

001

75 002

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APPENDIX VI	ASSAY RESULTS

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FIGURES

FIGURE 1	LOCATION MAP
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LIST OF PLATES

<u>Plate No</u>	<u>Title</u>	<u>Scale</u>
-	Detail and Contour Survey R.K.McDermott 50M81 South Heemskirk. Sheets 1 & 2	1:500
-	Detail and Contour Survey Mayne's Mine. 4M/73 South Heemskirk. Sheets 1 & 2	1:500
MAY 2A	Mayne's Lease : Ground Magnetics - Sheet A	1:500
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MAY 3A	Mayne's Lease : Outcrop Geology - Sheet A	1:500
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KEL 3B	Kelvin Lease : Outcrop Geology - Sheet B	1:500

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INTRODUCTION

The Mayne's and adjacent Kelvin Leases (Fig. 1) cover the only mines in the South Heemskirk Field to have been successfully worked for tin within the enclosing sediments rather than the Heemskirk Granite. The prospects are underlain by highly silicified Oonah Quartzite and Slate within the contact metamorphic aureole of the Heemskirk Granite, which outcrops on the northern portion of the Kelvin Lease. Irregular stockwork lodes of tourmaline-cassiterite-pyrite were worked to depths of less than 10 metres around the turn of the century, and rarely since. Tin values within lodes are reported to range up to 2.0%. These two Mining Leases may have the potential to provide readily extractable ore at a grade in the order of 1% Sn.

Following approaches by the respective lease holders, option agreements were negotiated by Aberfoyle Exploration for the sole right to evaluate the properties (see Appendix I).

TOPOGRAPHIC SURVEY

Both Mining Leases have a small surface area of 16 hectares (400m x 400m) containing numerous pits, open cuts and adits. In addition, the Mayne's Lease is steep and covered by dense timber. To facilitate a detailed property evaluation, it was necessary to prepare a surveyed topographic base map as a basis for geological mapping, geochemical sampling and ground magnetics.

QUEEN HILL E.L. 47/71

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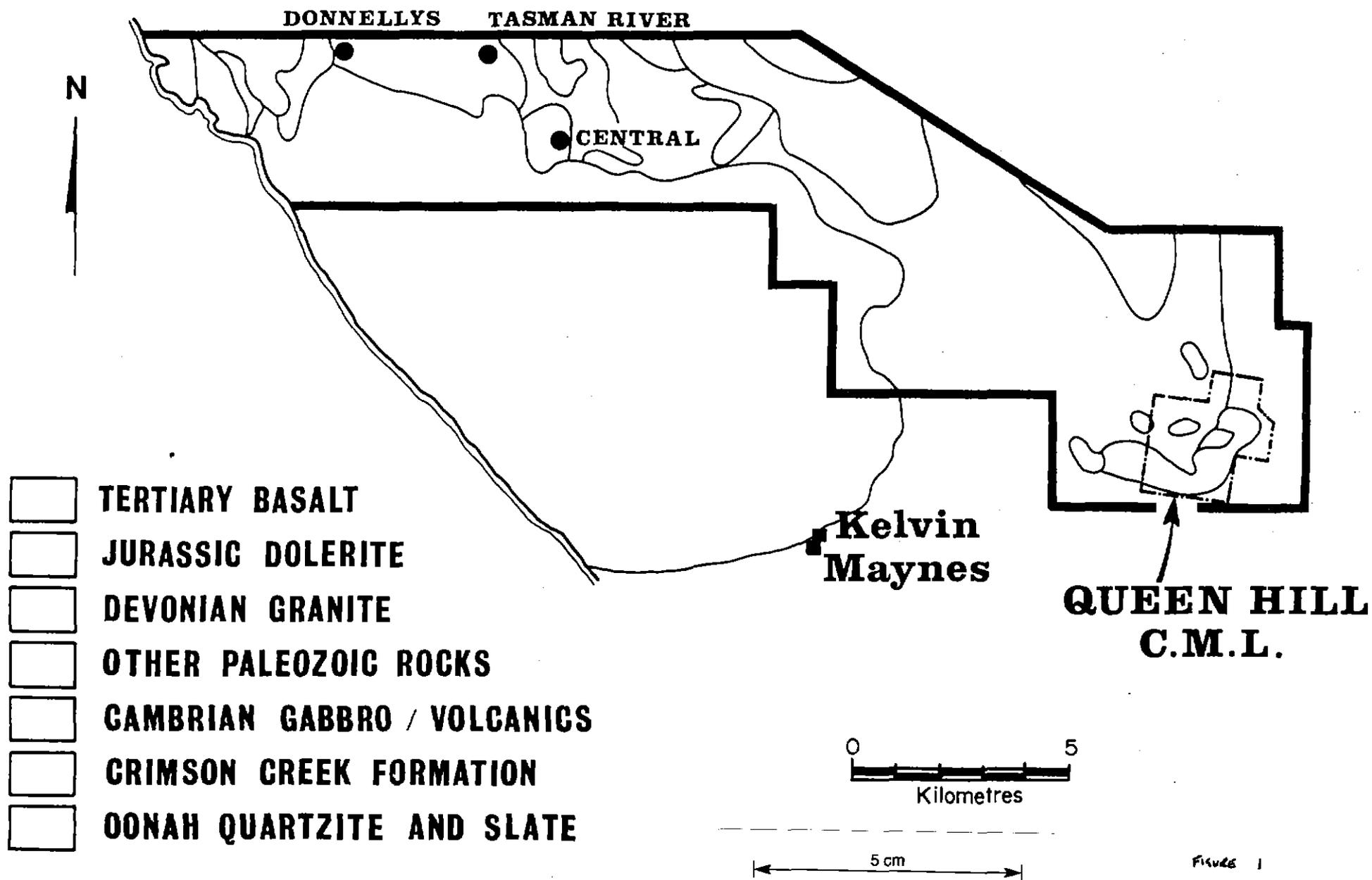


FIGURE 1

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North-south (magnetic) grid lines were cut at 50 metre intervals across the leases with pegs every 25 metres. A licensed surveyor was contracted to survey in all grid pegs and pick up all significant topographic features. Base maps (attached) were then prepared at a scale of 1:500 with a contour interval of 2 metres.

GEOLOGY

All grid lines, creeks and workings were geologically mapped and a set of plans prepared for each Mining Lease (Plates MAY 3A, 3B and KEL 3A, 3B) at 1:500 scale.

The main rock types observed on the leases are as follows with petrological descriptions contained in Appendix II:

HEEMSKIRK GRANITE outcrops on the northern portion of the Kelvin Lease as a generally medium grained, pink-cream, quartz - two feldspar biotite granite. A bright pink variety was recorded in the north-east corner of the lease. The granite exhibits aplitic margins and is locally greisenised containing quartz, topaz, dark green-black tourmaline and disseminated sulphides.

OGNAH QUARTZITE AND SLATE outcrops on both leases as the principal metasomatised sedimentary rock type. Individual units are locally complex and range from tourmalinised metaquartzite to calc-silicate assemblages and skarns. Away

From the mine workings outcrop is sparse and without costeaming, only very general geological correlation is possible.

CRIMSON CREEK FORMATION (?) has been tentatively recognised on the leases as massive black commonly calcareous mudstone with rare relict bedding.

Skarn mineralogy with disseminated pyrrhotite is locally developed. Ground magnetics is currently the best means of defining the surface extent of this unit.

The main open cut workings on the leases were examined (refer attached plans and Appendices III and IV) and the following observations made:

Mayne's No.1 Open Cut

Minor black tourmaline veinlets are present ranging from less than 1mm to 3cm. No major veins were seen. The two pyritic veins at 35 and 44 feet mentioned by Keid (1943) were not observed.

Mayne's No.2 Open Cut

A sub-horizontal quartz-black tourmaline vein dipping to the east was seen in a small trench grid reference 5300N 5280E. The vein thickness varies from 1mm to gouged vugs 6cm thick. At the eastern end of the trench 30cm wide quartzite fragments in a black tourmaline breccia matrix with some green tourmaline occurs.

On the east side of open cut No. 2, 4.0m north of the entrance, a 2cm sub-horizontal black tourmaline vein with a dip of 10° south occurs at the height of 2.0m and continues to the entrance. Black tourmaline veinlets of less than 1mm thickness are common in the open cut.

In the north east corner of the open cut a vuggy grey-green tourmaline vein is exposed which has been gouged out in a number of places as shown in the diagram. No other veining was observed in the open cut.

Although the narrow pyritic vein mentioned by Keid at 16 feet from the entrance on the eastern wall was not observed, a 1-2cm pyritic nodule was seen at approximately the same position.

Mayne's No.3 Open Cut

As noted in the sampling (Appendix VI), vuggy quartz-black tourmaline rock occurs on the southern face and up to grid peg 5250E 5300N. Boulders of the same rock type occur next to a shaft in an adit connecting No. 3 open cut with No. 4 open cut. A green film is seen on pink quartzite in a small adit opposite the connecting adit mentioned above as well as some vein quartz material in the face of the adit.

Mayne's No.4 Open Cut

This is a very irregular series of excavations. Near the entrance of the east-west cut, at grid reference 5300N 5235E, is a remnant block of green tourmaline disseminated quartzite.

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5.

The quartzite north and south of this cut shows strong black tourmaline banding replacing bedding and small scale folding is common. Green tourmaline vein material is common as float and also in quartzite near the entrance of the cut (survey reading 46.2) and in the western most cut (survey reading 48.9, Plate MAY 2).

Mayne's No.5 Open Cut

As shown in diagram of adits (Appendix III) the two southern most adits near the top of the ridge contain a sub-horizontal grey-green tourmaline vein with a dip to the east and up to 60cm wide. This vein clearly has not been worked out and may extend further south and east into the hillside.

Kelvin No.1 and No.2 Open Cuts

These workings occur on a sub-horizontal vein or veins of grey-green tourmaline - white kaolin clay. The vein seen in the large adit of Kelvin No. 2 open cut is possibly the same one seen at floor level in the face of No. 1 open cut. Above No. 1 open cut, in a trench beside the road, a green tourmaline vein outcrops (Sample 251635).

The blasted area on the east bank of Pykes Creek (samples 251631 and 251634) consisting of green-black tourmaline with quartz crystals to 3cm is the same rock type that occurs at the top of the ridge. The formation is mentioned by Keid (1943) and 'is said to carry good tin values' on the summit of the hill.

Minor pyrite disseminated granite was noted in Pykes Creek (grid ref 5178E 5670N, sample 251632) and at (5181E 5675N, sample 251633).

Some of the workings on the leases were recently examined by Peter Collins of the Tasmania Department of Mines. These observations, particularly of the previously inaccessible Ophir Creek adit, are recorded in Appendix IV.

GEOPHYSICS

A ground magnetic survey was completed over both leases. All cut lines were read with stations at 10 metre intervals. Contour plans were prepared at 1:500 scale (Plates MAY 2A, 2B, KEL 2A, 2B). Magnetic profiles are attached as Appendix V. Ground magnetics proved a useful tool in delineating mudstone due to the disseminated pyrrhotite. The mine workings are located in magnetically anomalous areas reflecting the weak and pervasive skarn - greisen development.

GEOCHEMISTRY

Routine soil sampling of grid lines was not carried out on the leases due to the widespread contamination caused by excavation. Rock chip samples were collected at selected locations where mineralisation was suspected and to support petrological work. (Refer geological plans)

Channel samples (86) were collected from open cuts and adits and submitted for tin analysis (Appendix VI) to determine the

extent and tenor of mineralisations. A predictably large spread of tin values was recorded up to a peak of 3.9% Sn from the Kelvin No. 2 open cut. Results from the Ophir Creek adit are generally disappointing (max 0.55% Sn) and do not support the high values (up to 2.0% Sn) reported from these workings (McDermott pers comm).

CONCLUSIONS

A detailed evaluation of the Mayne's and Kelvin Leases involving geological mapping, rock geochemistry and ground magnetics is now completed.

The main workings are in metasomatised Oonah Quartzite and Slate within the contact aureole of the Heemskirk Granite. Mineralisation consists of stockwork veins of tourmaline \pm cassiterite and minor sulphide which are possibly joint controlled. The main vein set is sub-horizontal with thicknesses up to one metre recorded, although most veins observed during the current mapping attained only several centimetres thickness. Geochemical sampling indicates that these veins may locally contain high (up to 4.0%) tin, but that the host metaquartzites are generally barren. A positive structural control of vein distribution and significant vein concentrations were not established during the evaluation programme.

Within the Heemskirk Granite in the Ophir Creek area, zones of

silicification and tourmalinisation are locally developed containing disseminated sulphides (typically arsenopyrite).

Sampling of these zones exposed in the Ophir adit returned disappointing results.

Ground EM (Max-Min) and costeaning to provide bedrock samples may aid target definition, but ultimately the best means of establishing vein disposition, concentration and tin content is by grid controlled percussion/diamond drilling.

The scope of the next phase of exploration is currently under review.

* * * * *

REFERENCES

KEID, H. G. W. (1943) : The South Heemskirk Tinfield.
Rep Department of Mines. Tas.

* * * * *

EXPENDITURE

The summary of expenditure for the Mayne's and Kelvin Leases pertains to the twelve month period ending November 14, 1983.

GEOLOGY	1,559
SURVEY	13,829
GEOPHYSICS	3,699
GEOCHEMISTRY	970
TENURE	80
LEGAL	696
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DIRECT COSTS	20,833
INDIRECT COSTS (ADMIN)	3,125
	<hr/>
TOTAL	23,958
OPTION PAYMENTS	7,000
	<hr/>
PROJECT TOTAL	\$30,958
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APPENDIX I

SUMMARY OF OPTION TERMS

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MAYNE'S LEASE (ML 4M/73) - F. J. GRIFFITHS

Option agreement signed on March 21, 1983 for a purchase price of \$100,000 less option payments over four and a half years. Initial six months free examination from date of signing, followed by four consecutive annual payments of \$2,000, due on September 21 each year. Aberfoyle Exploration has the right to withdraw at any stage upon submitting written notice.

KELVIN LEASE (ML 50M/81) - K. McDERMOTT

Option agreement signed on June 14, 1983 for a purchase price of \$100,000 less option payments over three and a quarter years. Initial three months free examination from date of signing, then twelve months at \$5,000, a further twelve months at \$5,000, and a final twelve months at \$10,000. Aberfoyle Exploration has the right to withdraw at any stage upon giving written notice.

Both leases have 21 years term from date of granting.

Initial option payments were met to secure a further twelve month term on both leases.

APPENDIX II

PETROLOGICAL DESCRIPTIONS

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Central Mineralogical Services



39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

The Chief Geologist
Aberfoyle Exploration Pty. Ltd.
P.O. Box 952
BURNIE / TAS. 7320

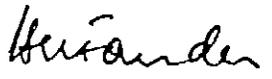
2nd September, 1983

REPORT CMS 83/8/32

YOUR REFERENCE: Order No. 6338
DATE RECEIVED: 18th August, 1983
SAMPLE NOS.: 251551 - 251559
SUBMITTED BY: M. Rombouts
WORK REQUESTED: Petrology

Copy to:
Mr. M. Rombouts
Geologist
Aberfoyle Exploration Pty. Ltd.
P.O. Box 277
ZEEHAN / TAS. 7469

The Chief Geologist
Aberfoyle Exploration Pty. Ltd.
144, Camberwell Road
HAWTHORN EAST / VIC. 3123


H.W. Fander, M. Sc.

REPORT CMS 83/8/32Kelvin and Maynes Mines, South Heemskirk

Nine rock samples were received for petrological study; thin-sections were prepared and examined, and are briefly described in the accompanying table.

Summary

Most of the rocks are extensively metasomatised, almost unrecognisable sediments, or are totally pyrometasomatised to massive skarns. Other rocks include a tourmalinised metaquartzite with cassiterite, a metaquartzite with andalusite (contact-metamorphism), and an extensively greisenised granite. Tourmaline is rare, occurring in only two rocks, as brown dravite and dark green-black schorl. The common green mineral in these rocks is a metasomatic amphibole.

Several rocks contain Mg-silicate assemblages which are usually formed under medium- to high-grade metasomatic conditions, and in which any Sn present tends to be concealed in silicates (in solid solution), rather than occurring as cassiterite.

Many of the rocks have a somewhat different composition from that deduced from hand specimen examinations, because they are complex and easily confused with others; some are relatively uncommon.

In a few cases, some interpretation of original rock types was possible, though tentative.

