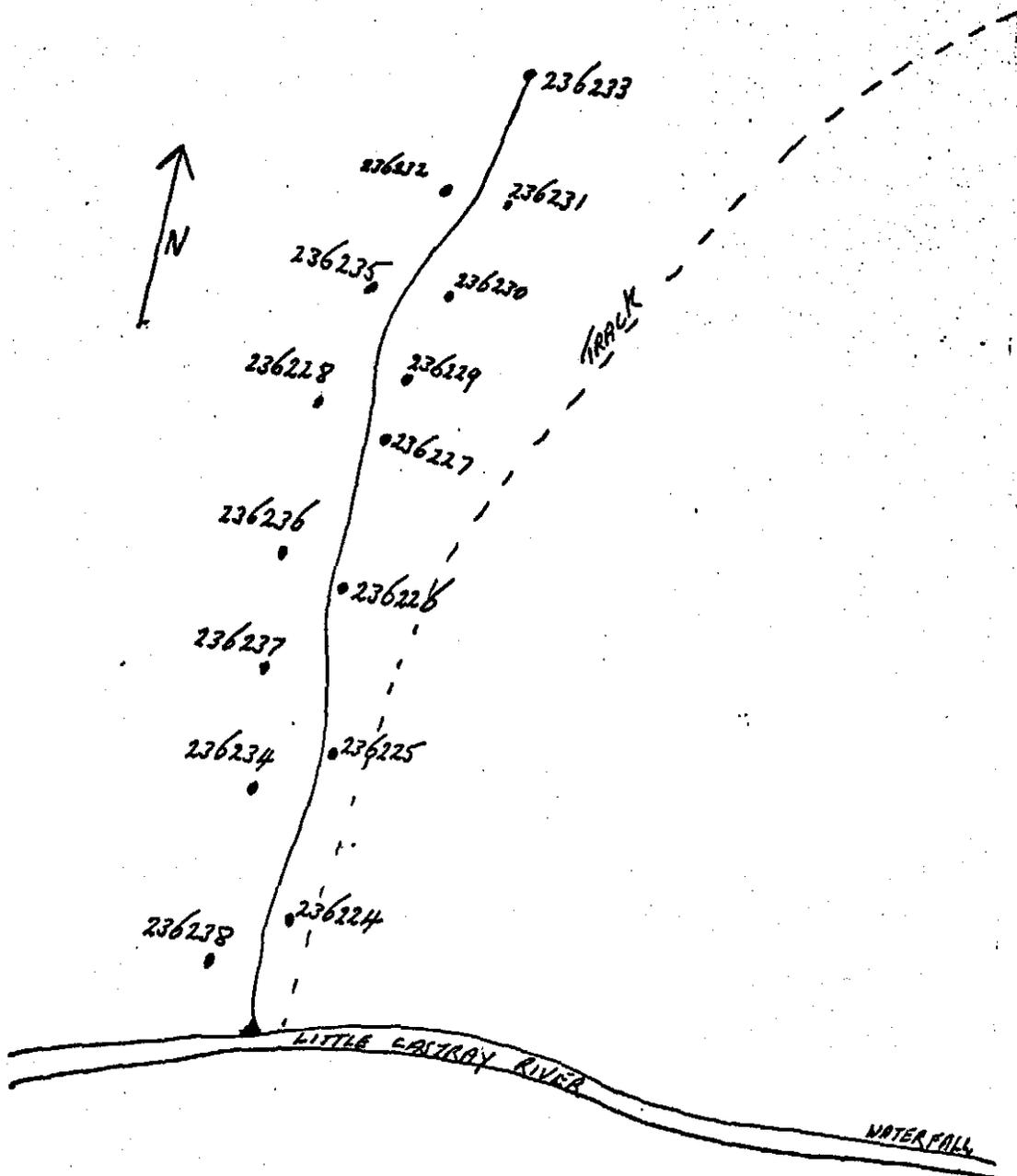
DATE 31-1-80

MAP REF'S 5400-0700 N 360-100 E

355/400



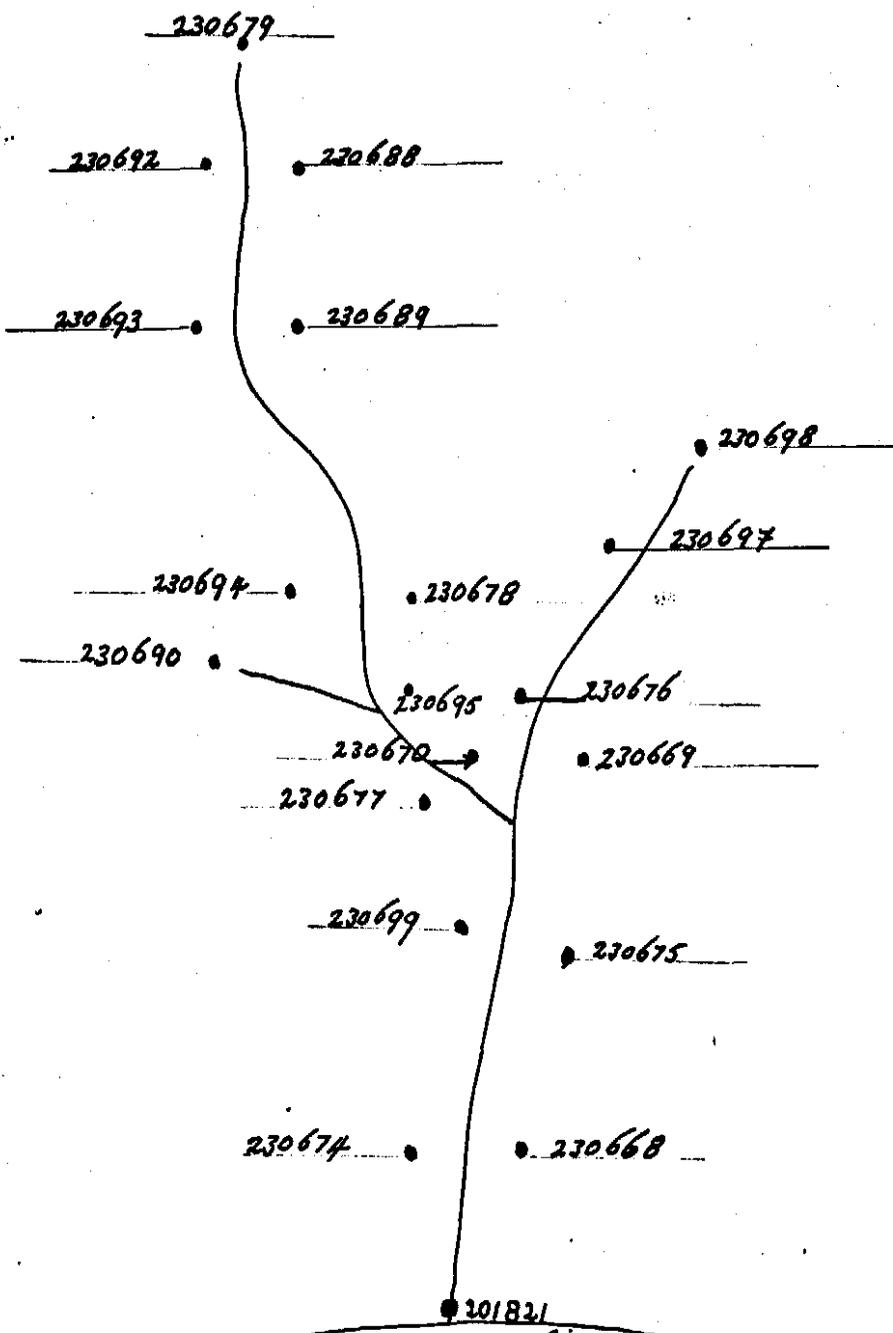
BASE OF SLOPE SOIL SAMPLING FROM ASSAYS OF SSS 201825
PROJECT MEREDITH GRANITE MT. STEWART.
DATE 31-1-80
MAP REFS. 5400-1000 N 360 - 400 E MGR 355/400



037

064038

BASE OF SLOPE SOIL SAMPLES. FOLLOW UP TO ANOMALOUS
 STREAM SEDIMENT SAMPLE N° 201821
 PROJECT MEREDITH GRANITE MT STEWART.
 DATE 1-2-80
 MAP REFERENCES. 5400-700 N 360-100 E 355/400

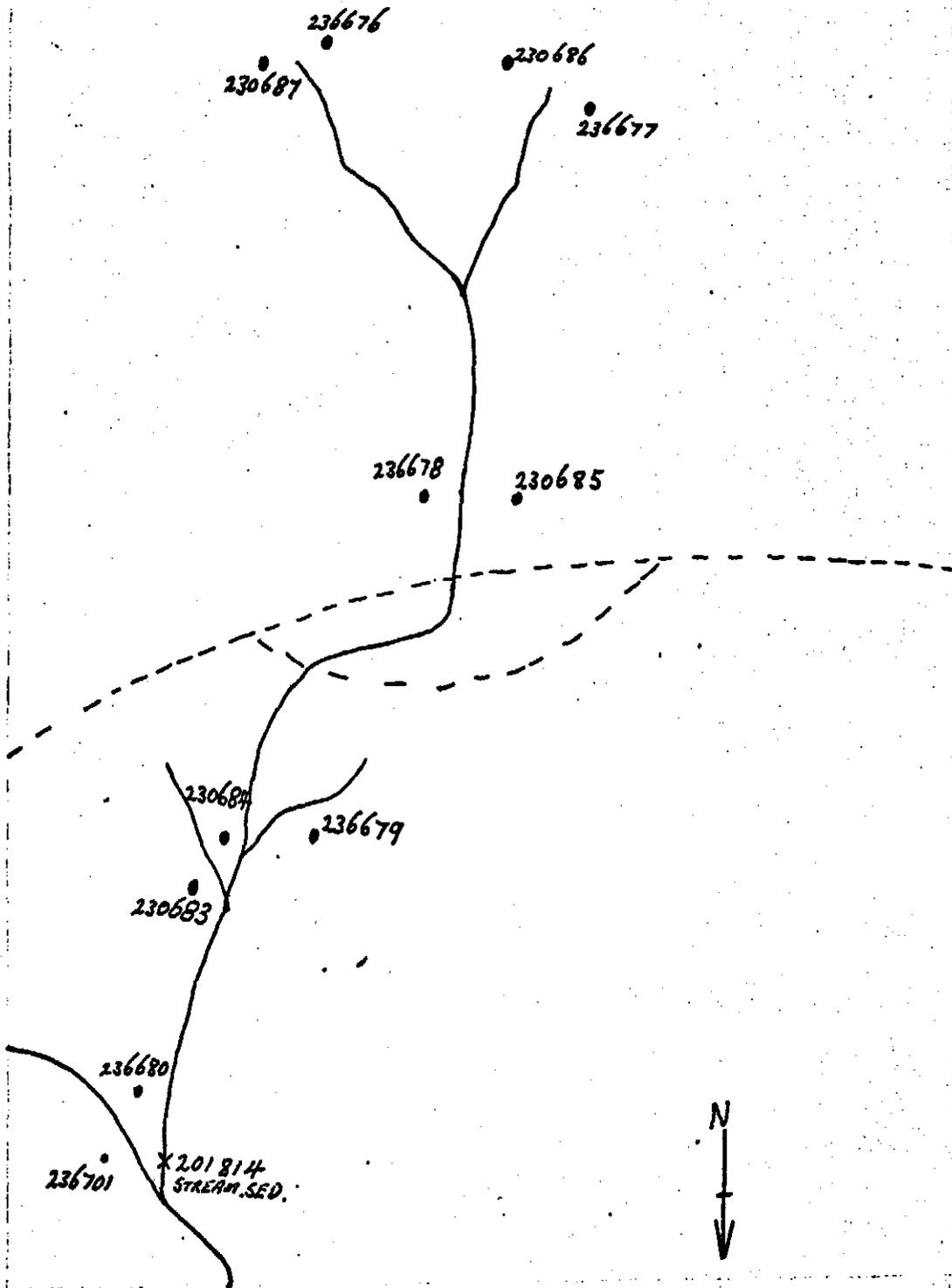


LITTLE CASTRAY RIVER

039

064040

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO ANOMALOUS STREAM
SEDIMENT SAMPLE NO 201814
PROJECT MEREDITH GRANITE MT STEWART
DATE 2-2-80
MAP REFERENCES 5400-300 N 359-500 E 355/400

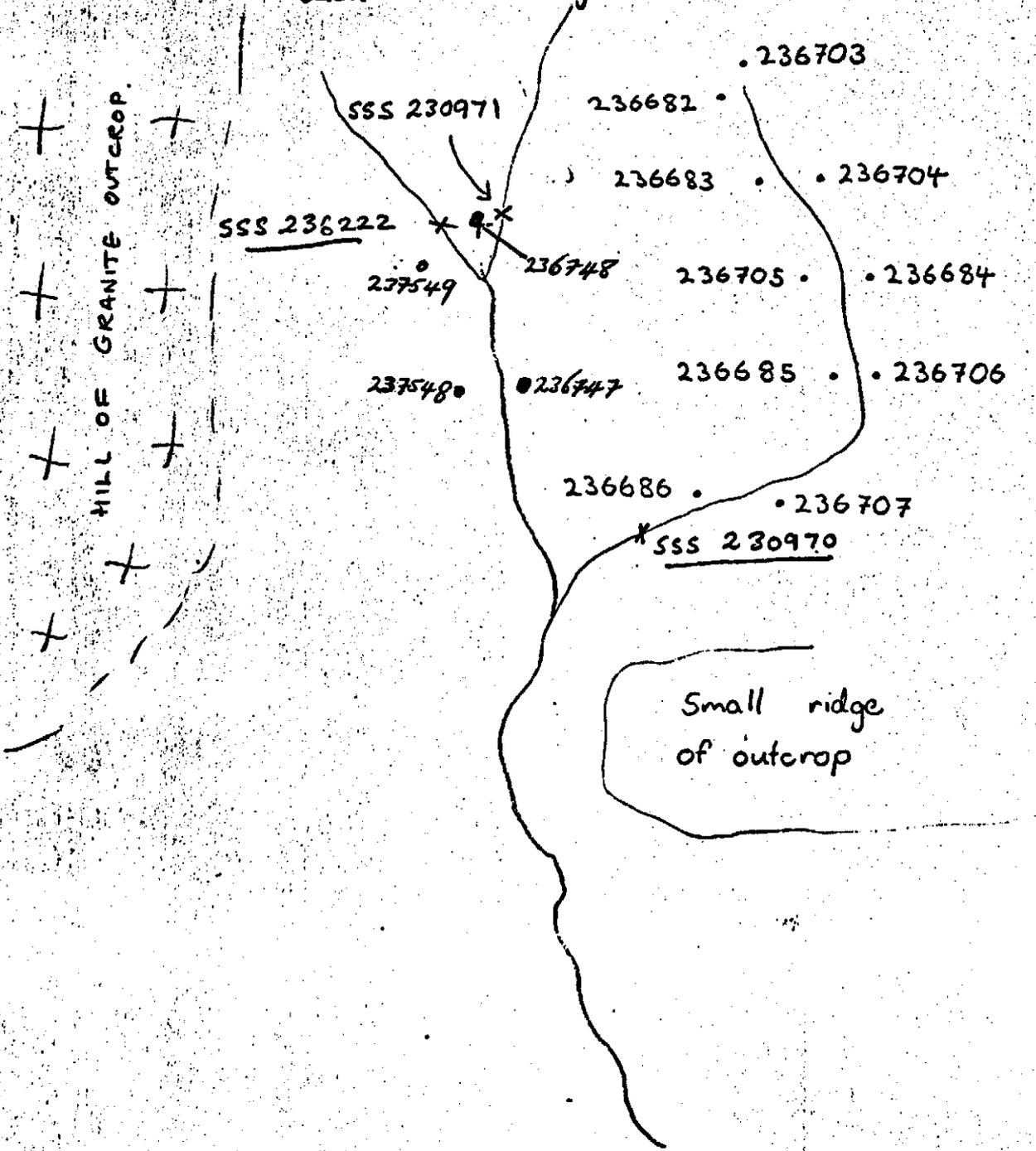


Follow up to S.S.S. 230970

Date :- 2-2-80

Project :- Meredith Granite, Mt Stewart Summer '80

Description :- Western fork of tributary of camp creek draining back of hill of granite outcrop.



