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TITLE: EXPLORATION LICENCE 20/78

FINAL REPORT TO THE DEPARTMENT OF MINES

TASMANIA ON ROSIER CREEK

NORTH EASTERN TASMANIA

OPEN FILE

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Incorporated in the State of Victoria

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CONTENTS

	Page No.
ABSTRACT	1
1. INTRODUCTION	1
2. LOCATION	2
3. TENEMENT	2
4. PREVIOUS WORK	2
5. WORK DONE	3
5.1 Stream Sediments	3
5.2 Soil Samples	3
5.3 Rock Samples	3
5.4 Radiometrics	4
5.5 Photo Interpretation	4
5.6 Geology	4
6. RESULTS ACHIEVED	4
6.1 Stream Sediment Samples	4
6.2 Soil Samples	5
6.3 Rock Samples	6
6.4 Radiometrics	7
6.5 Geology	8
6.5.1 Mathinna Beds	8
6.5.2 Ben Lomond Granite	8
6.5.3 Permo-Triassic Sediments	12
6.5.4 Structure	12
7. MINERALISATION	13
8. DISCUSSION	16
9. CONCLUSION	17
REFERENCES	18
APPENDIX 35 pages of Geochem. data →	
LIST OF PLANS	19

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AUSTRALIAN ANGLO AMERICAN LIMITED

EXPLORATION LICENCE 20/78

FINAL REPORT ON ROSIER CREEK, N.E. TASMANIA

ABSTRACT

Exploration Licence 20/78 covers a section of the Ben Lomond Granite north of Avoca, and east of the Prospect Creek Trough. 274 stream sediment samples were collected and analysed for Cu, Pb, Zn, Sn, (W.) The stream sediment sampling was followed up with geological mapping, ridge soil sampling and the pegging of a soil grid in the Gilligan Creek catchment.

Tin mineralisation is confined to altered granite along north-east trending joint planes, irregular lenses on the contacts between granite phases and to a lesser extent in east-west trending narrow quartz vein stockworks. The low grade and narrow width to the zones of mineralisation are discouraging. It is recommended that EL 20/78 be relinquished.

1. INTRODUCTION

Exploration Licence (E.L.) 20/78 was granted on 21st December, 1978. The exploration programme was for all minerals with specific emphasis on tin and tungsten. The E.L. overlies part of the Devonian Ben Lomond Granite north of Avoca. (Plan TAS-7-10).

Tin-tungsten mineralisation is associated with the Ben Lomond Granite and is mined at the Aberfoyle and Storeys Creek Mines to the north of E.L. 20/78. The mineralisation is hosted by granite and Mathinna sediments associated with northnortheast oriented pre-intrusive structures such as the Aberfoyle Fault system. Elsewhere mineralisation is associated with northnorthwest structures related to the intrusion of late granite phases. Argentiferous galena, sphalerite and chalcopyrite are associated with cassiterite mineralisation at Rex Hill west of the E.L. A small uranium prospect variously known as Stops, Poreeres, Chwalzycks and Tasmania United Uranium and several small radioactive occurrences known as Hughes and Prospect Creek Prospects occur in E.L. 20/78.

During the Exploration programme 274 stream sediment samples were collected. A prominent Sn stream sediment pattern with values up to 1100 ppm was obtained in Gilligan's Creek. A soil grid 1600 x 1500 m was pegged over the middle and upper sections of Gilligan's Creek catchment. Soil samples

...2.

were collected at 20m intervals on east-west lines 320m apart. Fill in lines spaced 80m apart were sampled every 40m. Several anomalous tin patterns are outlined with a peak value of 1000 ppm Sn. Old costeans in microgranite and normal porphyritic granite occur within the grid area, and an adit, 109m in length is located in the western section of the grid. An east-west quartz-arsenopyrite vein system is developed in the mine. Tin mineralisation in the grid area is confined to narrow zones of grey tourmaline-quartz-mica-(topaz) altered granite developed along joint planes. The main surface workings have followed a northeast trending structure.

2. LOCATION

Exploration Licence 20/78 is located north of Avoca on the St. Pauls 1:100 000 sheet (8414) and covers an area of 49 sq. kilometres. Plan TAS-7-10. ✓

3. TENEMENT

Exploration Licence 20/78 was granted to Australian Anglo American Services Ltd. on 21st December, 1978, for six months ending 13th June, 1979. The Licence was renewed for a further six months ending 13th December, 1979. (relinquished).

4. PREVIOUS WORK

The geology and mineralisation of the Avoca-Rossarden-Storey's Creek district has been described by Reid and Henderson (1929) and Blissett (1959). A joint analysis in the Ormley-Avoca-Rossarden area was done by Legge in 1968. McDougall and Legge (1965) dated the Ben Lomond Granite at approximately 370 m.y. B.P.

Uranium Prospects in E.L. 20/78 have been described by Hughes (1955, 1956); Langron (1957); Roberts (1955); Noakes (1955); Loftus Hills (1957); and Stevens (1955). The workings were summarised by Blissett (1959). The Leona Tin mine alluvial area in the southeast corner of E.L. 20/78 was reported on by Hughes (1955). Runting (1888) commented on the potential of the New Henbury Tin Mine to the east of the Leona Mine.

...3.

The geology of the area is outlined by Pohl (1978) in Esso Exploration's final report on EL 12/77 to the Tasmania Mines Department. An airborne radiometric survey disclosed an unusual high level of activity on the uranium channel over the Ben Lomond Granite. Six local highs were investigated by grids and random traverse lines. Rock chip sampling gave peak values of 130 ppm U. In the Rosier Creek area background readings of 300-600 cps were obtained from normal granite while fine grained granite gave background readings of 600-800 cps. The microgranite sills outcropping in this creek have radioactive patches which are rarely more than 15-20 cm in diameter and occur most frequently near the upper margins of the sills with values 2 to 3 times background. The radiometric results in EL 12/77 were considered to be discouraging.

5. WORK DONE

5.1 Stream Sediments

274 stream sediment samples were collected. The total sample was pulverised to minus 80#, and ground to minus 200#. The samples were analysed for Cu, Pb, Zn, Sn and (W). Minus 80# fractions were analysed for 18 of the samples. Plans TAS-7-1 to TAS-7-4. (2 SHEETS FOR EACH) ✓✓

(W)

SAMPLE AND DATA BASE NOS ON Sn sheets

5.2 Soil Samples

759 soil samples were collected. The total sample was crushed and pulverised to a minus 200# powder. All samples were analysed for tin by X.R.F. 162 of the samples were analysed for Cu, Pb, Zn and W. ✓

5.3 Rock Samples

144 rock samples were collected; of which 121 were submitted for analysis. The rock population falls within four categories: ✓

(a) Reconnaissance rock samples (24) analysed for Sn, W, Cu, Pb, Zn.

(b) Relatively fresh unaltered granite (46) analysed for Sn, W, Rb, Sr, Mg, Li.

(c) A grey altered granite (17) analysed for Sn, Cu, Pb, Zn, Mo.

(d) Channel samples from the mine adit (34) analysed for Sn.

Plans TAS-7-11, TAS-7-13.

...4.

5.4 Radiometrics

A scintillometer survey was done over the Gilligan Creek grid. Readings were recorded at 20m intervals. Plans TAS-7-12 and TAS-7-16 to TAS-7-28 are profiles showing geology, tin content of soils and counts per second.

5.5 Photo Interpretation

A photo interpretation of the aerial photographs covering EL 20/78 was completed and compiled onto a 1:50 000 scale base map. Plan TAS-5-59.

5.6 Geology

The Gilligan Creek Grid area was mapped in detail. The mine adit on the grid was mapped. Reconnaissance mapping was done over the entire E.L. (Plans TAS-7-11, TAS-7-8, TAS-5-51).

A stereographic projection of joint pole positions was constructed (Plan TAS-7-9).

6. RESULTS ACHIEVED

6.1 Stream Sediment Samples

The results of the stream sediment samples were treated statistically by an inhouse VSTAT computer programme. Cumulative frequency plots were constructed to determine populations. Table 1 is a summary of the results.

TABLE 1

Element	Range (ppm) Low		High	Mean	Standard Deviation	Population 1	2	3
Cu	0	-	620	20	41.31	0-34	35+	
Pb	0	-	285	58.07	50.44	0-54	55-139	140+
Zn	10	-	1950	103.47	150.79	10-59	60-249	250+
Sn	0	-	1100	65.20	143.38	0-34	35-109	110+

The peak copper, zinc and tin values were obtained from a single sample taken in Storeys Creek.

An anomalous tin pattern exists in the middle section of Gilligans Creek, and two tributaties of Storeys Creek to the northeast. Lead and zinc values tend to be higher in samples collected from drainages in the western part of the Licence. Table 2 compares values from Rosier Creek drainage with Gilligans Creek drainage.

TABLE 2

Element	Mean of Population within EL	Gilligans Creek				Rosier Creek			
		No.	Low	High	Mean	No.	Low	High	Mean
Cu	20	39	X	35	14.10	87	X	100	12.30
Pb	58.07	39	X	200	52.94	87	10	210	53.22
Zn	103.47	39	10	225	58.46	87	20	405	96.72
Sn	65.20	39	2	1050	111.74	87	X	700	41.67

6.2 Soil Samples

The assay results indicating the tin content of the soil are shown on Plan TAS-7-14 and on profiles TAS-7-15 to TAS-7-28 and TAS-7-12. The Cu, Pb and Sn results of the ridge traverse are shown on profile TAS-7-6. Cumulative frequency plots for tin were constructed, from which the four populations shown in Table 3 were derived.

TABLE 3

No. Samples	Range ppm		Mean	Pop 1	Pop 2	Pop 3	Pop 4
	Low	High					
597	5	1000	62.003	46	46-65	66-179	180

The higher tin values are due partly to tin mineralisation in altered granite zones along joints, granite margins, and in quartz veins, partly to contamination from old workings and partly to natural concentration of cassiterite at break of slopes and within valleys.

There are western, central northern, and eastern anomalies (TAS-7-14).

The western anomaly is centred at 4180E on line 4280N and extends from 3800N to 4680N. This anomaly lies between two late phase intrusions and is underlain by deuteric altered normal phase granite. (TAS-7-11). The anomaly includes the area of old surface workings, the Gilligan Creek adit, and the old plant site. This anomaly has the highest value located in soils (1000 ppm). The value of 1000 ppm coincides with the tourmaline-quartz-mica altered granite zone exposed in the Gilligan Creek Adit. The northeastern margin of the anomaly lies northeast of Gilligans Creek. The Gilligan Creek alluvials and down slope residue contribute to several anomalous samples on lines 4360N, 4440N.

The central northern anomaly, with values up to 250 ppm is associated with a microgranite intrusive phase. The anomaly intersects the margin of the two granites. It is centred at 4700E on lines 5000N and 4680N. Old costeans in the microgranite in the northeast of the anomaly have tested narrow grey quartz-tourmaline altered granite zones.

The Rb/ Sr ratios of the microgranites near the costeans were the highest obtained. Tas-7-13. The anomaly extends down slope to the south of the microgranite.

The eastern anomaly is centred at 5000E on line 4360N and extends from 4680N southwards to 4040N but is open to the south. The anomaly is associated with coarse grained granite between two late stage intrusive bodies. A peak value of 680 ppm Sn occurs 100m downslope from a costean that has tested grey quartz-tourmaline layers in microgranite.

The ridge traverse geochemistry shows a 10 sample anomaly with a peak of 660 ppm Sn. This anomaly falls within the central northern grid anomaly between line 5320N and 5000N.

6.3 Rock Samples

The 24 reconnaissance samples gave two peaks of 6050 ppm Sn. The two samples were obtained from grey quartz-tourmaline-mica altered granite from the Gilligan Creek Mine dump and surface workings 100m towards the west. Results of the reconnaissance, channel and altered granite samples are discussed with the mineralisation.

TABLE 4

Sample No	Rock Type	Results in ppm Sn	W	Rb	Sr	Mg	Li	Mg/Li	Rb/Sr
3900E 4280N	3	20	X	550	30	600	100	6	18.33
3920E 4440N	3	30	X	640	45	610	100	6.1	14.22
4040E 5300N	Microgranite	20	X	670	35	135	75	1.8	19.14
4240E 3880N	Microgranite/No 2	35	X	600	45	300	75	4	13.33
4300E 4360N	2	25	X	680	10	425	100	4.25	68
4520E 5320E	Microgranite	50	X	900	15	410	175	2.34	60
4640E 5320N	3	40	X	680	40	500	250	2	17
4760E 5000N	Microgranite	35	X	850	10	225	150	1.5	85
4810E 4930N	Microgranite	85	X	740	20	325	375	0.86	37
4860E 4680N	2	40	10	560	45	650	100	6.5	12.4
5220E 4140N	Microgranite	55	15	650	10	385	50	7.7	65
5240N 4040E	Microgranite/No 2	30	T	600	35	450	50	9	17.14
GC6401	Permian Sed.	X	X	70	35	1100	115	9.56	2
02	3	20	X	610	35	610	70	8.71	17.428
03	3	25	X	560	25	500	145	3.448	22.4
04	3	25	T	600	25	560	120	4.666	24
05	3	25	T	600	25	705	145	4.862	24
06	3	35	10	570	20	600	155	3.871	28.5
07	Microgranite/No 2	9	X	530	6	370	50	7.4	88.33
08	3	15	10	550	15	485	130	3.73	36.66
09	3	20	10	580	25	475	95	5	23.2
GC6410	3 with Tour	70	15	690	10	980	250	3.92	69.0
11	3	20	T	610	20	410	100	4.1	30.5
12	3	20	X	530	25	550	200	2.75	21.2
13	3	30	X	600	30	415	120	3.458	20
14	3	20	15	550	20	250	100	2.5	27.5
15	Microgranite	60	X	640	15	355	60	5.916	42.66
16	Microgranite	35	X	810	15	260	170	1.529	54
17	3	35	10	720	15	410	145	2.827	48
18	3	35	15	600	20	510	100	5.1	30
19	3	30	20	590	25	500	85	5.88	23.6
GC6420	3	15	15	490	15	200	85	2.35	32.6
21	3	15	X	660	25	445	50	8.9	26.4
22	3	7	X	580	30	1250	60	20.8	19.33
23	3	20	10	560	15	670	180	3.7	37.33
24	Porphyritic Microgranite	10	X	660	30	520	35	14.8	22
25	3	20	10	500	10	455	65	7	50
26	3	20	X	610	20	540	55	9.8	30.5
27	3	15	X	600	20	385	80	4.8	30
28	3	10	X	530	15	305	50	6.1	35.33
29	3	20	10	640	25	445	100	4.45	25.6
GC6430	3	10	X	610	25	400	60	6.66	24.4
31	3	15	X	480	25	725	40	18.125	19.2
32	3	25	X	540	20	600	70	8.57	27
33	3	10	X	530	35	425	80	5.3	15.14
GC6453	3 with Tour.	6	15	470	35	900	110	8.18	13.43

A series of 46 samples of microgranites, fine grained porphyritic granites and coarse grained porphyritic granites were assayed for Sn, W, Li, Mg, Rb, Sr to determine if any tin was disseminated in the granites and to determine the differences in Mg:Li and Rb:Sr ratios. The results are shown in Table 4.

Sn values range from 6 to 85 ppm. The microgranite containing the peak value was obtained adjacent to a grey altered quartz-tourmaline layer in a costean on the ridge between Gilligan and Storeys Creeks.

There is a tendency for lower magnesium and greater amounts of lithium and strontium and a wider range of rubidium in the late phase granites. Ranges of values in two principal granite phases are shown in Table 5.

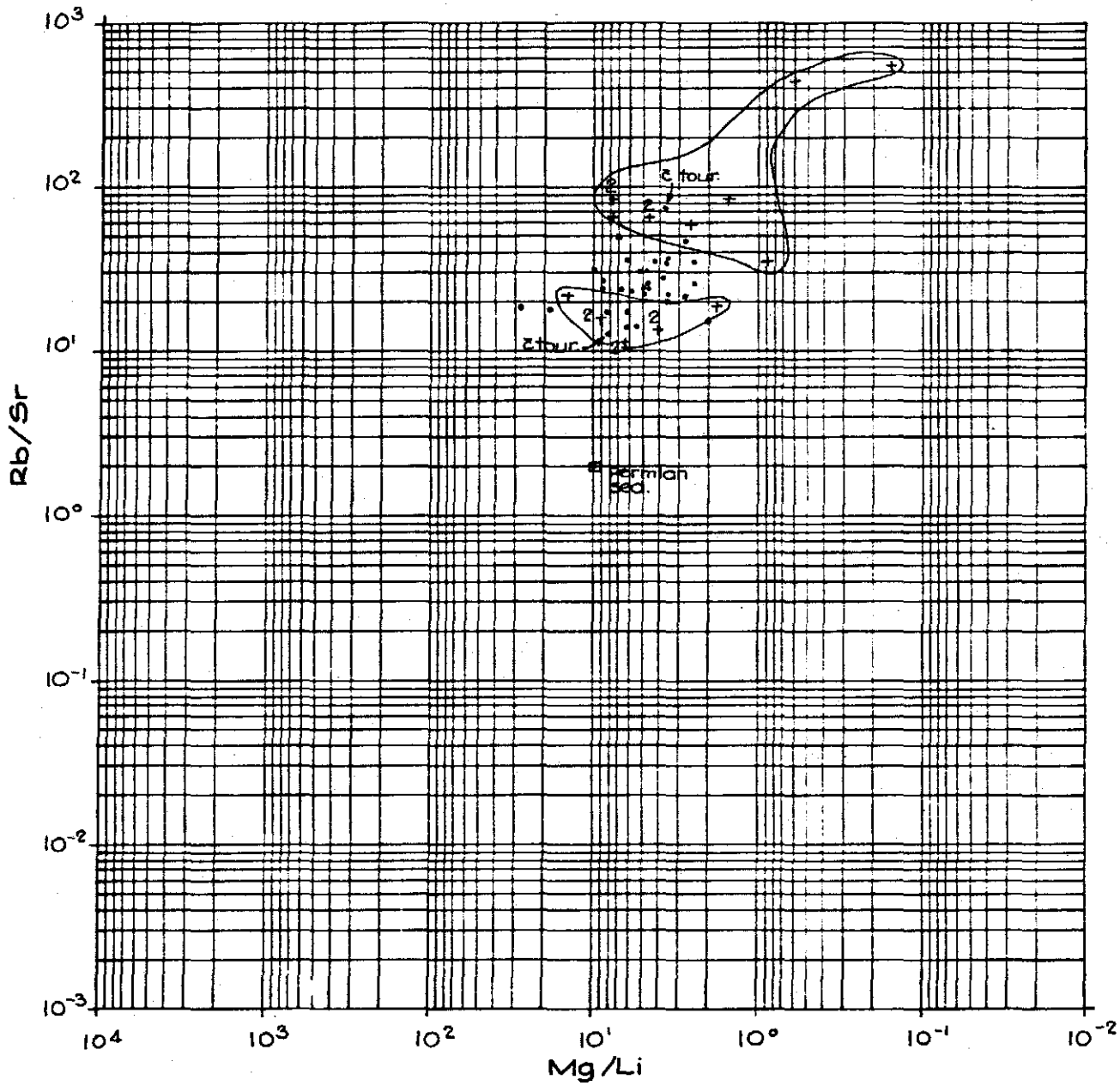
TABLE 5

Element or Ratio	Range in Coarse Grain Granite	Range in Late Phase Granite
Sr	10 to 35 ppm	X - 45 ppm
Rb	470 to 720 ppm	530 - 900 ppm
Mg	200 to 1250 ppm	135 - 650 ppm
Li	40 to 250 ppm	35 - 375 ppm
Rb/Sc	13.42 - 69	13.33 - Infinity
Mg/Li	2.35 - 20.8	0.86 - 14.8

Both granite phases plot in the tin Granite field as shown on TAS-7-29. The late phase granites fall into an upper and lower field on either side of the normal granite.