H.W. Fander, M. Sc.

No.	Rock Type - Composition	Fabric	Minerals	Remarks
51-51 T.S. (826)	<u>Calc-Silicate Rock</u> . Composed of micro-crystalline quartz with varying amounts of finely granular diopside, hornblende and magnetite; pyrrhotite-hornblende patches, veins.	Finely granular with weak relict banding in places. Replacive textures. Veins.	Granular sphene in hornblende veins.	The dark green mineral is hornblende and no tourmaline was detected. Original rock was impure chert or fine sediment.
51-52	<u>Skarn</u> . Crudely ovoid granular diopside patches, extensively replaced by brown cummingtonite (Mg-amphibole) as matted masses; irregular pyrrhotite grains.	Granular interlocking textures; relict fabric possibly indicating serpentinite.	A few scattered irregular chromite grains. Interstitial quartz, sericite, fine sphene.	Believed to have been a serpentinite based on fabric and presence of chromite; completely metasomatised to Mg-silicate assemblage.
51-53	<u>Metasomatised Sediment</u> . Mainly composed of small matted hornblende crystals with dispersed fine pyrrhotite; bands of fine quartz with variable hornblende and magnetite.	Most of rock is massive, featureless; some banding, relict bedding; fine-grained.	Ultrafine diopside in quartzose bands. Streaks of fine leucoxene.	Probably originally a carbonate rock with cherty bands, thoroughly pyrometasomatised in skarn-type situation.
51-54	<u>Mg-Silicate Skarn</u> . Dominantly composed of interlocking coarsely-granular clinohumite, with interspersed acicular tremolite and aggregates of pale phlogopite flakes.	Random medium/coarse-grained fabric. No relict features, structureless.	Fine magnetite throughout. Aggregates of ultrafine green spinel. Clusters of small apatite grains.	A pyrometamorphic rock, probably originating from a dolostone. Any Sn present in such rocks is generally in silicate form.
51-55	<u>Cummingtonite-Phlogopite Rock</u> . Intergrowth of coarse flakes of pale phlogopite and large crystals of pale brown cummingtonite; interstitial colourless fluorite masses.	Random coarsely-crystalline fabric. No relict features. Skarn-type structure.	Minor quartz. Apatite clusters. Well-formed, partly metamict xenotime crystals.	Related to the previous rock, i.e. an Mg-silicate assemblage of pyrometamorphic formation. Cummingtonite proxies for clinohumite.
51-56	<u>Metasomatised Sediment</u> . Extensive development of granular to prismatic diopside, replacing fine-grained sediment; dispersed fine pyrrhotite; relict sericite.	Fine relict bedding accentuated by thin leucoxene streaks. Minor folding.	Thin prehnite veinlets. Ultrafine leucoxene as closely-spaced parallel laminae.	Very probably a calcareous or dolomitic, finely laminated rock originally, with argillaceous material; thoroughly pyrometasomatised.
51-57	<u>Andalusite-Metaquartzite</u> . Mostly finely intergrown mosaic quartz and vague sericite aggregates, generally weakly Fe-stained. Scattered andalusite porphyroblasts.	Finely-granular fabric with slightly coarser lenses. Random porphyroblasts.	A few biotite shreds and small dravite needles. Small oxidised pyrite grains.	Andalusite is a product of thermal metamorphism. Rock was argillaceous siltstone(?). Brecciated before andalusite formation.
51-58	<u>Mineralised, Tourmalinised Metaquartzite</u> . Uniform fine mosaic quartz, partly replaced by networks of matted dravite veins, with isolated <u>cassiterite</u> crystals up to 600 μ across.	Faint preferred fabric of quartzite is continuous, i.e. no displacement or rotation of adjacent	Rare small detrital zircon grains.	Cassiterite occurs as well-formed crystals in association with dravite (Mg-tourmaline). Host rock may have been chert originally.

fragments.

51- 29 T.S. 6834)	Greisenised Granite. Coarse shapeless quartz, and quartz-topaz pseudomorphs after feldspars; pyrite grains, representing altered pyrrhotite, occur throughout. Most topaz is cloudy.	Feldspar pseudomorphs indicate K-feldspar derivation. Typical granitic fabric.	A few groups of radiating dark green schorl needles, intergrown with topaz.	Originally an alkali granite, thoroughly greisenised. No cassiterite detected. Whitish appearance due to cloudy fine topaz.

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Aberfoyle

H. B. B. B.

Photo

MAYNES & KELVIN M'S

WEATHERED SURFACE
 SURFACE TRANSPORTED
 RESIDUAL SOIL
 QUARTZ DUFF

CORRECTION PRINT
 YES NO YES NO

15-8-83 1021

ELEVATION	EASTING	NORTHING	SITE CHARACTERISTICS	ANALYTICAL VALUES (%)										GEOLOGICAL	LOC	
				Si	Al	Fe	Mn	Mg	Ca	Na	K	Ti	P			
5225	5390	251551	R												Grey silicified mudstone & green tourmaline & Pb blebs & stringers	
5050	5225	251552	R												Grey silicified & brecciated mudstone & dissemin. Pb	
5550	5135	251553	R												Grey silicified mudstone & green tourmalinised bands & dissemin. Pb	
5250	5418	251554	R												Altered grey mudstone & dissemin. Pb, sph. Fe near gneiss veining	
5250	5430	251555	R												Quartzite with gneiss veining in pink quartzite	
~ 1 km north-east of Maynes workings			R												Silicified & strom. altered mudstone & dissemin. Pb 5-10%	
5350	5275	251557	E												Siderite-chlorite? altered argill. accos quartzite, similar to Maynes. A open cut hanging wall to green tourmaline vein.	
5250	5074	251558	R												Brown tourmaline brecciated quartzite	
5342	5717	251559	R												Wg. quartz-plag-bk tourmaline granite & disseminated Pb 20%	

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RECEIVED

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Central Mineralogical Services



39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

The Chief Geologist
Aberfoyle Exploration Pty. Ltd.
P.O. Box 952
BURNIE / TAS. 7320

20th September, 1983

REPORT CMS 83/9/11

YOUR REFERENCE:	Order No. 6350
DATE RECEIVED:	12th September, 1983
SAMPLE NOS.:	4 Samples
SUBMITTED BY:	M. Rombouts
WORK REQUESTED:	Petrology

Copy to:
Mr. M. Rombouts
Geologist
Aberfoyle Exploration Pty. Ltd.
P.O. Box 277
ZEEHAN / TAS. 7469

H.W. Fander
H.W. Fander, M. Sc.

The Chief Geologist
Aberfoyle Exploration Pty. Ltd.
144, Camberwell Road
HAWTHORN EAST / VIC. 3123

REPORT CMS 83/9/11Samples from Kelvin and Orient Mines

Four rock samples were received for thin-section preparation and petrological examination; offcuts were subjected to potash-stain tests. The samples are briefly described in the accompanying table.

Summary

Sample 626 is very extensively tourmalinised, but is clearly recognisable as a former granite; no cassiterite was detected in this particular thin-section, but could be present elsewhere. There is an interesting contrast between the fine pale green tourmaline replacing feldspars, and the coarser, dark brown, colour-zoned tourmaline; it is not known whether this may be significant within the context of tin mineralisation.

Sample 636 and 637 have very similar composition, but different fabric; this would be more obvious in outcrop. It is not known whether subtle details, such as the occurrence of rutilated quartz, are meaningful and can be used to distinguish between otherwise similar rocks; this would need to be tested by studying further samples.

Sample 648 is clearly igneous-related and may be a dyke, boss or other small body. The thorough sericitisation undergone by this rock is absent in the others.

H.W. Fander, M. Sc.

		Fabric	Minerals	Name
251-626 (T.S. 47158)	<u>Tourmalinised Granite.</u> Feldspars pseudomorphed by aggregates of fine radiating tourmaline needles; porphyroblastic coarse colour-zoned tourmaline; stressed quartz patches.	Relict coarsely-crystalline granitic fabric preserved; good relict textures.	Accessory primary zircon; leucoxenitic rutile released from biotite.	"Granite" used in a broad sense, since feldspars are all replaced and indeterminate. Probably related to the Heemskirk Granite.
251-636	<u>Biotite Granite.</u> About 40 % subhedral microperthitic orthoclase, 40 % anhedral quartz, 10-15 % oligoclase-albite, incipiently sericitised, and 5-10 % very dark biotite flakes.	Coarse hypidiomorphic-granular fabric. Zoned plagioclase textures. Microfractured.	Isolated radiating tourmaline needles and smaller grains. Zircon; rutile needles in quartz.	Quite fresh classical granite, incipiently tourmalinised; probably the fresh equivalent of 626.
251-637	<u>Biotite Granite.</u> About 40 % microperthitic orthoclase (some is mantled with plagioclase), 40 % subhedral quartz, 15 % prismatic oligoclase, 5 % dark biotite.	Typical granitic fabric; weakly porphyritic, with mantled feldspar phenocrysts.	Accessory apatite and zircon. Traces of fine replacive tourmaline.	Very similar composition to 636 in every respect, though fabric differs slightly. Plagioclase is preferentially argillised.
51-48 T.S. 7161)	<u>Sericitised Microgranite/Aplite.</u> Consists of approximately equal amounts of granular quartz and completely sericitised feldspars. Cut by veinlets of dark replacive tourmaline.	Uniform, medium-grained, with relict micrographic intergrowth textures in places.	Isolated cloudy grains of ?allanite and ?xenotime.	Homogeneity in keeping with an aplite or featureless microgranite. No biotite detected. Tourmaline is younger than sericitisation.

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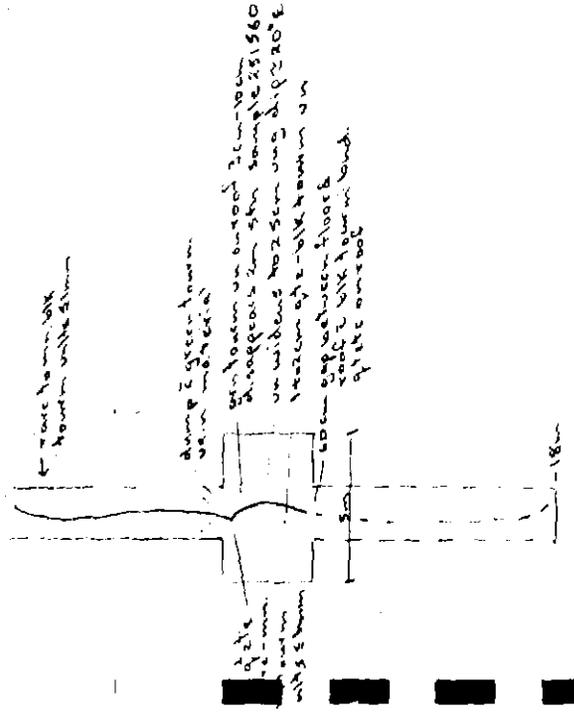
APPENDIX III

SKETCH MAPS OF WORKINGS

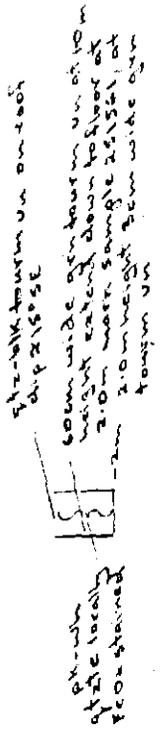
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Woods Hole Open-ct. site

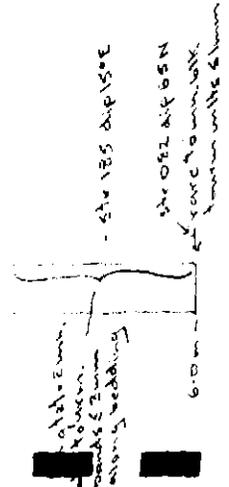
Adit survey reading
3.94
(35)



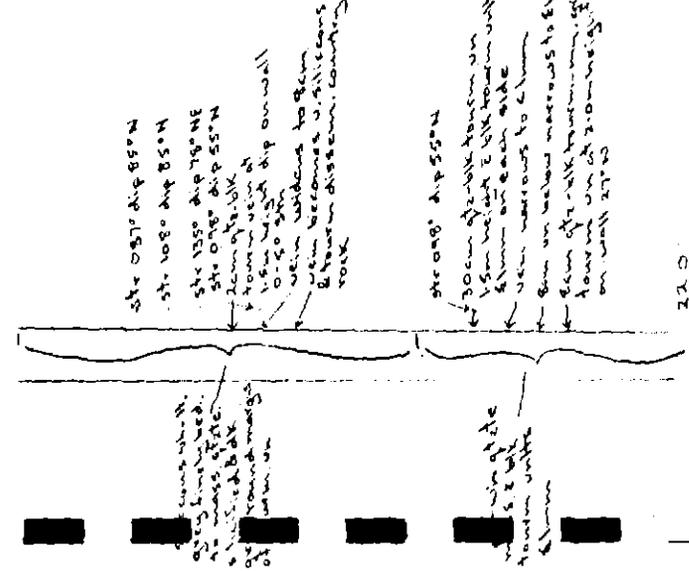
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(37)



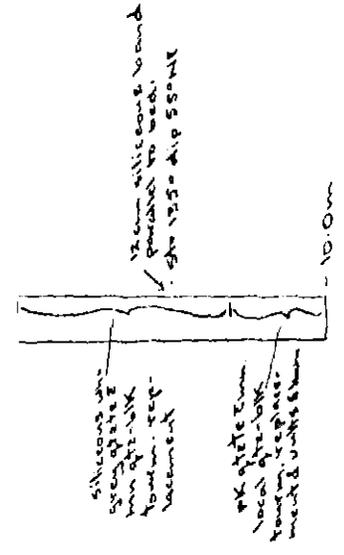
Adit survey reading
40.8
(56)



Adit survey reading
34.0
(5A)

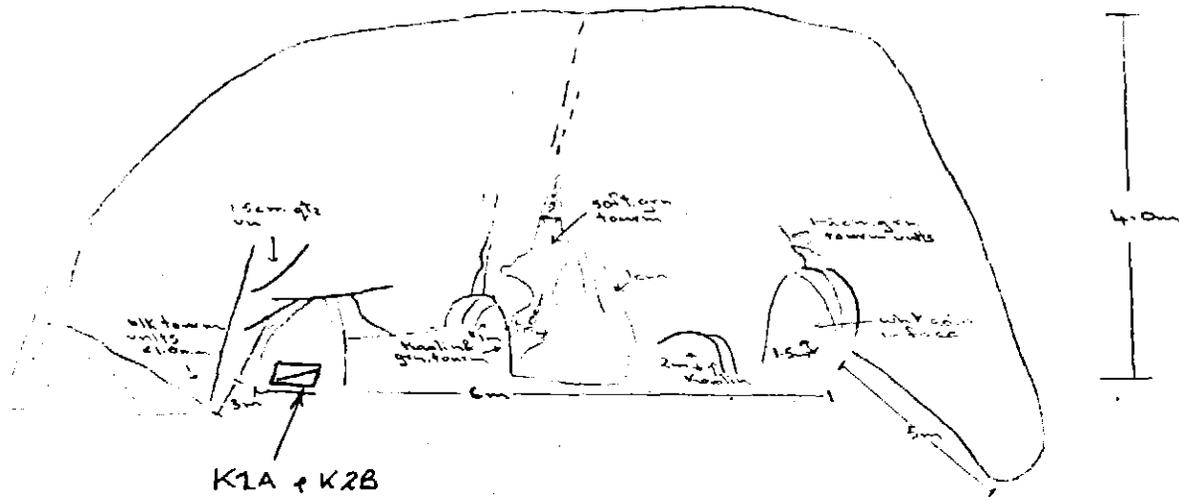


Adit survey reading
31.8
(5B)