Map Reference :- MER 355/400

5400500 N
359500 E

Abminco Exploration

PROJECT
*Mercerite granite
 Mt. St. Louis*

BSS SIEVE SIZE CODE - MESH NUMBER
 A 200 60 G 30
 B 150 E 60 H 20
 C 100 F 40
 T = TOTAL

SAMPL. TYPE CODE
 OXIDIZED PRODUCTS O
 FRESH ROCK R
 STREAM SEDIMENTS S

WEATHERED BEDROCK W
 SURFACE TRANSPORTED T
 RESIDUAL SOIL E
 MINE DUMP M

CARD PUNCH PRINT
 YES NO YES NO

VERIFY DATE SHEET
 2/2/80

EASTINGS										NORTHINGS										SAMPLE NUMBER	DEPTH C/S	SIZE FRACTION Type	METAL VALUES PPM										GEOLOGICAL LOG																																														
																							Sw	W	Cu	Pb	Zn																																																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
																				236703	75		10	<20	<5	50	10	yellow orange coarse soil with chips.																																																			
																				236682	60		<10	<20	<5	<10	25	pale grey granitic gravel and sand																																																			
																				236704	75		10	<20	<5	<10	10	coarse, orange soil																																																			
																				236683	100		10	20	<5	<10	45	coarse orange soil																																																			
																				236705	90		20	<20	<5	<10	30	grey-white granitic soil																																																			
																				236684	80		10	<20	<5	10	35	grey-white granitic soil. 500																																																			
																				236685	80		<10	<20	<5	<10	35	orange-granitic soil.																																																			
																				236706	90		15	20	<5	10	40	white-grey soil																																																			
																				236707	55		15	<20	5	<10	20	fine, light-brown orange soil.																																																			
																				236686	90		<10	20	<5	<10	10	white clay granitic soil																																																			

042

064043

PROJECT:
Meredith Granite
Mt Pleasant

BSS SIEVE SIZE CODE - MESH NUMBER
A 200 D 80 G 30
B 150 E 60 H 20
C 100 F 40
T = TOTAL

SAMPLE TYPE CODE
 OXIDIZED PRODUCTS O
 FRESH ROCK R
 STREAM SEDIMENTS S

WEATHERED BEDROCK W
 SURFACE TRANSPORTED T
 RESIDUAL SOIL E
 MINE DUMP M

CARD PUNCH PRINT
YES NO YES NO

VERIFY
DATE 25-2-80
SHEET

EASTINGS														NORTHINGS														SAMPLE NUMBER	DEPTH IN CM	SIZE FRACTION	Sample Type	METAL VALUES PPM														GEOLOGICAL LOG	
																																W	Cu	Pb	Zn												
																												236747	75	10	<20	S	10	5 light-brown, medium soil													
																												748	85	20	<20	10	20	15 dark-brown clay soil													
																												237548	50	10	<20	<5	10	25 light-brown medium soil													
																												549	49	<10	<20	<5	10	25 dk-brown clay soil													

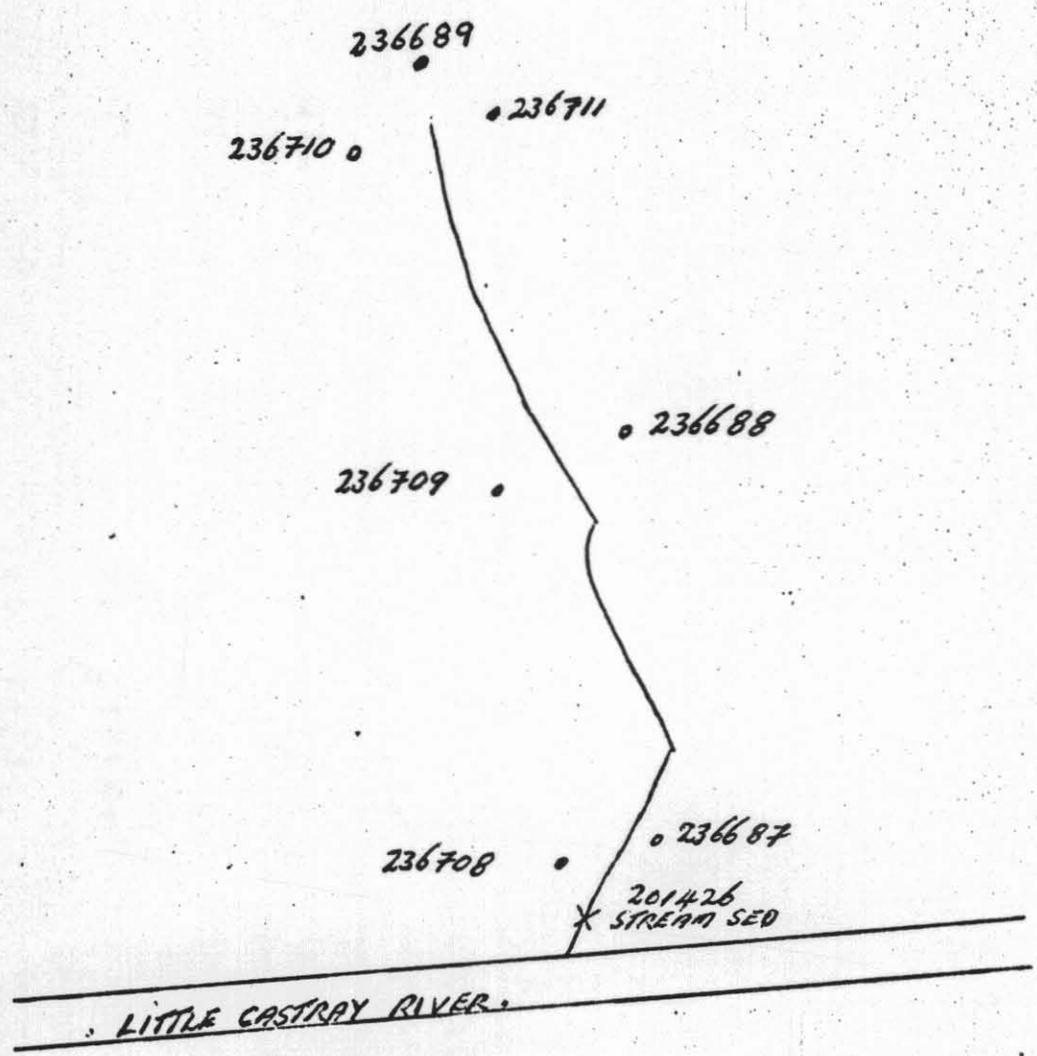
Soil samples taken east of intersection of roads and the camp creek. (near SSS 130970)

FOLLOW UP TO S.S.S. 201426

DATE 5-2-80

PROJECT MEREDITH GRANITE MT STEWART SUMMER 80

DESCRIPTION, BASE OF SLOPE SOIL SAMPLES TAKEN FROM ANOMALOUS STREAM SEDIMENT SAMPLE NO 201426



LITTLE CASTRAY RIVER

MAP. REFERENCE.

MER. 355/395
540.1200N
360.700 E.

046

064047

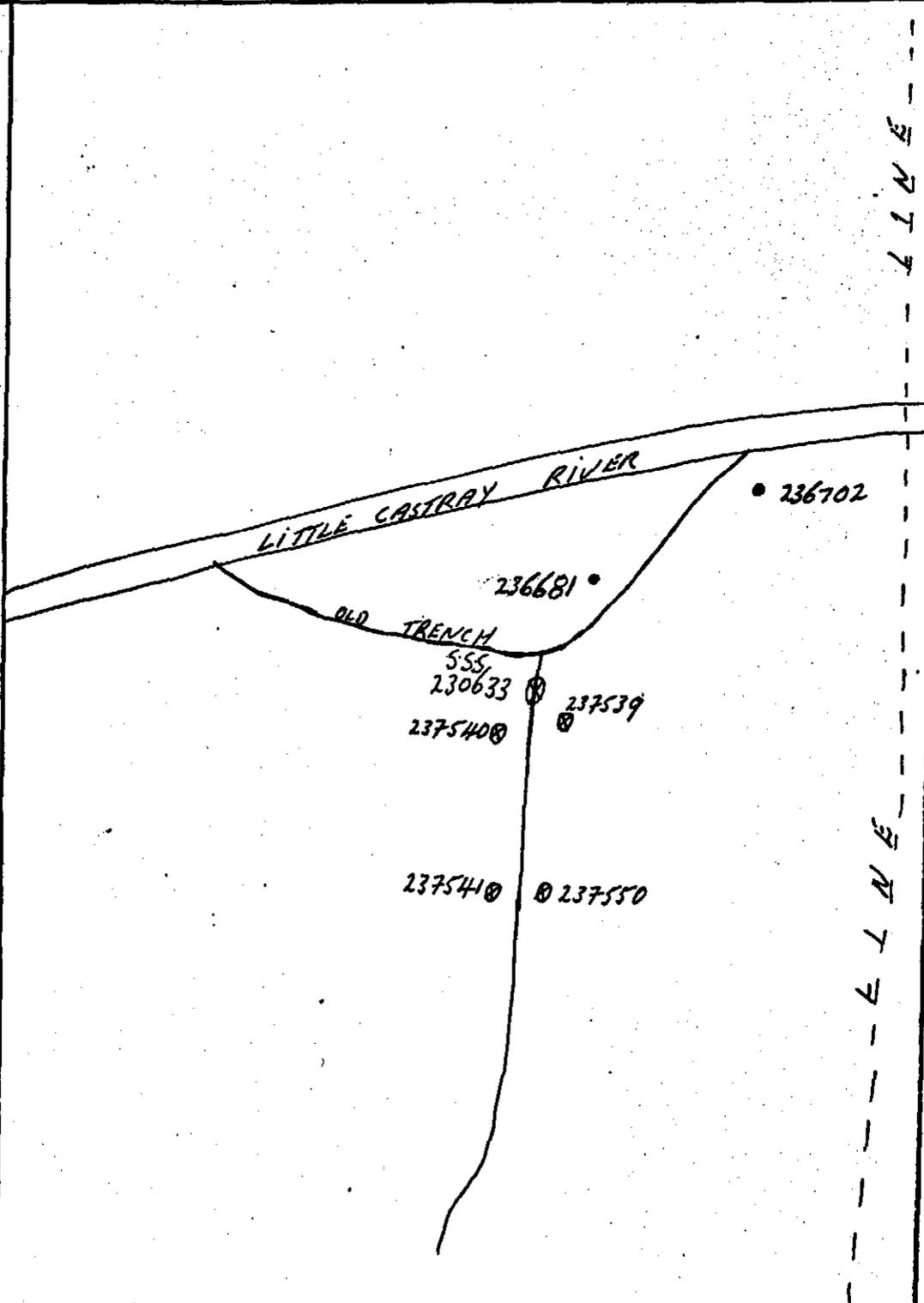
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM

SEDIMENT SAMPLE N° 230633

PROJECT MEREDITH GRANITE MT STEWART

DATE 7-2-80.

MAP REFERENCES 5395-9800 N 359-800 E 355/395



MINERAL SAMPLE LEDGER

048

PROJECT
*Medish Granite
 Mt. Smart.*

BSS SIEVE SIZE CODE - MESH NUM
 A 200 D 50 G 30
 B 150 E 80 H 20
 C 100 F 40
 T = TOTAL

ODE
 ACTS O WEATHERED BEDROCK
 R SURFACE TRANSPORTED
 S RESIDUAL SOIL
 MINE DUMP
 FRESH ROCK
 STREAM SEDIMENTS

ICM PRINT NO YES
 VERIFY NO YES
 DATE *2/2/80*
 SHEET

EASTINGS							NORTHINGS							SAMPLE NUMBER				DEPTH IN CMS				SIZE FRACTION				Sample Type	Sh	METAL VALUES PPM																GEOLOGICAL LOG																																																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	W	Cu	Pb	Zn																
															236702				65					30																	10 grey-brown fine clay.																																																										
															236681				50					15																	75 grey-granitic gravel.																																																										

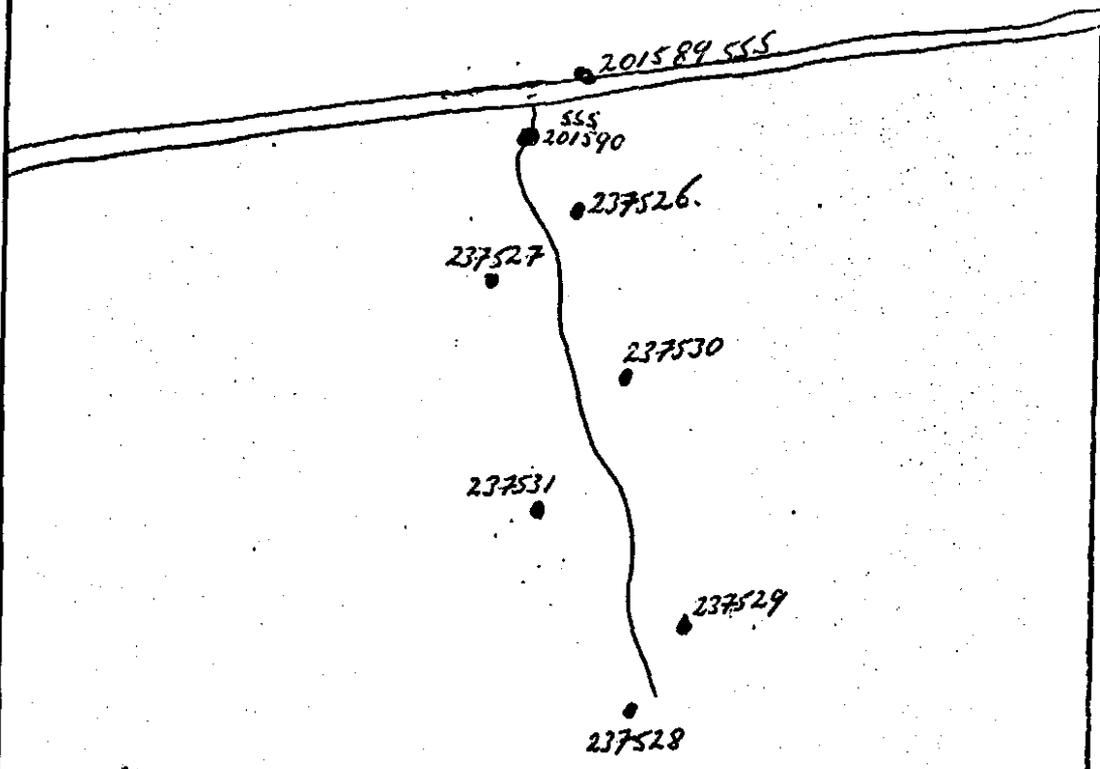
Base of slope soil sampling
 (- according to creek with stream number 230673)

064049

049

064050

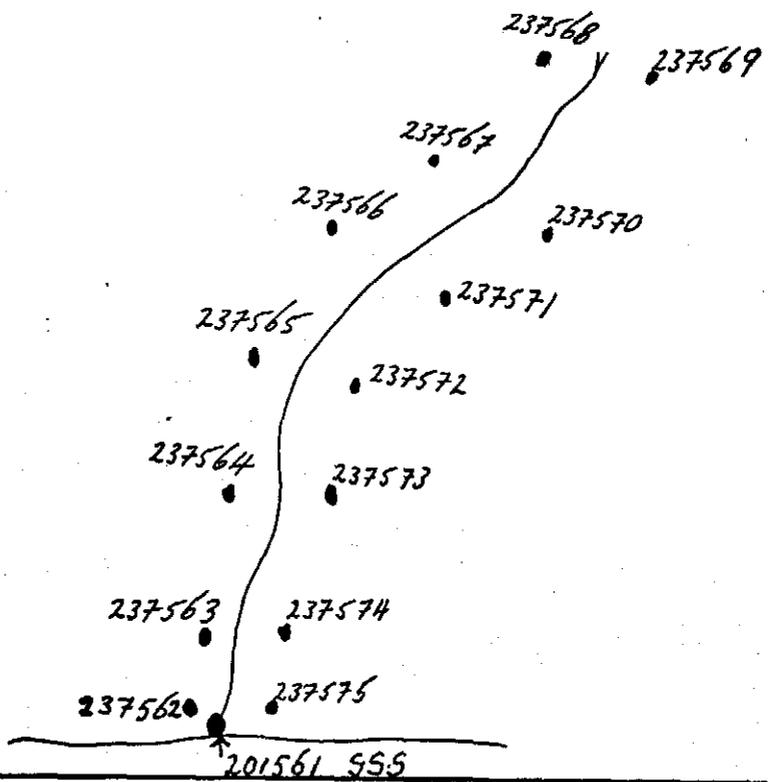
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201590
PROJECT MEREDITH GRANITE MT STEWART
DATE 7-2-80
MAP REFERENCES 5400-400 N 361-300 E 355/400



051

064052

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE NO. 201561
PROJECT MEREDITH GRANITE MT STEWART
DATE 7-2-80
MAP REFERENCES 5395/ 9100 N 361-600 E 355/395



PROJECT
*Wheechuk Granite
MT Shant*

BSS SIEVE SIZE CODE - MESH NUMBER
A 200 D 60 G 30
B 150 E 60 H 20
C 100 F 40
T = TOTAL

SAMPLE TYPE CODE
 OXIDIZED PRODUCTS O
 FRESH ROCK R
 STREAM SEDIMENTS S
 WEATHERED BEDROCK W
 SURFACE TRANSPORTED T
 RESIDUAL SOIL E
 MINE DUMP M