6.4 Radiometrics

Values over the grid area range from 75 to 220 c.p.s. There is a tendency for values to be higher near the margins of microgranites. On some lines peaks coincide with the soil Sn geochemical anomalies. The radiometric results are shown on line profiles in TAS-7-15 to TAS-7-28. The readings are probably a result of potassium decay of the potash-quartz rich granite.



\+ Microgranite

2+ Fine grained porphyritic granite (No 2)

• Normal phase granite (No 3)

ROSIER CREEK

GEOCHEMICAL FINGERPRINTING

PLOT OF Rb/Sr v Mg/Li

TAS-7-29

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6.5 Geology

Mathinna quartzites and slates do not occur in EL 20/78. The Mathinna Beds were intensely folded along north-westerly axis during the Tabberabberan Orogeny. The Devonian Ben Lomond Granite underlies the area of EL 20/78 and is considered to be late Tabberabberan in age. Permian and Triassic sediments were deposited on an eroded Mathinna Beds and Granite surface. The area was block faulted in the Lower Tertiary. The Permian sedimentary sequence is preserved in the Prospect Creek Trough in the west of EL 20/78.

6.5.1 Mathinna Beds

The Mathinna Beds consist of quartzites, subgreywackes, dark slates and tuffs. The beds were tentatively correlated with the Dundas Group in northwest Tasmania until a Silurian - lower Devonian fossil was found. The sediments have been asymmetrically folded with fold axes trending 162° with axes generally plunging shallowly to the south (Legge, 1968).

Most of the Mathinna Beds are of low greenschist facies and contact metamorphism is not marked. Some slate horizons become spotted and chiastolite rich and sandstones are hornfelsed as the granite contact is approached.

6.5.2 Ben Lomond Granite

The granite has been dated at approximately 370 m.y. BP (McDougall and Legge, 1965). The eastern contact east of EL 20/78 is discordant to the Mathinna Beds and in the west the contacts are faulted against Permo-Triassic sediments.

In EL 20/78 the Ben Lomond granite consists of four main textural types and represents two distinctive phases. Other rock types are quartz feldspar porphyries, pegmatites, greisen and aplites. The four main types are termed No. 1, 2, 3 and microgranite on TAS-7-11, No. 1 and 3 are related early phases, with No. 3 the most abundant granite type in EL 20/78.

(a) Number 1. This is a coarse porphyritic leucogranite. Feldspar phenocrysts are abundant and are up to 70mm long. The groundmass is hypidiomorphic medium to coarse granular. Biotite is the common mafic mineral. It is present in moderate amounts.

(b) Number 3. This is a medium to coarse porphyritic leucogranite. Variations range from No. 1 granite type to a rather even grained slightly porphyritic medium grained granite. Feldspar phenocrysts are moderately abundant and usually less than 40mm long. Biotite is the common mafic mineral, and occurs in a fine to medium grained granular groundmass.

(c) Number 2. This is a fine grained porphyritic leucogranite. Feldspar phenocrysts are up to 50mm long. Quartz phenocrysts are usually dark in colour, and less than 12mm in diameter, and often more abundant than feldspar phenocrysts. The number of feldspar phenocrysts may range from moderately abundant to a few scattered crystals. Biotite is the common mafic mineral and is associated with the fine grained quartz-ofeldspathic groundmass. Muscovite is usually present.

(d) Microgranites. This is a fine grained slightly porphyritic granite. The groundmass is evenly textured. Quartz phenocrysts are usually more abundant than feldspar phenocrysts and less than 5 mm in diameter. Feldspar phenocrysts when present are normally less than 20mm long. Biotite is the common mafic mineral. Muscovite is usually present.

Throughout EL 20/78 microgranites normally occur in the following forms:

(a) As tongues and nodules in the coarse grained granites.

(b) Narrow straight sided sills and dykes with short gradational contacts and some internal variations to No. 2 granite type. The contacts may show quartz-tourmaline clusters and tourmaline pods.

(c) Irregular bodies with diffuse contacts commonly marked by concentration of feldspar and tourmaline. Quartz-feldspar porphyries may be developed on the margins with quartz phenocrysts up to 80mm in diameter and larger porphyroblastic masses of feldspar.

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(d) Large intrusive masses with short gradational contacts. Tourmaline veins and quartz-tourmaline aggregates are best developed near the margins. The only body in the E.L. of this nature is in the northeast and to the north of the Gilligan Creek Grid. TAS-7-11. The Rb/Sr ratio of this granite is high. Costeans across grey quartz tourmaline altered granite zones along joints occur in the microgranite on the ridge within the grid area. The tourmalinized joint zones extend across the margins into the normal granite.

Flat lying microgranite sills are common in Rosier Creek. In the upper portion of Rosier Creek sills vary in thickness from 0.3m to 3m and their frequency is variable from 3 to 20m apart. Dips are shallow to the southeast approximating strike 034°m, dip 11°. Margins of some of the wider sills are altered to a quartz-sericite-mica quartz eye rock. There is some enhancement of tin and sulphide values in rock samples from these marginal zones. TAS-7-13. Esso Exploration and Production Australia Inc. noted radioactive patches with 2-3x background, rarely more than 15-20cm in diameter and occurring most frequently near the upper margins of the sills.

Flat lying microgranite sills varying in thickness from 10cm to over 12m also occur in a tributary of Storeys Creek to the northwest of Gilligans Creek grid. Costeans and alluvial diggings are associated with the microgranite sill occurrences.

In the southern half of Gilligan Creek Grid, No.2 granite type intrusions have been mapped. These are interpreted as tabular, flat dipping sills. The narrowest intrusion has a width of approximately 5m. Flow texture with the orientation of feldspars in a preferred plane is evident in several places. Narrow microgranite lenses or dykes are associated with the intrusions. The exact relationship of the microgranites and No. 2 type granite is uncertain. However, they are interpreted as synchronous late phase intrusions.

At both Hughes and Tasmania United Uranium Prospects, in the northwest section of the EL, tongues and bands of a pale grey microgranite within a coarse pink porphyritic granite are reported by Blissett (1959).

Deuteric alteration of the granite of varying intensity occurs throughout the E.L. Tourmalinization is most intense in the grid area and north of Storeys Creek TAS-5-51. In the grid area interstitial tourmaline grains usually occur in all granite phases.

Tourmaline halos, developed around feldspar phenocrysts, are a common feature. Near the contacts of two granite phases, some of the feldspar phenocrysts are completely replaced by tourmaline. Glomeroporphyritic quartztourmaline aggregates near the margins may be numerous though rarely exceed 30cm in diameter. Narrow tourmaline veinlets 1 to 2mm in thickness commonly occur along joint planes.

In the west central part of the grid, altered grey tourmaline-quartz-mica (topaz) granite zones up to 1.0m wide are developed. The alteration is either along joint planes in the normal granite or as irregular lenses along the margins of two granite phases. Similar alteration zones occur in both granite phases in the northeast and east section of the grid.

The microgranites are more readily kaolinized and sericitised than the other granite types. Patchy greisenisation is developed on the ridge west of Rosier Creek near the Eastern Prospect Fault.

Quartz veins may occur along tensional joints throughout EL 20/78. A loose stockwork of quartz and quartz-arsenopyrite veins with individual veins varying from 5 to 30cm wide over a width of approximately 6m is developed at the Gilligans Creek Mine. Refer to TAS-7-11, TAS-7-8.

The veins strike between 90° and 102°M and dip to the south at approximately 74°. Individual veins may be traced for over 100m. In the grid area between 4080E 4665N and 4120E 4665N a quartz stockwork with associated gossanous granite trends east-west, the zone is approximately 5m wide. On the main ridge further north a network of quartz veins trend 88°M and dips 83°S. Individual veins are up to 80mm wide. The zone is 1.8m wide. Several other east west vein systems occur in the northwest and to the northwest of the grid. West of Rosier Creek a loose stockwork of quartz veins with individual veins up to 60mm wide is sub-parallel to the East Prospect Fault. The veins are steeply dipping to the west and are associated with patches of greisen referred to earlier.

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There are two generations of quartz in the quartz veins. An open coarse crystal structure has been infilled by chalcedonic quartz. The later quartz has brecciated the veins in some of the stockworks.

6.5.3 Permo-Triassic Sediments

Permian sediments in EL 20/78 are preserved in the Prospect Creek Trough in the west of the E.L. Within the Prospect Creek Trough the sediments are indurated to impure quartzites, hard siltstones and siliceous mudstone. Blissett has subdivided the Permian into five units. The Burnt Gully Limestone does not occur in the Trough. Essentially the beds in the Trough consist of two cyclothem units with a total thickness of 160m.

Permian sediments are also preserved on the ridge north of Rosier Creek and on Castle Carey Hill. The sediments on the ridge consist of dark micaceous pyritic sandy mudstones, and indurated siltstones.

The sediments are estimated to be 74m thick.

6.5.4 Structure

The Mathinna beds are asymmetrically folded along NNW trending axes. Apart from this, structures in the area are confined to normal faults, joints in the granite and to structures related to the late phase intrusions. A total of 197 joint measurements were taken in the grid area. A percentage contour diagram from the poles is shown on TAS-7-9.

The major faults in the region strike northnorthwest about 320°-350°. They are post intrusive and possibly post Permian. They include the Eastern and Western Prospect Faults, Egan Creek Fault and Gipps Creek Fault. The Eastern Creek Fault forms the western boundary to the granite in EL 20/78. Blisset 1959 calculated a throw of 63m for the southern extension of the fault. The poles of the northnorthwest trending joint planes in EL 20.78 plot on the periphery centred at 260° and 80°M.

The second major regional faulting and jointing trends northnortheast (0-025°) and includes the Aberfoyle Fault System which hosts the tin-tungsten mineralisation in the Aberfoyle mine. The south-westerly extension of this Fault system extends into EL 20/78 where it is terminated against the southeasterly extension of the Egan Creek Fault

near Hughes and Tasmania United Uranium Prospects. Esso Exploration and Production Inc. noted a strong set of parallel photolinears extending from the southwesterly extension of the Aberfoyle Fault. The photolinears occur in a zone about 800m wide and terminate against the Eastern Prospect Fault. The poles of the northnortheast trending joint planes in EL 20/78 plot towards the periphery centred at 75° and 315°.

A set of photolinears which appears to be distributed evenly across the EL trends 270° to 295°. TAS-5-59. The east-west trend of joints in EL 20/78 is a dominant structural feature. The poles plot towards the periphery at 005°M. There is no corresponding north pole position as the east-west joints dip constantly at 70° to 89° to the south.

In the EL a fourth set consists of flat joints which plot close to the center of the projection. The joint pattern is very conspicuous in Gilligans Creek, and gives the granite a layered appearance.

7. MINERALISATION

Rock samples from altered margins of microgranite in Rosier Creek gave a slight enhancement in tin and (base metal) values as indicated in Table 6, Plan TAS-7-13.

TABLE 6
(ppm)

No.	Sn	W	Cu	Pb	Zn
A1	40	X	X	X	10
A2	30	T	X	X	40
A3	50	T	130	15	20
N	150	X	X	10	10
S	180	10	125	140	730
W	260	T	X	X	10
X	1150	X	X	X	20

The alteration is patchy and variable in thickness.

An adit 109m long, termed here the Gilligan Creek Mine at grid coordinates 4090E, 4180N, follows a quartz-arsenopyrite lode system. Result of two sets of channel samples across the lode and spot samples from the mine are shown on TAS-7-8. Tin values range from 35 to 380 ppm across the lode. In the B series of channel samples a value of 9100 ppm Sn was obtained from an adjacent zone containing a limonite-chlorite filled parallel fracture.

Gossanous granite associated with another east-west orientated quartz stockwork system to the north between grid coordinates 4080E 4665N and 4120E 4665N gave the following two sets of results (ppm).

Sn	Mo	Cu	Pb	Zn
25	4	17	64	25
20	17	1	90	41

The quartz vein stockworks in the EL are considered to be narrow, few in number and have tin values too low to be significant.

Grey quartz-tourmaline-mica (topaz) altered granite zones, trending 045°M, extend over an area 100m x 300m from grid 3980E 4440N, 4180E 4320N in the north to grid 3860E 4200N, 3980E 4160N in the south. Old surface workings are prominent along four lines see plan TAS-7-11. The altered zones developed along joint surfaces are up to 70cm wide. The tourmaline lode intersected in the Gilligan Creek Mine at 96m from the entrance is 45cm wide. Results from rock chips of the altered granite are shown on TAS-7-11 and in Table 7 below.

TABLE 7
(ppm)

Sample No.	Sn	Mo	Cu	Pb	Zn
G.C.M 96m Mine	2400	5.0	26	80	82
3900E 4245N	100	3.0	14	63	54
3885E 4220N	840	3.5	4	145	36
3980E 4350N	930	5.0	3	140	245
3880E 4360N	120	4.0	10	15	56
4060E 4240N	100	11.0	170	17	160

Channel samples at 0.5m intervals over the grey quartztourmaline zone in the Gilligan Creek Mine at 96m gave 1650, 1050, 1200 ppm Sn.

Fluorite was noted only in one sample from the area. The longest alteration zone extends for 320m. At its south end it terminates against the margin of a No. 2 granite intrusion. At its northeast end the zone is terminated against a series of northnorthwest tending limonitically stained joints and several quartz veins. A mine adit 15m long intersects the joints and quartz veins. Two rock samples from the adit gave 210, 240 ppm Sn and 4.0, 4.0 ppm Mo.

The four known altered zones in the area dip 80-86° northwest.

Grey quartz-tourmaline-mica altered granite zones with tin values were noted in several other parts of the grid. Two rock samples collected from an 18cm wide, irregular lens on the eastern margin of a No. 2 granite intrusion gave values as follows:

Sample No.	Sn ppm	W ppm	Mo ppm	Cu ppm	Pb ppm	Zn ppm
K	1400	90	NA	X	90	30
4610E 3945N	4800	NA	5.0	5	56	53

The samples were taken from a small digging on the track to the old plant site of the Gilligan Creek Mine TAS-7-11.

East and northeast of Gilligan Creek in the eastern section of the grid, grey quartz-tourmaline mica zones occur in No. 2 granite and microgranite intrusions respectively. Rock samples of the altered zone gave values of:-

Sample No.	Sn ppm	Mo ppm	Cu ppm	Pb ppm	Zn ppm
5220E 4140N	2400	2.0	3	5	38
4860E 5000N	170	3.5	3	3	54

The zones are narrow and appear to be widely spaced. Tourmaline veins at 4860E 5000N trending 90° extend into the main granite phase.

Tin values are not disseminated in the microgranite. The following samples and values were obtained from microgranite on the margins of costeans.

Sample No.	Sn ppm	W ppm	Mg ppm	Li ppm	Rb ppm	Sr ppm
5220E 4240N	55	15	385	50	650	10
4810E 4930N	85	X	325	375	740	20

The molybdenum values of the grey quartz-tourmaline altered granite zones in the grid area are relatively high. Rock chip sample values range from 2.0 - 17.0 ppm Mo.

Old costeans and tourmalinized joint planes similar to those on the grid area are located to the northwest in a tributary of Storeys Creek and to the north of Storeys Creek southeast of the Tasmania United Uranium Prospect. TAS-5-51. A tin mining lease is current in the EL in the lower section of Rosier Creek.

In EL 20/78 the tin mineralisation is confined preferentially to altered joint planes trending northeastward, and to quartz vein stockworks trending eastward. A few northnorthwest trending, limonite stained joints show some enhancement in tin values. Deuteric alteration is most intensive in the EL near margins of the larger bodies of late phase granites and microgranites.

8. DISCUSSION

The thermal effects caused by the intrusion of the Ben Lomond granite are not marked, indicative of a high level of emplacement. The tin and tungsten mineralisation mined at Aberfoyle and Storeys Creek is preserved in a down-thrown block north of EL 20/78. Blissett 1959 considers that the mineralised horizons in the upthrown block wouth of the Aberfoyle Trough and southeast of the Aberfoyle Fault system have been eroded off.

No tungsten mineralisation was noted in EL 20/78, however tin mineralisation does occur. In the Gilligan Creek grid the mineralisation is confined to grey quartz-tourmaline-mica-(topaz) altered bands along joint planes, and to a lesser extent in east-west trending quartz vein systems. The grid soil tin anomalies and the mineralised horizons lie en echelon to the northnorthwest trend of the late phase microgranite and fine grained porphyritic granite intrusions in the grid. The

Gilligan Creek western soil tin anomaly is located between two sill like intrusives of fine grained porphyritic granite. In the eastern sector of the grid the soil tin anomaly is centered over both microgranite and fine grained porphyritic granite.

Old costeans occur in the coarse grained granite phase in the western part of the grid and in microgranites and fine grained porphyritic granites in the eastern section of the grid. It is considered that the mineralisation is confined to joint structures related to both the intrusions of the late phase granites and to regional northnorthwest and northnortheast fault systems.

9. CONCLUSION

Peak values of 9100 ppm, 1000 ppm and 1100 ppm were respectively obtained from rock, soil and stream sediment samples. Rock samples of grey quartz-tourmaline-mica altered granite indicate a grade of 1036 gm a tonne tin in the layers. Individual layers are up to 0.7m wide, extend for 320m in length and are between 20 and 30m apart in a restricted area.

Rock samples showed that no disseminated cassiterite, or other tin minerals are disseminated in the granites away from the altered joint planes. The altered joint planes and quartz vein systems are closely related to the margins and position of late phase microgranite and fine grained porphyritic granites.

The style of mineralisation provides an unattractive exploration target. It is recommended that EL 20/78 be relinquished.

Approved by

R. J. Kernick

R. J. Kernick
EXPLORATION MANAGER

Written by
D. S. Thynne
Geologist

19th November 1979

021

078022

I, JANET ELIZABETH CLARK, of 2 Newry Street, Windsor in the State of Victoria, Secretary, DO SOLEMNLY AND SINCERELY DECLARE as follows:

1. That the details of our work undertaken on Exploration Licence 20/78 are described in the accompanying report.

2. That total expenditure upon the Exploration Licence to 31st October 1979 is $31,181.

		$
(a)	Salaries and wages, including professional fees	17,262
(b)	Management, accounting, secretarial and tenement costs	3,562
(c)	Operating costs (including drafting and specialists)	10,357
		$31,181

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT Melbourne)
)
in the State of Victoria)
) Janet Clark
this 28th day of)
)
November 1979)

Before me:

A Commissioner for taking Declarations and Affidavits under the Evidence Act 1958

078023

REFERENCES

Blissett A.H., 1959 — The Geology of the Rossarden-Storeys Creek District. Geological Survey Bulletin, No. 46.

Legge J., 1968 — The Geology and Joint Analysis of the Ormley Avoca Rossarden Area. Unpublished Han Thesis. University Tasmania, Hobart.

McDougall I and Leggo P.J. — Isotopic Age Determinations on Granite Rocks from Tasmania. Jour. Geol. Soc. Aust. 12, 2 295-332.

Pohl D.C., 1978 — Esso Exploration and Production Australia Inc. Report on EL 12/77 Tasmania.