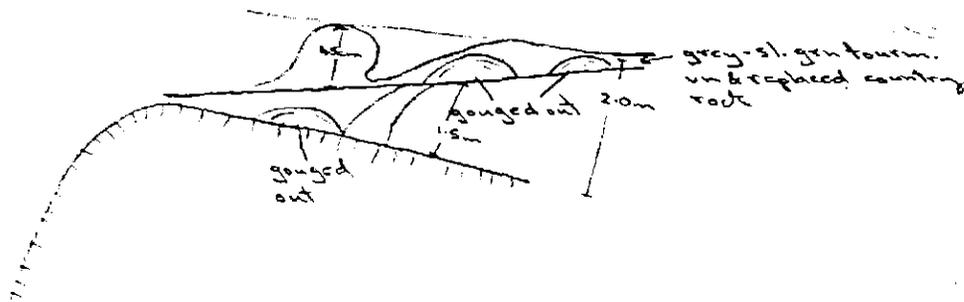


12.0

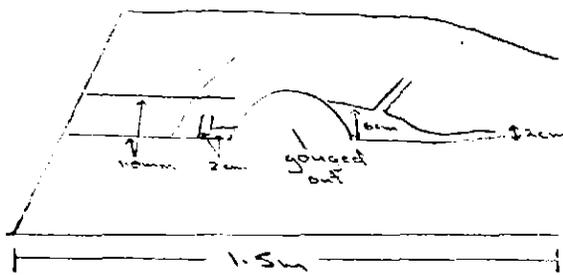
12.5 survey readings taken from Adit No. 10



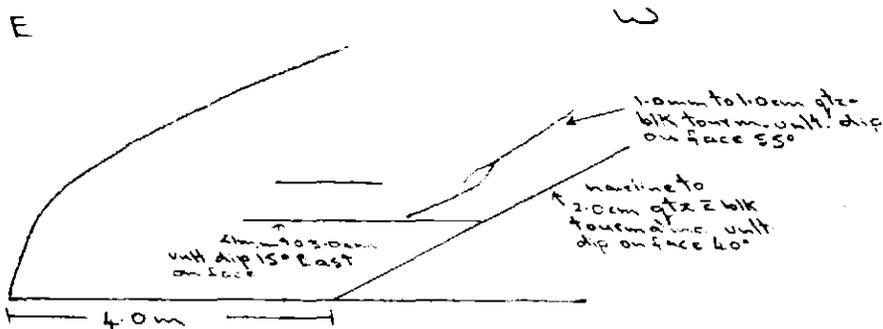
N° 2 Open cut NW-east corner (Maynes)



Trench grid ref. 5300N 5281E (Maynes)



Entrance of N° 1. Open cut southern face. (Maynes)

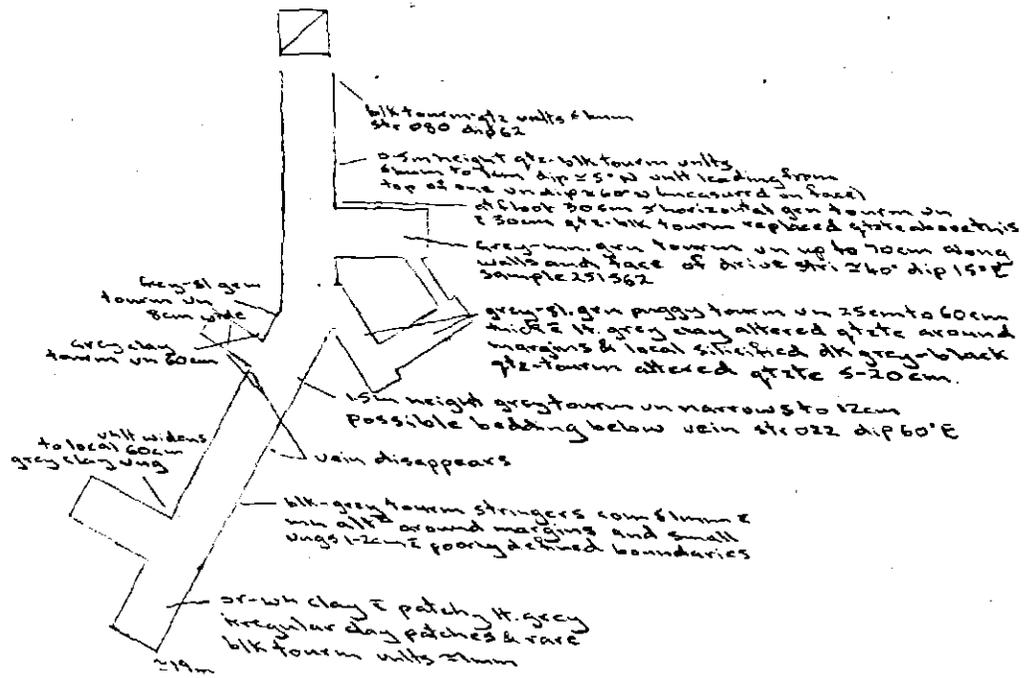


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Kelvin No 2 Open Cut

75 031

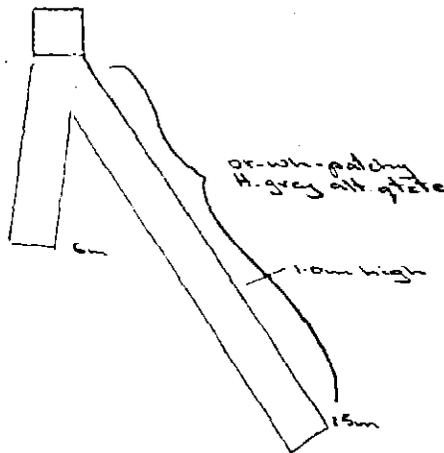
K2A



base of 4.0m deep shaft

K2B

Second adit down shaft



Scale 1:250

APPENDIX IV

NOTES BY P.L.F. COLLINS, SENIOR GEOLOGIST

DEPARTMENT OF MINES, TASMANIA

MAYNES MINE

1. These workings have not been examined in detail, as it was proposed to carry out a detailed investigation at a later date.
2. Host rocks:- Oonah Formation composed predominantly of quartzites trending E to SE, and dipping steeply N to NE, but there is also evidence of tight folding.
3. Mineralisation:- There are three main types of quartz - tourmaline mineralisation (\pm cassiterite) with only minor sulphides. These are:-
 - i) Steeply dipping quartz-tourmaline veins. These have an irregular orientation and are variable in thickness (generally <50mm).
 - ii) "Flat" veins which are much thicker (up to 1 m) and appear to have filled broad, open joints. In places these veins contain breccias consisting of angular blocks of quartzite (altered) in a fine grained quartz-tourmaline matrix. The open framework breccias have a similar texture to hydrothermal breccia in Bolivian porphyry-type tin deposits.
 - iii) Quartz and tourmaline indurated quartzite and associated (?) quartz-tourmaline stringer veins sub-parallel to bedding.
4. A drill hole collar is located in one of the open cuts (see attached diagram) and this may be the drill core held by Aberfoyle at Burnie.
5. This is geologically a very interesting prospect and warrants further investigation including detailed mapping (preferably plane table survey at 1:100 or 1:200 scale) and detailed systematic sampling. To fully test this deposit, at least two drill holes would be required (a vertical hole to intersect granite, and an inclined hole with orientation and location dependent on mapping and sampling).

KELVIN WORKINGS

1. These have not been examined in detail, mainly due to the lousy exposure. However, what mineralisation is visible in the open cut appears to be similar to that at Maynes mine, but not as intensely veined. It is also lacking the intense tourmalinisation and large "flat" veins.
2. The two adits to the east of Pykes Creek have not been examined (inaccessible), but the occurrence of large (about 10 mm) books of molybdenite on the dump material warrants further investigation. It may be possible to re-open these adits, though I would be dubious of their safety.

OPHIR CREEK WORKINGS

1. These workings have not been previously described in detail. The main adit has been recently re-opened by R. McDermott and he also made a small excavation on the west bank of Ophir Creek, near the hairpin bend.
2. Details of surface mapping, and mapping of the long adit are shown on the attached diagram (tape and compass survey, December 1982).
3. Host rock:- Weathered, white-pink, equigranular, medium grained biotite granite/adamellite. There is some alteration of feldspars in fresh granite; and it is silicified adjacent to joints. The dominant joint set trends 120° - 130° Mag. and dips 50° - 70° SW.
4. Mineralisation:-
 - i) There appear to be at least 3 alteration zones in the adit at 34-40 m, 61-62 m and 65-72 m from the portal.
 - ii) These zones are defined by silicification and minor tourmalinisation of granite adjacent to joints, and contain disseminated sulphides (arsenopyrite, pyrite, chalcopyrite, sphalerite) and rare visible cassiterite. An arsenopyrite rich section occurs near the cross-cut. The boundaries between the granite and altered granite are vague but the altered zones stand out in the adit as hard, angular, blocky sections whereas in the weathered granite, the walls and backs are smooth and rounded.
 - iii) McDermott reported assays by Renison indicating 0.08 - 2.0% Sn plus Bi, Mo, W, As in samples from the adit (but did not have assay sheets).
 - iv) On the surface there are two siliceous zones (with minor sulphides) trending 120° - 130° M. These probably represent the two main alteration zones in the adit, though this seems less likely on your surveyed plan when compared to my plan.
 - v) McDermott's excavation in Ophir Creek is offset from the trend of the siliceous zone east of the creek and probably reflects a N trending fault. The excavation revealed parallel alteration zones, up to 0.5 m wide, similar to alteration zones in the adit.

035

5. No sampling for assaying purposes was undertaken, but if results of any systematic sampling in the adit were sufficiently high (e.g. 0.5 - 1% Sn in the alteration zones) then an inclined drill hole to intersect the alteration zones 50 -100 m below the adit would be worthwhile.
6. There are similar siliceous zones located to the north-east of the adit which may warrant further examination, but these would be close to the lease boundary.

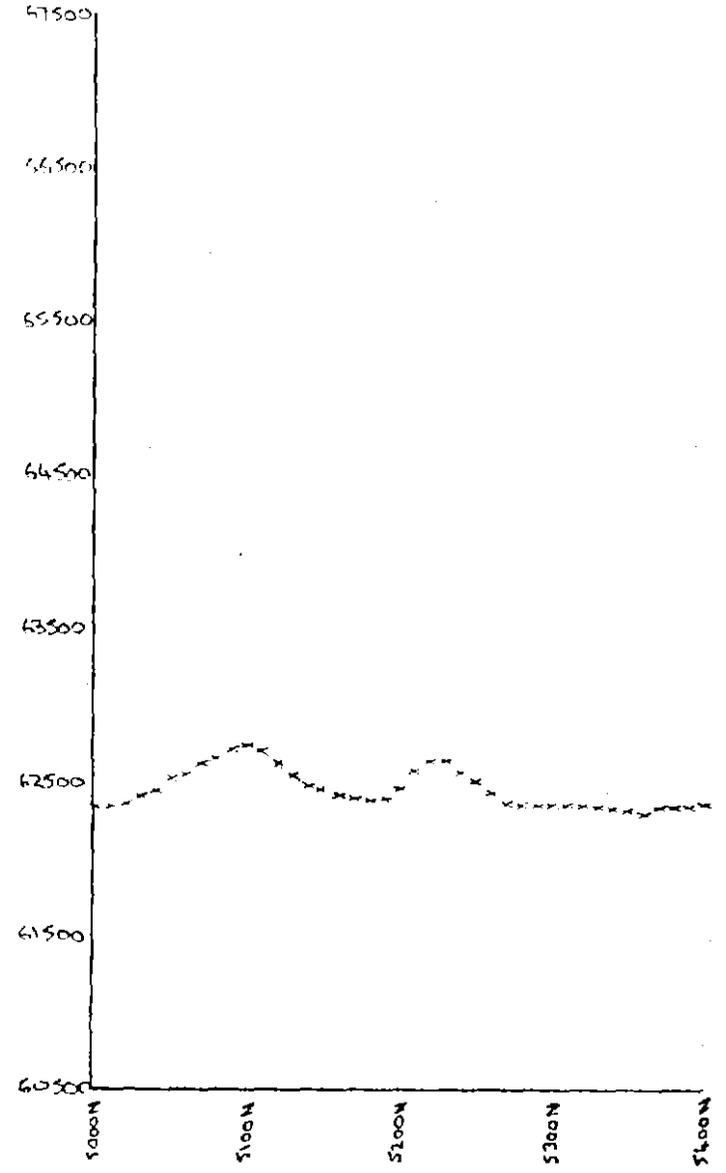
APPENDIX V

GROUND MAGNETIC PROFILES

030

Geology: MSR	NORTH WEST TASMANIA MAYNES LEASE 4M/73 Ground Magnetics Grid Line 5000E	Location Code: K55/5
Drawn: MSR		Date: Aug 1983
		Scale: 1:5000

5 cm



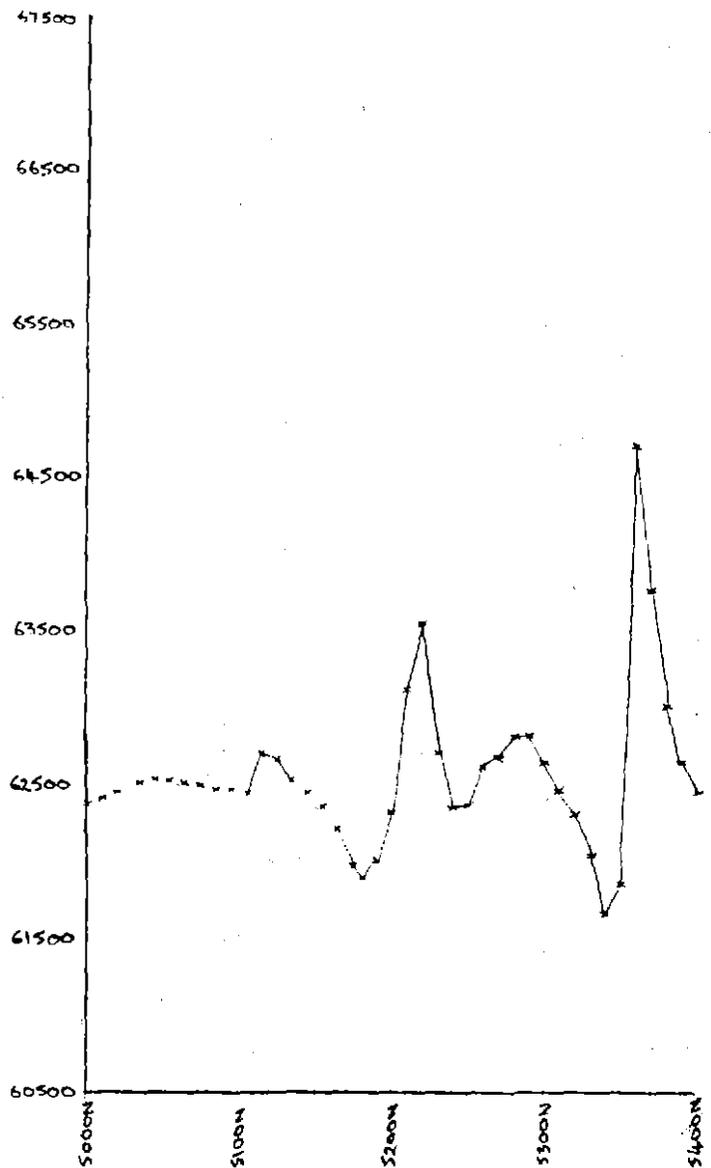
1. 200m x 100m area
 2. 25m wide path
 3. 25m wide path
 4. 25m wide path
 5. 25m wide path
 6. 25m wide path
 7. 25m wide path
 8. 25m wide path
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 99. 25m wide path
 100. 25m wide path