CARD PUNCH PRINT VERIFY DATE SHEET
YES NO YES NO

7/2/80

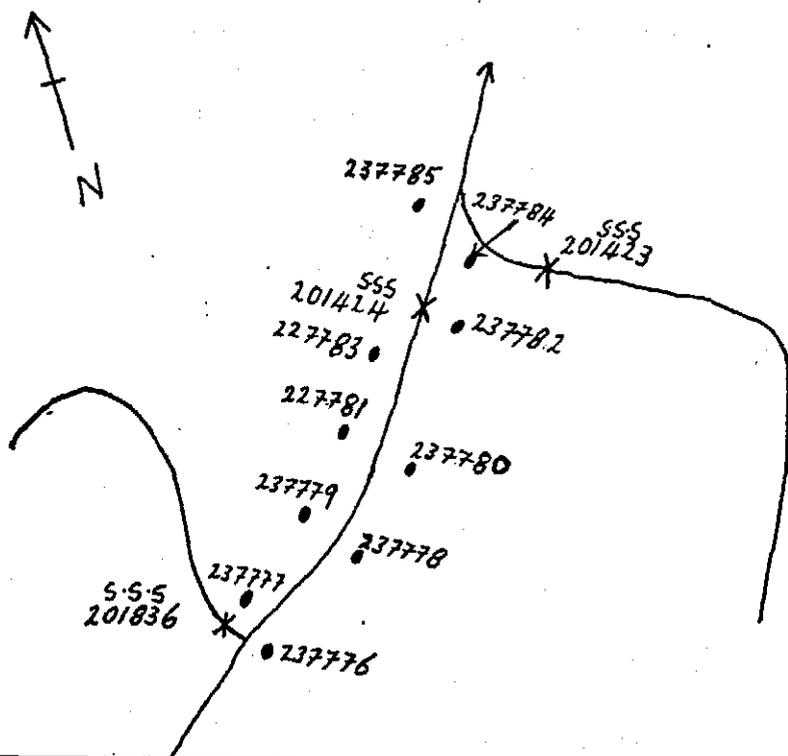
EASTINGS							NORTHINGS							SAMPLE NUMBER				DEPTH IN CMS				SIZE FRACTION				METAL VALUES PPM				GEOLOGICAL LOG																																																	
														Sample Type				Su				W				Cu				Pb				Zn																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
														23	75	62					70												<10			<20			<5			<10			15			brown clay/sand																															
														63							70												10			<20			<5			<10			15			-																															
														64							75												10			<20			<5			<10			15			-																															
														65							80												10			<20			<5			<10			15			-																															
														66							100												<10			<20			<5			<10			35			-																															
														67							90												15			<20			<5			<10			15			-																															
														68							70												<10			<20			5			<10			5			-																															
														69							70												<10			<20			5			<10			25			Red, brown clay soil and muskivite / talc flake																															
														23	75	70					95												10			<20			5			<10			5			brown clay soil/sand																															
														71							100												<10			<20			<5			<10			15			-																															
														72							80												<10			<20			<5			<10			20			-																															
														73							50												10			<20			<5			<10			5			granitic sand																															
														74							45												10			<20			<5			<10			5			light brown clay/sand																															
														75							60												10			<20			<5			<10			15			light brown clay/silt																															

Base of slope soil samples taken about the incision stream-bed sample No 201561

053

064054

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201836
PROJECT MEREDITH GRANITE MT STEWART.
DATE 7-2-80
MAP REFERENCES 5400-900 N 360-700 E 355/400



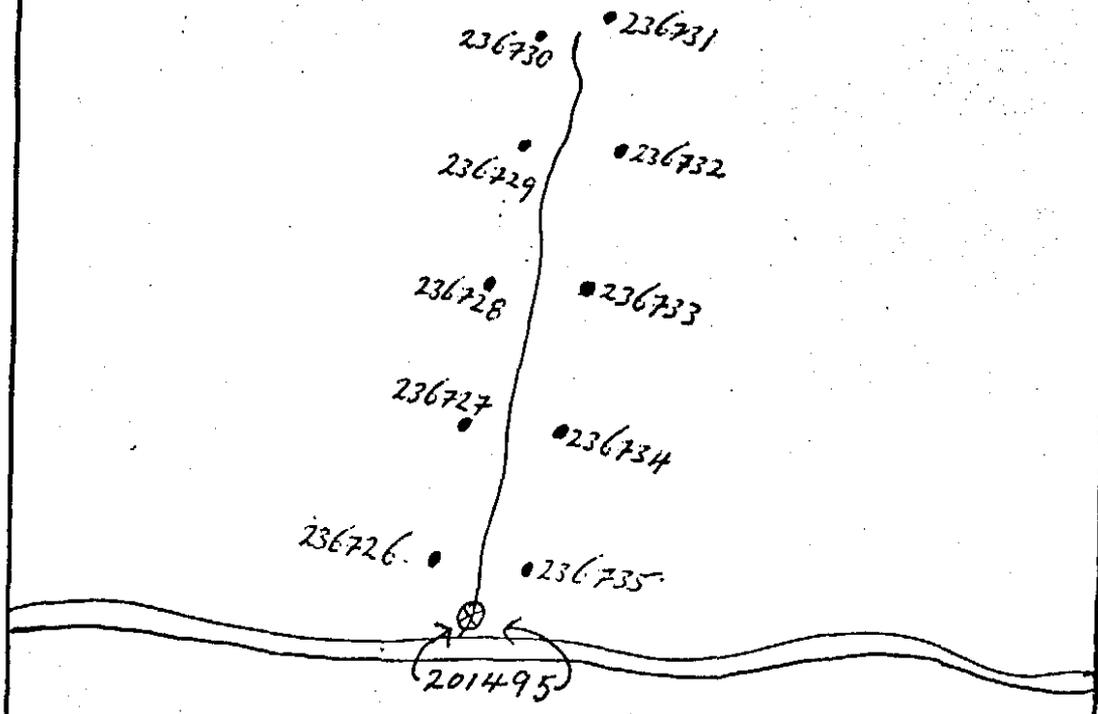
PROJECT <i>Meredith Granite MKS Grant</i>	BSS SIEVE SIZE CODE - MESH NUMBER A 200 <u>0.75</u> G 30 B 150 E 60 H 20 C 100 F 40 T * TOTAL	SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S	<input checked="" type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE DUMP M	CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/>	VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE 7/2/80	SHEET
--------------------------------------------------	-----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	----------------	-------

EASTINGS														NORTHINGS														SAMPLE NUMBER				DEPTH IN CMS				SIZE FRACTION	Type	Sn	METAL VALUES PPM																GEOLOGICAL LOG																								
																																						W				Cu				Pb				Zn																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
																												237770				65						10	<20				<5				<10				15				brown medium soil, orange chips.																								
																												77				75						10	20				<5				<10				10				granitic grey with black brown, white chips.																								
																												78				100						10	<20				<5				<10				5				white-greyish blue clay soil, with chips.																								
																												79				65						<10	20				<5				<10				15				granitic grey soil, chips.																								
																												80				100						<10	<20				<5				<10				15				grey-brown clay soil.																								
																												81				60						<10	<20				<5				<10				20				granitic grey soil.																								
																												82				85						<10	<20				<5				<10				15				granitic grey soil with white chips.																								
																												83				70						10	20				<5				<10				15				orange-brown, medium soil.																								
																												84				80						10	20				<5				<10				5				orange-brown med soil.																								
																												85				65						<10	20				<5				<10				10				granitic grey soil.																								

Base of slope soil sampling when anamolous overburden - see sample # 201836

6.

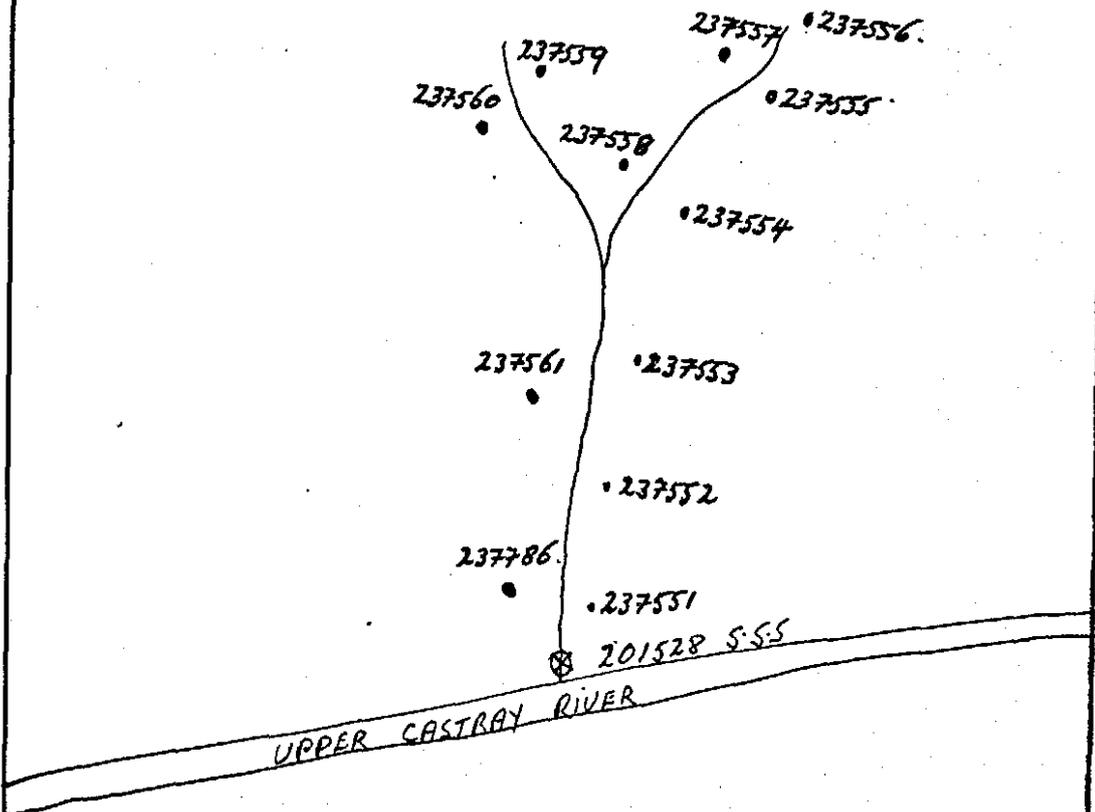
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE NO. 201495
PROJECT MEREDITH GRANITE MT STEWART
DATE 16-2-80
MAP REFERENCES 5400-600 N 363-100 E 363/400



057

064058

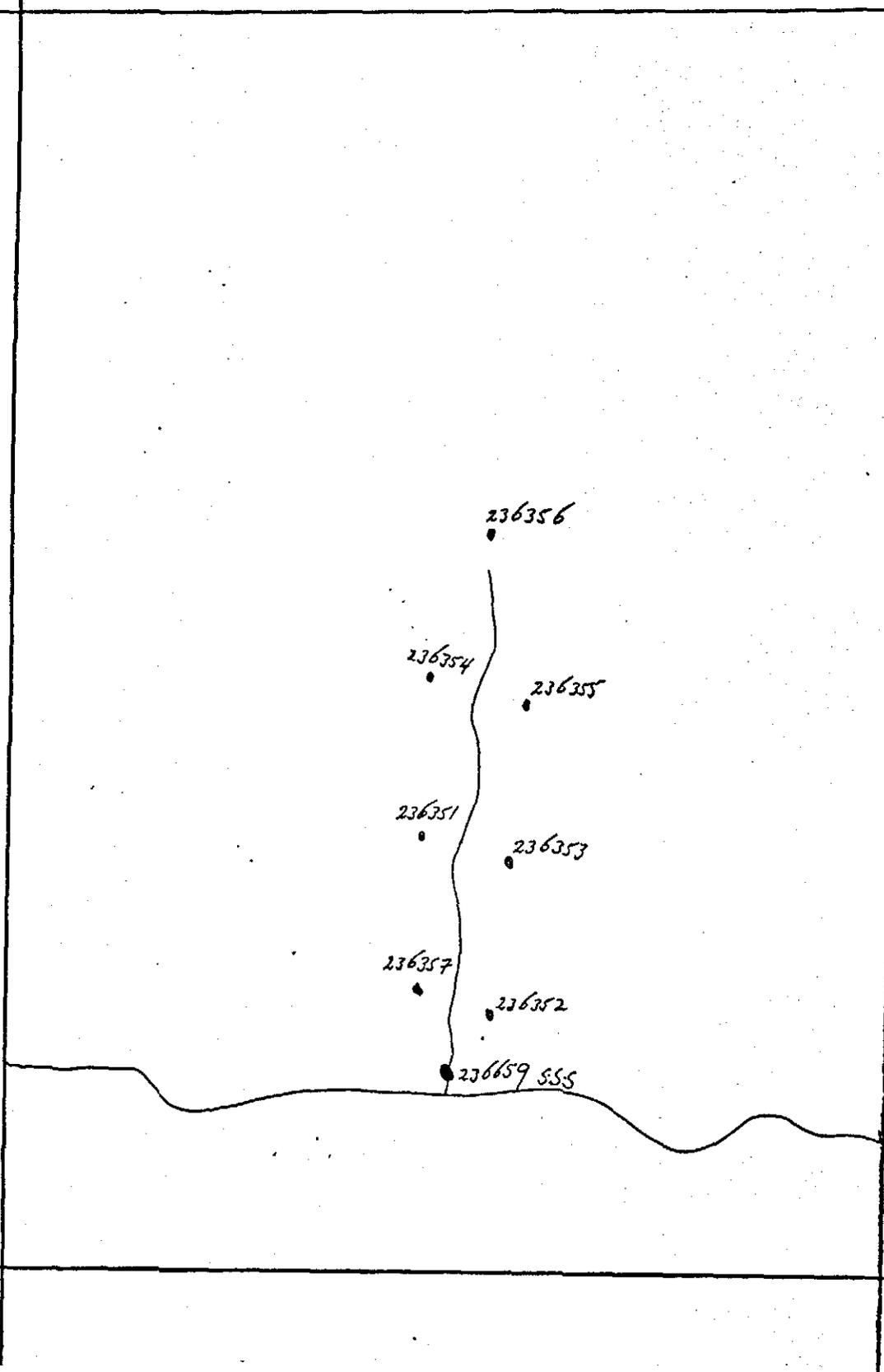
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201528
PROJECT MEREDITH GRANITE AT STEWART
DATE 17-2-80
MAP REFERENCES 5400-300N 363-100E 363/400



059

064060

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE NO. 236659
PROJECT MEREDITH GRANITE MT STEWART
DATE 19-2-80
MAP REFERENCES 5400-1400 N 361-100 E 355/1100



PROJECT: *Wendish Granite*
W. Stewart

USP: 100 200 400 600 800 1000

SIEVE SIZE CODE: 10 20 40 60 80 100

ANALYSIS: ORGANIC PRODUCTS TOXICITY METALS ACIDITY PHOSPHORUS NITROGEN SULFUR CHLORINE FLUORINE BORON COBALT MANGANESE ZINC CADMIUM LEAD CHROMIUM COPPER NICKEL SILICON ALUMINUM IRON SODIUM POTASSIUM CALCIUM MAGNESIUM PHOSPHORUS NITROGEN SULFUR CHLORINE FLUORINE BORON COBALT MANGANESE ZINC CADMIUM LEAD CHROMIUM COPPER NICKEL SILICON ALUMINUM IRON SODIUM POTASSIUM CALCIUM MAGNESIUM