023

EL 20/78 SAMPLE NO * EASTINGS NORTHINGS

078024

EL20/78 ROSIER CREEK

STREAM SEDIMENT SAMPLING DATA GEOCHEMISTRY

(DATA BASE NOS)

LICT NO	SAMPLE NUMBER	ECO-ORDS EAST	NORTH	CU	PB	ZN	SN	W	AG	AS	MO
2078G	0001	614	938	10	35	30	6	10001			
2078G	0002	615	788	15	100	220	4	10002			
2078G	0003	615	858	10	70	100	15	3			
2078G	0004	616	598	10	80	105	15	4			
2078G	0005	617	248	10	10	20	0	5			
2078G	0006	618	368	10	50	65	15	6			
2078G	0007	619	258	10	60	70	25	7			
2078G	0008	620	048	10	35	45	7	8			
2078G	0009	620	918	15	25	40	130	9			
2078G	0010	621	738	10	35	40	30	10010			
2078G	0011	622	528	10	30	50	40				
2078G	0012	623	128	10	45	55	260				
2078G	00136	239	779993	10	25	40	250				
2078G	00146	244	579901	10	35	40	420				
2078G	00156	250	979828	10	35	50	70				
2078G	00166	255	979769	10	20	30	120				
2078G	00176	264	179684	10	0	15	110				
2078G	0019	628	268	199	10	95	45	15			
2078G	0020	627	968	98	15	65	100	40	10020		
2078G	0021	627	818	5	15	115	180	70			
2078G	00226	277	279921		20	200	225	70			
2078G	00236	274	879806		10	140	210	40			
2078G	00246	274	179693		10	10	15	6			
2078G	00256	275	579558		10	10	20	80			
2078G	00266	278	379424		15	30	35	55			
2078G	00276	281	779355		10	20	30	240			
2078G	00286	287	379263		10	20	35	190			
2078G	00296	293	279181		10	15	30	45			
2078G	00306	69	181797		15	10	25	0	10030		
2078G	00316	76	881859		10	0	20	0			
2078G	00326	82	281925		15	15	35	0			
2078G	00336	89	081992		10	10	25	0			
2078G	00346	91	682076		15	15	70	170			
2078G	00356	96	082156		10	10	30	5			
2078G	00366	100	982244		10	20	40	15			
2078G	00376	106	482325		10	20	50	8			
2078G	00386	111	382410		10	20	45	10			
2078G	00396	114	782506		10	15	35	0			
2078G	00406	119	882596		10	15	30	3	10040		
2078G	00416	124	282669		15	1	40	80			
2078G	00426	133	382692		15	10	30	0			
2078G	0043	630	828	672	15	15	35	40			
2078G	0044	634	508	999	10	30	30	550			
2078G	00456	338	681048		10	10	45	10			
2078G	00466	332	581111		10	15	45	6			
2078G	00476	327	981191		10	30	50	30			
2078G	00486	323	781265		10	20	35	160			
2078G	00496	320	881362		15	15	35	30			
2078G	00506	321	781454		15	10	30	25	10050		
2078G	00516	326	581546		10	10	20	6			
2078G	00526	324	881605	620	50	1950	1100				
2078G	00536	316	381488		15	40	65	30			
2078G	00546	304	281369		15	155	175	60			
2078G	00556	298	381281		15	25	30	3	10055		

* READ ALL GAPS SUCCEEDING "6" or "8" as "0"

J.

024

078025

	Cu	Pb	Zn	Sn
2078G 00566287781211	10	150	160	60
2078G 00576282481084	10	90	75	60
2078G 0058627518 967	15	120	70	30
2078G 0059628188 895	15	155	105	55
2078G 0060628488 813	10	60	75	80
2078G 0061628498 705	15	80	30	10
2078G 0062628538 614	10	25	20	4
2078G 00636296581488	10	10	25	40
2078G 00646287181471	10	45	80	60
2078G 00656274981485	10	45	60	240
2078G 00666278481420	15	40	40	50
2078G 0067626918 902	10	40	35	15
2078G 0068626018 830	15	45	80	20
2078G 0069625338 735	15	25	35	20
2078G 00706245179964	15	25	50	160
2078G 00716264481497	5	50	55	30
2078G 00726254481469	5	30	30	40
2078G 00736243281447	5	65	45	130
2078G 00746233481381	0	30	30	5
2078G 00756227481306	0	35	45	15
2078G 00766219781228	0	25	40	6
2078G 00776208681227	5	55	90	170
2078G 00786198481239	0	25	20	40
2078G 00796186081254	0	30	25	5
2078G 00806173481288	0	40	30	7
2078G 00816214082385	0	25	50	0
2078G 00826209182321	0	35	50	20
2078G 00836203982235	0	20	35	15
2078G 00846196182156	5	60	90	8
2078G 00856190182118	20	35	45	20
2078G 00866183282021	5	25	40	70
2078G 00876178381957	0	25	40	0
2078G 00886170381904	0	35	45	6
2078G 00896160981848	0	30	35	4
2078G 00906153981793	0	35	75	9
2078G 00916145581720	0	25	30	0
2078G 00926139781654	0	25	20	0
2078G 00936133181578	0	45	15	0
2078G 00946239679683	0	50	55	15
2078G 00956239679748	0	30	25	3
2078G 00966161779098	5	30	50	7
2078G 00976151379164	0	50	45	3
2078G 00986141779211	0	20	20	3
2078G 00996131579268	5	10	20	0
2078G 01006123479334	0	65	70	0
2078G 01016120479394	0	25	35	0
2078G 01026108179384	0	20	40	0
2078G 01036 92779341	0	15	15	20
2078G 01046 86979271	0	20	30	0
2078G 0105614138 420	0	25	15	0
2078G 0106613298 330	0	10	15	15
2078G 0107612328 249	0	10	10	0
2078G 0108611648 140	5	190	100	10
2078G 0109611678 31	0	75	100	10
2078G 01106123379928	5	20	20	0
2078G 01116116979929	5	65	90	10
2078G 01126109379835	0	70	120	15
2078G 01136101179780	0	45	105	8
2078G 01146 93779698	0	40	60	0
2078G 01156 87779603	0	25	50	6
2078G 01166 79379509	5	20	50	0

10056
↓
10060
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10070
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10080
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10090
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10099
10100
10101
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10109
10110
10111
10112
↓
10116

025

078026

	Cu	Pb	Zn	Sn	
2078G 01176 80979411	0	20	35	0	10117
2078G 01186 83279323	0	15	30	5	
2078G 01196 85779210	0	20	45	10	
2078G 01206 89079083	5	25	60	50	10120
2078G 01216 93078915	5	30	75	190	
2078G 012261O4478846	5	35	80	130	
2078G 01236 93878794	5	30	70	0	
2078G 01246 88978709	5	30	85	20	
2078G 01256 89778526	5	30	60	25	
2078G 01266 97778456	0	30	30	170	
2078G 01276 95978194	5	90	20	30	
2078G 01286 3881648	5	10	20	0	
2078G 01296 181574	5	20	20	4	
2078G 013059951814 75	10	60	100	0	10130
2078G 01315989681369	10	95	190	6	
2078G 01325988281209	10	55	130	0	
2078G 01335992481057	10	75	265	0	
2078G 0134599328 950	15	75	290	9	
2078G 0135599978 926	0	35	35	0	
2078C 01366 778 973	0	50	55	4	
2078G 01376 16181017	0	60	65	0	
2078G 0138599018 831	15	70	320	10	
2078G 0139598438 732	15	80	405	8	
2078G 0140598188 633	15	50	205	0	10140
2078G 0141597038 658	10	35	180	9	
2078G 0142595908 756	20	100	280	310	
2078G 014359?068 868	5	20	90	0	
2078G 0144595558 883	10	35	200	0	
2078G 0145594258 940	10	100	180	70	
2078G 0146593558 990	5	15	35	30	
2078G 014760?4980927	5	40	90	10	
2078G 0148603778092 7	10	40	150	0	
2078G 0149598188 506	0	10	20	0	
2078G 0150598688 393	5	30	125	7	10150
2078G 0151597798 453	0	30	35	4	
2078G 0152599648 320	0	25	110	9	
2078G 01536 818 243	5	30	120	0	
2078G 01546 1848 191	0	20	50	10	
2078G 01556 2758 139	0	20	85	3	
2078G 01566 3718 81	0	20	70	0	
2078G 01576 3688 16	0	25	40	0	
2078G 01586 4458 16	10	60	215	30	
2078G 01596 54079960	0	40	80	7	
2078G 01606 5488 81	0	25	55	0	10160
2078G 01616 6418 157	0	25	50	20	
2078G 01626 6648 255	5	40	90	15	
2078G 01636 6988 345	5	30	65	6	
2078G 01646 61279869	10	75	180	30	
2078G 01656 66779769	5	40	90	15	
2078G 01666 74079654	5	20	35	0	
2078G 01676 77279566	5	25	45	0	10167
2078GC60015818983885	45	30	120	45	9901
2078GC60025841983133	50	40	165	15	
2078GC60035845882454	30	20	105	15	
2078GC60046282681420	20	35	25	9	
2078GC60055858081802	50	55	210	30	
2078GC60065858781845	35	90	225	25	
2078GC60075839481822	25	20	120	870	
2078GC60085838181874	20	35	155	15	
2078GC60095828381839	35	25	80	35	
2078GC60105836281353	20	25	65	20	9910

026

078027

	Cu	Pb	Zn	Sn
2078GC60115841781329	60	25	65	15
2078GC60125839581016	30	25	60	10
2078GC60135835481066	45	25	100	30
2078GC6014582918 774	25	25	35	10
2078GC6015582898 825	25	30	85	15
2078GC6016580848 294	35	30	75	270
2078GC6017580438 368	40	45	145	40
2078GC60185802979569	30	75	110	30
2078GC60195816778671	40	80	50	15
2078GC60205817778744	35	45	75	45
2078GC60215803679050	25	60	30	15
2078GC60225811778353	20	155	45	25
2078GC60235843477708	45	85	105	15
2078GC60245852677318	25	25	25	6
2078GC60256103477057	15	55	75	160
2078GC60266 82677532	25	55	45	500
2078GC60276 99477574	70	95	75	20
2078GC60286 94477660	15	15	55	20
2078GC60296 97777657	65	150	70	15
2078GC60306 74478317	25	30	35	20
2078GC60316 77578311	100	105	175	90
2078GC60326127478420	30	60	45	30
2078GC60336128478440	20	135	110	25
2078GC60346115478574	145	105	100	20
2078GC60356113778870	35	60	95	35
2078GC60366 88179333	45	125	180	35
2078GC60376 83279564	25	85	125	700
2078GC60386 77979574	30	50	130	410
2078GC60396 67579728	40	210	195	50
2078GC60406 5378 20	40	95	190	50
2078GC60416 3778 84	30	90	345	40
2078GC60426 3728 20	30	180	380	60
2078GC60435968679210	35	65	75	40
2078GC60445965579231	35	110	330	50
2078GC60455951279046	20	50	180	45
2078GC60465947379021	30	85	125	35
2078GC60475919279085	25	160	105	25
2078GC60485955978646	15	35	90	20
2078GC60495960378639	20	135	125	30
2078GC60505951578564	15	135	70	30
2078GC60515966678120	15	110	240	35
2078GC60525960378100	15	105	225	30
2078GC60535965277400	15	85	140	45
2078GC60545968677399	10	25	25	20
2078GC60555962577027	10	35	55	10
2078GC60565942577022	15	20	95	140
2078GC60576357979380	35	75	95	40
2078GC6058629228 738	25	165	155	50
2078GC6059628598 708	35	265	65	35
2078GC6060626928 899	30	150	190	80
2078GC60616321781488	25	75	100	40
2078GC60626309581430	25	100	105	60
2078GC60636309781478	35	55	70	30
2078GC6064627508148 1	15	65	100	75
2078GC6065627138134 1	10	35	20	15
2078GC6066620678 306	35	90	115	30
2078GC6067621438 318	35	35	55	1050
2078GC6068620758 270	25	165	70	360
2078GC6069624518 215	20	85	40	50
2078GC60706251879748	25	65	105	70
2078GC60716291479107	35	55	55	25

9911
9920
9930
9940
9950
9960
9970
9971

027

078028

	Cu	Pb	Zn	Sn	
2078GC60726317678719	15	30	35	50	9972
2078GC60736357778541	25	30	135	60	
2078GC60746368578703	20	15	175	75	
2078GC60756447982279	20	40	35	25	
2078GC60766445782309	20	30	60	720	
2078GC60776450482350	25	50	70	380	
2078GC60786455282921	45	70	125	340	
2078GC60796382483295	45	145	200	80	
2078GC60806389883779	40	130	150	100	9980
2078GC60816318783554	35	95	125	75	
2078GC60826328983043	30	80	95	60	
2078GC60836326483004	20	20	25	50	
2078GC60846384982686	25	100	135	60	
2078GC60856250982375	60	80	120	590	
2078GC60866280682206	25	160	280	30	
2078GC60876259981938	25	75	120	35	
2078GC60886322681888	60	285	230	50	
2078GC60896218078758	30	105	135	35	
2078GC60906276278477	30	155	285	40	9990
2078GC60916273177944	30	95	180	35	
2078GC60926231377778	15	80	55	55	
2078GC60935898384257	45	110	285	15	
2078GC60945972783785	35	60	165	50	
2078GC60955969383753	20	40	135	10	
2078GC60965979883349	35	270	695	25	
2078GC60976 88283000	140	85	420	60	
2078GC60986104682998	45	75	260	200	
2078GC60996 45382561	60	245	960	20	9999
2078GC61006 39682616	40	280	450	50	10000
2078GC6267637268 159	35	115	120	60	10168
2078GC6268644708 448	90	135	295	80	10169
2078GC6269644328 429	75	45	105	80	10170
2078GC6270646978 13	30	50	105	55	10171
2078GC62716467479964	65	75	75	50	10172
2078GC62726417579700	20	95	25	30	10173
2078GC62736415179704	20	80	35	30	10174
2078GC62746407979655	25	90	55	45	10175

028

EL20/78 ROSIER CREEK 078029

ROCK SAMPLING DATA GEOCHEMISTRY

LICT NO	SAMPLE NUMBER	CO-ORDS EAST	CO-ORDS NORTH	ELEMENTS DETERMINED CU	PB	ZN	SN	W	AG	AS	MO	RB	SR	MG	LI
2078A		16	4678 958	0	0	10	40	0							
2078A		2598	398 594	0	0	40	30	5							
2078A		36	288 303	130	15	20	50	5							
2078A		56	22479889	0	10	70	20	0							
2078A		6	64982083	10	10	20	20	0							
2078C		6	86383957	0	5	30	20	0							
2078J		61	85181867	0	20	10	0	15							
2078K		62	55579560	0	90	301	400	90							
2078L		62	1178 31	70	80	1456	050	50							
2078M		62	22479895	25	55	556	050	90							
2078N		61	62579121	0	10	10	150	0							
2078O		61	16779335	0	0	10	45	5							
2078S		6	81579661	125	140	730	180	10							
2078T		59	32581264	0	0	30	40	0							
2078U		59	56381416	0	25	20	100	0							
2078V		59	90281351	0	20	25	0	0							
2078W		6	1278 968	0	0	10	260	5							
2078X		59	7308 640	0	0	201	150	0							
2078Y		58	7148 783	10	15	40	30	0							
2078Z		62	223798933	850	210	320	180	0							
2078ZZ		62	22379895	30	0	50	55	15							
2078G	011623028		178	10	0	40	170	20							
2078G	018628398		301	0	0	35	30	15							
2078G	04763280		81213	0	0	10	15	10							
2078GC	64015831		682480				0	0				70	35	1100	115
2078GC	6402638798		864				20	0				610	35	610	70
2078GC	6403637778		864				25	0				560	25	500	145
2078GC	6404636768		820				25	5				600	25	560	120
2078GC	6405635858		800				25	5				600	25	705	145
2078GC	6406634878		784				35	10				570	20	600	155
2078GC	6407634878		784				9	0				530	6	370	50
2078GC	6408634068		735				15	10				550	15	485	130
2078GC	6409633358		670				20	10				580	25	475	95
2078GC	6410633078		588				70	15				690	10	980	250
2078GC	6411632608		505				20	5				610	20	410	100
2078GC	6412626288		440				20	0				530	25	550	200
2078GC	6413627118		483				30	0				600	30	415	120
2078GC	6414628098		508				20	15				550	20	250	100
2078GC	6415629048		497				60	0				640	0	355	60
2078GC	6416630028		514				35	0				810	0	260	170
2078GC	6417630908		489				95	10				720	15	410	145
2078GC	6418631968		485				35	15				600	20	510	100
2078GC	6419625948		513				30	20				590	25	500	85
2078GC	6420625008		552				15	15				490	15	200	85
2078GC	6421624048		573				15	0				660	25	445	50
2078GC	6422623668		661				7	0				580	30	1250	60
2078GC	6423623048		736				20	10				560	15	670	180
2078GC	6424622448		802				10	0				660	30	520	35
2078GC	6425621788		879				20	10				500	10	455	65
2078GC	6426620818		920				20	0				610	20	540	55
2078GC	6427619828		960				15	0				600	20	385	80
2078GC	64286191881046						10	0				530	15	305	50
2078GC	64296183881102						20	10				640	25	445	100
2078GC	6430617518		1146				10	0				610	25	400	60

2078GC64316165681161	15	0	480	25	725	40
2078GC64326155281149	25	0	540	20	600	70
2078GC64336146481189	10	0	530	35	425	80
2078GC64536 74977581	6	15	470	35	900	110

030

078031

EL20/78 ROSIER CREEK (GILLIGANS CREEK) ?