75 039

039

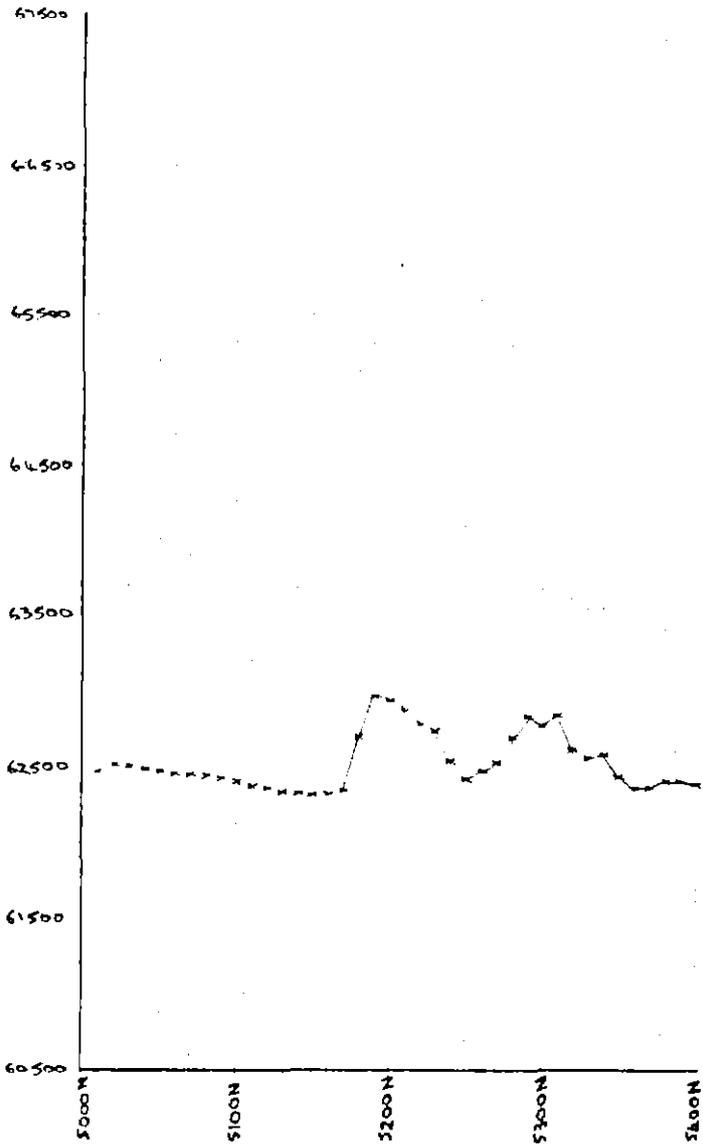
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Geology: MJA	NORTH WEST TASMANIA MAYNES LEASE 4M/73 Ground Magnetics Grid Line 5050E	Location Code: K55/S
Drawn: MJA		Date: Aug 1983
		Scale: 1:5000



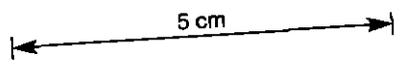
5 cm

5000S
 5015S
 5025S
 5035S
 5045S



(1) 5000E - 10015
 (2) 10015 - 12005
 (3) 12005 - 14005
 (4) 14005 - 16005

Geology: MJR	NORTH WEST TASMANIA MAYNES LEASE 4M/73	Location Code: K55/S
Drawn: MJR		Date: Aug 1983
	Ground Magnetics	Scale: 1:5000
	Grid Line 5100E	



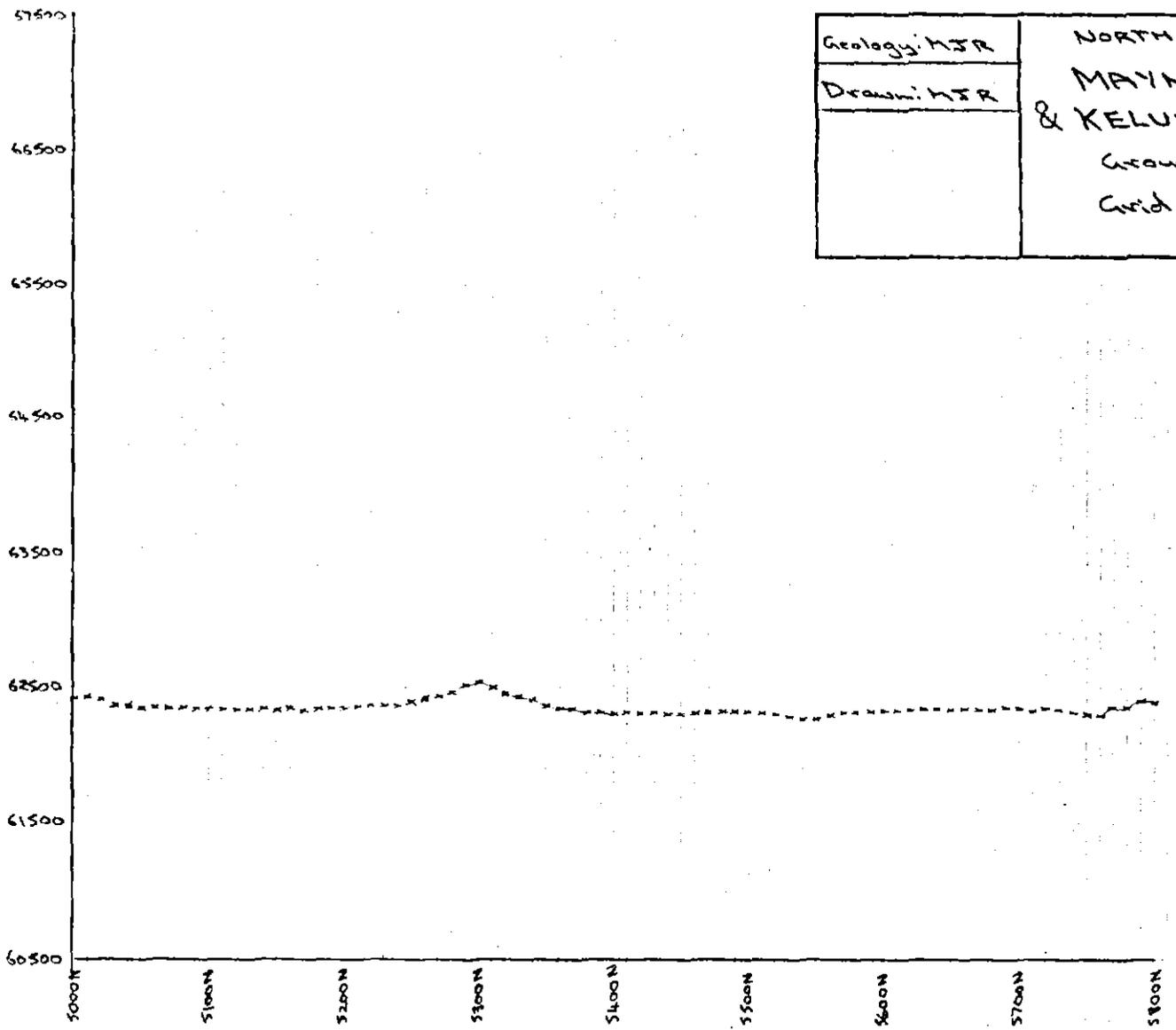
040

75 041

041

Geology: HJR	NORTH WEST TASMANIA MAYNES LEASE 41/73 & KELVIN LEASE Ground Magnetics Grid Line 5150E	Location Code: K5515
Drawn: HJR		Date: Aug 1983
		Scale: 1:5000

5 cm

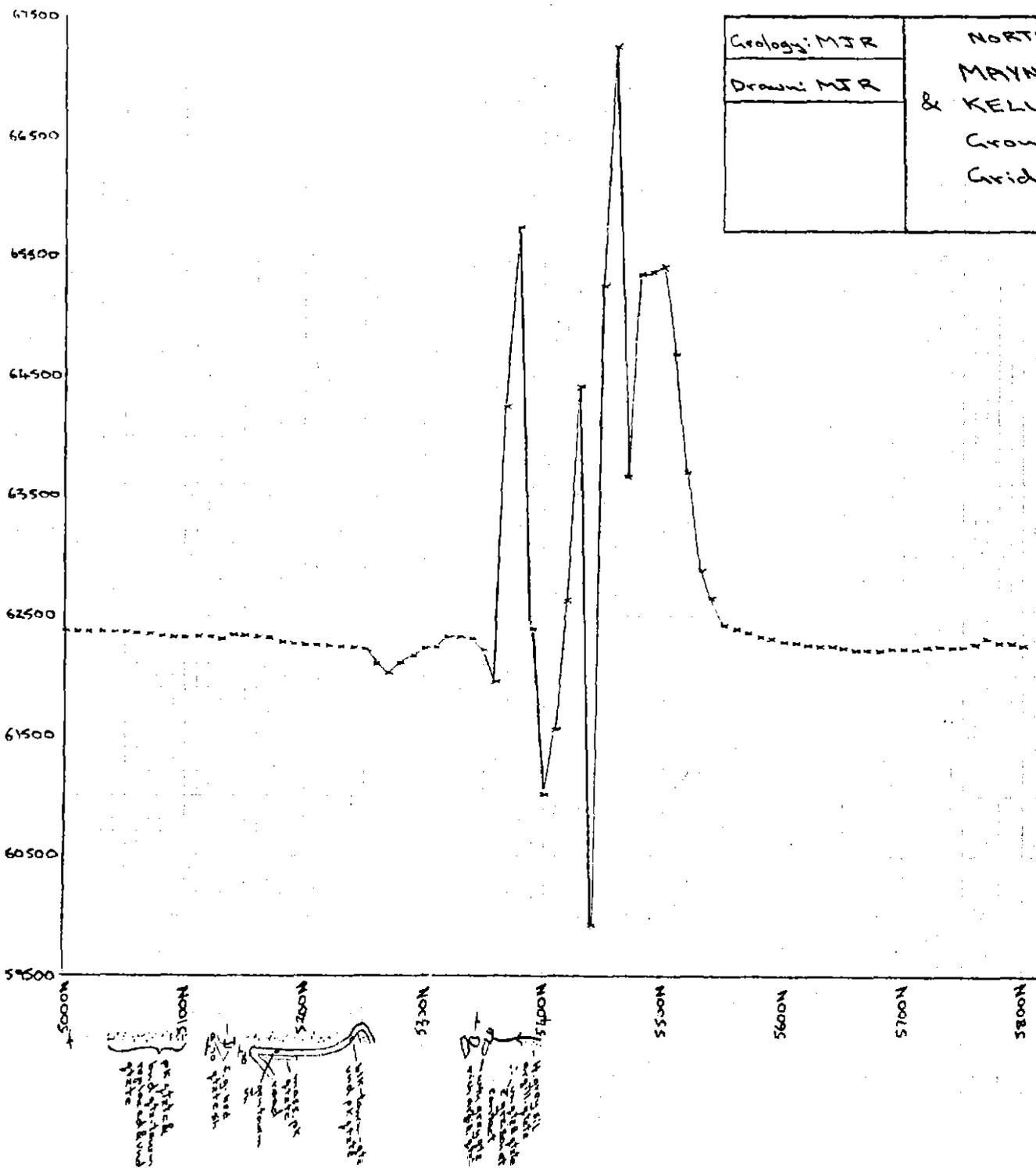


5000E
 5100E
 5200E
 5300E
 5400E
 5500E
 5600E
 5700E

60500
 61500
 62500
 63500
 64500
 65500
 66500
 67500

5000E
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 5200E
 5300E
 5400E
 5500E
 5600E
 5700E

75 042



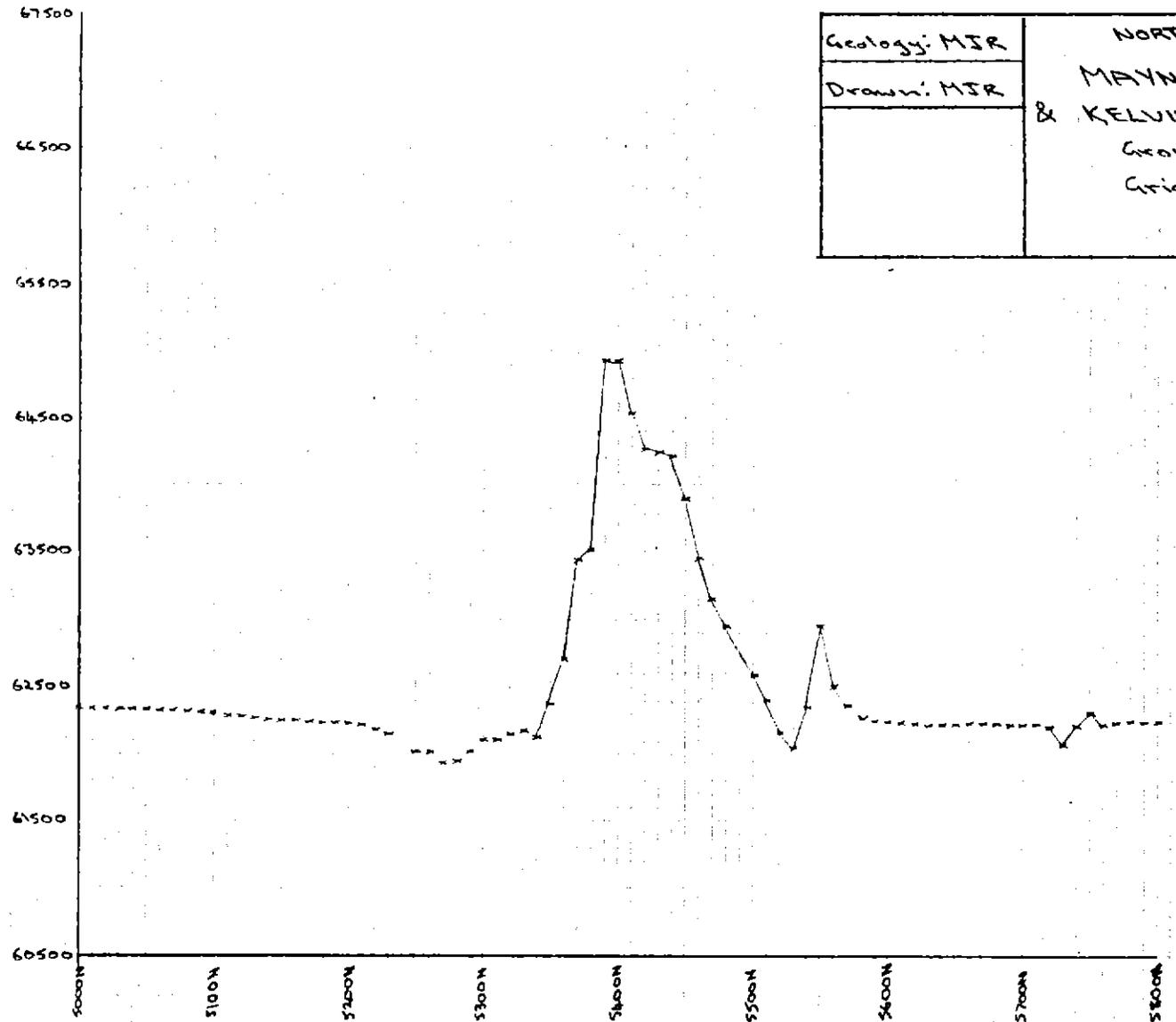
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Drawn: MJR		Date: Aug 1983
		Scale: 1:5000

043

75 044

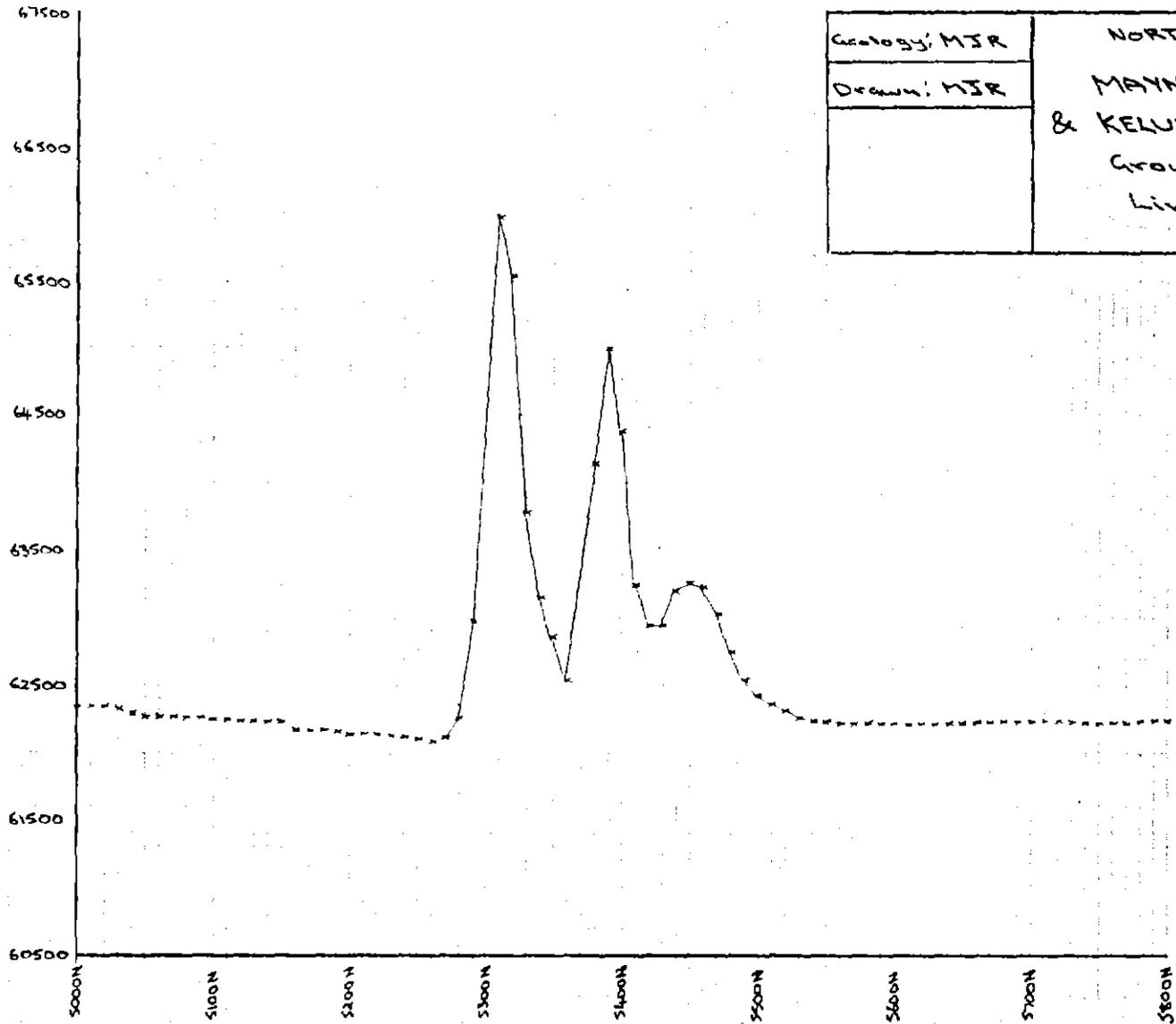
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Drawn: MJR		Date: Aug 1983
	Ground Magnetics Grid Line S300E	Scale: 1:5000