DATE: *1/4/80*

SHEET: _____

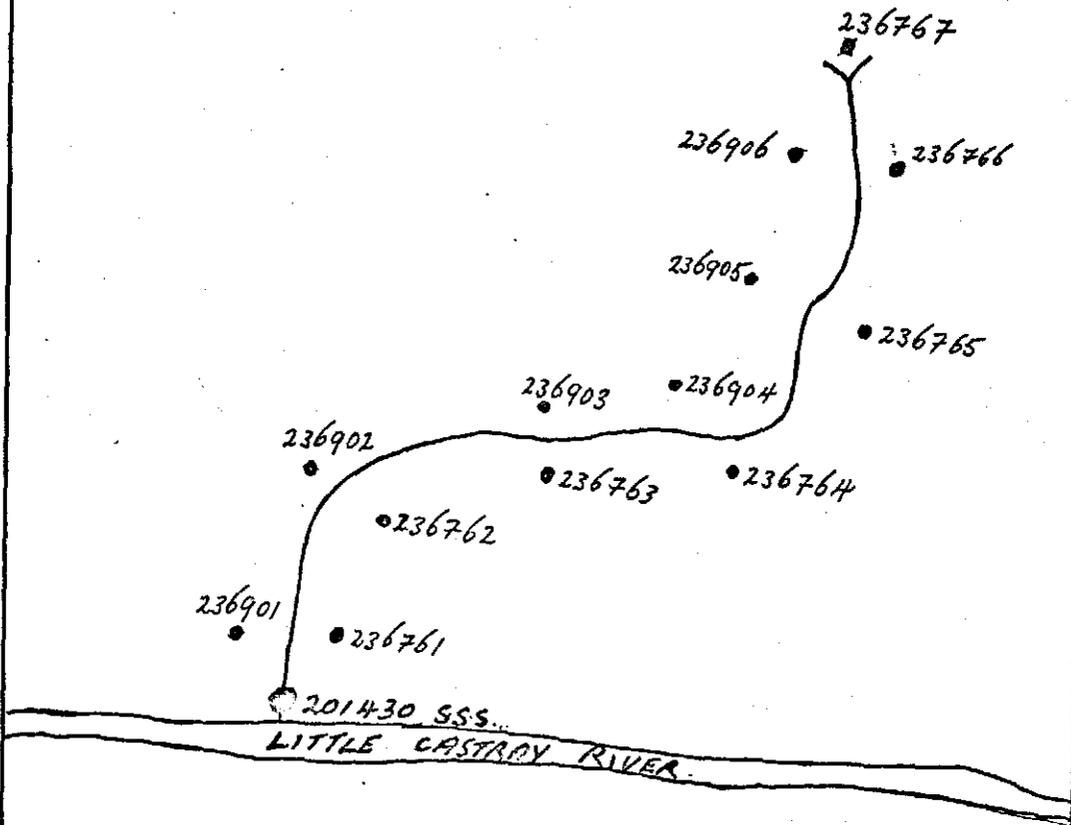
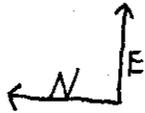
EASTING	NORTHING	SAMPLE NUMBER	DEPTH (m)	ELEMENTS (%)				REMARKS
				Si	W	Ca	Mg	
		236351	75	<10	20	10	20	80 whitish med-fine soil, with black chips
		236352	85	1100	190	120	60	160 yellow orange clay soil.
		236353	90	160	280	220	40	480 med-green clay, small chips also some white clay
<i>low</i>		236354	100	45	240	5	20	30 pale green, white clay soil.
		236355	100	80	20	35	200	120 whitish-yellow clay.
		236356	95	25	20	5	20	30 rusty-red med soil
		236357	55	<10	<20	5	20	20 orange-red clay soil, chips

Base of claystone - sampling below the stream bed sample # 236659.

061

064062

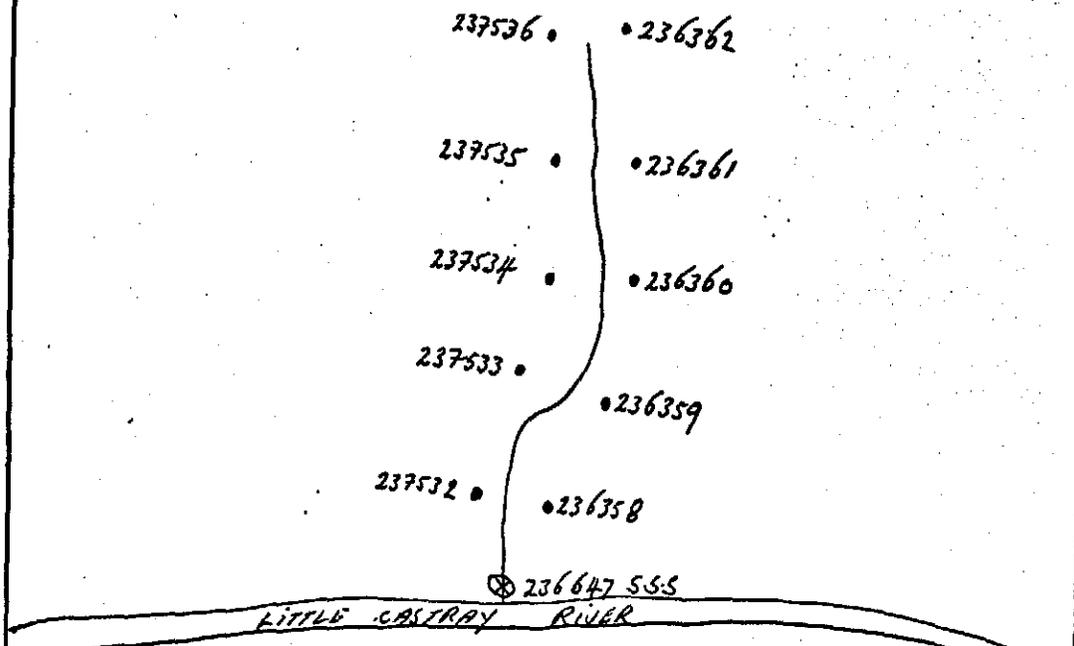
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201430
PROJECT MEREDITH GRANITE MT STEWART
DATE 20-2-80
MAP REFERENCES SP001500N 360-170E 355/400



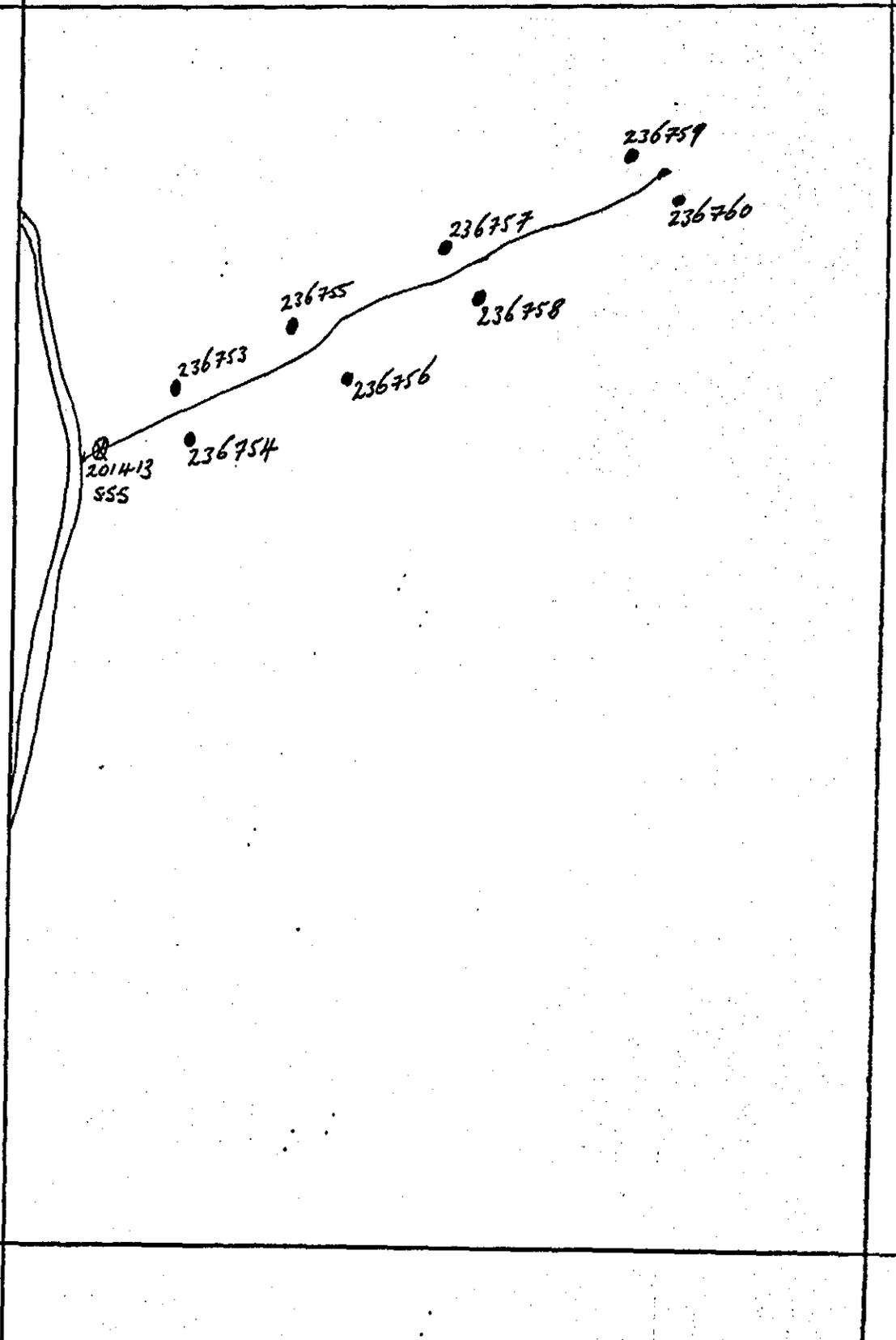
063

064064

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 236647
PROJECT MEREDITH GRANITE MT STEWART
DATE 20-2-80
MAP REFERENCES 5400-1400 N 360-700 E 355/400



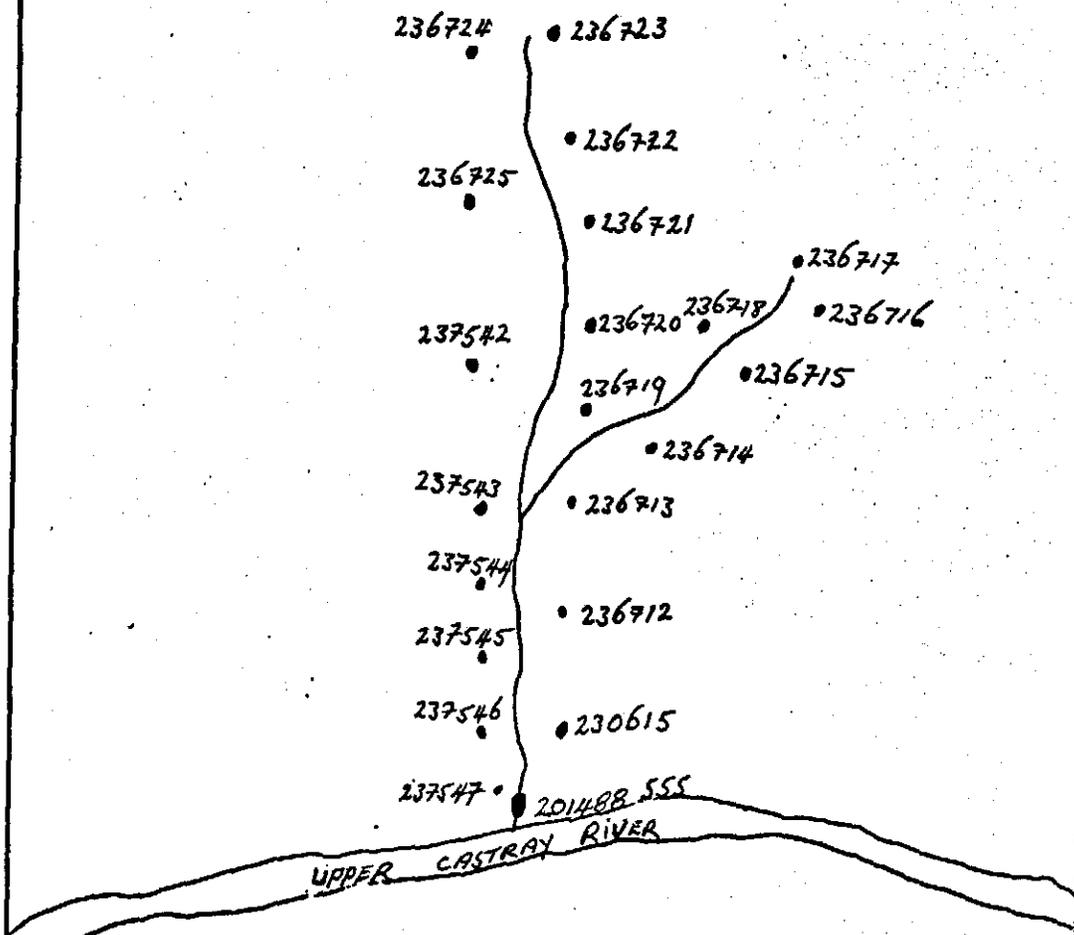
BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201413
PROJECT MEREDITH GRANITE MT STEWART
DATE 20-2-80
MAP REFERENCES 5400-1800N 361-800 E 355/400



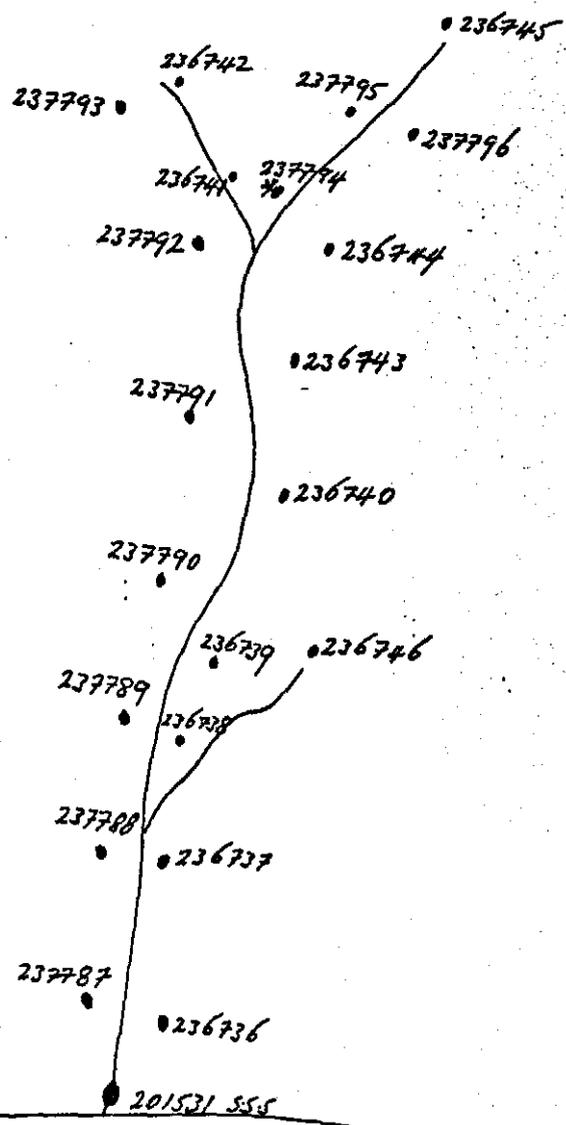
067

064068

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201488
PROJECT MEREDITH GRANITE. MT STEWART
DATE 20-2-80
MAP REFERENCES 5400-1300 N 363-000 E 363/400



BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
SEDIMENT SAMPLE N° 201531
PROJECT MEREDITH GRANITE MT STUART
DATE 21-2-80
MAP REFERENCES 5340-5700 N 362-100 E 355/545



WESTERN FORK OF HEADWATERS OF CASTRAY RIVER

Meredith Granite
Stewart.