SOIL SAMPLING DATA GEOCHEMISTRY

LICT NO	SAMPLE NUMBER	CO-ORDS EAST	CO-ORDS NORTH	ELEMENTS DETERMINED CU	PB	ZN	SN	W	AG	AS	MO
	2078GC6101			25	10	20	35	35			
	2078GC6102			50	25	45	110	35			
	2078GC6103			35	5	25	40	35			
	2078GC6104			45	20	40	55	30			
	2078GC6105			50	15	55	50	35			
	2078GC6106			35	15	40	55	25			
	2078GC6107			20	5	20	50	25			
	2078GC6108			45	10	35	55	25			
	2078GC6109			25	10	30	55	40			
	2078GC6110			25	5	15	40	30			
	2078GC6111			30	5	20	35	40			
	2078GC6112			50	10	40	45	25			
	2078GC6113			70	50	70	65	30			
	2078GC6114			15	25	30	60	20			
	2078GC6115			50	50	65	55	15			
	2078GC6116			75	15	65	60				
	2078GC6117			20	5	20	35	40			
	2078GC6118			10	5	15	25	35			
	2078GC6119			30	5	20	35	30			
	2078GC6120			20	5	25	45	35			
	2078GC6121			145	5	100	40				
	2078GC6122			55	5	45	65	45			
	2078GC6123			25	5	20	50	55			
	2078GC6124			20	5	20	40	55			
	2078GC6125			20	5	25	60	55			
	2078GC6126			20	10	25	30	50			
	2078GC6127			90	15	65	40				
	2078GC6128			30	60	50	50	40			
	2078GC6129			30	45	80	60	40			
	2078GC6130			20	20	25	30	30			
	2078GC6131			30	10	30	35	45			
	2078GC6132			30	10	20	30	35			
	2078GC6133			150	10	110					
	2078GC6134			35	15	25	35	40			
	2078GC6135			45	15	40	40	40			
	?078GC6136			30	5	30	40	30			
	2078GC6137			25	55	80	70	25			
	2078GC6138			30	15	30	55	35			
	2078GC6139			35	15	35	40				
	2078GC6140			45	20	40	45				
	2078GC6141			40	15	25	30	35			
	2078GC6142			25	15	25	30	25			
	2078GC6143			10	10	10	25	35			
	2078GC6144			10	5	10	25	30			
	2078GC6145			10	15	30	35	20			
	2078GC6146			20	30	60	35	0			
	2078GC6147			20	35	50	65	25			
	2078GC6148			10	5	5	35	25			
	2078GC6149			10	5	15	35	30			
	2078GC6150			5	5	10	35	30			
	2078GC6151			10	5	10	35	25			
	2078GC6152			20	10	15	40	20			
	2078GC6153			15	5	20	40	25			
	2078GC6154			10	10	15	30	20			

2078GC6155	10	5	15	35	30
2078GC6156	10	10	15	55	15
2078GC6157	10	55	25	75	10
2078GC6158	10	10	20	160	10
2078GC6159	15	5	15	440	20
2078GC6160	70	30	60		
2078GC6161	25	20	35	660	10
2078GC6162	60	15	45		
2078GC6163	20	10	20	190	20
2078GC6164	70	25	60	370	20
2078GC6165	10	5	10	270	25
2078GC6166	15	15	40	180	20
2078GC6167	10	5	15	140	20
2078GC6168	10	10	20	70	25
2078GC6169	20	10	25	50	20
2078GC6170	160	20	120		
2078GC6171	15	30	50	60	20
2078GC6172	15	80	70	90	35
2078GC6173	25	10	25	30	30
2078GC6174	20	15	15	30	20
2078GC6175	25	5	15	30	25
2078GC6176	45	5	35	35	25
2078GC6177	25	5	20	30	35
2078GC6178	50	5	45		
2078GC6179	30	5	20	30	25
2078GC6180	40	5	30	30	25
2078GC6181	40	10	35	45	20
2078GC6182	25	5	35	55	20
2078GC6183	30	10	25	35	15
2078GC6184	20	10	25	55	25
2078GC6185	25	20	40	55	30
2078GC6186	30	15	40	70	30
2078GC6187	25	10	25	50	20
2078GC6188	40	5	35	35	15
2078GC6189	75	10	50	30	20
2078GC6190	25	15	30	35	30
2078GC6191	25	5	20	30	25
2078GC6192	20	5	15	20	10
2078GC6193	25	10	30	25	30
2078GC6194	20	10	15	15	35
2078GC6195	20	60	35	45	35
2078GC6196	40	60	70	60	25
2078GC6197	25	15	30	40	15
2078GC6198	40	90	100	55	20
2078GC6199	30	45	40	50	25
2078GC6200	15	15	20	35	20
2078GC6201	55	75	140		
2078GC6202	25	15	20	90	25
2078GC6203	70	35	70	95	30
2078GC6204	95	70	175	65	20
2078GC6205	55	45	70	160	40
2078GC6206	45	25	45	150	35
2078GC6207	30	50	45	130	40
2078GC6208	335	45	220	75	35
2078GC6209	40	20	35	40	50
2078GC6210	115	25	75	45	40
2078GC6211	35	25	30	30	60
2078GC6212	100	25	70		
2078GC6213	240	75	210	25	80
2078GC6214	45	25	95	25	20
2078GC6215	40	20	90	15	25

2078GC6216	25	20	15	35	0
2078GC6217	45	20	30	15	
2078GC6218	25	20	15	25	10
2078GC6219	55	20	35	25	40
2078GC6220	135	30	85		
2078GC6221	45	30	45	40	30
2078GC6222	70	40	80	65	25
2078GC6223	75	30	50	60	30
2078GC6224	105	30	80	60	20
2078GC6225	45	25	30	65	25
2078GC6226	70	30	45	60	
2078GC6227	65	25	45	45	15
2078GC6228	45	30	45		
2078GC6229	115	20	75		
2078GC6230	35	15	25	25	20
2078GC6231	40	25	25	15	25
2078GC6232	100	75	105	50	30
2078GC6233	80	15	65	35	25
2078GC6234	35	15	35	30	20
2078GC6235	20	10	20	30	20
2078GC6236	20	5	25	40	30
2078GC6237	25	10	35	35	20
2078GC6238	45	10	35	30	15
2078GC6239	50	10	40	25	15
2078GC6240	45	10	35	25	20
2078GC6241	25	30	40	40	15
2078GC6242	25	60	60	45	30
2078GC6243	90	20	65	25	35
2078GC6244	35	10	30	30	25
2078GC6245	50	10	35	20	20
2078GC6246	45	30	90	45	20
2078GC6247	80	10	70	20	35
2078GC6248	30	10	30	25	25
2078GC6249	30	10	20	20	20
2078GC6254	15	30	20	20	20
2078GC6255	15	5	25	35	10
2078GC6256	30	10	30	65	20
2078GC6257	25	5	20	320	50
2078GC6258	40	10	45	120	35
2078GC6259	40	20	40	85	15
2078GC6260	10	5	15	55	0
2078GC6261	15	10	15	50	15
2078GC6262	40	5	30	40	0
2078GC6263	30	15	40	60	25
2078GC6264	20	20	50	35	25
2078GC6265	20	20	50	80	30
2078GC6266	15	20	40	100	10

033

078034

EL20/78 ROSIER CREEK

GILLIGAN GRID SOIL SAMPLING DATA GEOCHEMISTRY

E N.	PEG	EPEG	N	SN	NORTHEAST RL
2078	3800	3700		15	373638184191
2078	3840	3700		6	373638554035
2078	3880	3700		4	373638943973
2078	3920	3700		15	373739334032
2078	3960	3700		0	373739724115
2078	4000	3700		15	373840104248
2078	4040	3700		20	373740504235
2078	4080	3700		0	373740894155
2078	4120	3700		0	373641284117
2078	4160	3700		10	373641674203
2078	4200	3700		30	373742064120
2078	4240	3700		40	373742544052
2078	4240	3720		40	375742544052
2078	4260	3720		15	375742744052
2078	4320	3720		25	375743223552
2078	4320	3700		20	373543223552
2078	4360	3700		30	373543563356
2078	4400	3700		70	373643923183
2078	4440	3700		15	373644293021
2078	4480	3700		10	373544652858
2078	4520	3700		10	373645022696
2078	4560	3700		20	373545392546
2078	4600	3700		20	373545752368
2078	4640	3700		0	373546122225
2078	4680	3700		25	373546502091
2078	4720	3700		20	373546871938
2078	4760	3700		15	373547241808
2078	4800	3700		10	373547621675
2078	4840	3700		20	373547991509
2078	4880	3700		20	373448371409
2078	4920	3700		15	373248751295
2078	4960	3700		20	373349131152
2078	5000	3700		70	373349511056
2078	3800	3800		0	383238194435
2078	3840	3800		8	383238554276
2078	3880	3800		7	383238914098
2078	3920	3800		7	383239264234
2078	3960	3800		3	383139634367
2078	4000	3800		10	383240034406
2078	4040	3800		3	383240414296
2078	4120	3800		10	383241143986
2078	4160	3800		7	383241503815
2078	4200	3800		15	383241893725
2078	4240	3800		20	383242273612
2078	4280	3800		25	383242643462
2078	4320	3800		10	383243013303
2078	4360	3800		15	383243373134
2078	4400	3800		30	383243722943
2078	4440	3800		90	383244082752
2078	4480	3800		35	383244422543
2078	4520	3800		50	383144752328
2078	4560	3800		25	383145122166
2078	4600	3800		35	383145482003
2078	4640	3800		15	383145871890

[redacted]078	4680	3800	20	383146261807
2078	4720	3800	0	383146651730
[redacted]078	4760	3800	15	383147031597
[redacted]078	4800	3800	5	383147401447
2078	4840	3800	25	383147791354
2078	4880	3800	50	383148171240
[redacted]				
[redacted]078	3800	3880	10	391038194326
2078	3840	3880	0	391038584253
[redacted]078	3900	3880	25	391039164413
[redacted]078	3940	3880	25	390939564423
2078	3980	3880	10	390939954347
[redacted]078	4020	3880	4	391040334226
[redacted]078	4060	3880	8	390940694068
[redacted]078	4080	3880	20	390940883993
2078	4100	3880	10	390941063912
[redacted]078	4140	3880	15	390841413721
[redacted]078	4180	3880	10	390841763475
2078	4220	3880	25	390842113324
[redacted]078	4260	3880	5	390842503248
[redacted]078	4300	3880	65	390842903196
2078	4340	3880	15	390743283089
2078	4380	3880	60	390843673003
[redacted]078	4420	3880	45	390844062917
[redacted]078	4460	3880	40	390844432764
2078	4500	3880	40	390844792592
[redacted]078	4540	3880	85	390845142401
[redacted]078	4580	3880	75	390845492201
2078	4620	3880	10	390845842011
2078	4660	3880	30	390846201835
[redacted]078	4700	3880	20	390846571689
[redacted]078	4740	3880	55	390746941549
2078	4780	3880	35	390747341472
[redacted]078	4820	3880	20	390747731396
[redacted]				
2078	3800	3960	6	398738183667
[redacted]078	3840	3960	8	398238563789
[redacted]078	3880	3960	10	397738963889
2078	3920	3960	15	397939213809
2078	3960	3960	15	397939613700
[redacted]078	4000	3960	15	397940013614
[redacted]078	4040	3960	10	398040413524
2078	4080	3960	0	397940803380
[redacted]078	4120	3960	110	397941163190
[redacted]078	4160	3960	70	398041502968
2078	4200	3960	50	398241832725
[redacted]078	4240	3960	40	398242182510
[redacted]078	4280	3960	40	398442562335
2078	4320	3960	35	398442972272
2078	4360	3960	25	398343382251
[redacted]078	4400	3960	130	398543792244
[redacted]078	4440	3960	25	398544202206
2078	4480	3960	20	398744602103
[redacted]078	4520	3960	15	398745001999
[redacted]078	4560	3960	25	398745381836
2078	4600	3960	20	398745761680
2078	4640	3960	40	398746151527
[redacted]078	4680	3960	30	398846541390
[redacted]078	4720	3960	30	398846931257
2078	4760	3960	15	398847311107
[redacted]078	4800	3960	30	398847721056

2078	4840 3960	10	398948121129
2078	4880 3960	20	399048511262
2078	4920 3960	35	398948921318
2078	4960 3960	30	398949321417
2078	5000 3960	60	398949731507
2078	3800 4040	35	406538173937
2078	3820 4040	50	406538373954
2078	3840 4040	55	406638573972
2078	3860 4040	55	406538764023
2078	3880 4040	85	406538964023
2078	3900 4040	40	406539163989
2078	3920 4040	35	406539363961
2078	3940 4040	40	406539553909
2078	3960 4040	45	406339753916
2078	3980 4040	55	406339953916
2078	4000 4040	50	406340123807
2078	4020 4040	80	406140303729
2078	4040 4040	50	406140493667
2078	4060 4040	65	406240673583
2078	4080 4040	55	406240863508
2078	4100 4040	65	406141043423
2078	4120 4040	60	406241223329
2078	4140 4040	110	406241393235
2078	4160 4040	60	406241573139
2078	4180 4040	50	406241743039
2078	4200 4040	35	406341912933
2078	4220 4040	45	406342082827
2078	4240 4040	55	406242252718
2078	4260 4040	60	406342422609
2078	4280 4040	65	406542582500
2078	4300 4040	65	406442752400
2078	4320 4040	45	406342932312
2078	4340 4040	130	406343122250
2078	4360 4040	340	405743302182
2078	4380 4040	240	405943502171
2078	4400 4040	200	406143702154
2078	4420 4040	400	406143902133
2078	4440 4040	75	406244102126
2078	4460 4040	60	406144302116
2078	4480 4040	45	406144502102
2078	4500 4040	45	406344692081
2078	4520 4040	45	406244892053
2078	4540 4040	55	406145092015
2078	4560 4040	40	405945281966
2078	4580 4040	40	405745471891
2078	4600 4040	45	405645661830
2078	4620 4040	55	405645841761
2078	4640 4040	65	405746031683
2078	4660 4040	85	405946211611
2078	4680 4040	140	405846401550
2078	4700 4040	85	405746591481
2078	4720 4040	100	405746781419
2078	4740 4040	55	405546981440
2078	4760 4040	45	405647161515
2078	4780 4040	55	405747341600
2078	4800 4040	140	405847531684
2078	4820 4040	50	405847721729
2078	4840 4040	60	405947911798
2078	4860 4040	45	406048101859
2078	4880 4040	60	406048291901

2078	4900 4040	70	405948491953
2078	4920 4040	150	406148682015
2078	4940 4040	120	406448872056
2078	4960 4040	100	406449072053
2078	5020 4040	150	407249652164
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2078	5080 4040	130	408350222230
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2078	5120 4040	160	408250612303
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2078	5160 4040	240	408151012369
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2078	5200 4040	680	408151402431
2078	5220 4040	430	408351602442
2078	5240 4040	260	408351802473
2078	5260 4040	120	408352002487
2078	5280 4040	80	408352202504
2078	5300 4040	70	408252402504
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2078	4080 4120	40	414540873273
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2078	4240 4120	20	414642402854
2078	4280 4120	25	414642792743
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2078	4360 4120	25	414543542486
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2078	4240 4200	20	422342412818
2078	4280 4200	35	422242782652
2078	4320 4200	35	422243132471
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078038

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2078	3920 4280	40	429939373616
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2078	4200 4280	380	430042042815
2078	4240 4280	320	430142382606
2078	4280 4280	280	430142722389
2078	4320 4280	70	430243102372
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2078	4440 4280	15	430344302497
2078	4520 4280	20	430545092486
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2078	3880 4360	50	442539612895
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2078	4080 4360	180	442841522434
2078	4100 4360	150	442641722458
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2078	4340 4360	35	442044022447
2078	4360 4360	30	441944222447
2078	4380 4360	35	442044422443
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2078	4500 4360	20	441945582151
2078	4520 4360	25	441845762067
2078	4540 4360	25	441845931973
2078	4560 4360	30	441646121898
2078	4580 4360	40	441746311836

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2078	4620 4360	40	441546701912
2078	4640 4360	40	440946881967
2078	4660 4360	25	441047072026
2078	4680 4360	25	440947262094
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2078	4720 4360	40	440947642234
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2078	4860 4360	35	440748962672
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2078	5140 4360	35	440051503003
2078	5160 4360	50	440051703003
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2078	5200 4360	45	440052103003
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2078	5240 4360	25	440052503003
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2078	4280 4440	20	446142862808
2078	4320 4440	10	446243232961
2078	4360 4440	8	446243623058
2078	4400 4440	9	446244023075
2078	4440 4440	6	446444423054
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2078	4320 4520	10	454143353117
2078	4360 4520	0	454143733227
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2078	4440 4520	15	454144533258
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2078	4240 4600	25	462342513058
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2078	3960 4680	60	468939793404
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2078	4600 4680	50	467546003027
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2078	4660 4680	100	467546593058
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2078	4720 4680	120	467347193152
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2078	4840 4680	35	467248343456
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041

078042

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2078	5060 5320	25	532050605000
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2078	5120 5320	40	532051205000
2078	5140 5320	30	532051405000

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2078	5180 5320	60	532051805000
2078	5200 5320	30	532052005000
2078	5220 5320	30	532052205000
2078	5240 5320	20	532052405000
2078	5260 5320	30	532052605000
2078	5280 5320	55	532052805000
2078	5280 5320	55	532052805000
2078	5300 5320	30	532053005000

044

EL20/78 ROSIER CREEK

078045

GILLIGAN GRID ROCK CHIP SAMPLING DATA GEOCHEMISTRY

LICT NO	SAMPLE NUMBER	CO-ORDS EAST	CO-ORDS NORTH	ELEMENTS DETERMINED CU	PB	ZN	SN	W	AG	AS	MO	RB	SR	MG	LI
2078		4240	3880				35	0				600	45	300	75
2078		4610	3945	5	56	534	800				5.0				
2078		5240	4040				30	2				600	35	450	50
2078	A	5220	4140				55	15				650	10	385	50
2078	B	5220	4140	3	3	542	400				3.5				
2078GCM.16		4060	4200	15	14	40	50				2.5				
2078GCM.28		4060	4200	3	17	65	40				5.5				
2078GCM.39		4060	4200	5	10	10	35				2.0				
2078GCM.96		4060	4200	26	80	822	400				5.0				
2078GCM.02		4060	4200	5	22	17	40				2.5				
2078		3885	4220	4	145	36	840				3.5				
2078		4060	4240	170	17	160	100				11.0				
2078		3900	4245	14	63	54	100				3.0				
2078		3900	4280				20	0				550	30	600	100
2078		3980	4350	3	140	245	930				5.0				
2078		3880	4360	10	15	56	120				4.0				
2078		4300	4360				25	0				680	10	425	100
2078		3920	4440				30	0				640	45	610	100
2078	5M	4060	4440	10	23	59	210				4.0				
2078	11M	4060	4440	4	7	40	240				4.0				
2078		4080	4665	17	64	25	25				4.0				
2078		4120	4665	1	90	41	20				17.0				
2078		4860	4680				40	10				560	45	650	100
2078		4810	4930				85	0				740	20	325	375
2078		4760	5000				35	0				850	10	225	150
2078		4860	5000	3	5	38	170				2.0				
2078		4040	5300				20	0				670	35	135	75
2078		4520	5320				50	0				900	15	410	175
2078		4640	5320				40	0				680	40	500	250

045

078046

EL20/78 ROSIER CREEK

GILLIGAN GRID ROCK CHIP CHANNEL SAMPLING DATA GEOCHEMISTRY

LICT NO	SAMPLE NUMBER	CO-ORDS EAST	CO-ORDS NORTH	ELEMENTS DETERMINED CU	PB	ZN	SN	W	AG	AS	MO	RB	SR	MG	LI
2078A	.5	4060	4200			120									
2078A	1.0	4060	4200			20									
2078A	1.5	4060	4200			30									
2078A	2.0	4060	4200			20									
2078A	2.5	4060	4200			35									
2078A	3.0	4060	4200			150									
2078A	3.5	4060	4200			35									
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2078A	7.0	4060	4200			1050									
2078A	7.5	4060	4200			1200									
2078A	8.0	4060	4200			55									
2078A	8.5	4060	4200			25									
2078A	9.0	4060	4200			25									
2078A	9.5	4060	4200			35									
2078A	10.0	4060	4200			40									
2078A	10.5	4060	4200			20									
2078A	11.0	4060	4200			15									
2078B	.5	4060	4200			60									
2078B	1.0	4060	4200			9100									
2078B	1.5	4060	4200			120									
2078B	2.0	4060	4200			65									
2078B	2.5	4060	4200			50									
2078B	3.0	4060	4200			380									
2078B	3.5	4060	4200			360									
2078B	4.0	4060	4200			350									
2078B	4.5	4060	4200			320									
2078B	5.0	4060	4200			30									
2078B	5.5	4060	4200			45									
2078B	6.0	4060	4200			70									

EL20/78 ROSIER CREEK

GILLIGAN GRID RADIOMETRIC READINGS (CPS)