044



5 cm

N0005 - 100m of 500m
 N0015 - 100m of 500m
 N0025 - 100m of 500m
 N0035 - 100m of 500m
 N0045 - 100m of 500m
 N0055 - 100m of 500m
 N0065 - 100m of 500m
 N0075 - 100m of 500m
 N0085 - 100m of 500m



Geology: MJR	NORTH WEST TASMANIA MAYNES LEASE 4M/73 & KELVIN LEASE Ground Magnetics Line 5350E	Location CoAe: K5515
Drawn: MJR		Date: Aug. 1983
		Scale: 1:5000

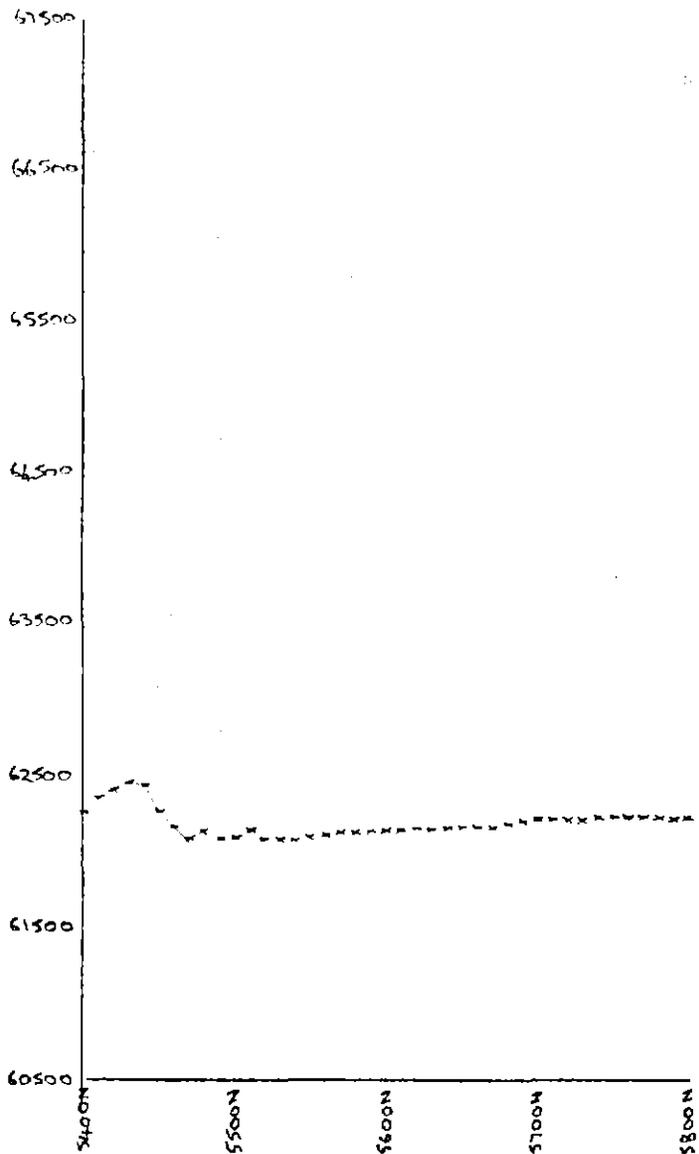
5 cm

045

N0005 - 60m above ground
 N0015 - 60m above ground
 N0025 - 60m above ground
 N0035 - 60m above ground
 N0045 - 60m above ground
 N0055 - 60m above ground
 N0065 - 60m above ground
 N0075 - 60m above ground
 N0085 - 60m above ground

75 046

L.M.F. 5450E

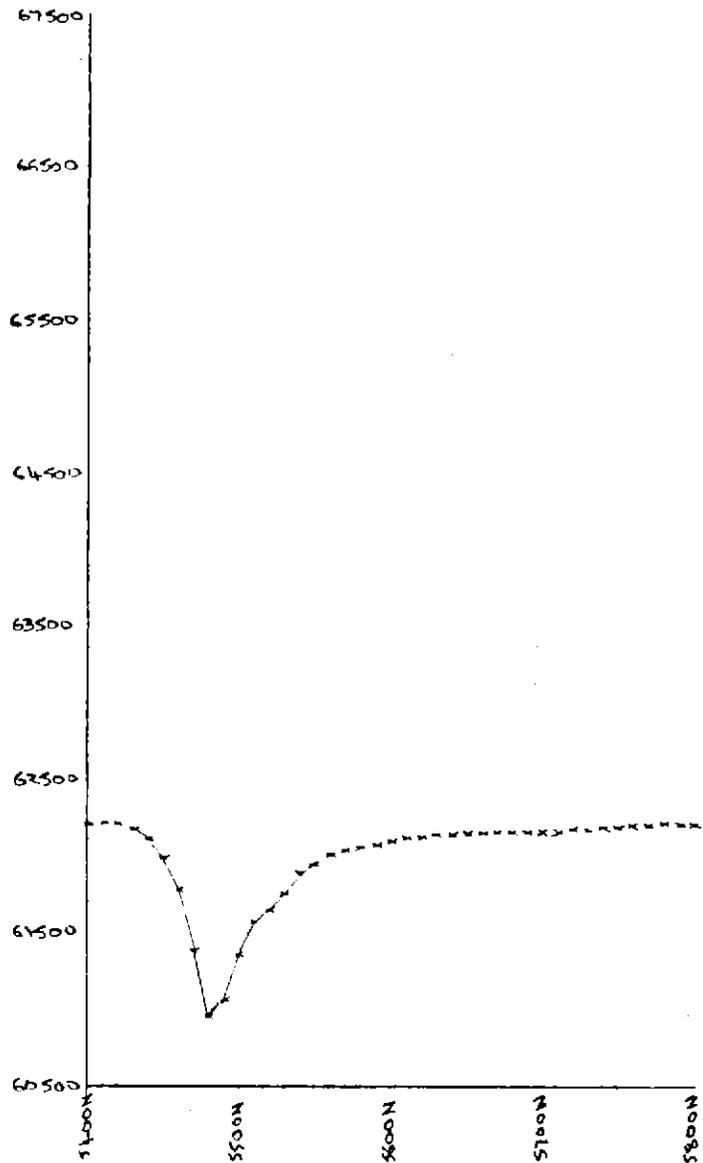


Geology: MTR	NORTH WEST TASMANIA KELVIN LEASE Ground Magnetics Grid Line 5450E	Location Code: K55/5
Drawn: MTR		Date: Aug 1983
		Scale: 1:5000

047

5 cm

75 048



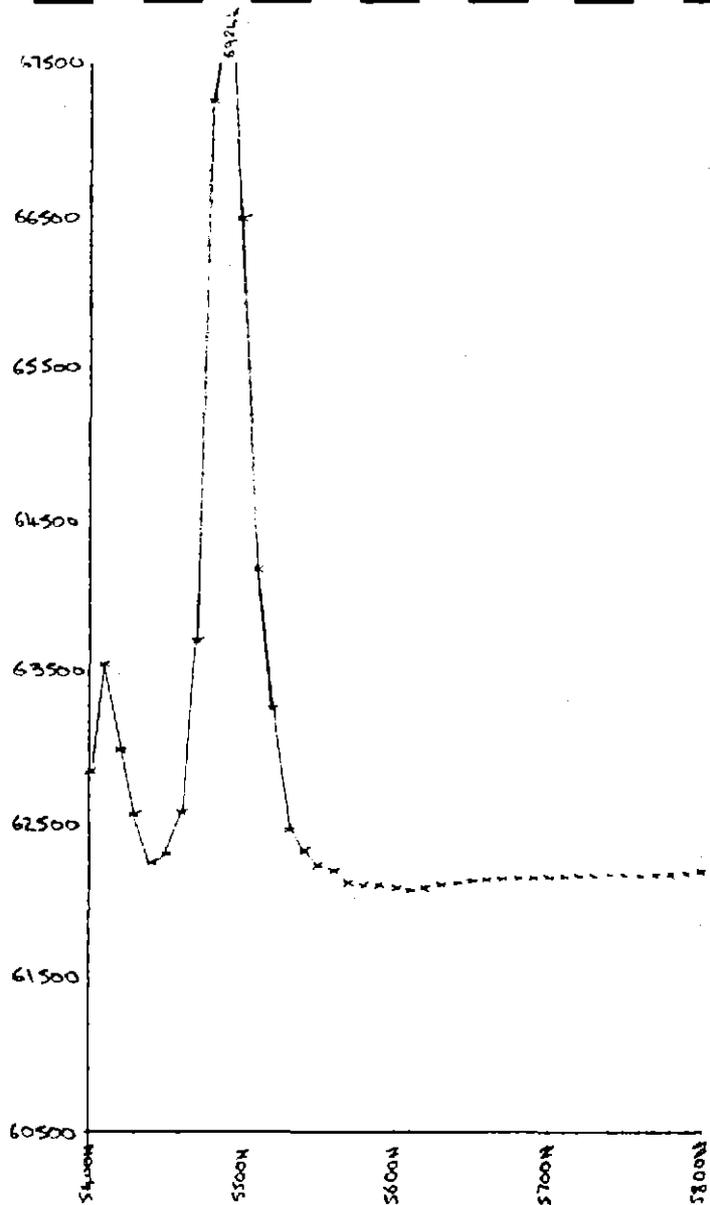
Geology: MJR	NORTH WEST TASMANIA KELVIN LEASE Ground Magnetics Grid Line 5500E	Location Code: K5315
Drawn: MJR		Date: Aug 1983
		Scale: 1:5000

5 cm

048

75 049

LINE 5500E



Geology: MJR	North West TASMANIA	Location Code: K5515
Drawn: MJR		Date: Aug 1983
	KELVIN LEASE	Scale: 1:5000
	Ground Magnetics	
	Grid Line 5550E	

5 cm

049

72 050

050

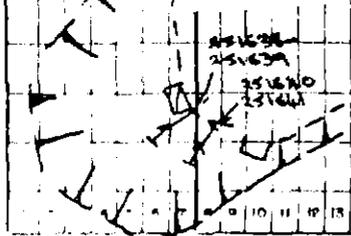
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APPENDIX VI

ASSAY RESULTS

TITLE MAYNES KELVIN	ASS. SIEVE SIZE CODE - MESH NUMBER A 200 D 80 E 30 B 100 F 40 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 7-9-83	SHEET 1 of 2
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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	77	78	79	80
5315E														5725N														251626		R	184	Highly silicified etc. feldspar fine blk tourmaline silicified																																															
514S														5760														251627		R	408	FeOx stained mg. sil. etc. feldspar blk tourmaline with sil. etc.																																															
5360														5695														251628		R	1770	FeOx stained mg. sil. etc. feldspar blk tourmaline silicified																																															
5490														5737														251629		R	16	FeOx banded mg. sil. etc. feldspar granite																																															
5275														5725														251630		R	167	High FeOx stained etc. feldspar granite																																															
5117														5617														251631		R	421	Highly silicified etc. feldspar FeOx gran. tourmaline																																															
5178														5670														251632		R	310	Highly sil. etc. feldspar blk tourmaline																																															
5181														5675														251633		R	1030	Highly sil. etc. feldspar blk tourmaline																																															
5117														5617														251634		R	556	Massive black tourmaline																																															
5115														5450														251635		R	227	Dark green massive Tourmaline																																															
Kelvin Nil open cut (10m samples)																												251638		W	79	Wh. H. gray f. sil. etc. feldspar blk tourmaline with sil. etc.																																															
																												251639		W	1430	FeOx stained H. gray sl. green tourmaline																																															



0.5

P. 5 053

PROJECT		ASS SIEVE SIZE CODE - MESH NUMBER				SAMPLE TYPE CODE				WEATHERED BEDROCK				CARD PUNCH PRINT				VERIFY		DATE		SHEET																																																									
MAYNES - KELVIN		A 200	B 80	C 30		<input type="checkbox"/> OXIDIZED PRODUCTS	<input type="checkbox"/> FRESH ROCK	<input type="checkbox"/> STREAM SEDIMENTS	<input type="checkbox"/> WEATHERED BEDROCK	<input type="checkbox"/> SURFACE TRANSPORTED	<input type="checkbox"/> PERIDUAL SOIL	<input type="checkbox"/> BRINE DUMP	YES	NO	YES	NO	7-9-83		2 of 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	77	78	79	80
Kelvin No 2 Open cut 110m samples				251640				W				2385																White - H. gray p. g. slate																																																			
				251641				W				11.01%																2 blk tourmaline																																																			
				251642				W				1390																White - H. gray p. g. slate																																																			
				251643				W				3.89%																2 blk tourmaline																																																			
5250		5237		251644				R				295																blk tourmaline																																																			
5262		5180		251645				W				195																dk green - black massive tourmaline vein																																																			
5412		5209		251646				R				650																dk green - black massive tourmaline vein																																																			
5345		5300		251647				R				4640																dk green - black massive tourmaline vein																																																			

053

100 004

PROJECT: **Maynes - Kelvin**

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

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

CARD PUNCH PRINT: YES NO VERIFY: YES NO

DATE: 4-9-83

SHEET: 2 of 4

EASTINGS							NORTHINGS							SAMPLE NUMBER	DEPTH IN CMs	SIZE FRACTION	Sample Type	METAL VALUES PPM																				GEOLOGICAL LOG																																									
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Maynes east														251572		R	848																					whit. grey gtz & com gtz - blk town units & blk sl replaced																																									
														251573		R	172																					" " " locally replaced																																									
														251574		R	102																					whit. grey gtz part. gtz - blk town replaced & und																																									
														251575		R	216																					" " also intensely replaced																																									
														251576		R	385																					F calc. has in gtz sl. gntown strongly replaced gtz & gtz cavities/blk. gntown.																																									
M.N.														251577		R	1260																					" " " "																																									
														251578		R	103																					" " also pk gtz & blk town units & blk gtz - blk town units in pk gtz & blk local replacement																																									
BA														251579		R	59																					pk gtz & gtz - blk town units																																									
A														251580		R	785																					sl. gnt. strongly replaced																																									
A														251581		R	405																					pk gtz & gtz (cavities) - blk - sl. gntown rock																																									
A														251582		R	16																					lim. stained whit. grey gtz part silicified																																									
A														251583		R	43																					" " blk town units & blk																																									
A														251584		R	18																					" " "																																									