21/2/80

070

FASTEN	NO. THICK	ESL	Su	W	Cu	Pb	Fu ² ?	DESCRIPTION
BASE OF SLOPE FOLLOW UP OF SSS	237787	100	<10	<20	20	10		15 brown, grey - medium soil
	88	80	10	<20	5	20		10 red clay & rock soil.
	89	80	<10	<20	5	30		15 green, grey clay soil.
	90	55	20	<20	<5	20		15 orange, red clay soil.
	91	95	25	<20	5	20		25 yellow, orange medium soil
	92	90	<10	<20	5	10		5 brown, grey, orange medium
	93	100	<10	<20	<5	10		20 grey, sandy, clay soil.
	94	75	<10	<20	<5	20		20 orange, red fine-medium soil.
	95	55	15	<20	<5	20		30 yellow, orange fine soil.
	96	100	10	20	5	<10		15 brown granite soil.
201531 Cont.	236736	100	<10	20	5	10		25 BROWN GREY MEDIUM SOIL
	37	95	<10	<20	<5	10		10 PALE YELLOW ORANGE RED CLAY
	36	45	10	<20	<5	40		15 ORANGE RED YELLOW CLAY SOIL
	39	85	<10	<20	<5	10		10 ORANGE RED CLAY SOIL
	40	65	10	<20	5	10		5 YELLOW ORANGE CLAY SOIL
	41	75	<10	<20	5	20		10 ORANGE RED BROWN CLAY SOIL
	42	65	<10	<20	5	10		5 GREY BROWN CLAY SOIL.
	43	70	10	<20	5	20		15 ORANGE CLAY MEDIUM SOIL
	44	55	10	20	5	10		5 ORANGE BROWN COARSE GRAVEL
	45	100	10	20	10	10		30 WHITISH GRAVEL & DARK CLAY
	236746	15	10	<20	10	10		10 WEATHERED GRANITE (GREY) WHITE

OPERATOR

CONTRACT

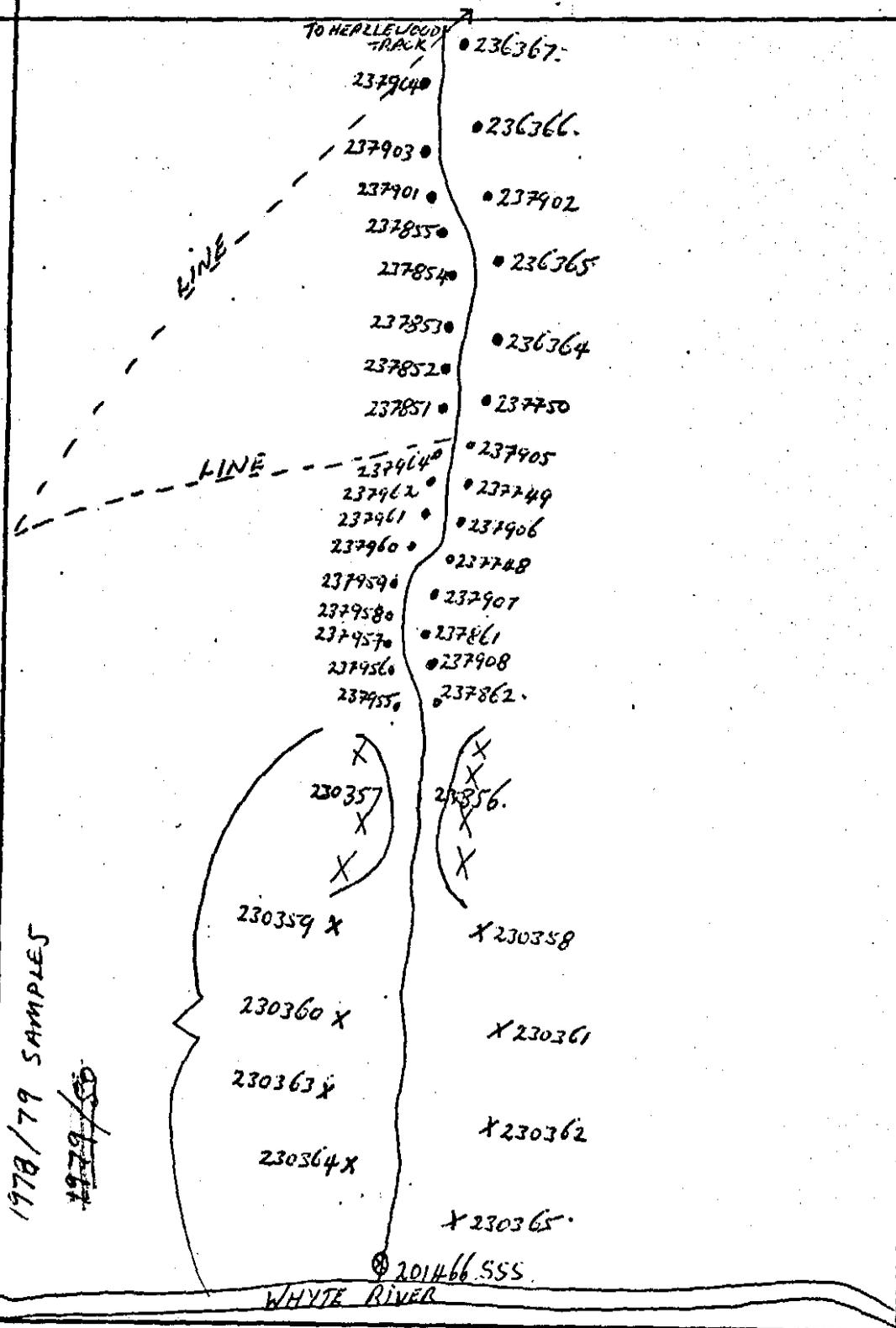
CITY

ASSAYED: C.T.L

1/4/80

064071

BASE OF SLOPE SOIL SAMPLING FOLLOW UP TO STREAM
 SEDIMENT SAMPLE N° 201466
 PROJECT MEREDITH GRANITE CONTACT CREEK
 DATE 12-7-80
 MAP REFERENCES S400-3800N 356-100E 355/400



PROJECT: MEREDITH 2600 (FOLLOW UP)
 LOCATION: A 200, B 150, C 100
 SAMPLE TYPE CODE: BEDROCK PRODUCTS, BEDROCK, STREAM SEDIMENTS
 WEATHERED BEDROCK: YES, NO
 MATERIAL TRANSPORTED: YES, NO
 ORIGINAL SOIL: YES, NO
 MINE DUST: YES, NO
 DATE: 22/6/79
 SHEET: 1

EASTINGS													NORTHINGS													SAMPLE NUMBER		DEPTH		FRACTION TYPE	Sn (only)	GEOLOGICAL LOG
																										230356	30		18	FINE ORANGE BROWN C (BEDROCK 20 cm)		
CREEK DRAINING SOUTH INTO WHYTE RIVER 750 m ENE OF WHYTE RIVER HELIPAD																										230357	25		24	FINE ORANGE CLAY		
																										230358	25		12	FINE ORANGE CLAY		
REFER PHOTO: COLOUR T762-19 RUN 28W 1:15000'																										230359	25		4	FINE ORANGE CLAY		
																										230360	30		26	FINE LIGHT BROWN / ORANGE CLAY		
NOTE: THESE SAMPLES REPRESENT FOLLOW UP OF ANOMALOUS S/S SAMPLE NO. 201466																										230361	15		30	FINE BROWN CLAY (BEDROCK 15 cm)		
																										230362	15		80	FINE GREY / BROWN CLAY (BEDROCK 15 cm)		
																										230363	30		90	FINE ORANGE CLAY		
																										230364	15		100	FINE GREY SOIL		
																										230365	15		55	FINE GREY SOIL		

074

PROJECT MEREDITH GRANITE CONTACT CREEK		BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 80 G 30 B 150 E 60 H 30 C 100 F 40 T = TOTAL				SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S <input checked="" type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE DUMP M				CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/>		VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>		DATE 14/3/80	SHEET 7
--------------------------------------------------	--	----------------------------------------------------------------------------------------------------	--	--	--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	------------------------------------------------------------------------------	--	--------------------------------------------------------------------	--	------------------------	-------------------

EASTINGS														NORTHINGS														SAMPLE NUMBER		DEPTH CM	SIZE FRACTION Type	METAL VALUES PPM										GEOLOGICAL LOG																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
210M														237854														70		Sn	W	Cu	Pb	Zn	35 F/4 RED BLACK BROWN SANDY SOIL																																												
215M														237855														70		10	220	150	20	45 F/4 RED BLACK BROWN CLAY																																													

BASE OF MINE / 201466

064075

PROJECT MREDITH GRANITE CONTACT CREEK	BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 80 G 30 B 150 E 80 H 20 C 100 F 40 T = TOTAL	SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S	<input checked="" type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE DUMP M	CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/>	VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE 16/3/80	SHEET 8
-------------------------------------------------	----------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------	-------------------

EASTINGS														NORTHINGS														SAMPLE NUMBER	DEPTH CM	SIZE FRACTION Type	Sn	METAL VALUES PPM																GEOLOGICAL LOG																																															
W																Cu																Pb																Zn																																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																
														2870m														237901	75		10	20																120																10																40 F/G RED BLACK BROWN CLAY															
														240m														237902	80		10	20																80																20																40 F/G GRITTY ORANGE BROWN CLAY															
														255m														237903	70		10	20																90																20																40 F/G ORANGE BROWN CLAY															
														270m														237904	70		<10	20																60																30																30 F/G ORANGE BROWN CLAY															
														150m														237905	70		<10	20																70																35																35 F/G ORANGE BROWN CLAY															
														105m														237906	50		15	20																120																35																25 F/G ORANGE BROWN CLAY															
														75m														237907			<10	20																100																15																25 TAN COLOURED CLAY F/G															
														25m														237908			10	20																100																25																30 F/G RED ORANGE BLACK CLAY															

9941076 SSS 02/4/66
 Sample of 30cm portion of SSS

PROJECT Meredith Granitic Contact creek	SIEVE SIZE CODE - MESH NUMBER A 200 D NO G 30 B 150 E 80 H 60 C 100 F 40	SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S	<input type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE DUMP M	CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/>	VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE 12-3-80	SHEET 1
-----------------------------------------------	-----------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	-----------------	------------

EASTINGS	NORTHINGS	SAMPLE NUMBER	DEPTH	SIZE FRACTION	TOTAL VALUES PPM					GEOLOGICAL LOG
					Sn	W	Cu	Pb	Zn	
		236364	100	410	20	100	40	50	Reddy brown clay with black patches. Assorted rock fragments	
		236365	90	15	20	80	35	50	Wet multicoloured clay.	
		236366	100	410	20	110	35	100	Wet orangy brown clay. Assorted rock fragments	
		236367	100	10	420	50	20	30	Tan coloured clay. Assorted rock fragments	
		237750	80	15	420	120	25	60	Reddy brown clay. Assorted rock fragments.	
		237749	100	10	420	60	20	35	Red clay with brown patches. Assorted rock fragments	
		237748	100	410	420	110	25	40	Red, orange brown clay. Assorted rock fragments	
		237861	100	410	420	80	10	25	Tan coloured clay. Small rock fragments.	
		237862	10	10	420	20	10	20	Brown soil sample	

Base of slope soil sampling for Anomalous Creek follow up to No. 201466

077

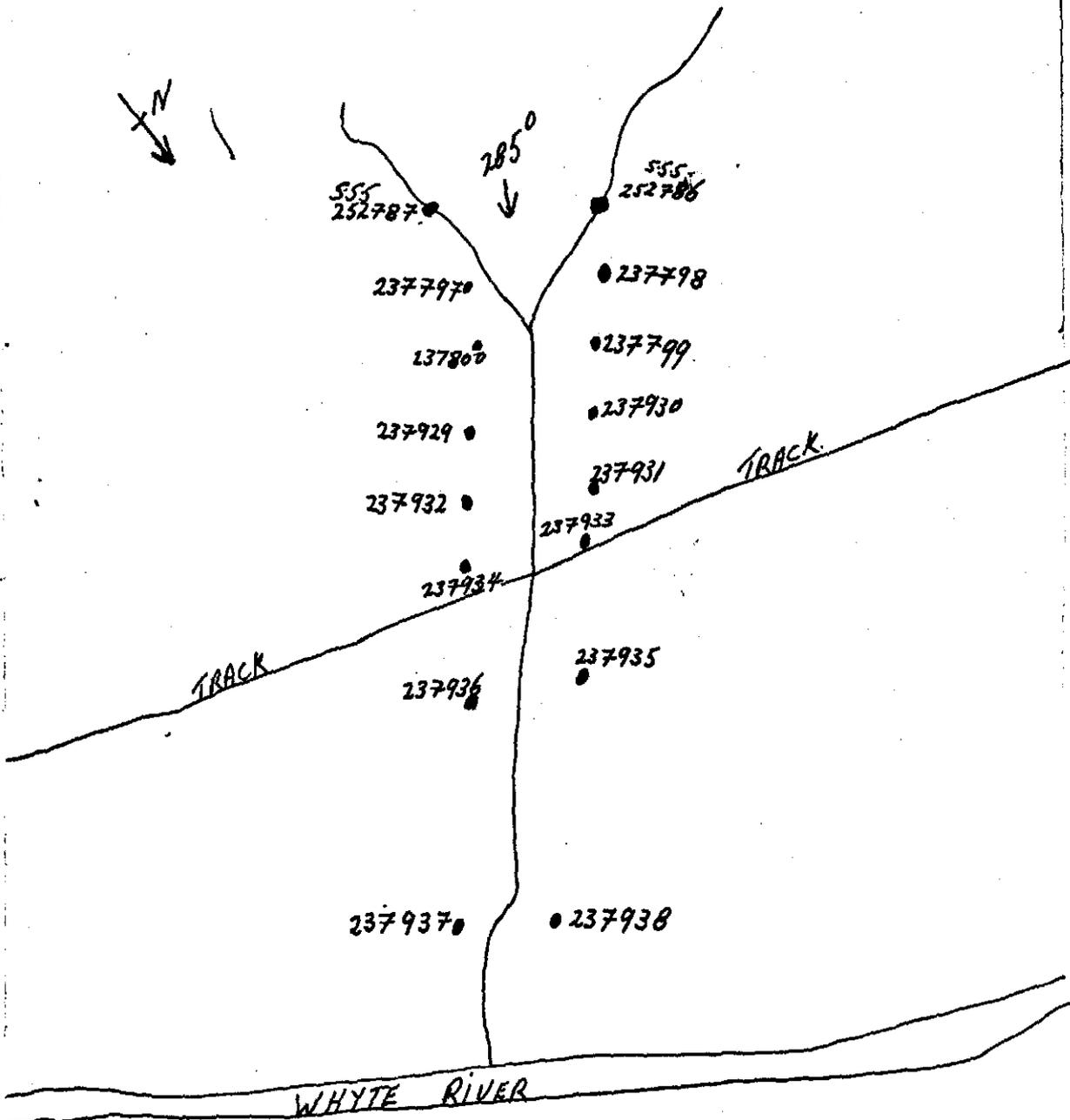
064078

DESCRIPTION

FOLLOW UP TO STREAM SED SAMPLE NO 201463 CREEK RUNNING INTO
WHYTE RIVER BEARING 285°

PROJECT MERRIVILLE GRANITE CONTACT CREEK

DATE 11-3-80



MAP REFERENCES 355/400
 5400-3200 N
 355-300 E

049

PROJECT Mendith Granite Contact Creek area		BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 80 G 30 B 150 E 60 H 20 C 100 F 40 T = TOTAL				SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S <input type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE DUMP M				CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/>		VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE 14-3-80	SHEET 2
--------------------------------------------------	--	----------------------------------------------------------------------------------------------------	--	--	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	---------------------------------------------------------------------------------------------------------------------------------------	--	--------------------------------------------------------------------	-----------------	------------

EASTINGS							NORTHINGS							SAMPLE NUMBER	DEPTH IN CMS	SIZE FRACTION	Sample Type	METAL VALUES PPM				GEOLOGICAL LOG																																																									
1	2	3	4	5	6	7	8	9	10	11	12	13	14					15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
														237938	20		Sn	W	Cu	Pb	Zn	Dark red brown soil Rock fragments																																																									
																	<10	<20	15	15	35																																																										

90

064080

080

064081

APPENDIX 4

Graphical Interpretation of Access Line
Soil Samples.

081

064082

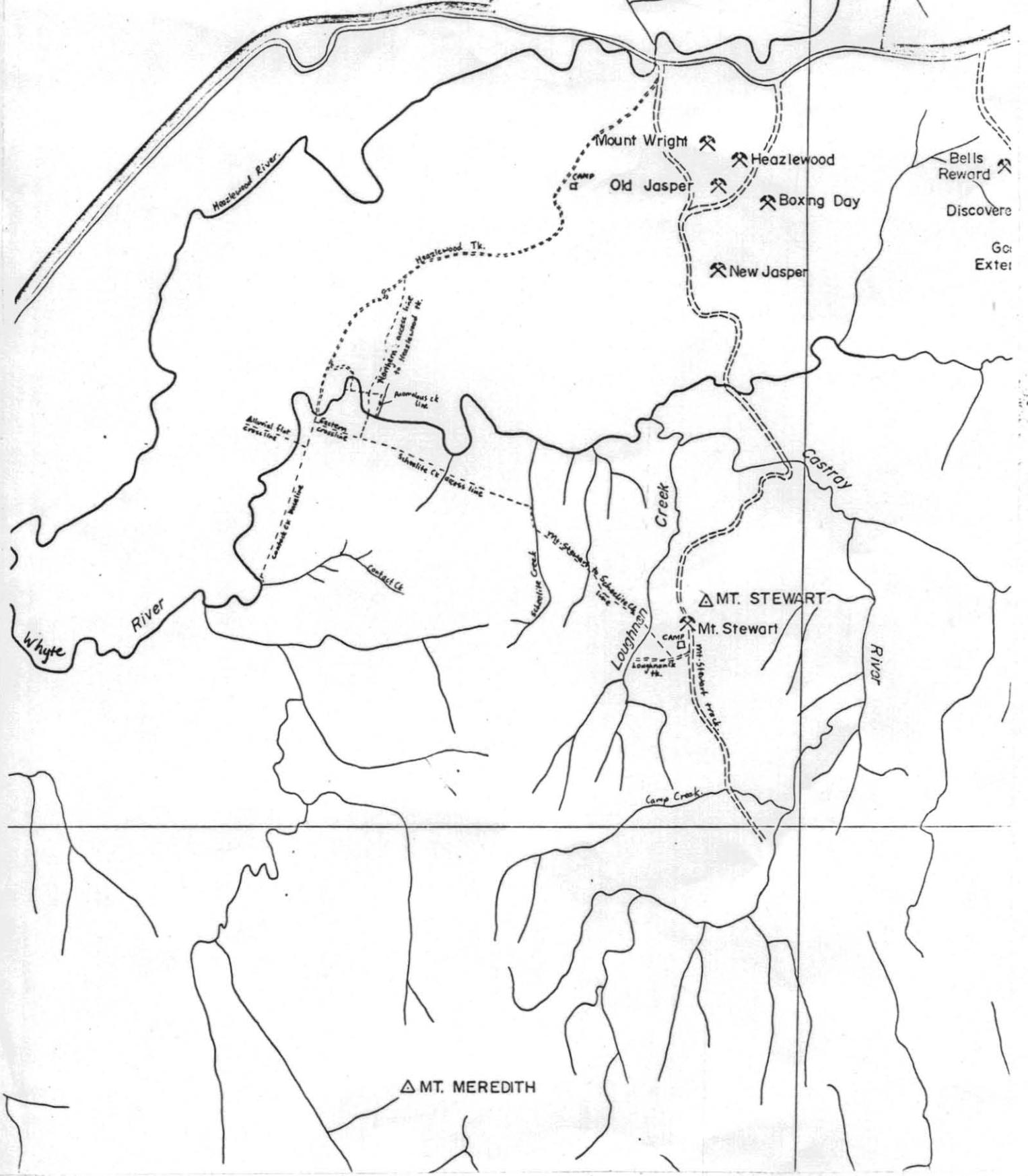
5 cm

ACCESS LINE LOCATION PLAN
CONTACT CREEK—UPPER CASTRAY
RIVER AREA

T.N.