EL No.	PEG	EPEG	N CPS	NORTHEAST RL
2078	3800	3700	150	373638184191
2078	3820	3700	165	373638364113
2078	3840	3700	170	373638554035
2078	3860	3700	150	373638743976
2078	3880	3700	165	373638943973
2078	3900	3700	150	373739134011
2078	3920	3700	180	373739334032
2078	3940	3700	175	373739534073
2078	3960	3700	160	373739724115
2078	3980	3700	170	373839914187
2078	4000	3700	160	373840104248
2078	4020	3700	140	373840304269
2078	4040	3700	120	373740504235
2078	4060	3700	170	373740694196
2078	4080	3700	140	373740894155
2078	4100	3700	125	373741084120
2078	4120	3700	115	373641284117
2078	4140	3700	165	373541484172
2078	4160	3700	150	373641674203
2078	4180	3700	170	373741874155
2078	4200	3700	170	373742064120
2078	4220	3700	130	373542264089
2078	4240	3700	195	373742544052
2078	4240	3720	205	375742544052
2078	4260	3720	190	375742744052
2078	4276	3720	190	375742904052
2078	4320	3720	160	373543223552
2078	4320	3700	160	373543223552
2078	4340	3700	150	373543383443
2078	4360	3700	130	373543563356
2078	4380	3700	170	373543743265
2078	4400	3700	190	373643923183
2078	4420	3700	125	373544113099
2078	4440	3700	120	373644293021
2078	4460	3700	110	373644482949
2078	4480	3700	110	373544652858
2078	4500	3700	110	373644832761
2078	4520	3700	120	373645022696
2078	4540	3700	105	373645202621
2078	4560	3700	140	373545392546
2078	4580	3700	155	373545572462
2078	4600	3700	115	373545752368
2078	4620	3700	100	373645932290
2078	4640	3700	75	373546122225
2078	4660	3700	95	373546312163
2078	4680	3700	95	373546502091
2078	4700	3700	95	373546692023
2078	4720	3700	85	373546871938
2078	4740	3700	105	373547051870
2078	4760	3700	85	373547241808
2078	4780	3700	100	373547431740
2078	4800	3700	115	373547621675
2078	4820	3700	100	373547811596
2078	4840	3700	95	373547991509
2078	4860	3700	100	373448181459

2078	4880	3700	100	373448371409
2078	4900	3700	100	373348571361
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2078	4940	3700	105	373348941220
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2078	4980	3700	105	373449321087
2078	5000	3700	150	373349511056
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2078	3860	3800	150	383238734188
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2078	3900	3800	170	383439114232
2078	3920	3800	160	383239264234
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2078	3960	3800	160	383139634367
2078	3980	3800	160	383239834402
2078	4000	3800	160	383240034406
2078	4020	3800	110	383240234364
2078	4040	3800	120	383240414296
2078	4060	3800	160	383240614264
2078	4080	3800	145	383240804183
2078	4100	3800	160	383240974089
2078	4120	3800	145	383241143986
2078	4140	3800	140	383241313883
2078	4160	3800	130	383241503815
2078	4180	3800	180	383241703783
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2078	4660	3800	110	383146061834
2078	4680	3800	115	383146261807
2078	4700	3800	100	383146461772
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2078	4860	3800	120	383147981292
2078	4880	3800	160	383148171240
2078	4900	3800	150	383148371230
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2078	3820	3880	145	391038394288
2078	3840	3880	130	391038584253
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2078	3920	3880	115	391039364433
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2078	4180	3880	150	390841763475
2078	4200	3880	150	390841913352
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2078	3860	4040	170	406538764023
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LIST OF PLANS — TRANSPARENCIES HELD

TAS-7-10	Rosier Creek Project EL 20/78 Location Map
TAS-7-1	Rosier Creek Project EL 20/78. Stream Sediment Geochemistry Sn ppm Two Sheets.
TAS-7-2	Rosier Creek Project EL 20/78. Stream Sediment Geochemistry Cu ppm Two Sheets.
TAS-7-3	Rosier Creek Project EL 20/78. Stream Sediment Geochemistry Pb ppm Two Sheets.
TAS-7-4	Rosier Creek Project EL 20/78. Stream Sediment Geochemistry Zn ppm Two Sheets.
TAS-7-14	Rosier Creek Project EL 20/78. Gilligan Creek Grid Soil Geochemistry Sn ppm Two Sheets.
TAS-7-6	Rosier Creek Project EL 20/78. Gilligan Grid Area. Profile Ridge Traverse Geochemistry. (IN TEXT)
TAS-7-15	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 3700N.
TAS-7-16	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 3800N
TAS-7-17	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 3880N
TAS-7-18	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 3960N
TAS-7-19	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4040N
TAS-7-20	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4120N
TAS-7-21	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4200N
TAS-7-22	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4280N
TAS-7-23	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4360N
TAS-7-24	Rosier Creek Project EL 20/78. Gilligna Creek Grid. Profiles line 4440N
TAS-7-25	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4520N
TAS-7-26	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4600N
TAS-7-27	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 4680N
TAS-7-28	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 5000N
TAS-7-12	Rosier Creek Project EL 20/78. Gilligan Creek Grid. Profiles line 5320N

Vol. 1

Vol. 2

(x2)	TAS-7-13	Rosier Creek Project EL 20/78 Rock Geochemistry.
	TAS-5-51	Gilligan/Rosier Creek area. Generalised Geology.
(x2)	TAS-7-11	Rosier Creek Project EL 20/78 Gilligan Creek Grid. Geology Fact. Two Sheets.
	TAS-7-8	Rosier Creek Project EL 20/78 Gilligan Creek Mine "To Go Tin Mining NL Mine".
	TAS-7-9	Rosier Creek Project EL 20/78 Gilligan Creek Grid. Percentage Contour diagram Joint Measurements.
	TAS-5-59	Rosier Creek Project EL 20/78 Photogeological Interpretation.

078061

147°45'

ROSSARDEN

Sawpit

Aberfoyle

Creek

Storeys Creek

Rosiers Creek

Gilligan Creek

RIVER

To St Marys

Castle Cary

BOUNDARY OF E.L. 20/78

Rivulet

SOUTH Esk

Main

Esk

AVOCA

41°45'

147°30'

148°

41°30'

ST. PAULS

42°

1:100,000 SHEET

5 cm

0 1 2 3 4

KILOMETRES

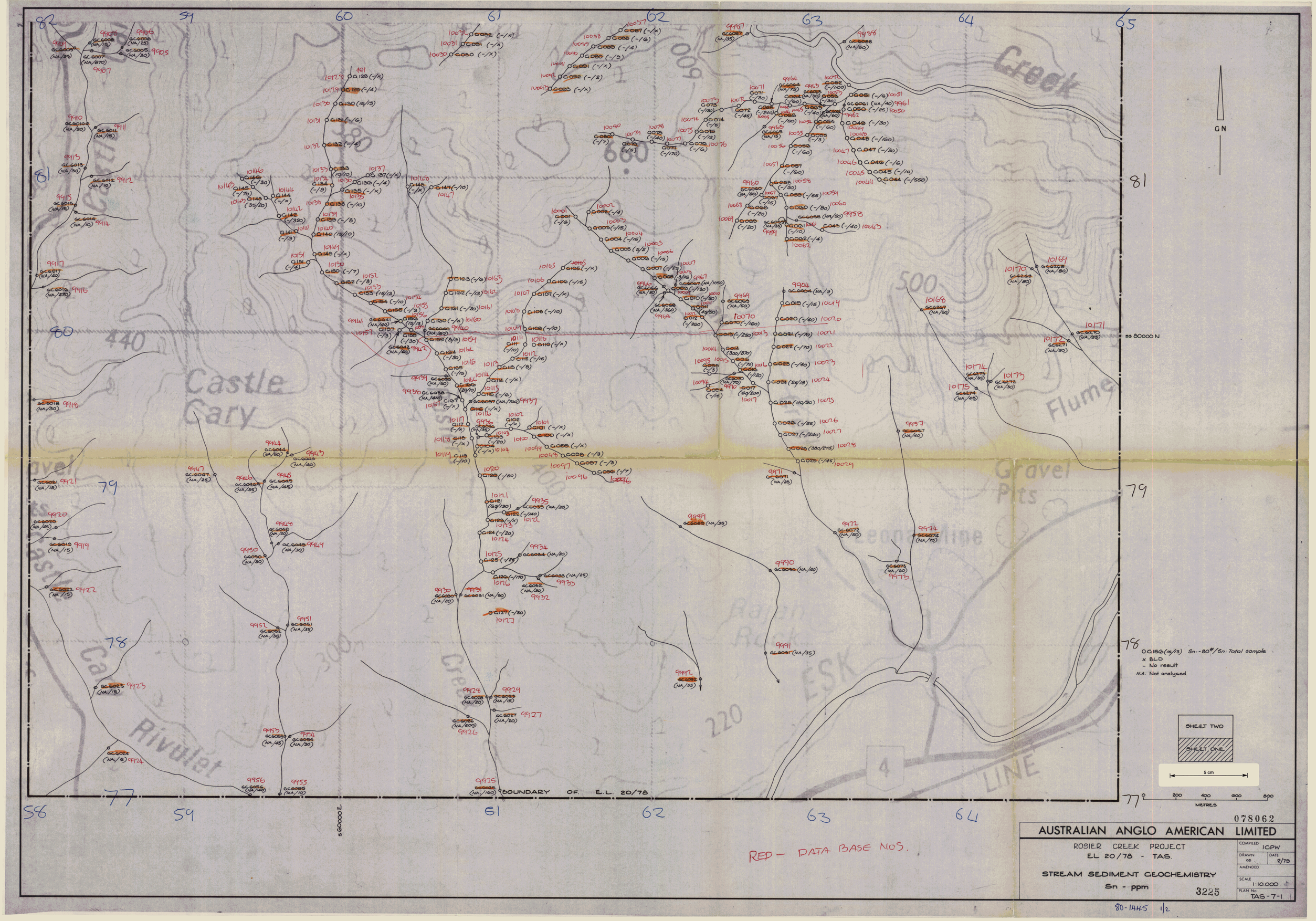
AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT

E.L.20/78 - TASMANIA

LOCATION MAP

COMPILED	DRAWN	SCALE	
	c.e. 1/79	1:50 000	TAS-7-10



078062

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
EL 20/78 - TAS.

STREAM SEDIMENT GEOCHEMISTRY
Sn - ppm

3225

COMPILED	IGPW
DRAWN	CB
DATE	2/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS-7-1

80-1445 1/2

GN

59 60 61 62 63 64 65

600

9993 GC6093 (NA/15)

9994 GC6094 (NA/50)

9995 GC6095 (NA/10)

9996 GC6096 (NA/25)

9997 GC6097 (NA/60)

9998 GC6098 (NA/200)

9999 GC6099 (NA/20)

10000 GC6100 (NA/20)

9991 GC6091 (NA/75)

9992 GC6092 (NA/60)

9993

9979 GC6079 (NA/80)

9984 GC6084 (NA/80)

9978 GC6078 (NA/340)

9976 GC6076 (NA/720)

9977 GC6077 (NA/380)

9975 GC6075 (NA/25)

9985 GC6085 (NA/590)

9986 GC6086 (NA/30)

9980 GC6080 (NA/100)

9981 GC6081 (NA/75)

9982 GC6082 (NA/60)

9983

9901 GC6001 (NA/45)

9902 GC6002 (NA/15)

9903 GC6003 (NA/15)

BOUNDARY OF E.L. 20/78

10041 GC041 (-/80)

10042 GC042 (-/x)

10040 GC040 (-/3)

10039 GC039 (-/x)

10038 GC038 (-/10)

10037 GC037 (-/8)

10036 GC036 (-/15)

10035 GC035 (-/5)

10034 GC034 (-/170)

10033 GC033 (-/x)

10001 GC001 (-/x)

10002 GC002 (-/23)

10003 GC003 (-/15)

10004 GC004 (-/8)

10005 GC005 (-/20)

10006 GC006 (-/70)

5 60000 E

5 84000 N

84

83

82

GC041 (-/80) Sn: -80# /Sn: Total sample

x BLD

- No result

N.A. Not analysed

SHEET TWO

SHEET ONE

5 cm

0 200 400 600 800

METRES

078063

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT

EL 20/78 - TAS

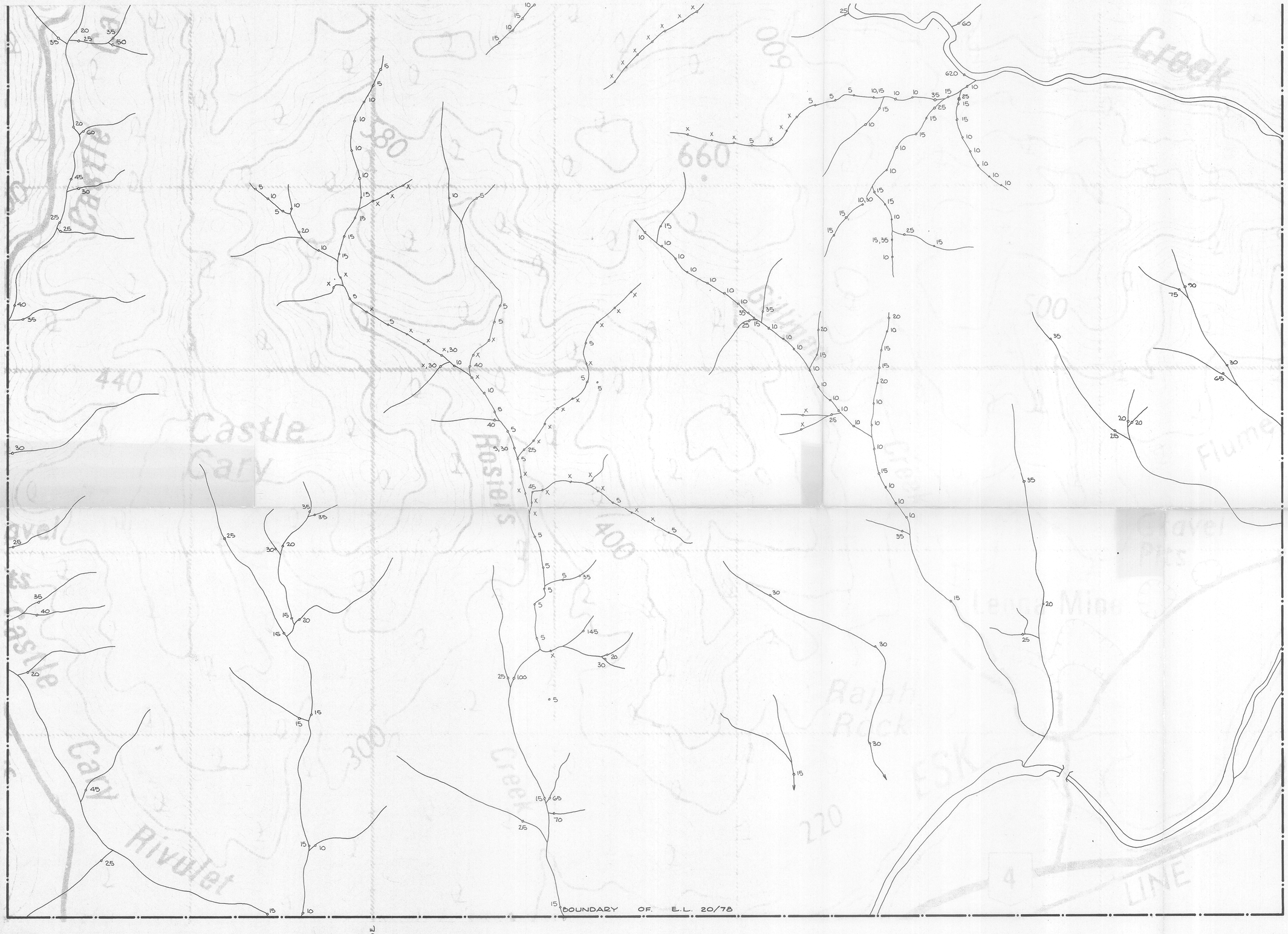
STREAM SEDIMENT GEOCHEMISTRY

Sn - ppm

3226

COMPILED	IOPW
DRAWN	CB
DATE	2/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS-7-1

80-1445 1/2



078064

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Cu ppm

3227

COMPILED	DBO
DRAWN	DATE 3/79
AMENDED	
SCALE	1:10'000
PLAN No.	TAS-7-2

80-1445 1/2

GN

BOUNDARY OF E.L. 20/78

5 584000 N

5 580000 E

SHEET TWO

SHEET ONE

5 cm

0 200 400 600 800

METRES

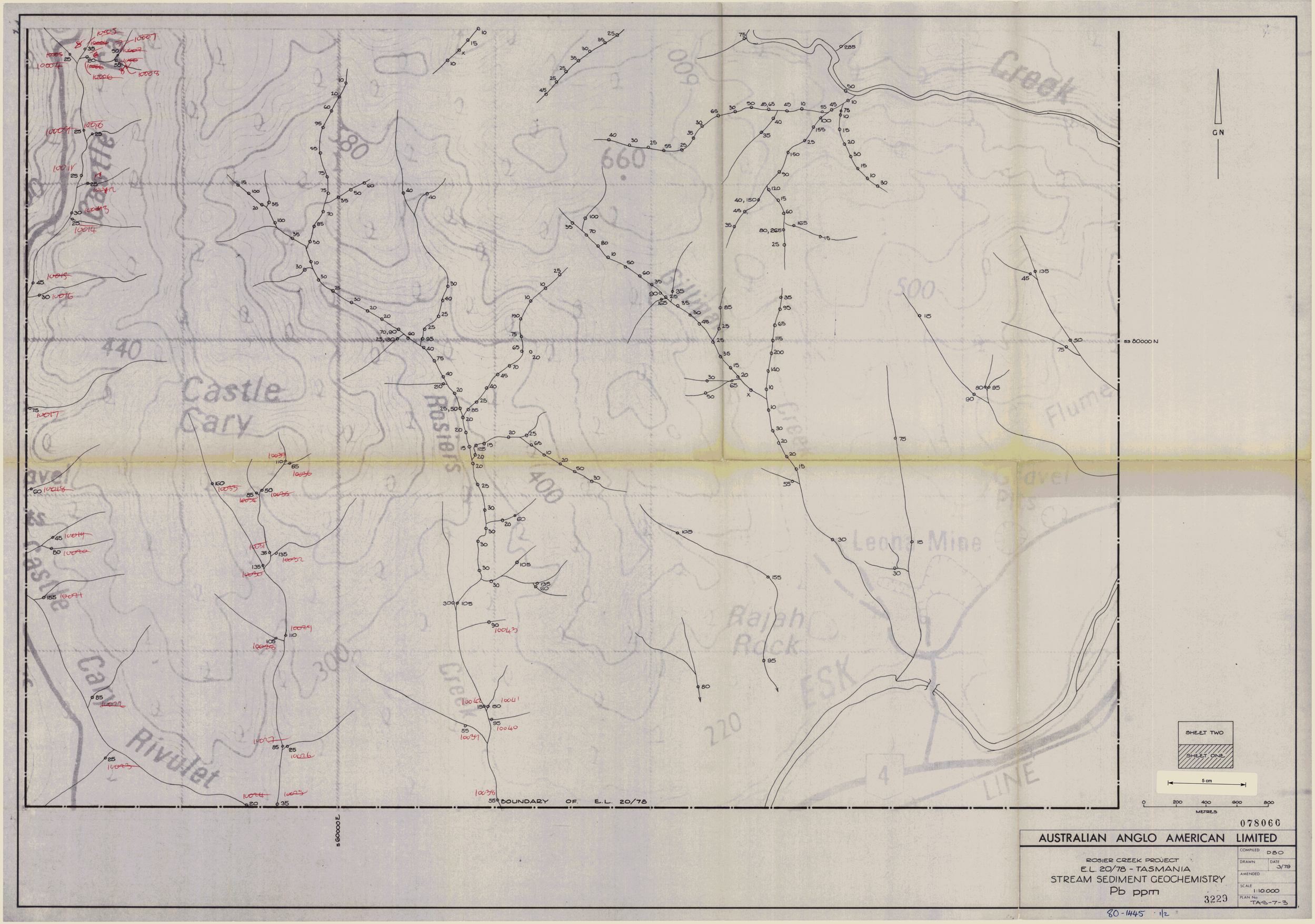
078065

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Cu ppm
3223

COMPILED	DBO
DRAWN	DATE 3/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS-7-2