054
02
03
04

PROJECT Maynes Kelvin		BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 80 S 30 B 100 E 60 H 20 C 40 F 40 T = TOTAL				SAMPLE TYPE CODE <input type="checkbox"/> GROUND PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEGMENTS S				<input type="checkbox"/> WEATHERED BEDROCK <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 4-9-83		SHEET 3 of 4	
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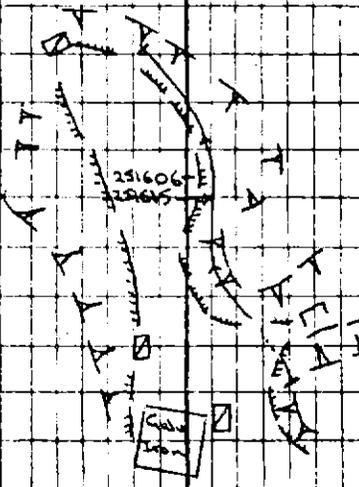
EASTINGS							NORTHINGS							SAMPLE NUMBER		DEPTH IN CMs		SIZE FRACTION		TYPE		METAL VALUES PPM														GEOLOGICAL LOG																																											
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Oving Creek Kelvin Lease														251585	585		R		14															lim. stained pk - tan gte																																													
														251586	586		R		72															to local sil. cream pk gte - 2 fds m.g.																																													
														251587	587		R		568															pk gte - blk town with lim " also gte - blk town m.g.																																													
														251588	588		R		406															m.g. gte - blk town m.g. part ser f. g. m.g. cream pk																																													
														251589	589		R		129															m.g. gte - blk town m.g. part ser f. g. m.g. cream pk																																													
														251590	590		R		87															m.g. sil. gte - plg - blk town																																													
														251591	591		R		191															m.g. gte - plg - blk town m.g.																																													
														251592	592		R		55															f.g. cream pk gte - 2 fds pk blk town with lim																																													
														251593	593		R		9															" " " " blk town (m.g.)																																													
														251594	594		R		25															m.g. cream pk gte - 2 fds pk gte - blk town with lim																																													
														251595	595		R		137															" " also gte - blk town m.g. sil. gte - blk town with lim																																													
														251596	596		R		49															cream pk gte - 2 fds m.g. gte - blk town with																																													

05

000

PROJECT MAYNES KELVIN	BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 80 S 30 B 100 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"/>	VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE 6-9-83	SHEET 1 of 2
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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	77	78	79	80
MAYNES																												251606				R		50		grey f.g. siliceous quartzite																																											
																												251607				R		39		wh. grey sil. gtzite to blk town with sil																																											
																												251608				R		41		pk grey f.g. gtzite to blk town with sil																																											
																												251609				R		66		wh. grey f.g. sil. gtzite to blk town with sil																																											
																												251610				R		68		grey-purplish f.g. sil. gtzite																																											
																												251611				R		43		" " "																																											
																												251612				R		123		as above also pk gtzite to blk town with sil																																											
																												251613				R		2600		as above also gtz-blk town and gtzite in quartz																																											
																												251614				R		1240		gtz-blk town and quartz also grey sil. gtzite																																											
																												251615				R		671		as above also pk gtzite to blk town with sil																																											
																												251616				R		61		lt. grey sil. gtzite to blk town with sil																																											
																												251617				R		64		as above also pk gtzite to blk town with sil																																											



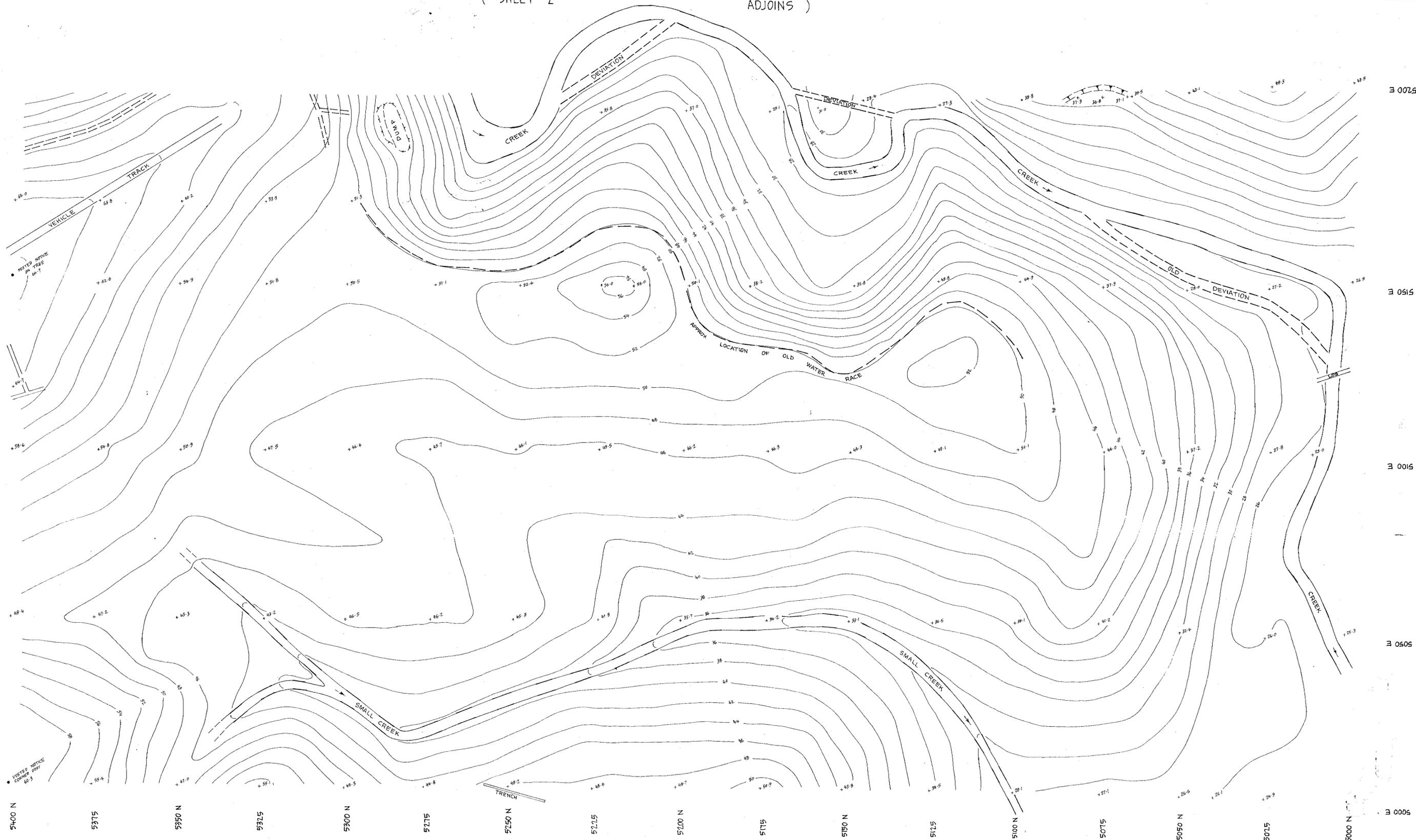
75 058

PROJECT: **MAYNES & KELVIN M.L.'S**
 SIEVE SIZE CODE: A 200 B 80 C 30 D 60 E 30 F 40
 T = TOTAL
 WASH NUMBER: _____
 SAMPLE TYPE CO: OROGENIC PRODUCED FRESH ROCK STREAM SEDIMENTS
 WEATHERED BEDROCK SURFACE TRANSPORTED RESIDUAL SOIL MINE DUMP
 CARD PV: YES NO
 PRINT: YES NO
 VERIFY: YES NO
 DATE: 15-8-83
 SHEET: 1091

059

EASTINGS		NORTHINGS		SAMPLE NUMBER		DEPTH IN CMS		SIZE FRACTION		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
5325		5390		251 551				R		30																				Grey siltstone																																																	
5050		5225		251 552				R		24																				Grey siltstone																																																	
5550		5135		251 553				R		23																				Grey siltstone																																																	
5250		5418		251 554				R		0																				Altered grey mudstone																																																	
5250		5430		251 555				R		36																				Green veining in pink quartzite																																																	
2 km northwest of Maynes workings				251 556				R		0																				Siltstone																																																	
5250		5074		251 558				R		0																				Brown to yellow brecciated quartzite																																																	
5342		5717		251 559				R		631																				Mag. quartz-plag. dk tan mafic granite																																																	

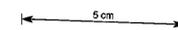
75 060



LEGEND

- SHAFT
 - ADDIT
 - WATER RACE
 - TRENCH
- CONTOUR INTERVAL IS 2 METRES ON AN ARBITRARY DATUM
& AZIMUTH ASSUMED AS 90° BETWEEN POSTED NOTICES

75 061



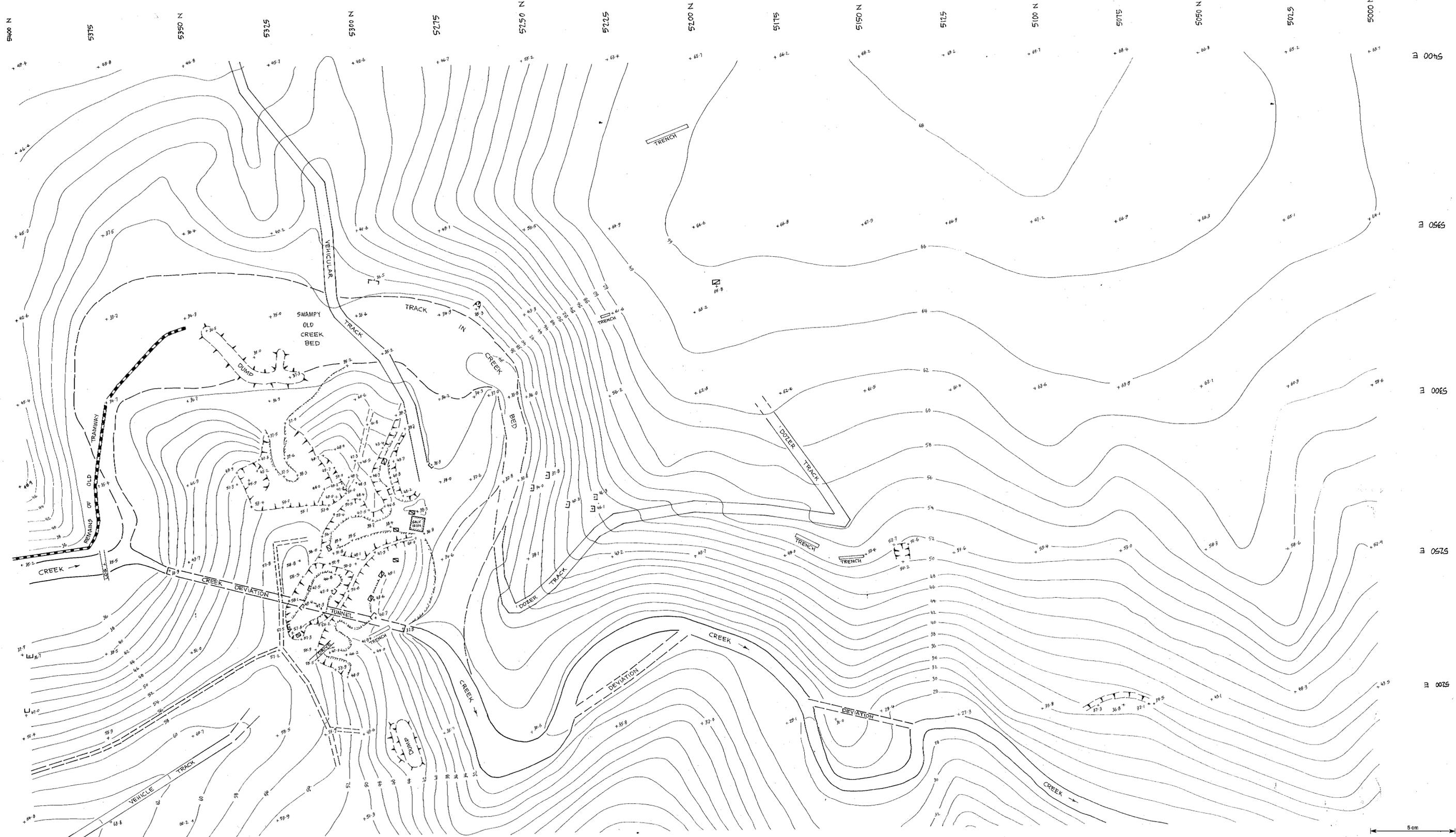
L.C. MACKENZIE & ASSOCIATES SURVEYORS
124 GOLDIE ST. WYNYARD 7325 PH 423939

DETAIL & CONTOUR SURVEY
MAYNES MINE 4M / 73
SOUTH HEEMSKIRK

84-2140

SCALE 1:500 DATE 22.6.83 SHEET 1 OF 2

062

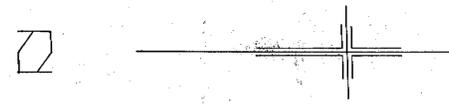
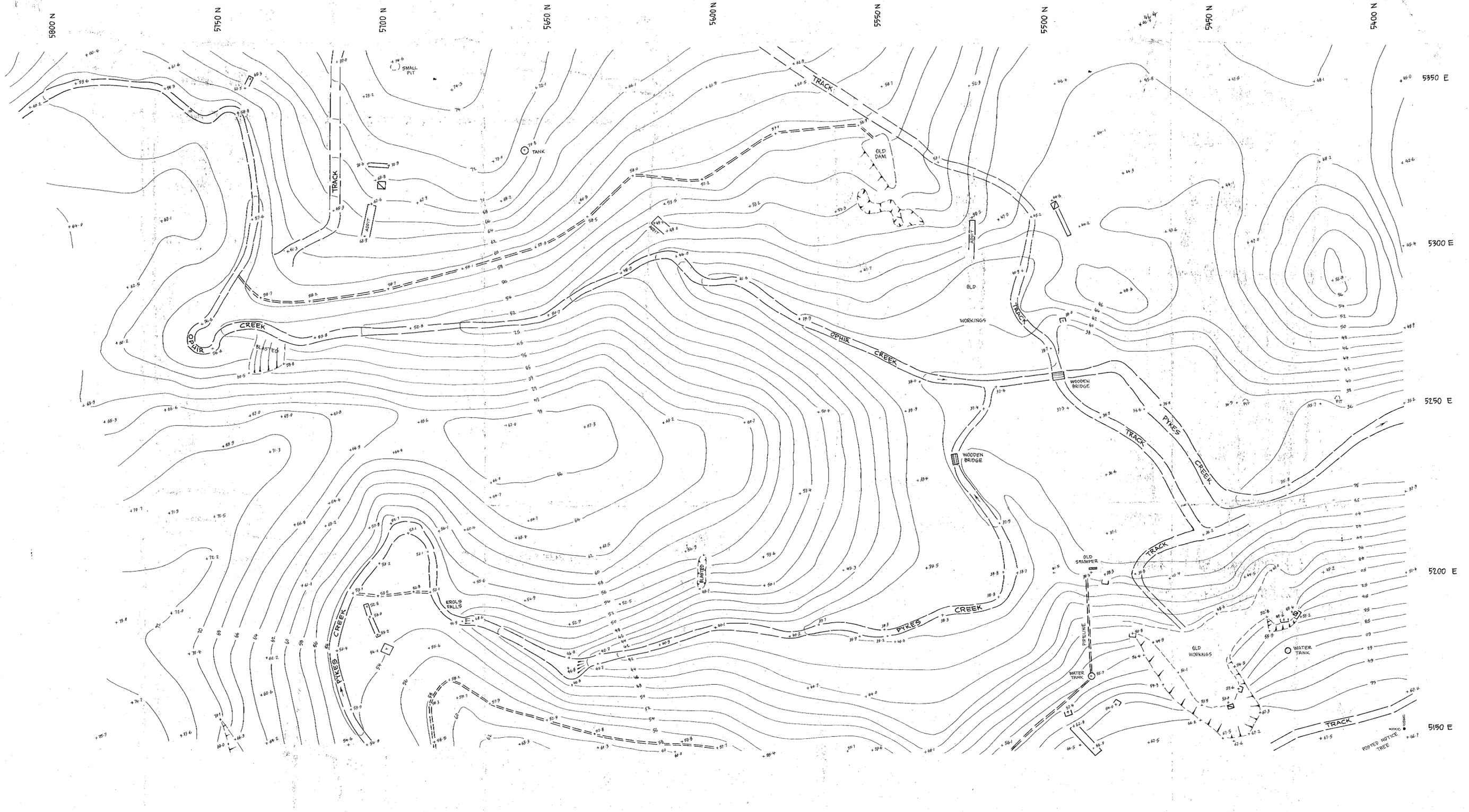


(SHEET 1 ADJOINS)