1:50,000



△ MT. MEREDITH

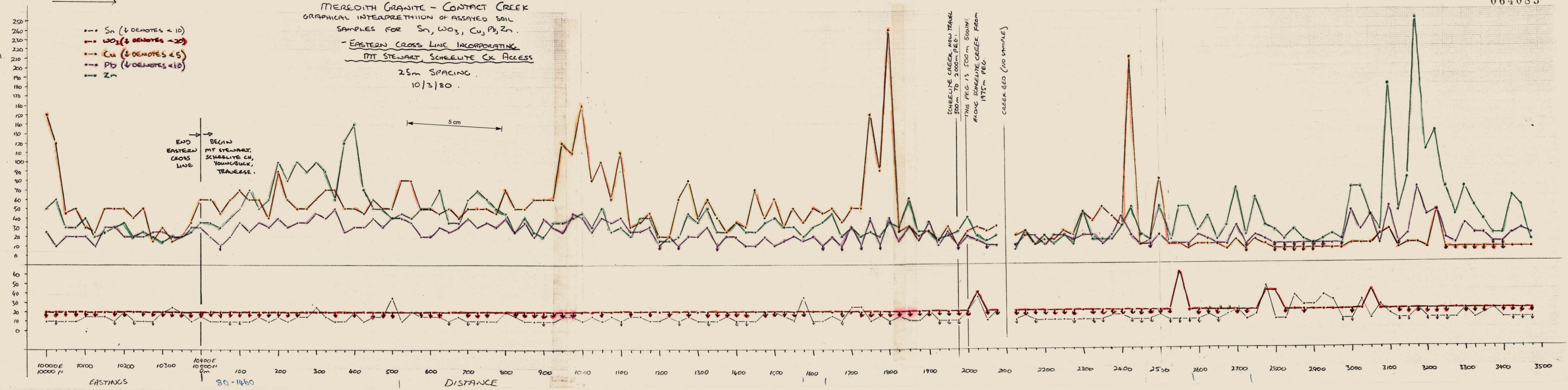
080

064083

MEREOTH GRANITE - CONTACT CREEK
 GRAPHICAL INTERPRETATION OF ASSAYED SOIL
 SAMPLES FOR Sn, WO₃, Cu, Pb, Zn.
 - EASTERN CROSS LINE INCORPORATING
 MT STEWART, SCHEELITE CK ACCESS
 25m SPACING.
 10/3/80.

P.P.M.

- Sn (↓ DENOTES < 10)
- WO₃ (↓ DENOTES < 20)
- Cu (↓ DENOTES < 5)
- Pb (↓ DENOTES < 10)
- Zn



082

EAST →

MEREDITH GRANITE - CONTACT CREEK

064084

P.P.m.

GRAPHICAL INTERPRETATION OF ASSAYED SOIL SAMPLES FOR Sn, WO₃, Cu, Pb, Zn.

- CROSS LINE TO ALLUVIAL FLAT

25m SPACING

10/3/80.

200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

ALLUVIAL FLAT

WHYTE RIVER

↑ 800 P.P.M.

INTERSECTS CONTACT CR. BASELINE

5 cm

- Cu
- Pb (↓ DENOTES < 10)
- Zn

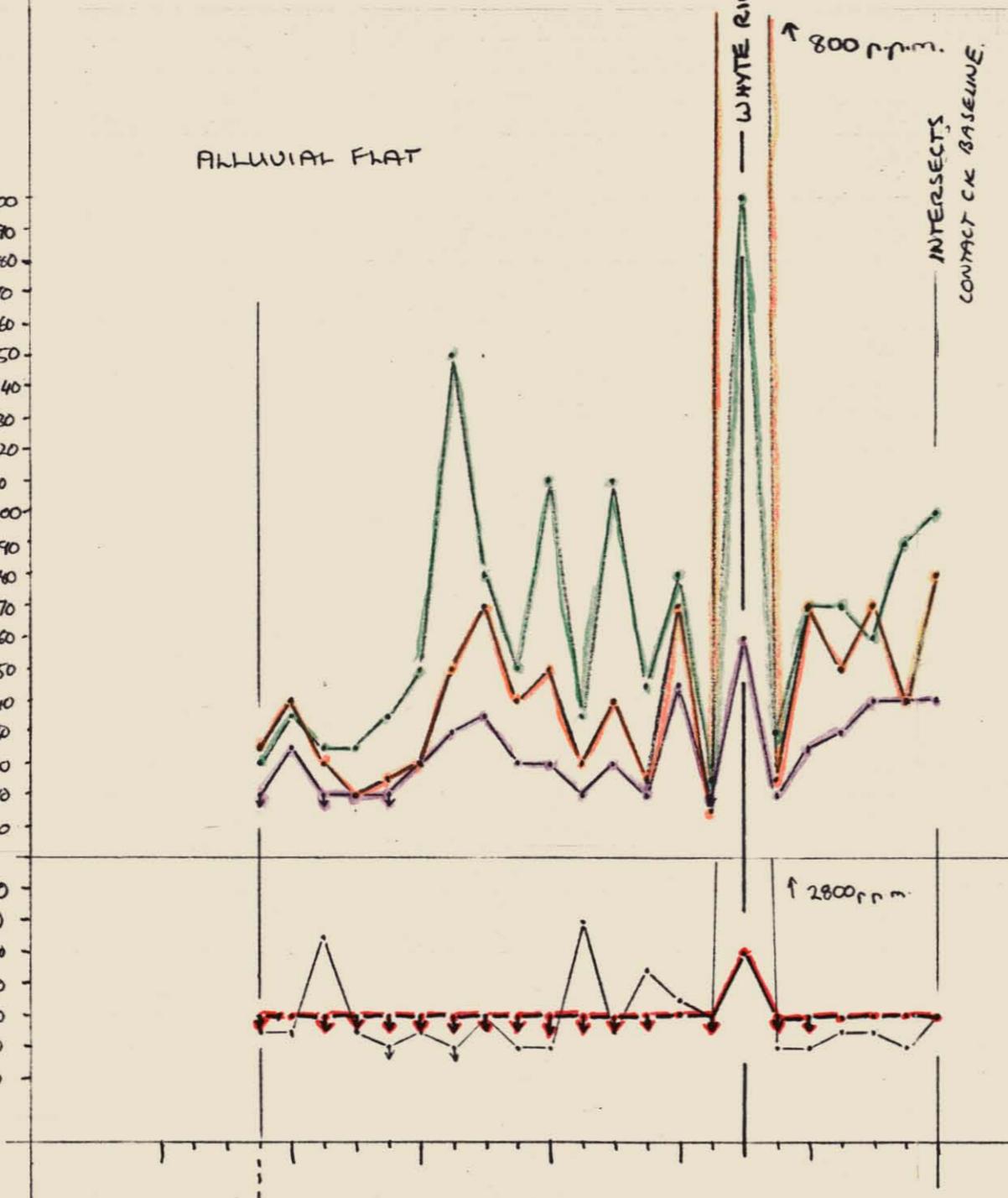
60
50
40
30
20
10
0

↑ 2800 P.P.M.

- Sn (↓ DENOTES < 10)
- WO₃ (↓ DENOTES < 20)

94000 9500 9600 9700 9800 9900 10000E
9475E 9446N EASTINGS 9446N

50-1460



084

064085

NORTH →

MEREDITH GRANITE - CONTACT CREEK.
 GRAPHICAL INTERPRETATION OF ASSAYED SOIL
 SAMPLES FOR Sn, WO₃, Cu, Pb, Zn.
 - NORTHERN ACCESS TO ANOMALOUS
CREEK FROM HEAZELWOOD TRACK

25m SPACING
 12/3/80.

P.P.M.

- Sn (↓ DENOTES < 10)
- WO₃ (↓ DENOTES < 20)
- Cu
- Pb (↓ DENOTES < 10)
- Zn

200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

WHYTE RIVER
 HEAZELWOOD TRACK

5 cm

60
50
40
30
20
10
0

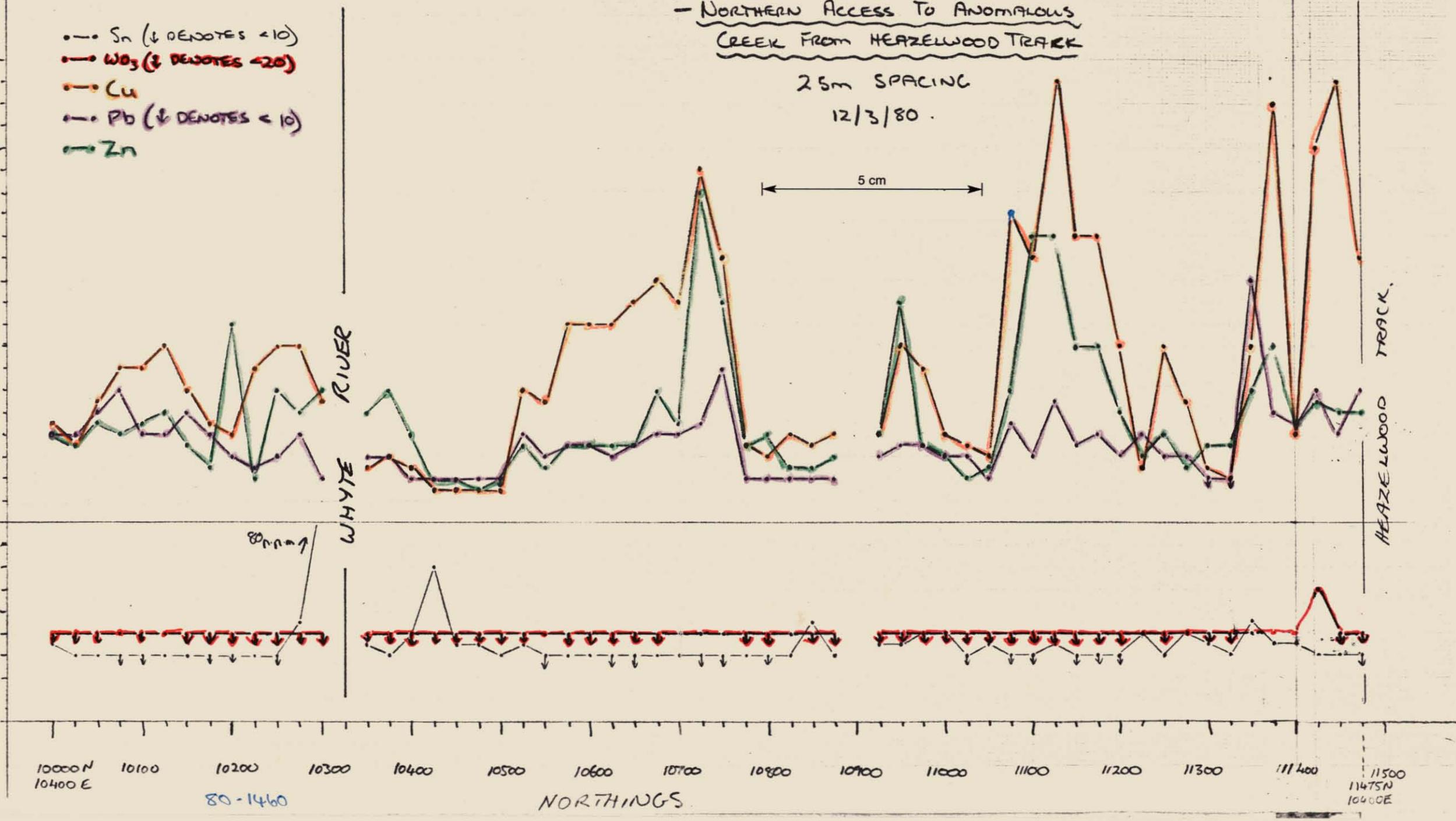
10000 N 10100 10200 10300 10400 10500 10600 10700 10800 10900 11000 11100 11200 11300 11400 11500

10400 E

80-1460

NORTHINGS

11475N
10400E



083

NORTH →

MEREDITH GRANITE - CONTACT CREEK

064086

GRAPHICAL INTERPRETATION OF ASSAYED SOIL SAMPLES FOR Sn, WO₃, Cu, Pb, Zn.

- CONTACT CREEK BASELINE

- 25m SPACING.

10/3/80.

P.P.M

220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

- Sn (↓ DENOTES <10)
- WO₃ (↓ DENOTES <20)
- Cu
- Pb (↓ DENOTES <10)
- Zn

5 cm

WAYTE RIVER

70
60
50
40
30
20
10
0

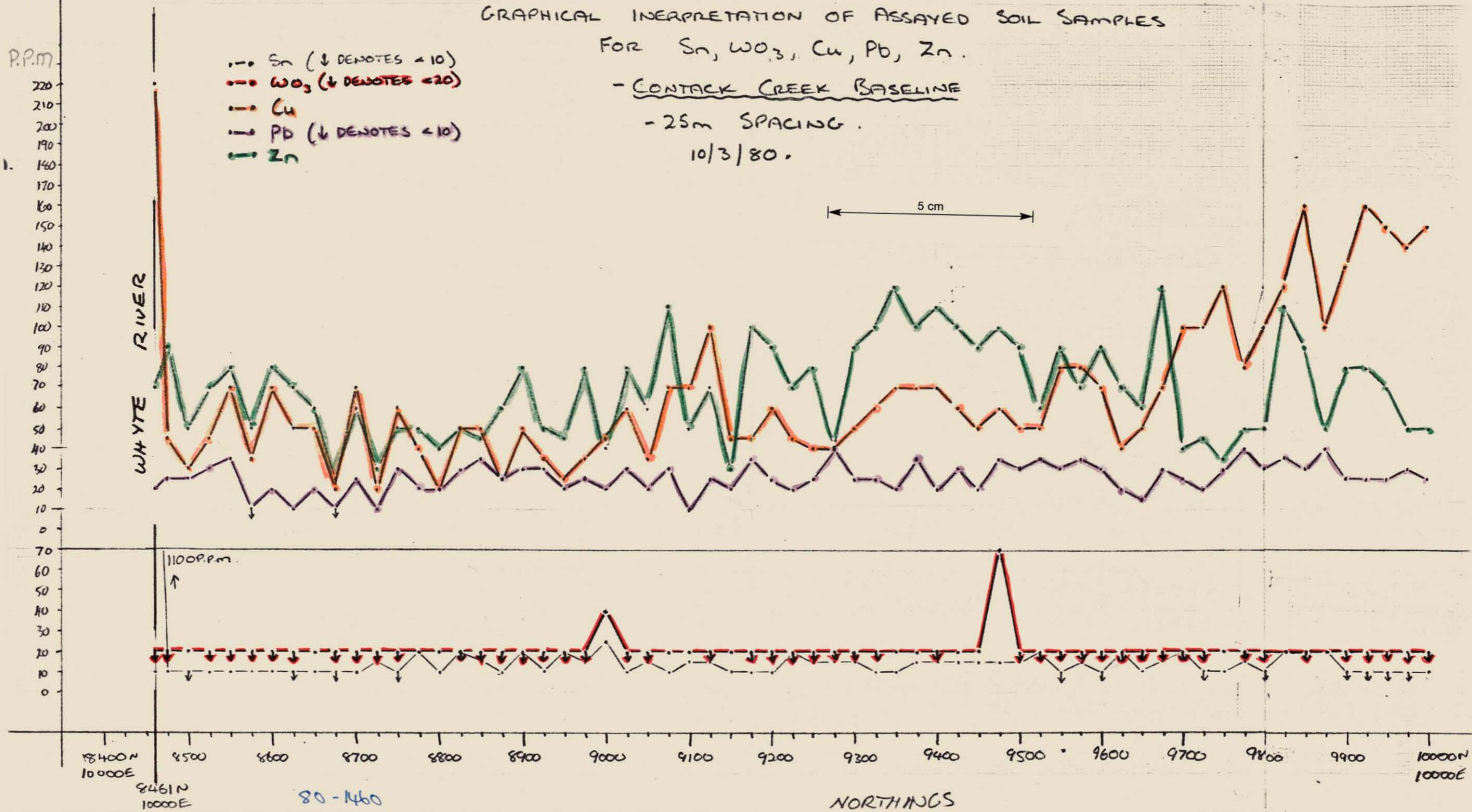
1100 P.P.M.