80-1445 1/2



078066

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Pb ppm

3229

COMPILED	DBO
DRAWN	DATE 3/79
AMENDED	
SCALE	1:10.000
PLAN No	TAS-7-3

80-1445 1/2

GN

BOUNDARY OF E.L. 20/78

55 84000 N

S 60000 E

SHEET TWO

SHEET ONE

5 cm

0 200 400 600 800

METRES

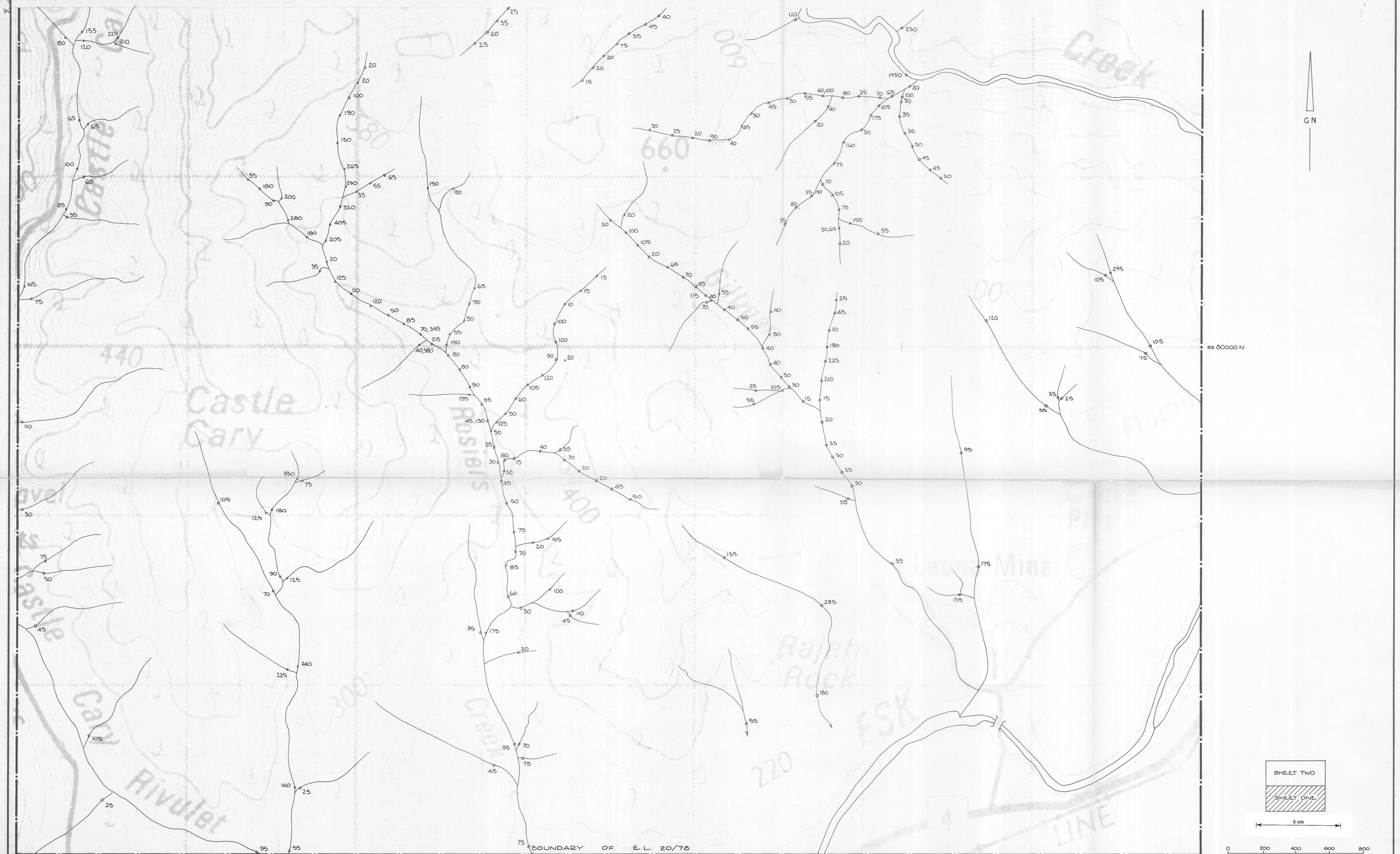
078067

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Pb ppm
3230

COMPILED	
DRAWN	DATE
AMENDED	
SCALE	1 : 10.000
PLAN No	TAS-7-3

80-1445 1/2



078068

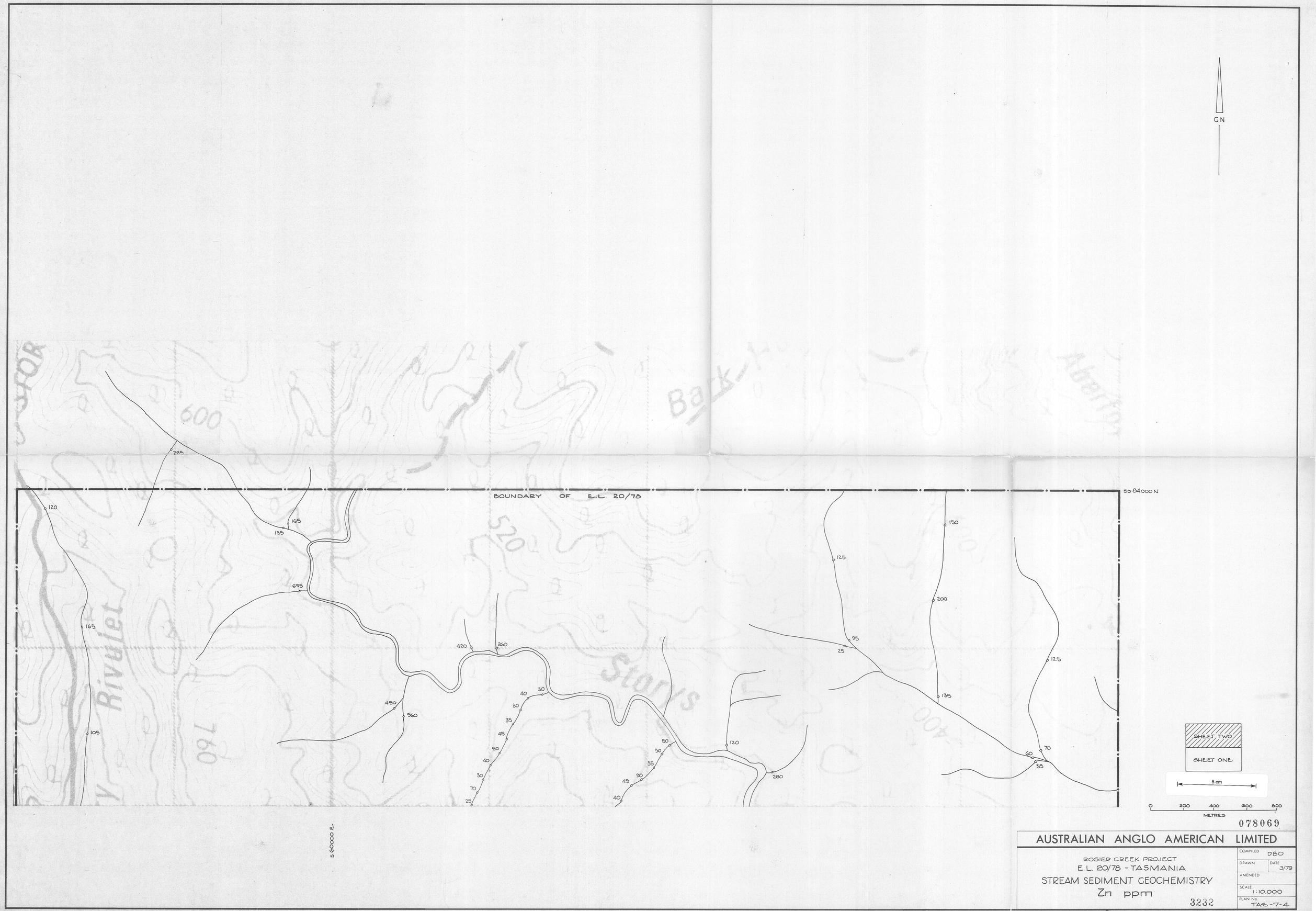
AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Zn ppm

3231

COMPILED	DBO
DRAWN	DATE 3/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS-7-4

80-1445 1/2


GN
BOUNDARY OF E.L. 20/78
5584000 N
5 60000 E
Rivulet
Storys
600
520
760
400
SHEET TWO
SHEET ONE
5 cm
0 200 400 600 800
METRES
078069
AUSTRALIAN ANGLO AMERICAN LIMITED
ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
STREAM SEDIMENT GEOCHEMISTRY
Zn ppm
3232
COMPILED DBO
DRAWN
DATE 3/79
AMENDED
SCALE 1:10.000
PLAN No. TAS-7-4

80-1445 1/2

3800 E.

4000 E.

4200 E.

4400 E.

4600 E.

4800 E.

5000 E.

5200 E.

5300 N

5000 N

4080 N

4000 N

4520 N

65 + ppm

45 + ppm

SHEET ONE

SHEET TWO

5 cm

0 50 100 150 200m

078070

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	ROSIER CREEK - E.L. 20/78		
AREA	GILLIGAN CREEK GRID		
DATA	SOIL GEOCHEMISTRY Sn ppm 3233		
COMPILED	D.S.T.	SCALE	1: 2000
DRAWN	9/79 cb	REF No	TAS-7-14
AMENDED			

80-1445 1/2

4440 N
4360 N
4280 N
4200 N
4120 N
4040 N
3960 N
3880 N
3800 N
3700 N

3600 E
4000 E
4200 E
4400 E
4600 E
4800 E
5000 E

65 + ppm
45 + ppm

SHEET ONE
SHEET TWO

5 cm

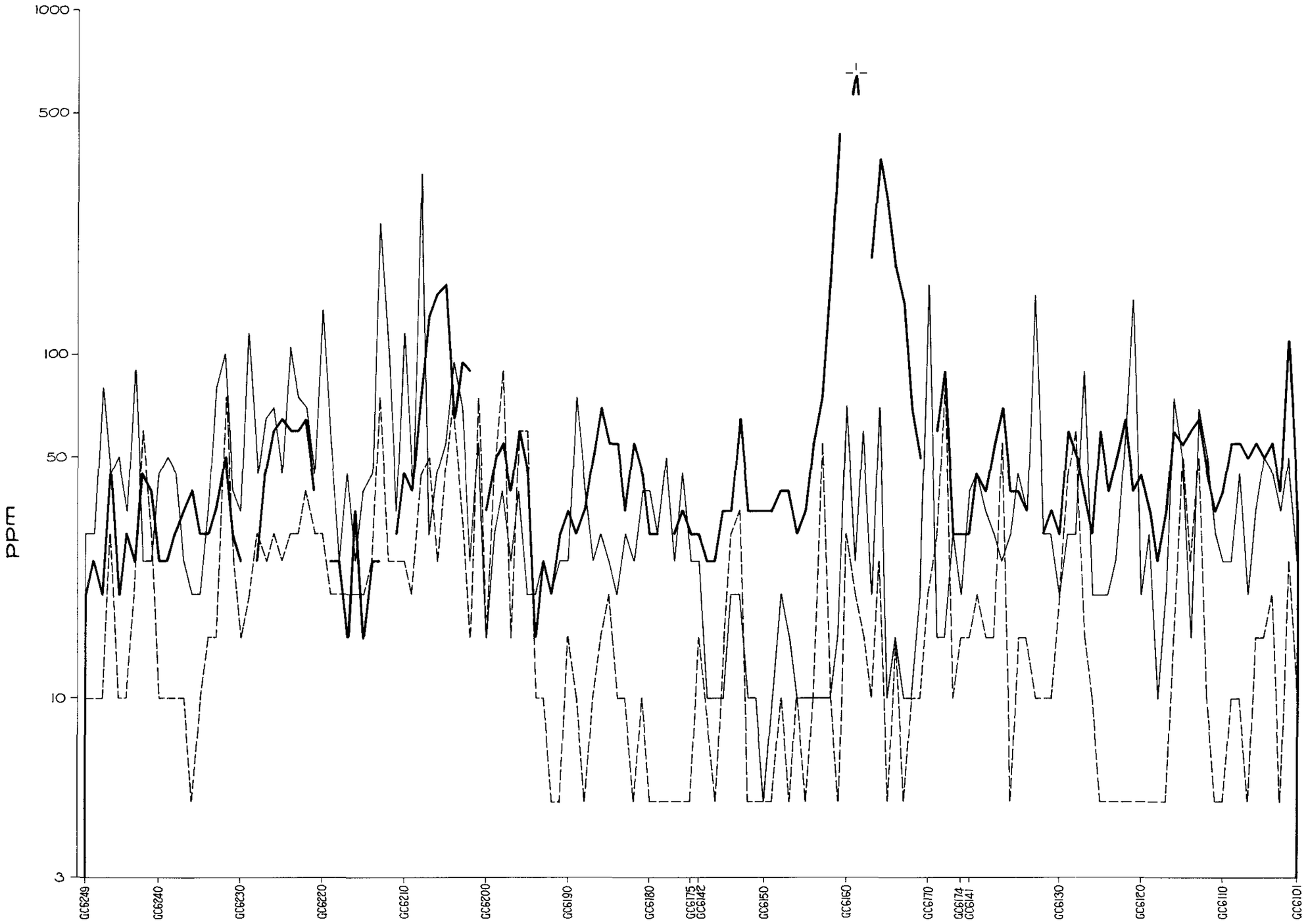
0 50 100 150 200m

078071

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	ROSIER CREEK - EL 20/78		
AREA	GILLIGAN CREEK GRID		
DATA	SOIL GEOCHEMISTRY Sn ppm 3234		
COMPILED	DST	SCALE	1 2000
DRAWN	ab 9/79	REF No	TAS-7-14
AMENDED			

80-1445 1/2

061



078072

0 0·2 0·4 0·6 0·8 1·0Km

HORIZONTAL SCALE

Cu ppm
Pb ppm
Sn ppm

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
EL 20/78 - TASMANIA
GILLIGAN GRID AREA
RIDGE TRAVERSE GEOCHEMISTRY

COMPILED	DRAWN	SCALE	
DBO	5/79 HMD	1:10000	TAS-7-6

30-1445 #2

3235

078073

A·A·A· LTD· ROSIER CRK· EL 20/78 LINE 3700 N SCALE 1 TO 2000

TAS-7-15

5 cm

SN PPM·

500
400
300
200
100
0

3600 4000 4200 4400 4600 4800 5000

3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200

C·P·S·

250
200
150
100
50

3600 4000 4100 4200 4400 4500 4600 4700 4800 4900 5000

800
700
600
500
400
300
200
100
0

TOPO·

3800E Sill? Gully 3900E Pegmatite dyke (Feldspar porphyry) 75mm wide. Qtz veg of quartz-tour 4000E 4000E 30cm wide NW Jt dir. 4100E Some microgranite nodules in No 3. 4200E 4200E Lens of No 2 Tour along Some Jt planes. 4300E Qtz-tour ven 30mm wide 4400E Some interstitial tour 4500E 4500E Some layers of microgranite between stations. 4600E Envelopes of Tour around Some phenocryst 4700E Scattered outcrop some interstitial Tour 4700E Scattered outcrop Phenocryst upto 7mm. A few nodules of microgranite. Some interstitial Tour. 4800E TRACK 4900E 4900E mainly Residual boulders of No 3 Some tour aggreg in places 5000E alluvial boulders.