SEE SHEET 1 FOR LEGEND

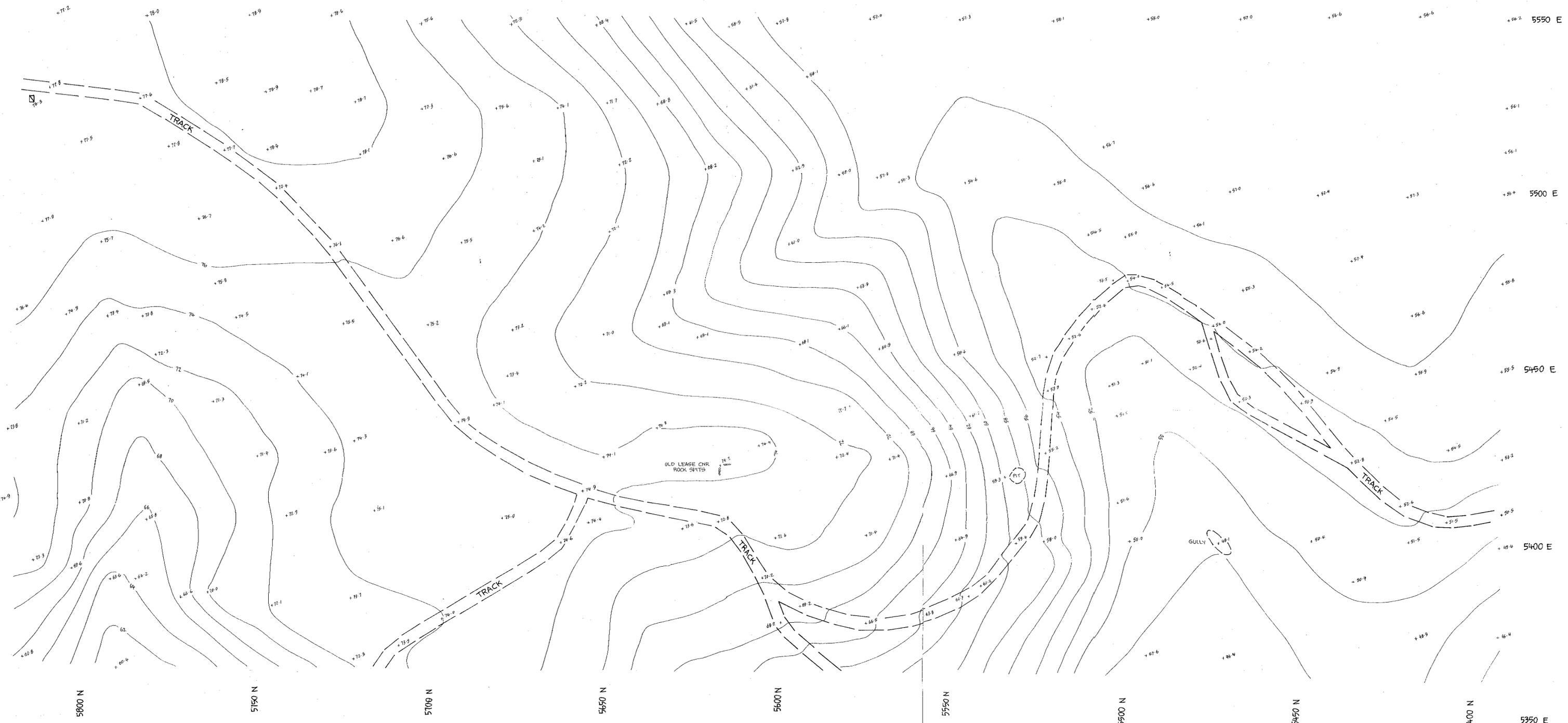
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L.C. MACKENZIE & ASSOCIATES SURVEYORS 124 GOLDIE ST. WYNYARD 1325 PH 423999		
DETAIL & CONTOUR SURVEY MAYNES MINE 4M 173 SOUTH HEEMSKIRK		
SCALE 1:500	DATE 22.6.89	SHEET 2 OF 2



LEGEND
 □ SHAFT
 □ ADDIT
 --- WATER RACE
 --- TRENCH
 CONTOUR INTERVAL IS 2 METRES ON AN ARBITRARY DATUM
 & AZIMUTH ASSUMED AS 90° BETWEEN WAYNES MINE
 POSTER NOTICES TO THE SOUTH

75 063

L.C. MACKENZIE & ASSOCIATES SURVEYORS 124 GOLDIE ST WYNYARD 7325 PH 423939	
DETAIL & CONTOUR SURVEY R.K. McDERMOTT 50M / 81 SOUTH HEEMSKIRK	
SCALE 1:500	DATE 10.8.89
SHEET 1 OF 2	

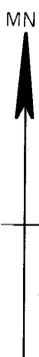


(SHEET 1 ADJOINS)

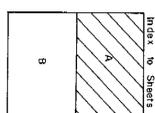
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DETAIL & CONTOUR SURVEY R.K. McDERMOTT 50 M 81 SOUTH HEEMSKIRK		
84-2140		
SCALE 1:500	DATE 10.8.83	SHEET 2 OF 2

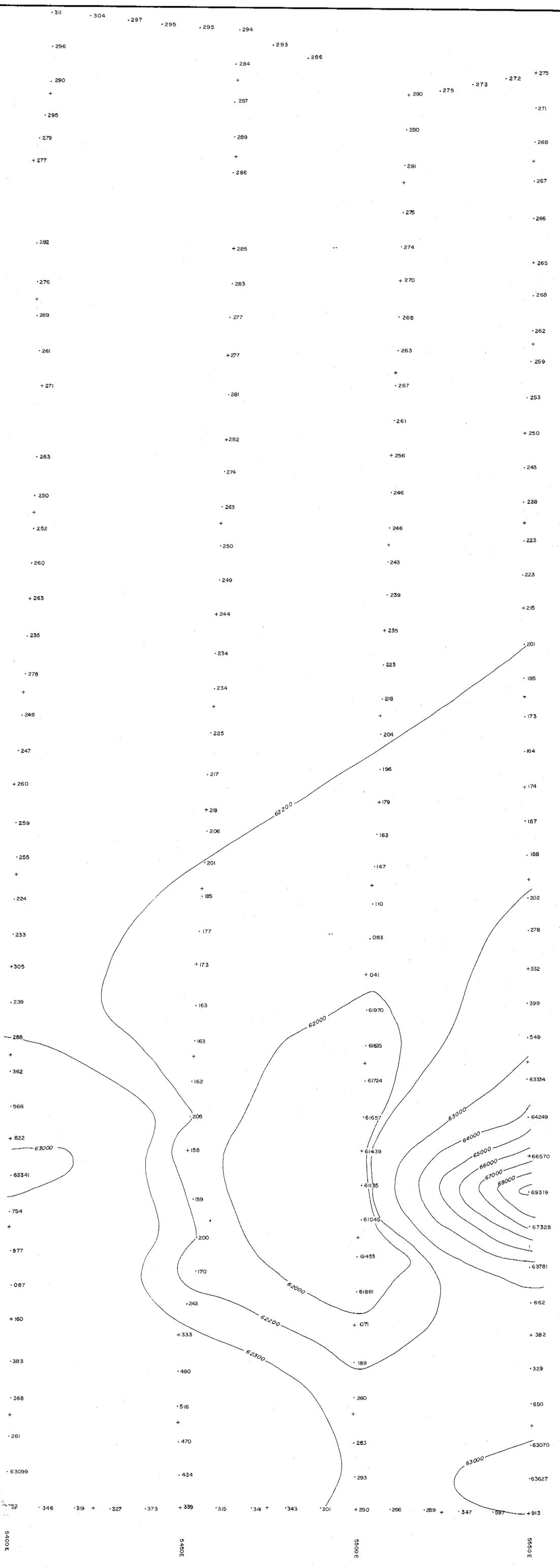
• SEE SHEET 1 FOR LEGEND •



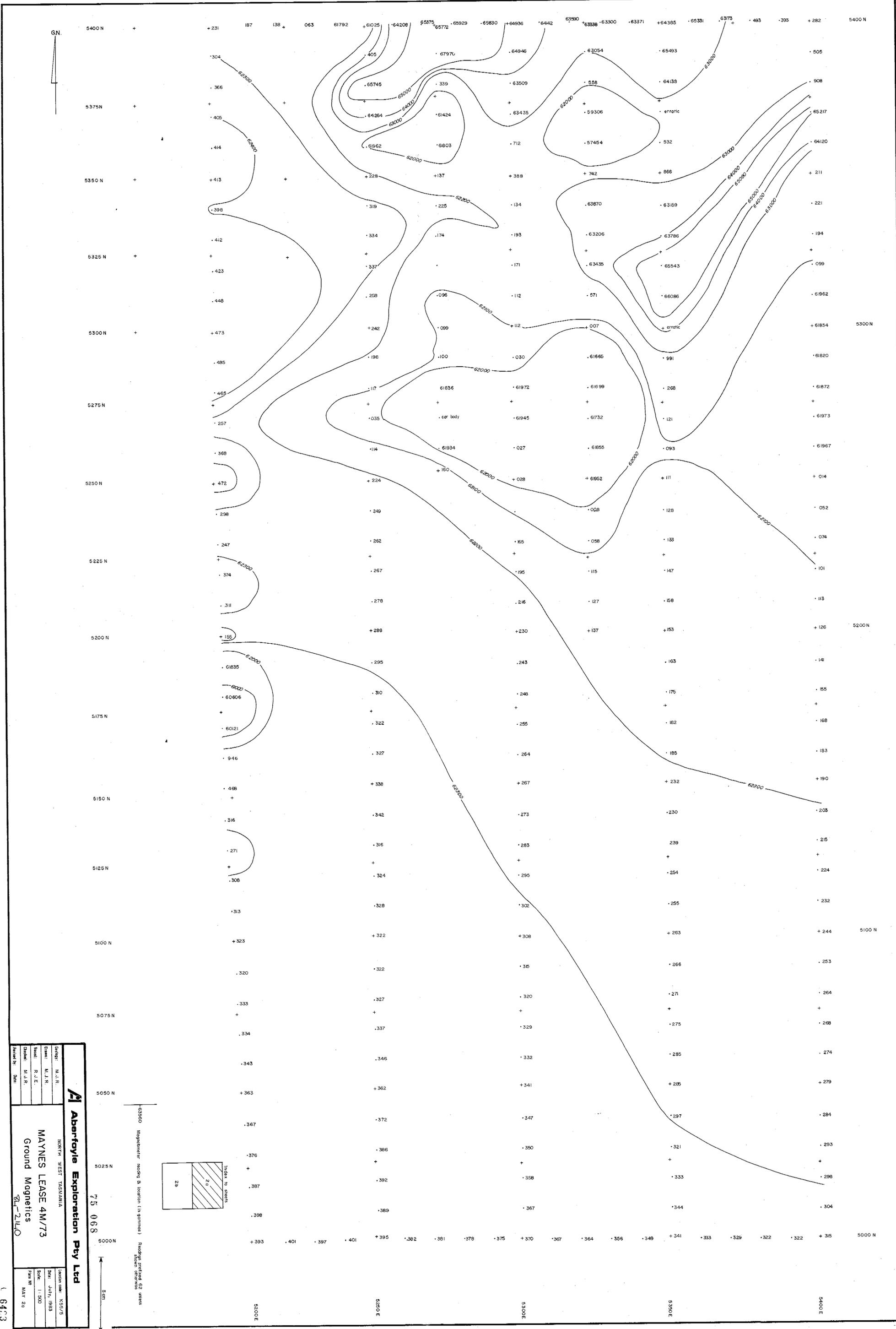
03560 Magnetometer reading A location (in gauss) Readings prefixed 62 unless shown otherwise



75 065

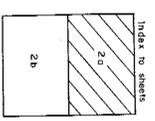


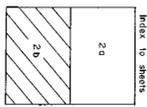
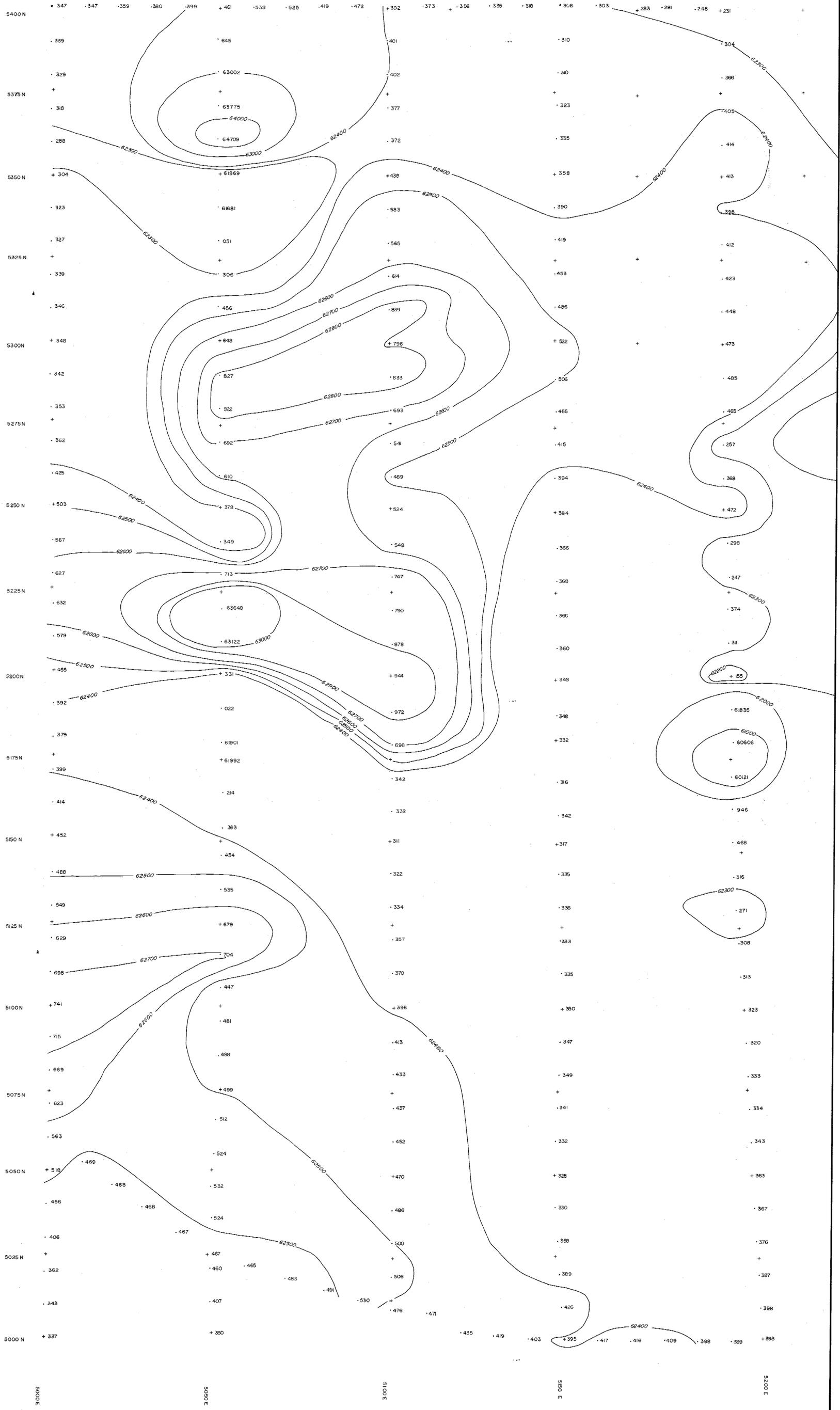
A/ Aberfoyle Exploration Pty Ltd		NORTH WEST TASMANIA	
Geologist: M.J.R.	Drawn: M.J.R.	Date: September 1983	Scale: 1:500
Checked: M.J.R.	Field No: KEL 2A	KELVIN LEASE 50M/81	
Revised by:	Date:	Ground Magnetics	
		75-2140	



Aberfoyle Exploration Pty Ltd	
NORTH WEST TASMANIA	
MAYNES LEASE 4M/73	
Ground Magnetics	
84-2110	
Date:	MAY 20
Scale:	1:500
Drawn:	R.J.E.
Checked:	M.J.R.
Reviewed by:	DNK
Location code:	K55/5
Date:	JULY 1983
Plan No:	