8400N 10000E 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000N 10000E

NORTHINGS

80-1460

1.



085

NORTH →

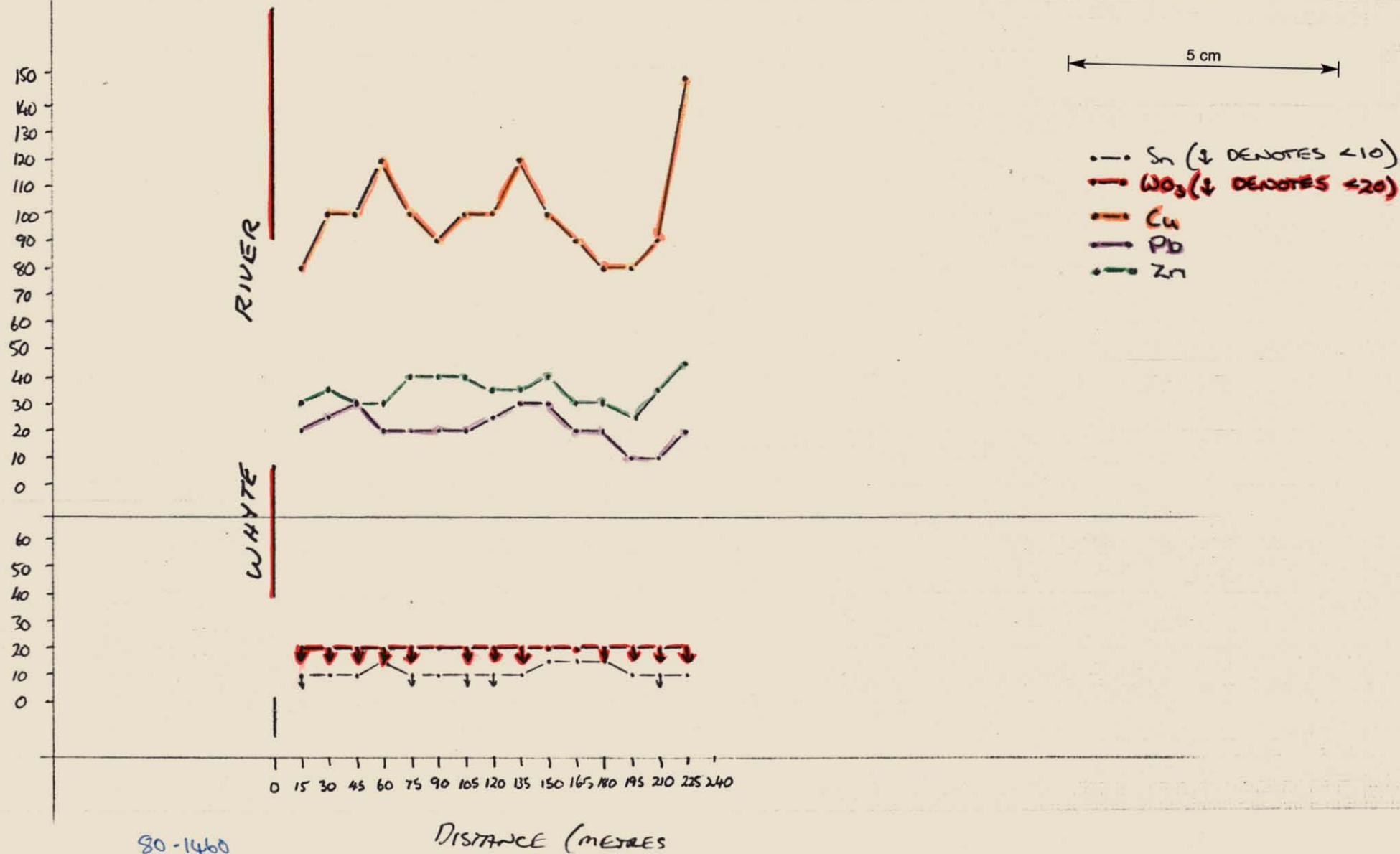
MEREDITH GRANITE - CONTACT CREEK.
 GRAPHICAL INTERPRETATION OF ASSAYED
 SOIL SAMPLES FOR Sn, WO₃, Cu, Pb, Zn.
- ANOMALOUS CREEK

15m SPACING.

14/3/80.

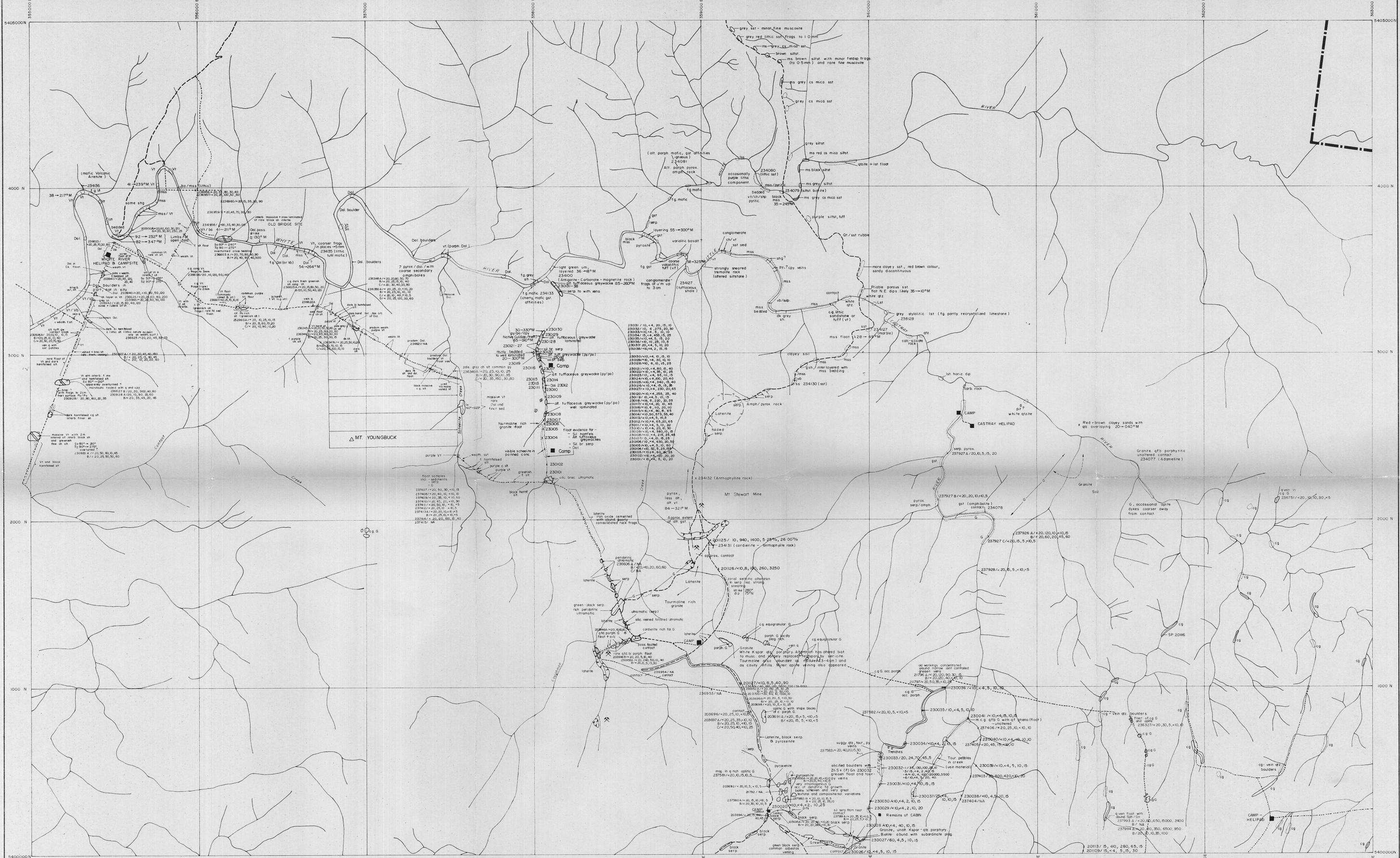
P.P.m.

5 cm



80-1460

064087



064088

Aberfoyle Exploration Pty Ltd

80-1460
NORTH WEST TASMANIA 3260

DUNDAS TROUGH

MEREDITH EL.16/78
Surface Outcrop Geology

Location code
Date July, 1979
Scale 1:10,000
Plate No
Mer. 4 - 355/400

Drawn J.R.T. J.W.
Traced J.R.T. J.W.
Checked R.E. Date 15/8/80
Revised by R.E. Date 15/8/80

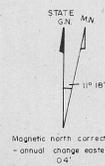
347/405	355/405	363/405
347/400	355/400	363/400
347/395	355/395	363/395

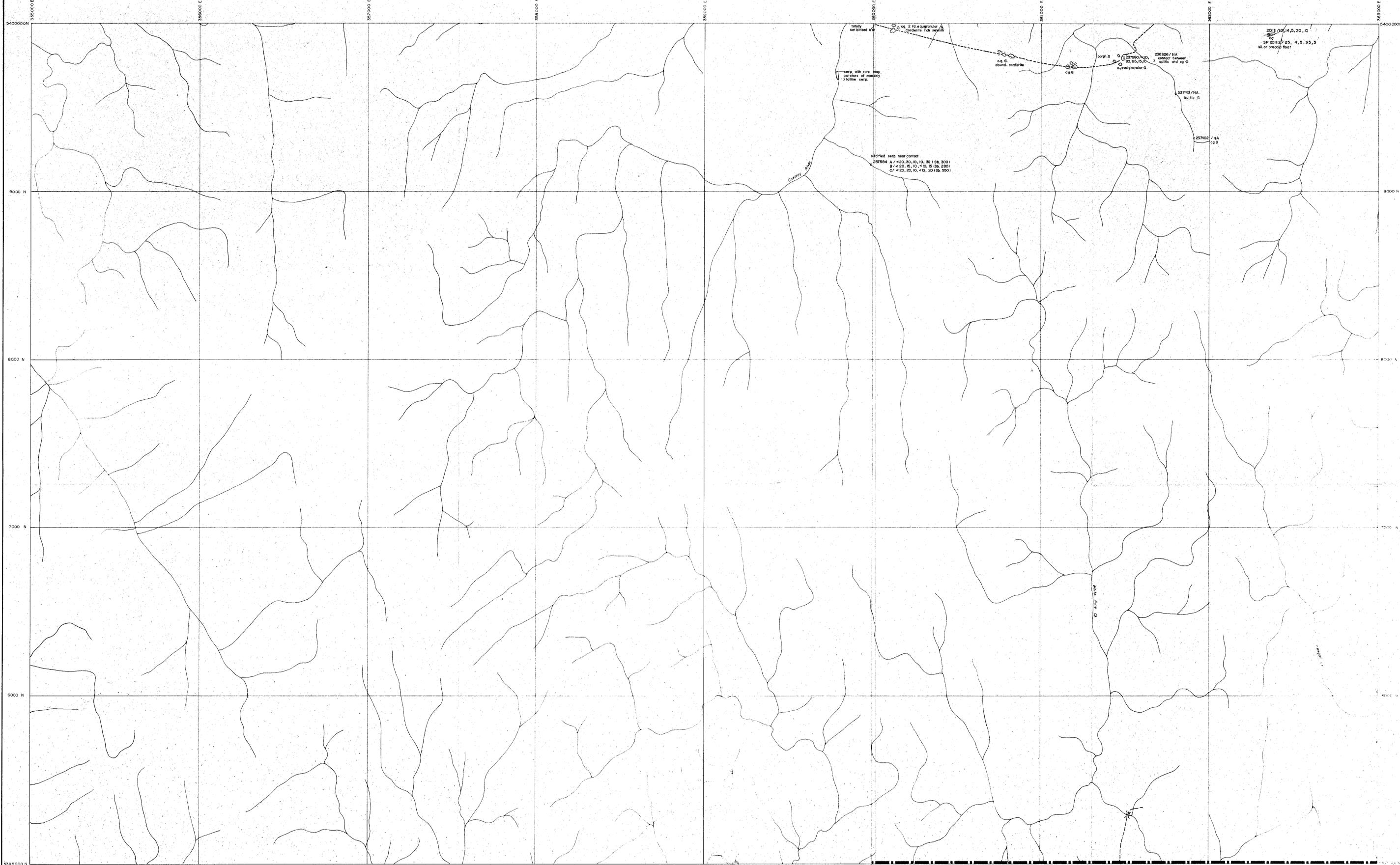
Index to adjoining sheets

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

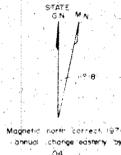
Northern section enlarged from
1:50,000 Tasmanian Lands Dept. Topo.

x 230020 Rock chip sample locations and numbers, W, Sn, Cu, Pb, Zn (Mo, As) in p.p.m.





x 20112 Rock chip sample location and number, W, Sn, Cu, Pb, Zn (Mo, As) in p.p.m.



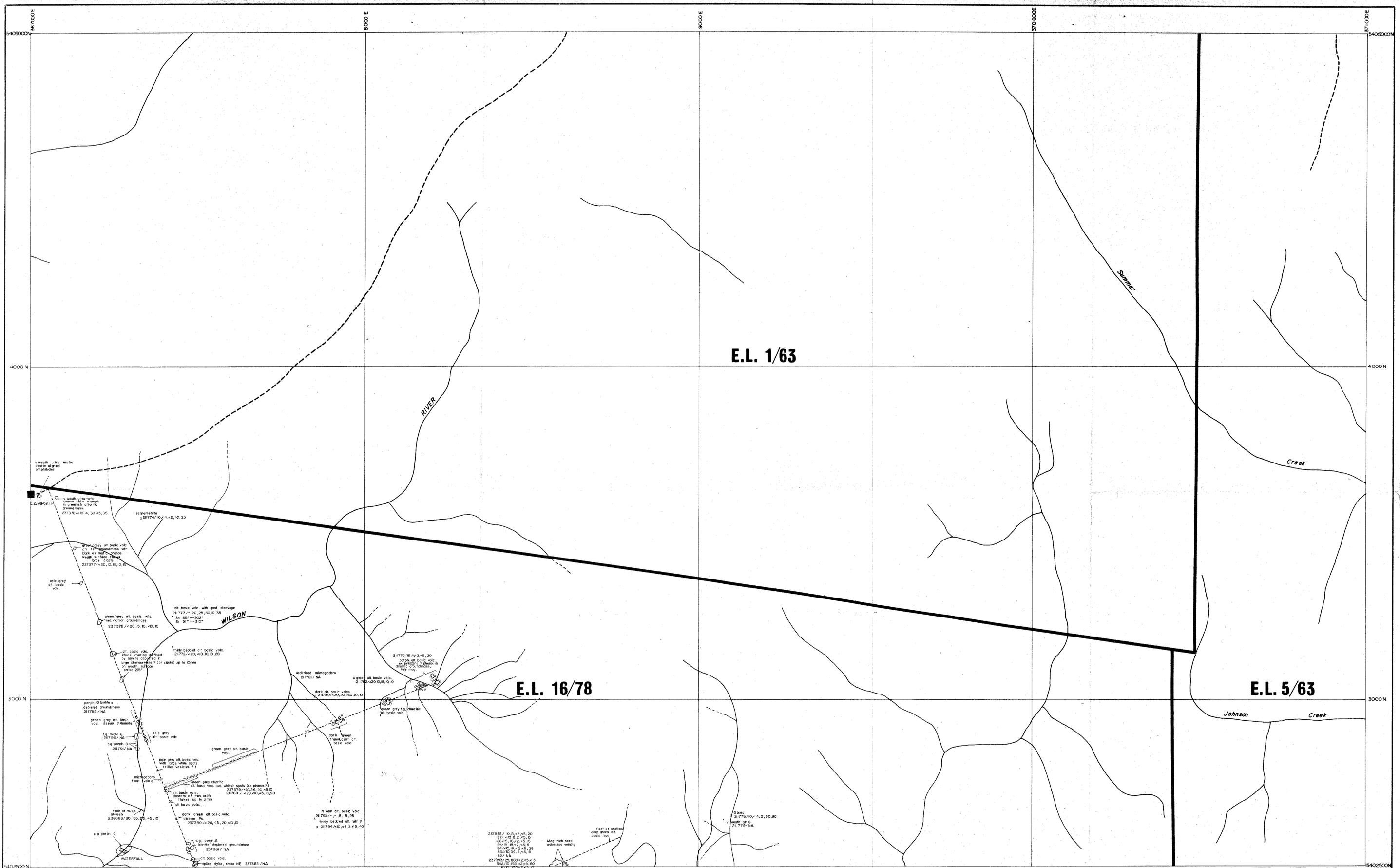
5 cm

347/400	355/400	363/400
347/395	355/395	363/395
347/390	355/390	363/390

Index to adjoining sheets

064089

Aberfoyle Exploration		
80-1460 NORTH WEST TASMANIA DUNDAS TROUGH		3261
Geology	J. R. T., J. W.	Location code
Drawn	J. R. T.	Date
Checked	R. J. E.	June, 1979
Revised by	R. J. E. Date 15/8/80	Scale
MEREDITH E.L. 16/78 Surface Outcrop Geology		1:10,000
		Plate No. Mer 4 - 355/395