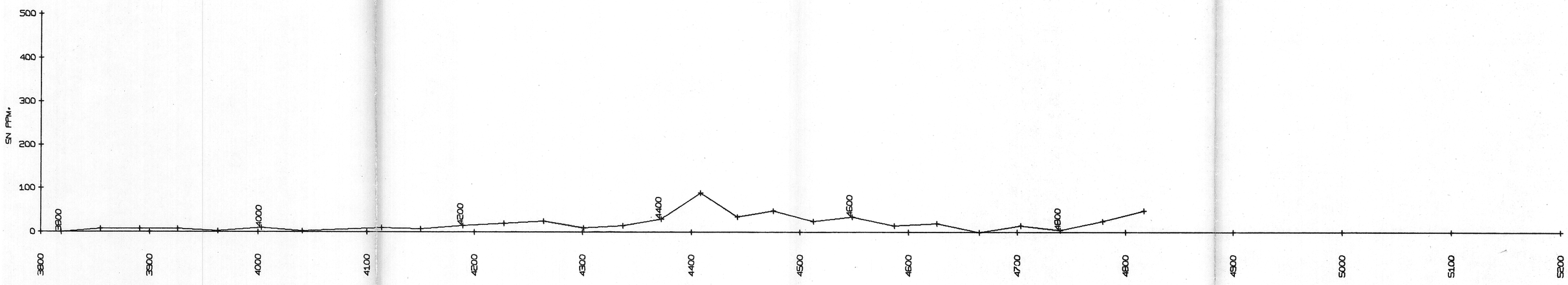
26-1445 pt 3236

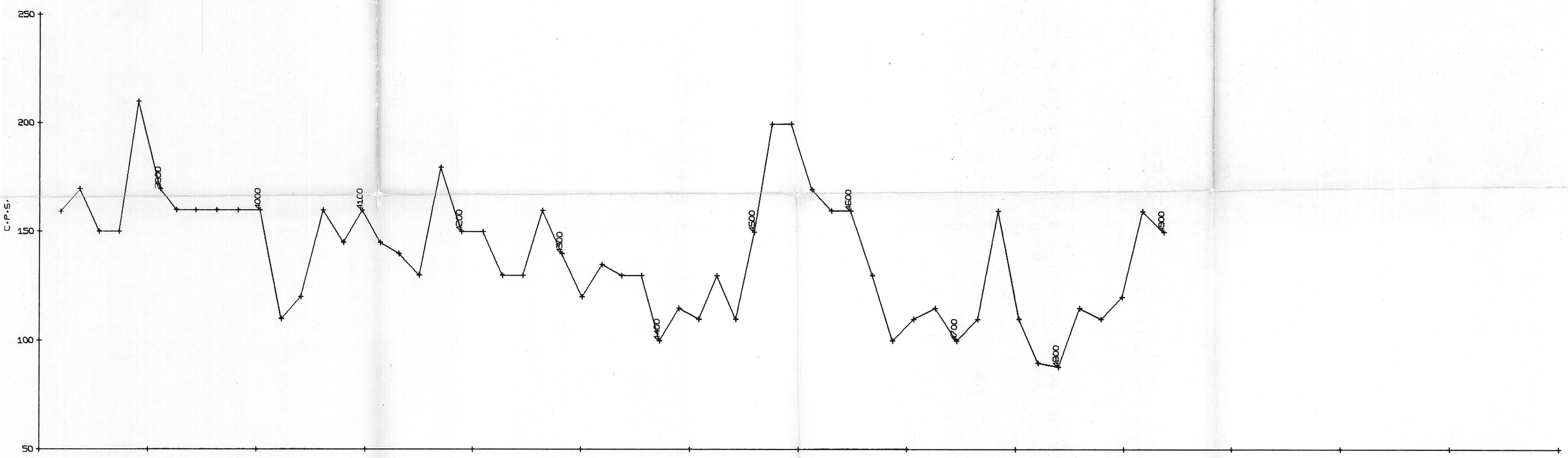
078074

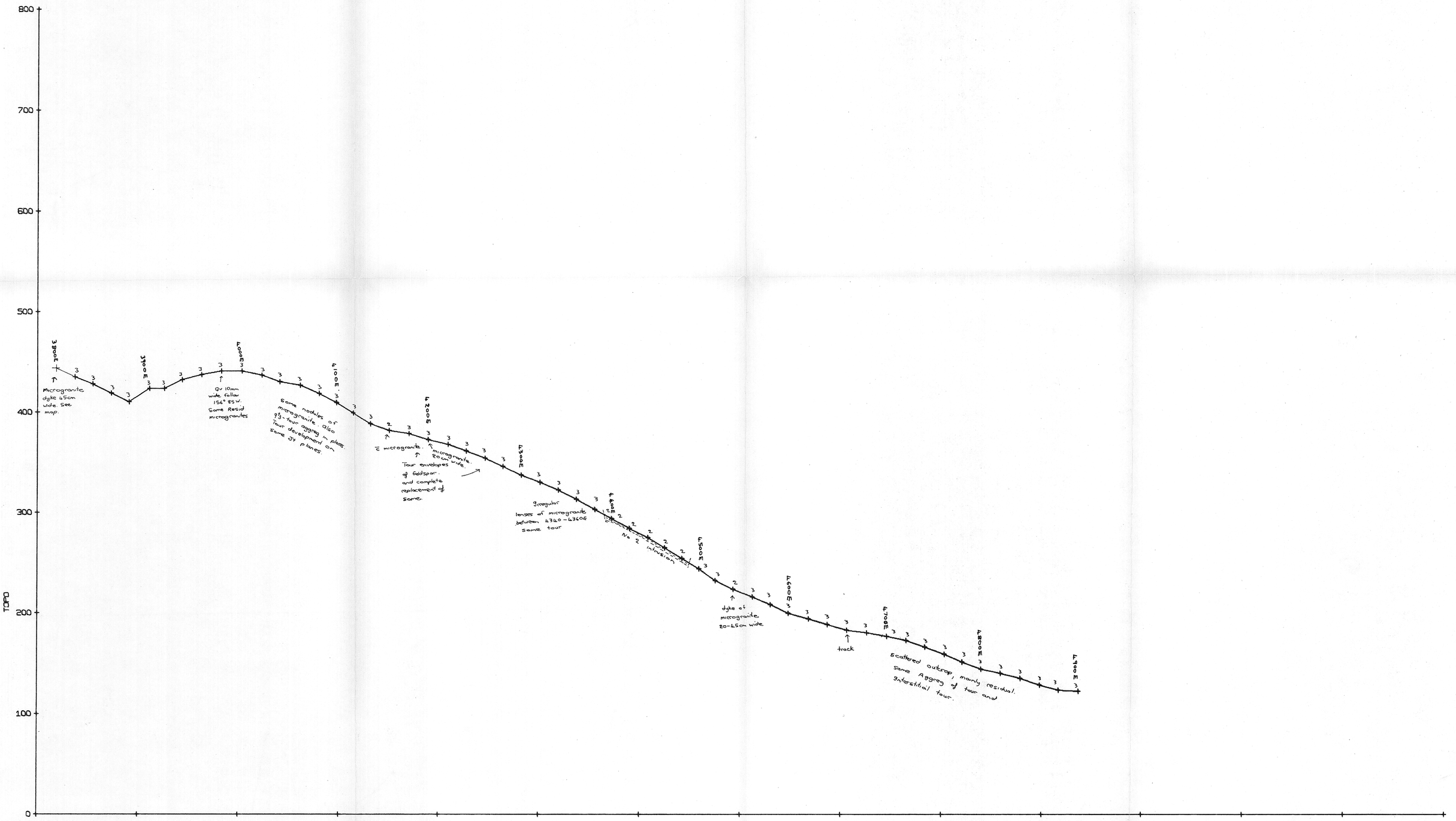
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 3800 N SCALE 1 TO 2000

TAS-7-16

5 cm







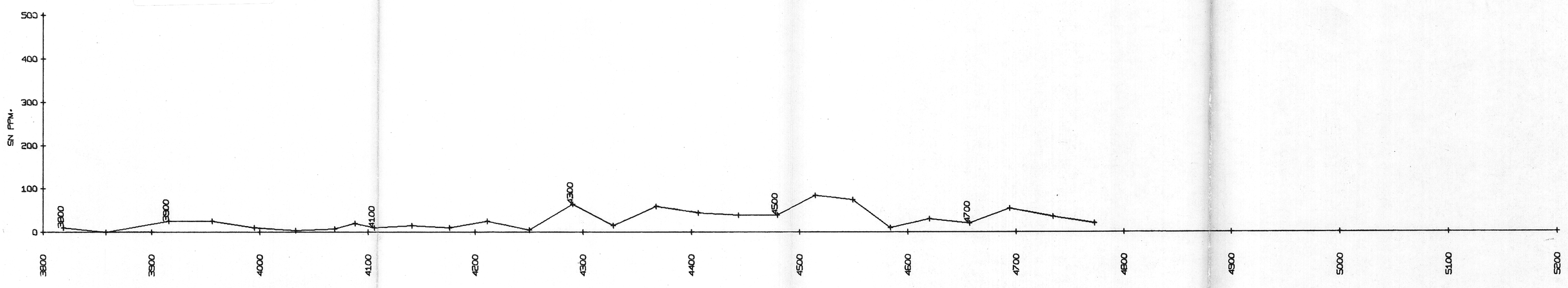
80-1445 1/2 3237

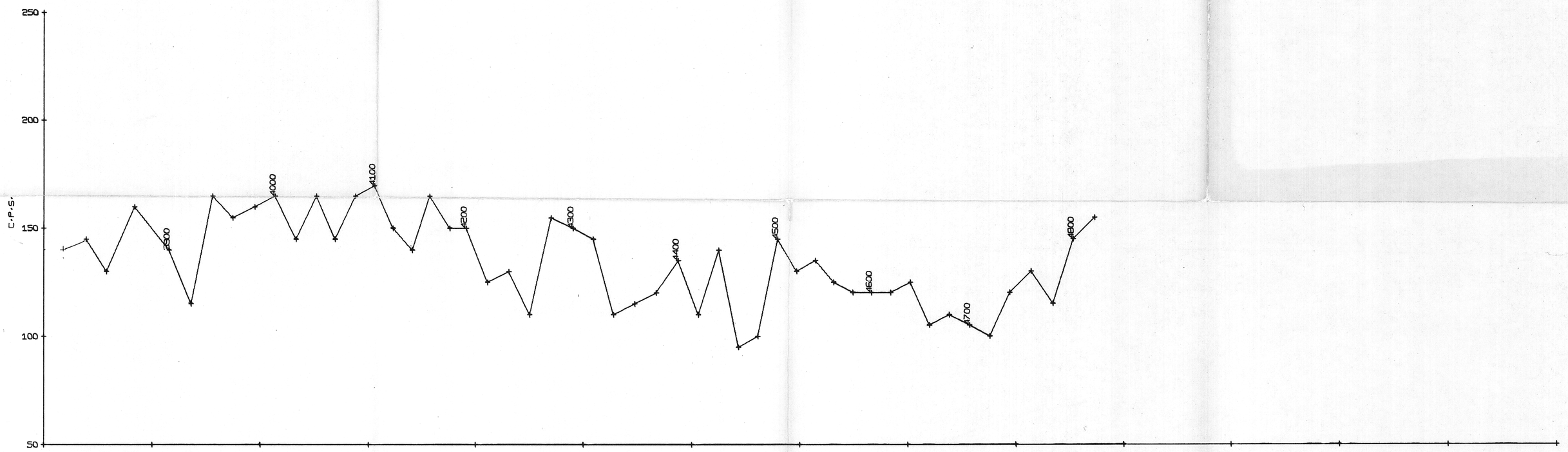
078075

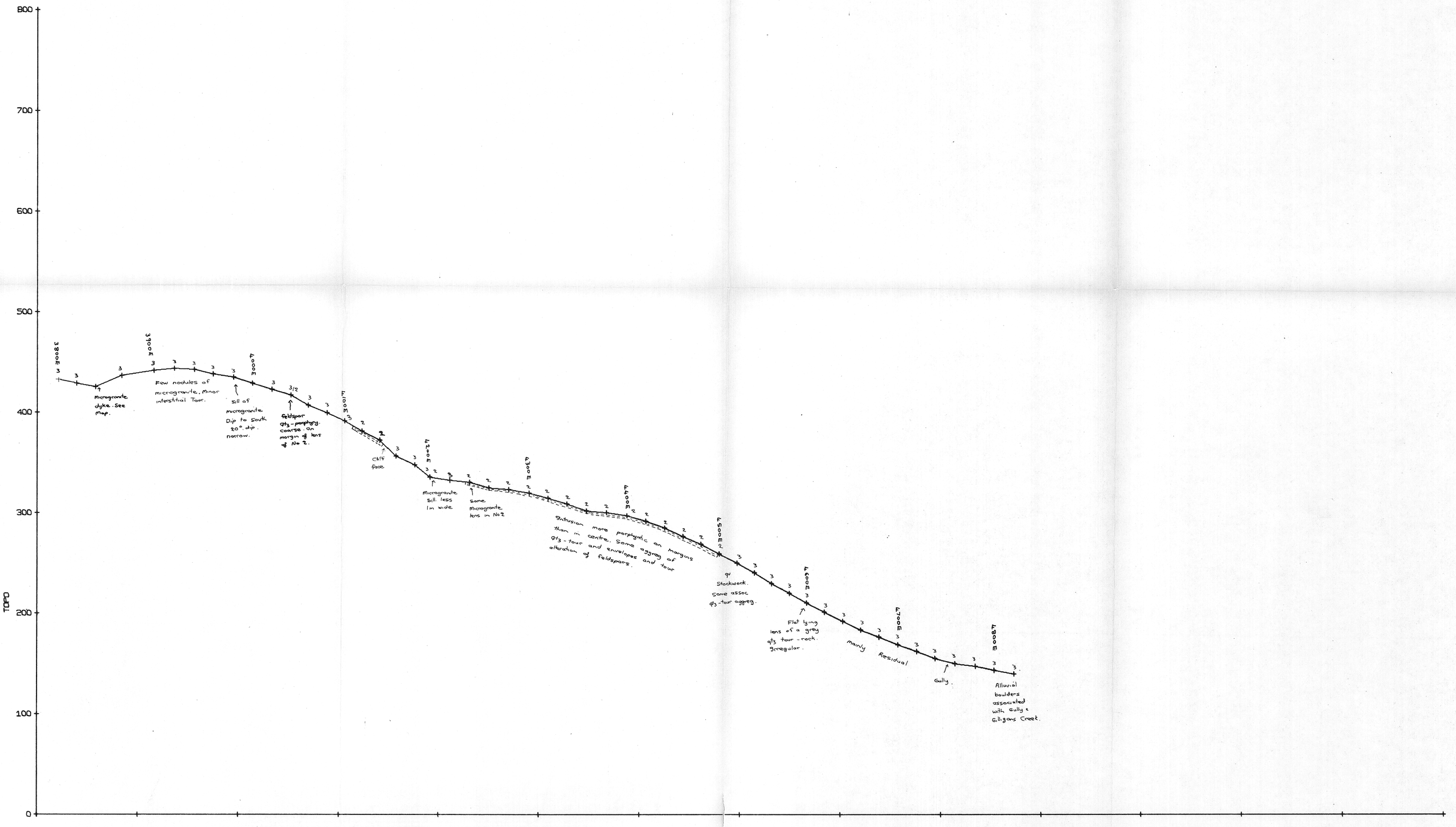
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 3880 N SCALE 1 TO 2000

TAS-7-17

5 cm







078076 80-1445.

aac

MICROFILMED

PROJECT NAME: AUSTRALIAN ANGLO AMERICAN LIMITED

TITLE: EXPLORATION LICENCE 20/78

FINAL REPORT TO THE DEPARTMENT OF MINES

TASMANIA ON ROSIER CREEK

NORTH EASTERN TASMANIA

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Launceston 1:250 000 Sheet K55/4

COMMODITY/IES: Tin

TEXT PAGES NO: 20

PLAN NOS: See page 19

TABLE NOS:

APPENDICES:

AUTHOR/S: D. S. Thynne

DATE: 19th November 1979

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

80-1445 2/2

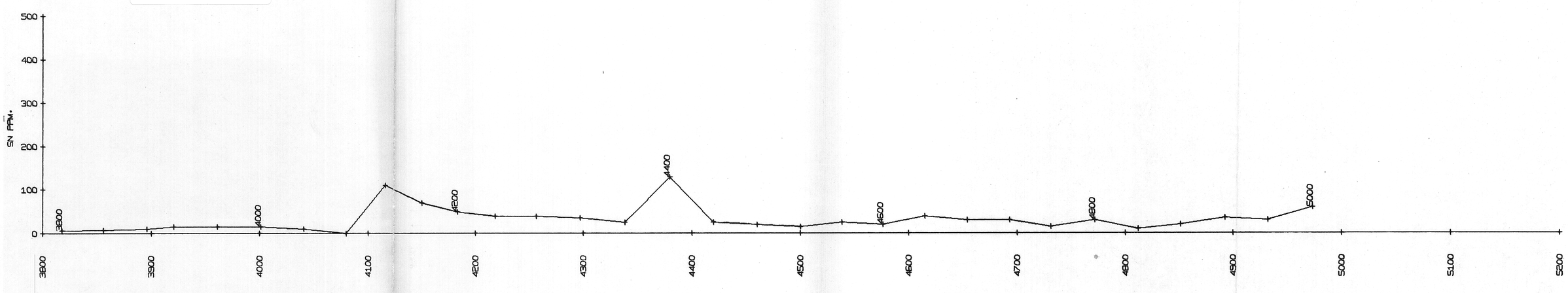
3238

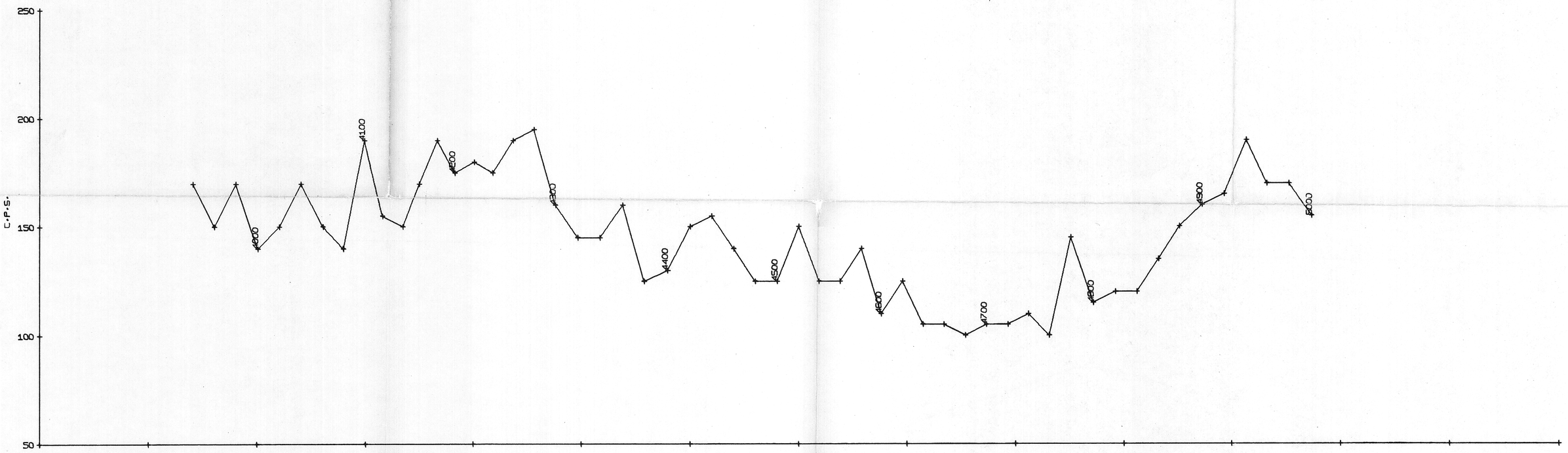
078077

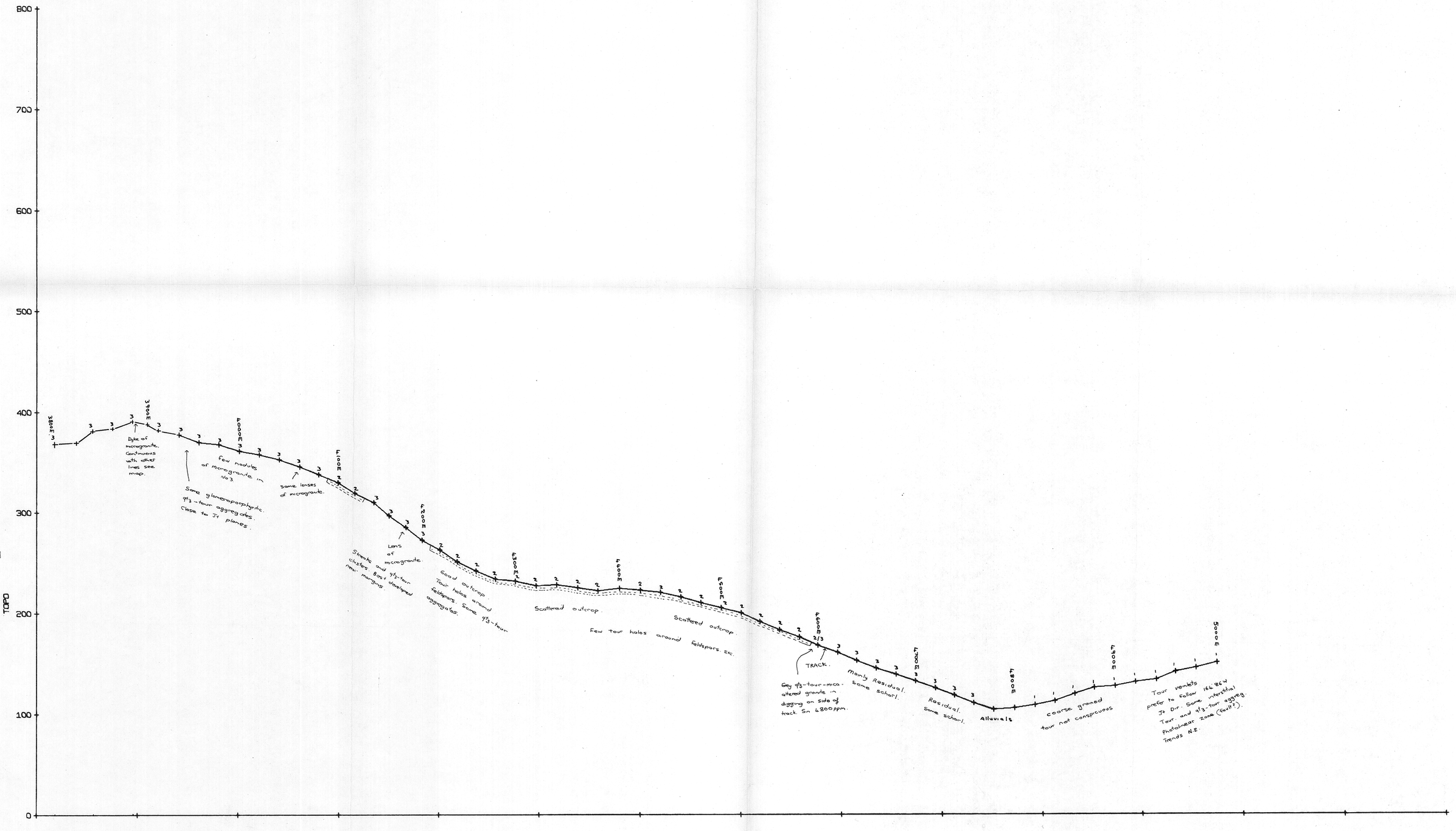
A·A·A· LTD· ROSIER CRK· EL 20/78 LINE 3960 N SCALE 1 TO 2000