63950 Magnetometer reading & location (in gausses) Readings prefixed 62 unless shown otherwise



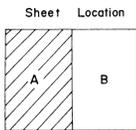


Index to sheets

63600 Magnetometer reading & location (in gamma) Readings prefixed 62 unless shown otherwise
 75 067
 5m

Aberfoyle Exploration Pty Ltd	
Geophysicist: M. J. R.	License code: K53/S
DRAWN: M. J. R.	Date: July 1, 1983
Checked: R. J. E.	Scale: 1:500
Project No: M. J. R.	Printed: MAY 23
NORTH WEST TASMANIA	
MAYNES LEASE 4M/73	
Ground Magnetics	
Sheet No: 64-2140	

MN



GEOLOGICAL LEGEND

- Dg** Heamskirik granite, generally medium grained pink-cream quartz-two feldspar biotite granite but also associated with a bright pink medium grained quartz-two feldspar biotite granite in the north-east corner of M.L. 50M/81; optic at margins; local greisenised granite with dark green-black tourmaline and disseminated sulphides
- Ms** Mudstone: generally massive with some relict bedding; commonly calcareous demonstrated by the development of skarn mineralogy including hornblende with disseminated pyrrhotite; hornblende-pyrrhotite veinlets and patches.
- Qsm** Interbedded quartzite and common mudstone; mudstone beds are replaced by black tourmaline.
- Qs** Quartzite sandstone, siltstone and minor mudstone; white-grey; massive to finely bedded; partially quartz-black tourmaline replaced; sub horizontal to steeply dipping quartz-black and green tourmaline veins varying from less than 10mm, to greater than 10m; local coarse mg-silicate skarn at the top of the sequence and elsewhere locally developed andalusite and sericite

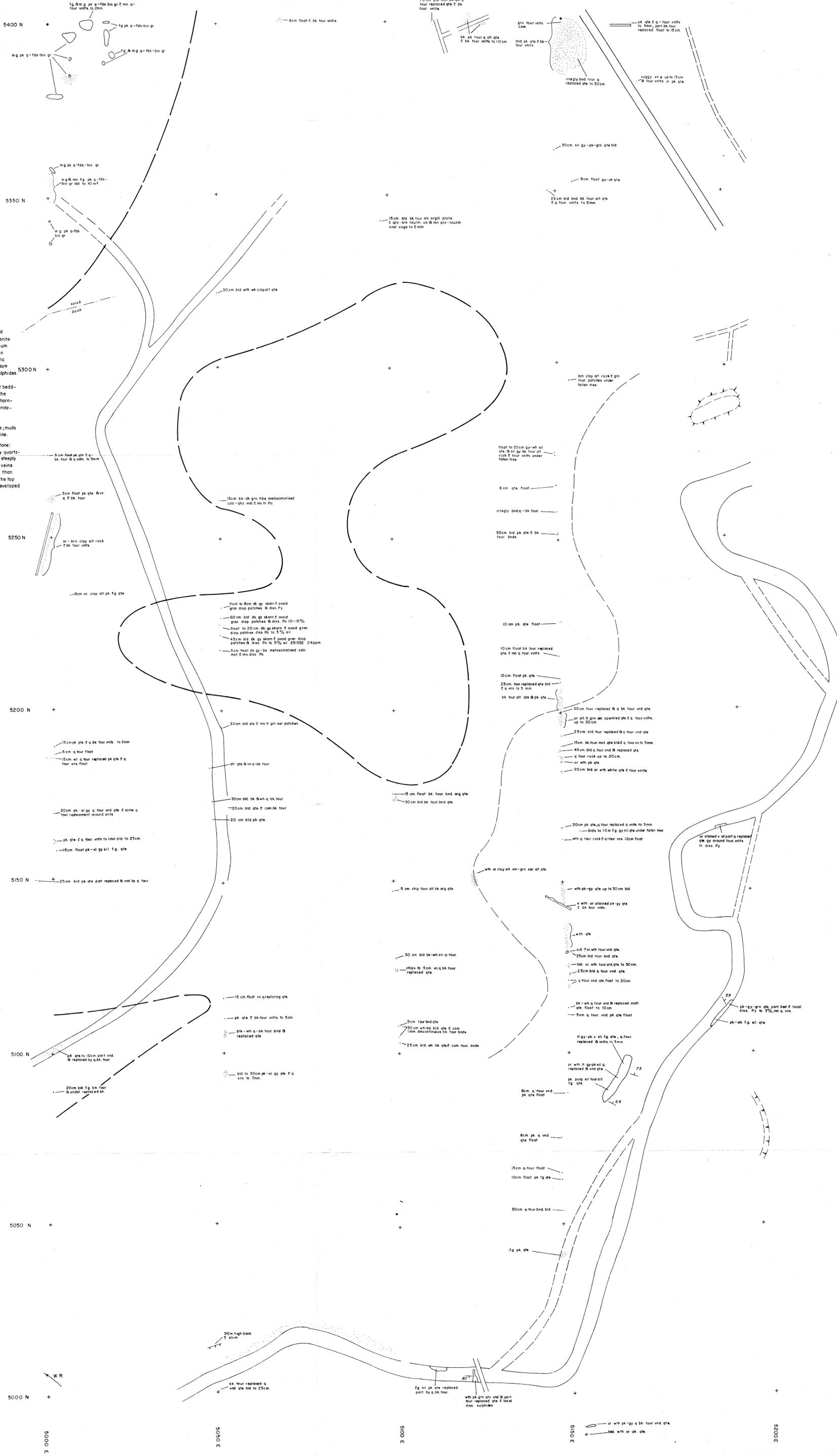
CRIMSON CREEK? **Ms**

COONAH QUARTZITE SLATE **Qsm**
Qs

REFER SHEET 'B' FOR ROCK TYPE AND DESCRIPTION ABBREVIATIONS

LEGEND

- Vehicle track
- Creek
- Water race, diversion, pipeline
- Trench
- Adit
- Shaft
- Workings, pits, blasted area
- Grid peg
- Geological contact
- Flot
- Outcrop
- Joint
- Joint with tourmaline alteration

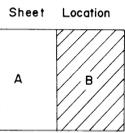


Aberfoyle Exploration Pty Ltd		NORTH WEST TASMANIA	
Geology: MJB	Drawn: MJB	Location: K55/5	Date: September 1983
Checked: LML	Scale: 1:500	Project: MAYNES LEASE 4M/73	Sheet No: MAY 3A
Approved: MJB	Date:	OUTCROP GEOLOGY	

75 069



04-13



ROCK TYPE

- arg. Argillite
- bio. Biotite
- fds. Feldspar
- goss. Gossan
- gr. Granite
- hbe. Hornblende
- mst. Mudstone
- q.(te) Quartz(ite)
- sil. Silica
- tour. Tourmaline

DESCRIPTION

- bid. Boulder
- xtal. Crystal
- vn(s)(d)(l)(t) Vein(s)(ed)(let)
- alt. Altered
- band. Banded
- bed. Bedded
- brecc. Brecciated
- dis. Disseminated
- fg. Fine grained
- fract(s) Fracture(s)
- mag. Magnetic
- with. Weathered
- com. Common
- irreg. Irregular
- mn. Minor
- mot. Mottled
- part. Partially
- strgly. Strongly
- v. Very
- bk. Black
- grn. Green
- gy. Grey
- pk. Pink
- wh. White

REFER SHEET 'A' FOR GEOLOGICAL LEGEND

LEGEND

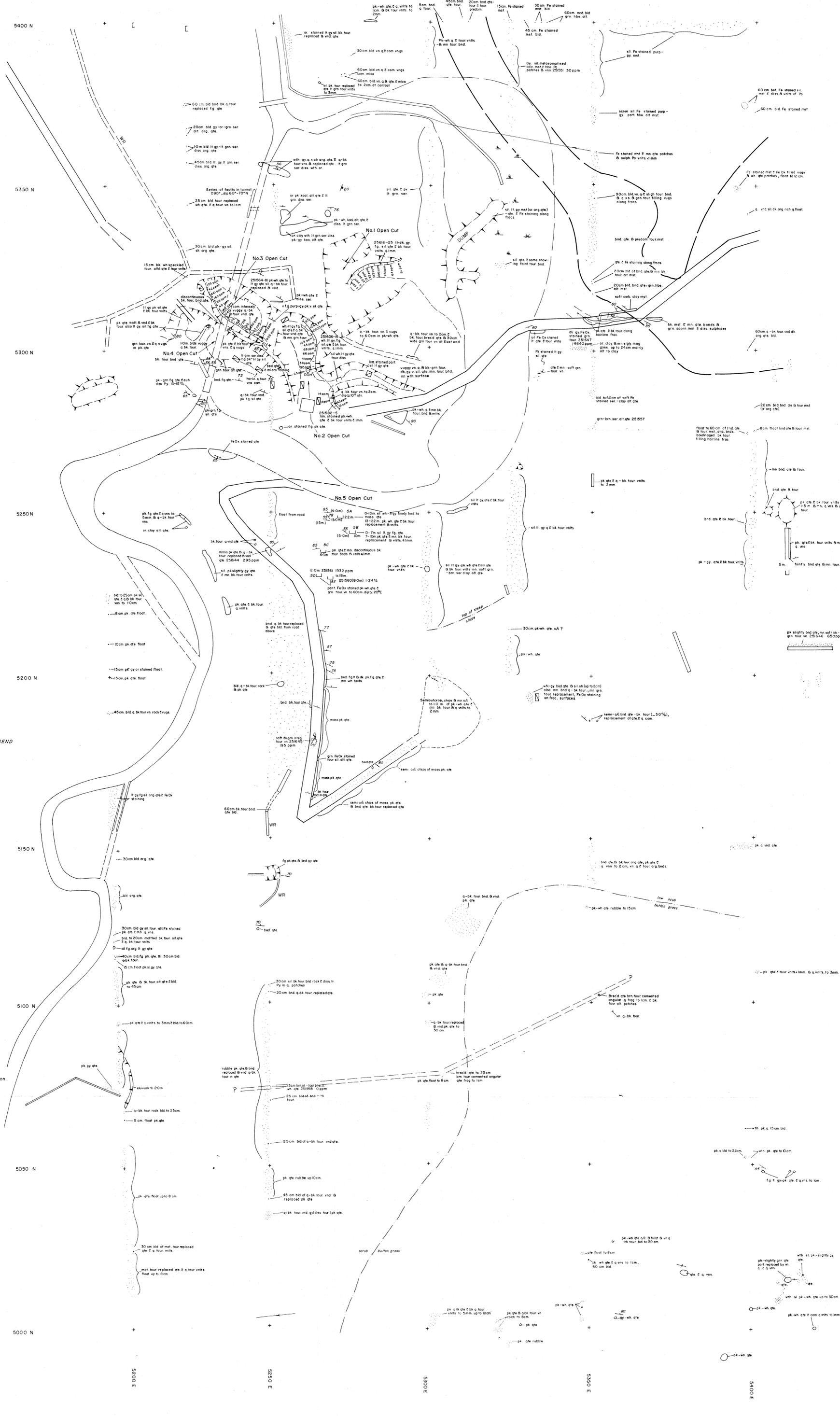
- Vehicle track
- Creek
- Water race, diversion, pipeline
- Trench
- Adit
- Shaft
- Workings, pits; blasted area
- Grid peg
- Geological contact
- Float
- Outcrop
- Joint
- Joint with tourmaline alteration

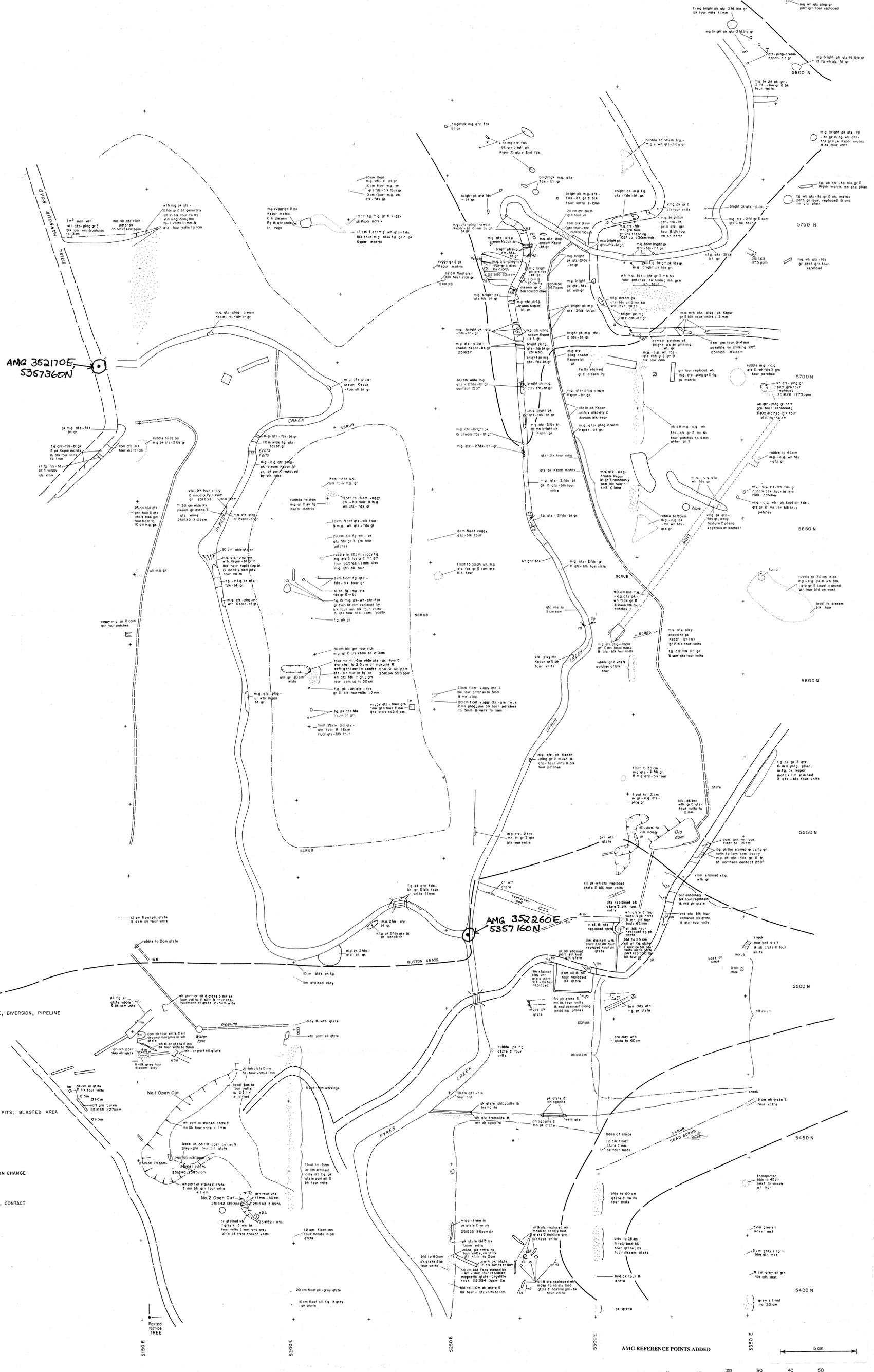
Aberfoyle Exploration Pty Ltd
 NORTH WEST TASMANIA
MAYNES LEASE 4M/73
 OUTCROP GEOLOGY

Geologist: M.J.R.
 Drawn: M.J.R.
 Title: L.M.L.
 Checked: M.J.R.
 Revised by: _____
 Date: _____

Location: 45° 55' S
 Date: September 1983
 Scale: 1:500
 Project No: MAY 318

75 070

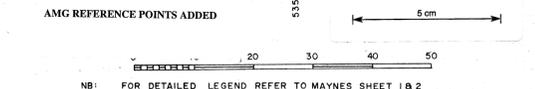




AMG 352170E
5357360N

AMG 352260E
5357160N

- TRACK
- CREEK
- WATER RACE, DIVERSION, PIPELINE
- TRENCH
- ADIT
- SHAFT
- WORKINGS, PITS; BLASTED AREA
- GRID PEG
- VEGETATION CHANGE
- GEOLOGICAL CONTACT



NB: FOR DETAILED LEGEND REFER TO MAYNES SHEET 1 & 2

SHEET LAYOUT



75 072

Aberfoyle Exploration Pty Ltd		Location code: K 55/5
NORTH WEST TASMANIA		Date: August 1983
KELVIN LEASE 50 M/81		Scale: 1 : 500
Outcrop Geology		Plate No: KEL 38
Geology: MJR	Drawn: MJR	Checked: MJR
Traced: ACD	Revised: MJR	Revised: MJR