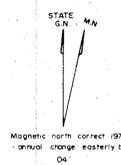


E.L. 1/63

E.L. 16/78

E.L. 5/63

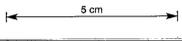
x 2379 BB / NA Rock chip sample locations and numbers, W, Sn, Cu, Pb, Zn in ppm
 NA Not Assayed



363/4000	367/4000	371/4000
363/4025	367/4025	371/4025
363/4000	367/4000	371/4000

Index to adjoining sheets

064090



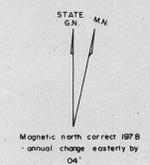
Aberfoyle Exploration Pty Ltd		Location code:
NORTH WEST TASMANIA 3262		Date: August, 1980
MEREDITH E.L. 16/78		Scale: 1:5000
Surface Geology		Plate No
80-1460		MER. 16/367/4025
Geology:	R.M.J.	
Drawn:	R.M.J.	
Traced:	R.J.E.	
Checked:		
Revised by:	Date:	



E.L. 16/78

E.L. 5/63

x 237988 / Rock chip sample locations and numbers, W, Sn, Cu, Pb, Zn in ppm
NA Not Assayed



363/4025	367/4025	371/4025
363/4000	367/4000	371/4000
363/3985	367/3985	371/3985

Index to adjoining sheets

064091

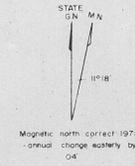


Aberfoyle Exploration Pty Ltd		Location code
NORTH WEST TASMANIA 3263		Date August, 1980
MEREDITH E.L. 16/78		Scale 1:5000
Surface Geology		Plate No
80-1460		MER. 16/367/4000

Geology:	R. M. J.
Drawn:	R. M. J.
Traced:	R. J. E.
Checked:	
Revised by:	Date:



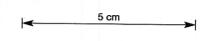
Aberfoyle 1978-79 ● Sample location, number and assay results - W, Sn, Cu, Pb, Zn (Mo, As) in p.p.m.
 Aberfoyle 1979-80 ▲



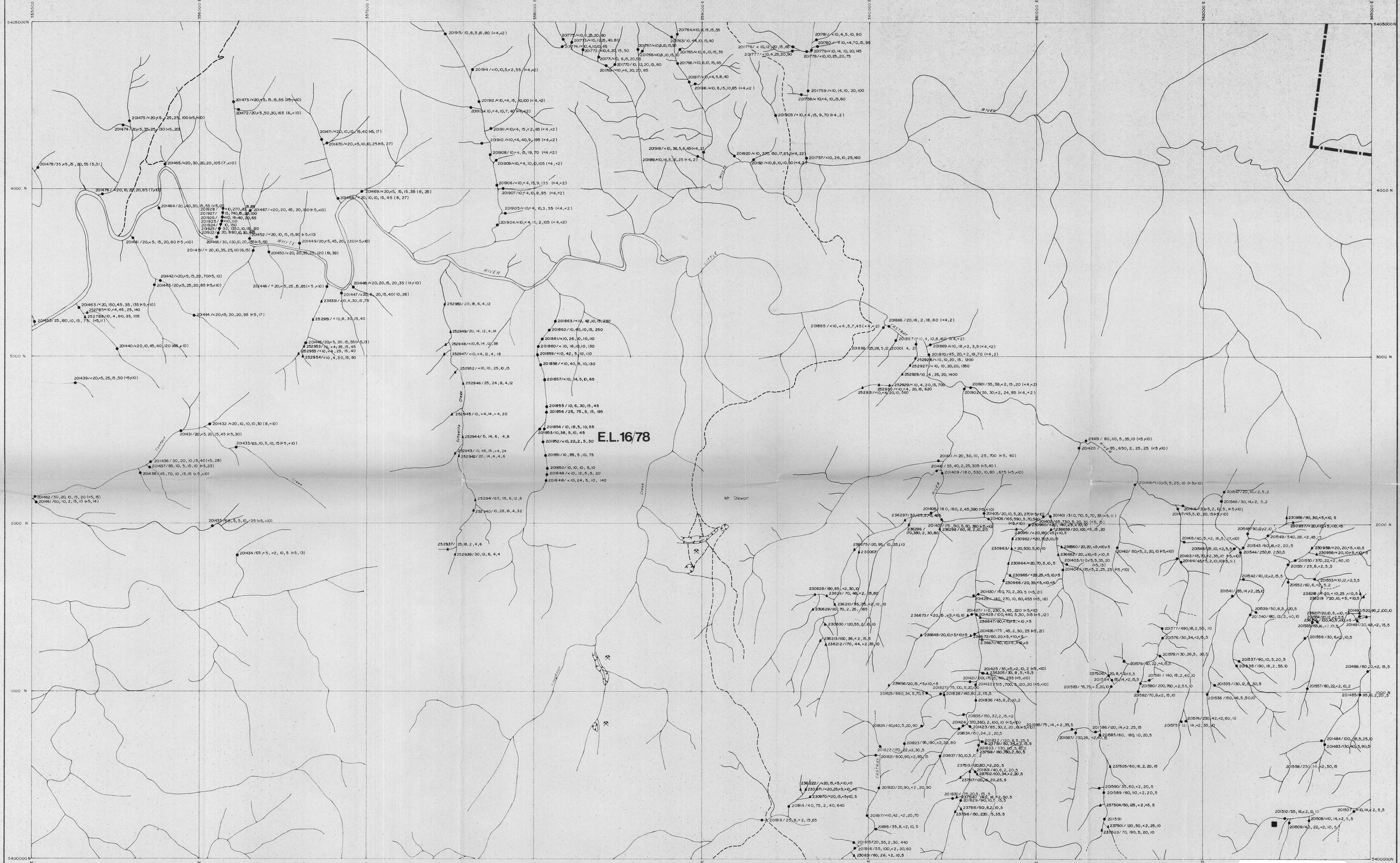
347/400	355/400	363/400
347/395	355/395	363/395
347/390	355/390	363/390

Index to adjoining sheets

064092

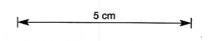


Aberfoyle Exploration		870-1460	
NORTH WEST TASMANIA		3264	
DUNDAS TROUGH		Location code	
MEREDITH E.L.16/78		Date August, 1979	
STREAM SEDIMENT SAMPLING LOCATIONS & ASSAY RESULTS		Scale 1:10,000	
Checked		Plate No	
Revised by R.J.E. Date 17/6/80		MER 9/355/395	



E.L.16/78

064093



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

Northern section enlarged from
1:50,000 Tasmanian Lands Dept Topo.



347/405	355/405	363/405
347/400	355/400	363/400
347/395	355/395	363/395

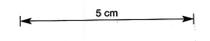
Aberfoyle 1978-79 ● Sample location, number and assay results, W, Sn, Cu, Pb, Zn (Mo, As) in p.p.m.
Aberfoyle 1979-80 ▲

Aberfoyle Exploration Pty Ltd		3265	Location code
80-1460			
NORTH WEST TASMANIA			
DUNDAS TROUGH			
MEREDITH E.L. 16/78			
STREAM SEDIMENT SAMPLING			
LOCATIONS & ASSAY RESULTS			
Geology	Drawn R.J.E.	Date August, 1979	Plate No
Checked	Revised by R.J.E. Date 17/6/80	Scale 1:10,000	MER 9/355/400



E.L. 16/78

064094



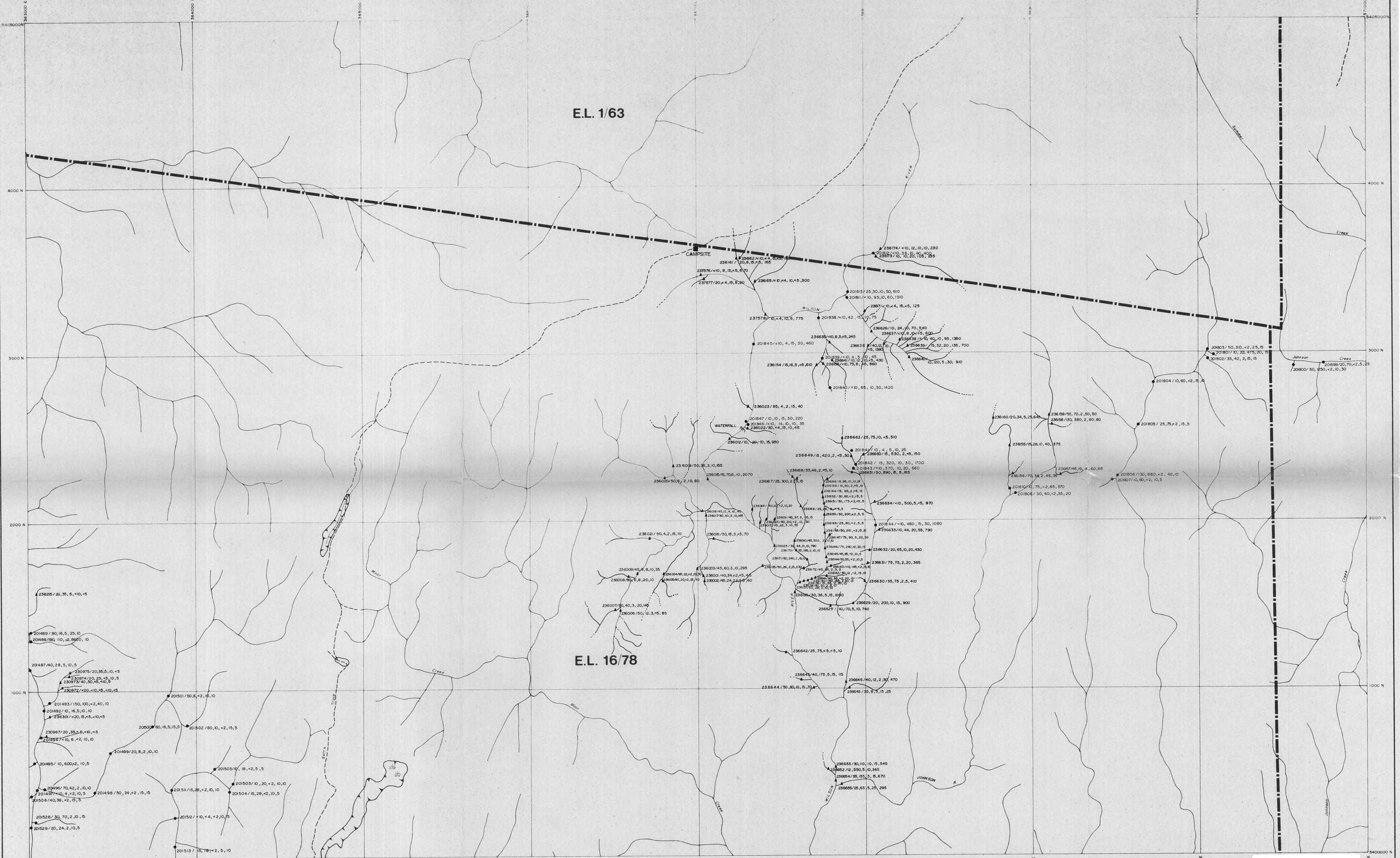
Aberfoyle 1978-79 • Sample location, number and assay results, W, Sn, Cu, Pb, Zn (Mo, As) in p.p.m.
 Aberfoyle 1979-80 ▲



339/405	347/405	355/405
339/400	347/400	355/400
339/395	347/395	355/395

Index to adjoining sheets

Aberfoyle Exploration Pty Ltd		Location code
30-1460		3266
NORTH WEST TASMANIA		Date August, 1979
DUNDAS TROUGH		Scale 1:10,000
MEREDITH E.L. 16/78		Plate No
STREAM SEDIMENT SAMPLING		MER 9/347/400
LOCATIONS & ASSAY RESULTS		



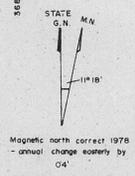
E.L. 1/63

E.L. 16/78

Aberfoyle 1978-79 ● Sample location, number and assay results, W, Sn, Cu, Pb, Zn (Mg, As) in p.p.m.
 Aberfoyle 1979-80 ▲

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

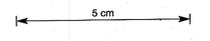
Northern section enlarged from 1:50,000
 Tasmanian Lands Dept. Topo.



355/405	363/405	371/405
355/400	363/400	371/400
355/395	363/395	371/395

Index to adjoining sheets

064095



Aberfoyle Exploration		80-1460	
NORTH WEST TASMANIA		3267	
DUNDAS TROUGH		Location code	
MEREDITH E.L. 16/78		Date August, 1979	
STREAM SEDIMENT SAMPLING		Scale 1:10,000	
LOCATIONS & ASSAY RESULTS		Plate No MER 9 / 363/400	

QUARTERNARY	3	Qa	Alluvium
	8	DQ	Dolerite Talus
TERTIARY	51	Tb	Basalt
	27	Tc	Conglomerate & grit
	71	Tg	Gravels
	34	Ts	Sand, silt, clay & limestone
DEVONIAN	14	Dg	Meredith Granite / Adamellite
	18	Sc	Crotty Quartzite
ORDOVICIAN	26	Og	Gordon Limestone
	65	Om	Moina Sandstone
CAMBRIAN 64	39	Dol	Dolerite sill
	47	Vb	Basic Volcanic, probably lavas
	24	Vt	Basic Tuffs and tuffaceous greywacke
	68	msa / ba / silt	Black biotite hornfelsed (micaceous) sandstones and siltstones (commonly volcanic)
	25	Cst	Cherty siltstone (Pelitic ash)
	57	sh	Black, grey, purple, brown shales
	36	ch	Chert, undifferentiated
	33	dam	Dolomite
PRE-CAMBRIAN	46	um	Rocks of ultrabasic affinity, includes serpentinite, pyroxenite, gabbro, dolerite, both coarse & fine grained occasionally amygdaloidal probably related to Hazelwood River Complex Basic lavas
	44	ub	
PRE-CAMBRIAN	58	Puo	Oonah Quartzite and Slate
	70	Swc	WHYTE SCHIST Foliated interbedded and massive quartzite, sericite schist, black shale, quartz schist
43	Apb	Amphibolite	

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
diop	-	diopside
pyrox	-	pyroxene
carb	-	carbonate
dom	-	dolomite
Fl	-	fluorite
Am	-	amphibole

TEXTURE

xeno	-	xenocrysts
mic	-	micaceous
saach	-	saacharoidal
tuff	-	tuffaceous
homog	-	homogenous
porph	-	porphyry
phen	-	phenocrysts
brec	-	breccia
rx	-	recrystallised
dissem	-	disseminated
interb	-	interbedded
nod	-	nodules
frag	-	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
60 → 63° M	-	dip / dip direction magnetic

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

Lineations

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

ROCK TYPES

Sediments

sat	-	sandstone
qtz	-	quartzite
sh	-	shale
sl	-	slate
silt	-	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	-	serpentinite

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 & intervals
		Cleared area
		Swamp
		Alluvial deposits
		Track
		Road (unsealed)
		Highway (sealed)
		Licence boundary & number
		Dam on stream
		Thin section
		Mine

064096

Aberfoyle Exploration Pty Ltd

Geology	C.H.Y., R.M.J.
Drawn	R.J.E.
Traced	

NORTH WEST TASMANIA **80-1460**
 MEREDITH LICENCE 16/78
 GEOLOGICAL LEGEND **3268**

Date	August, 1980
Scale	
Plate	MER 18