TAS - 7- 18

5 cm







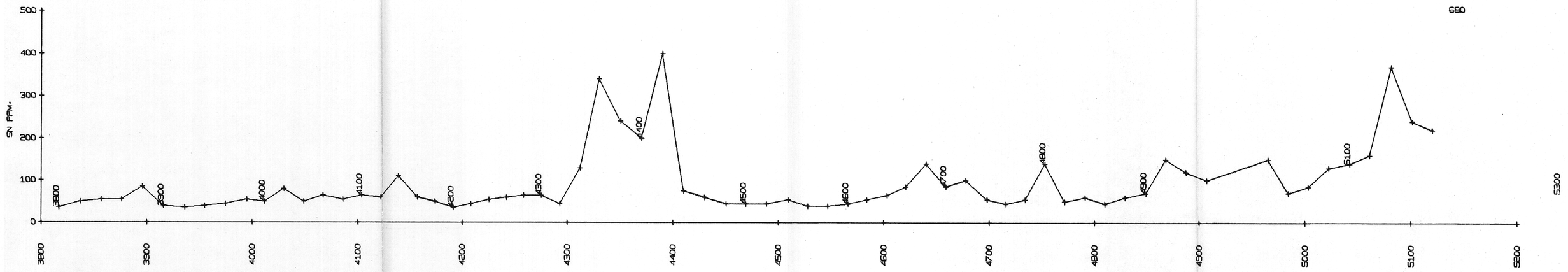
80-1445 2/2 3239

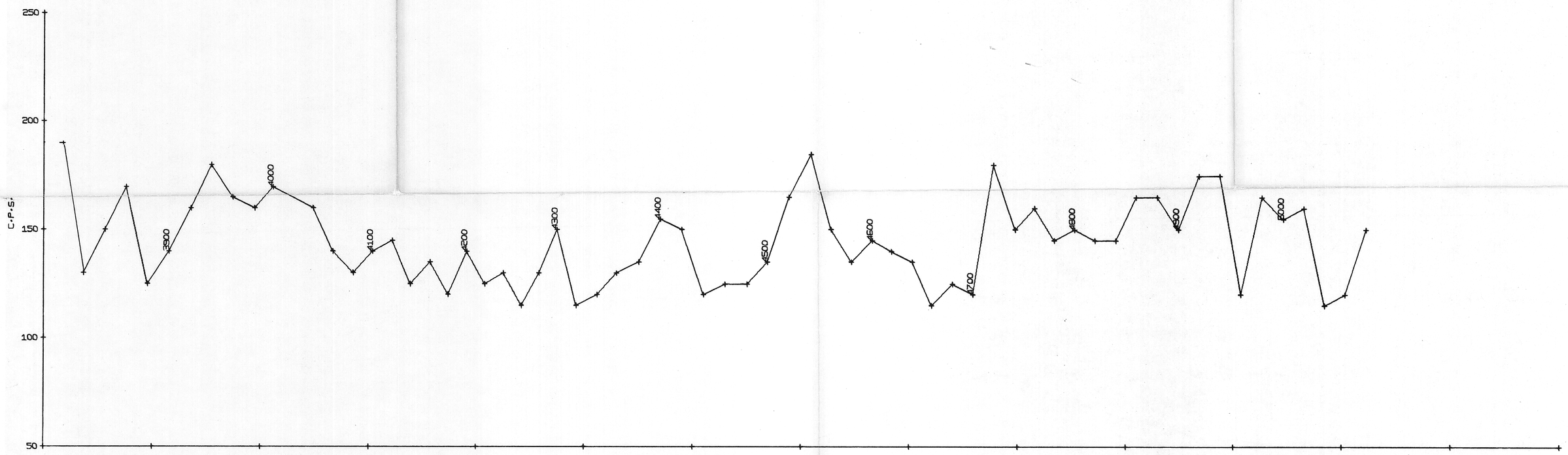
078078

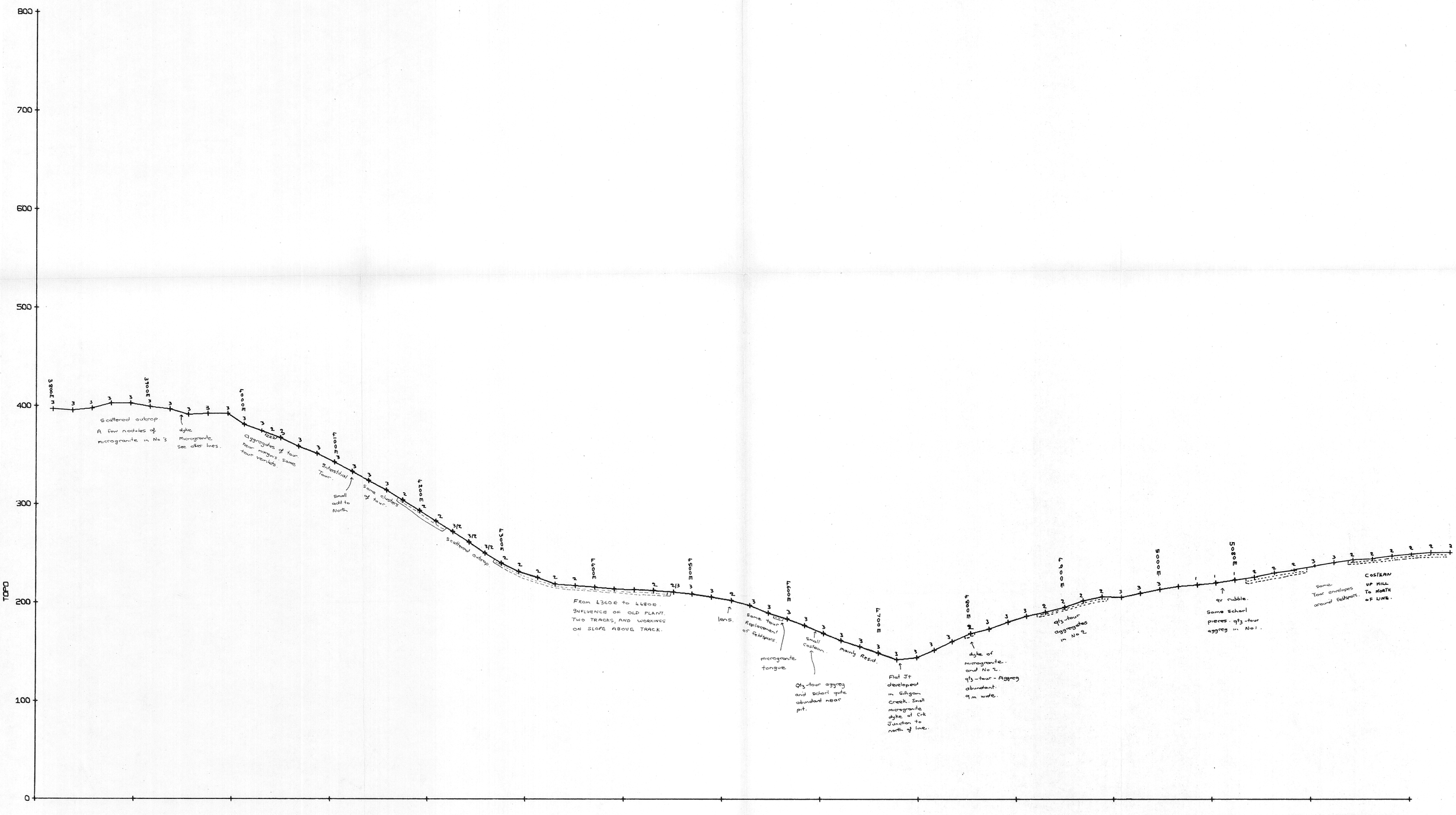
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4040 N SCALE 1 TO 2000

TAS-7-19

5 cm







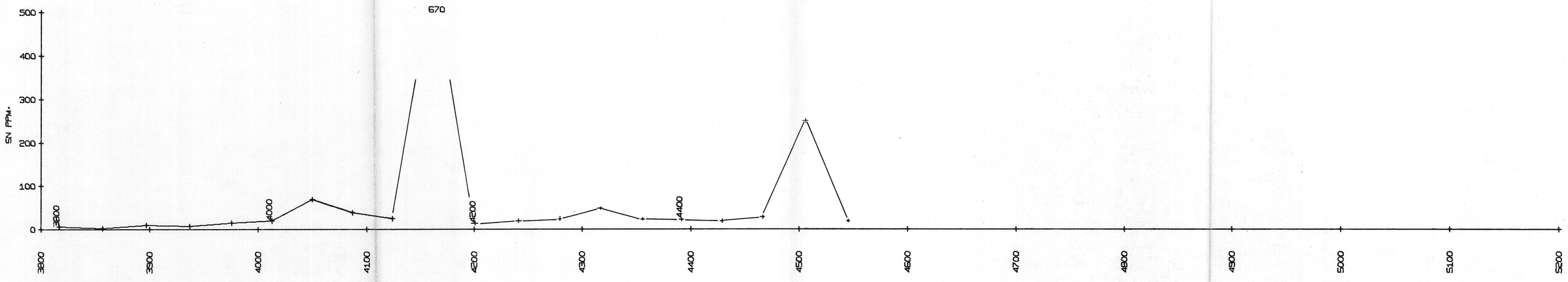
9D-1085 a/c

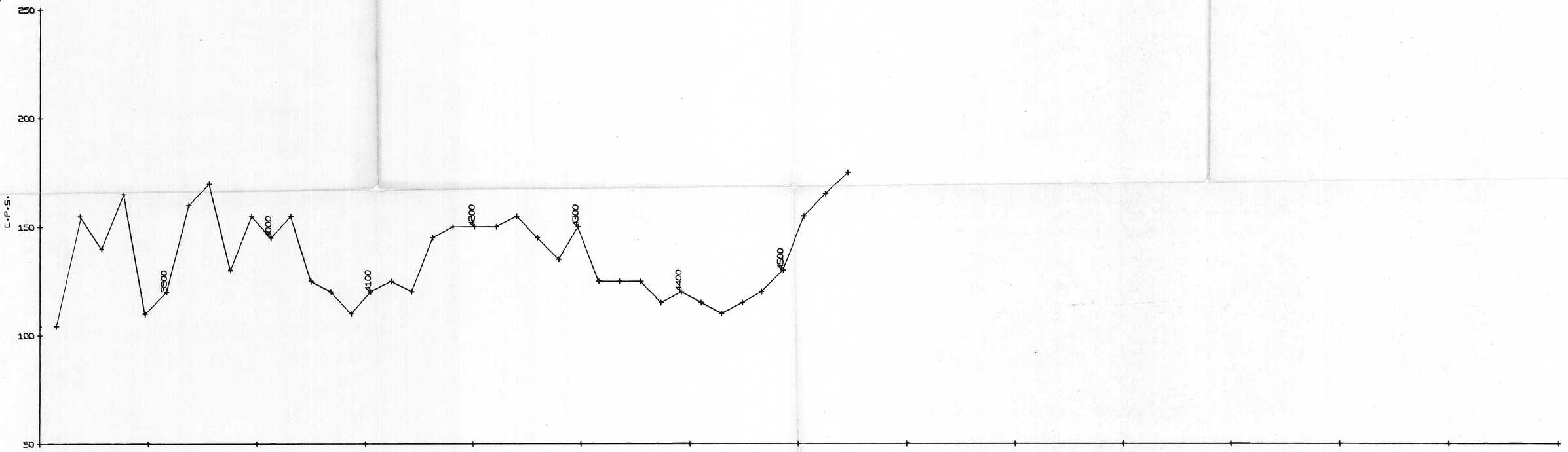
3240 078079

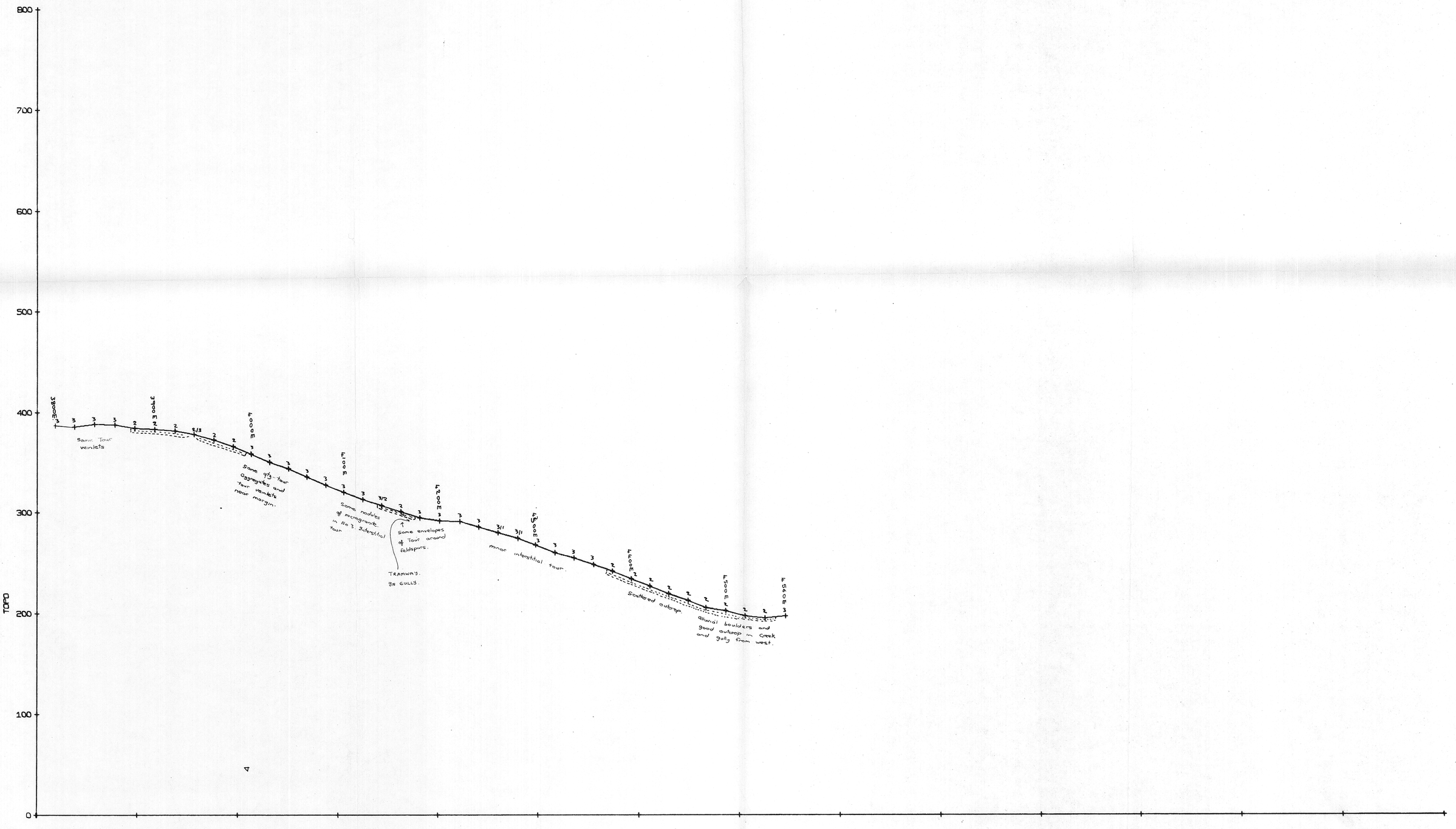
A·A·A· LTD· ROSIER CRK· EL 20/78 LINE 4120 N SCALE 1 TO 2000

TAS-7-20

5 cm





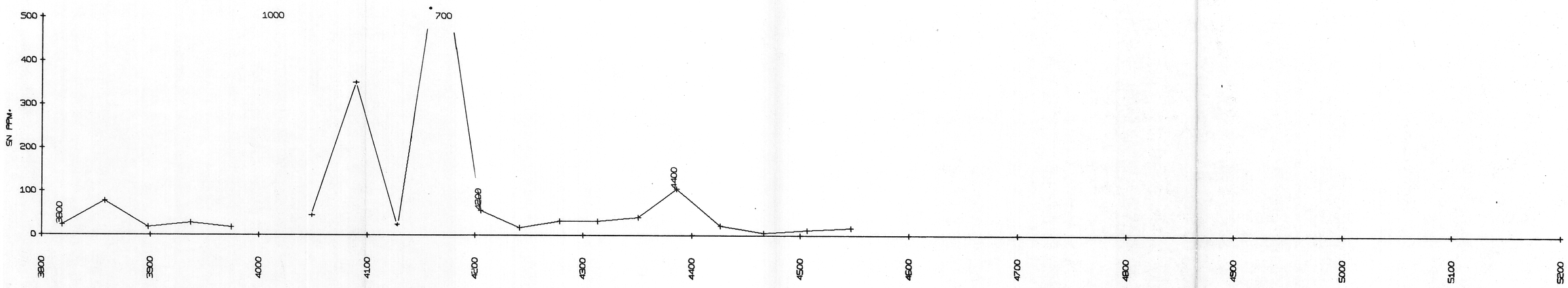


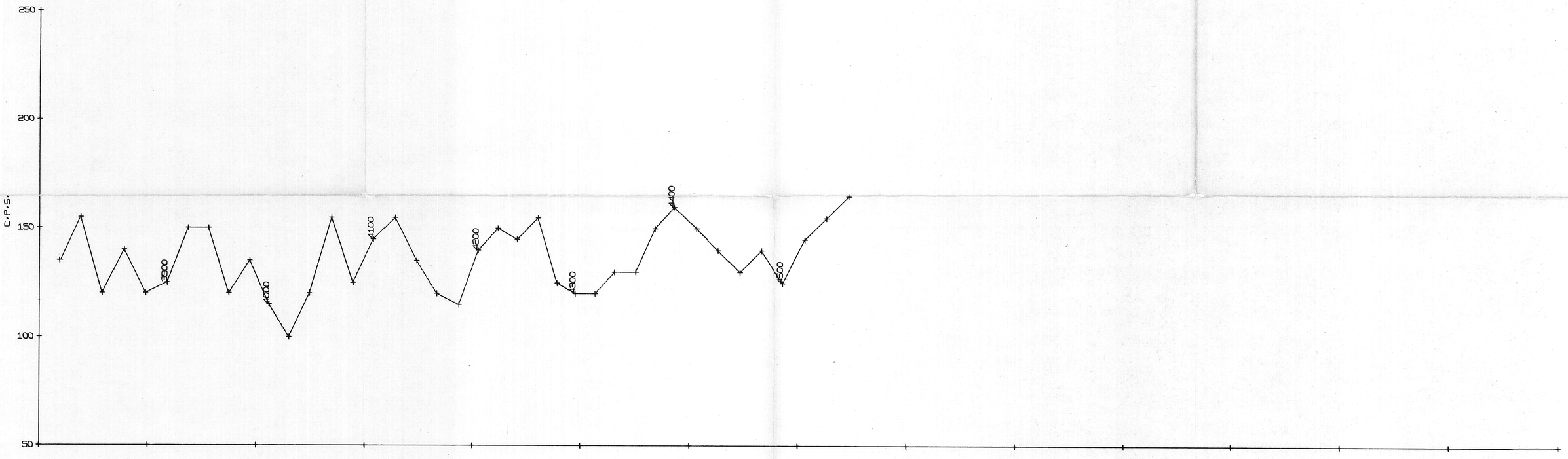
3241 80-1445 a/c

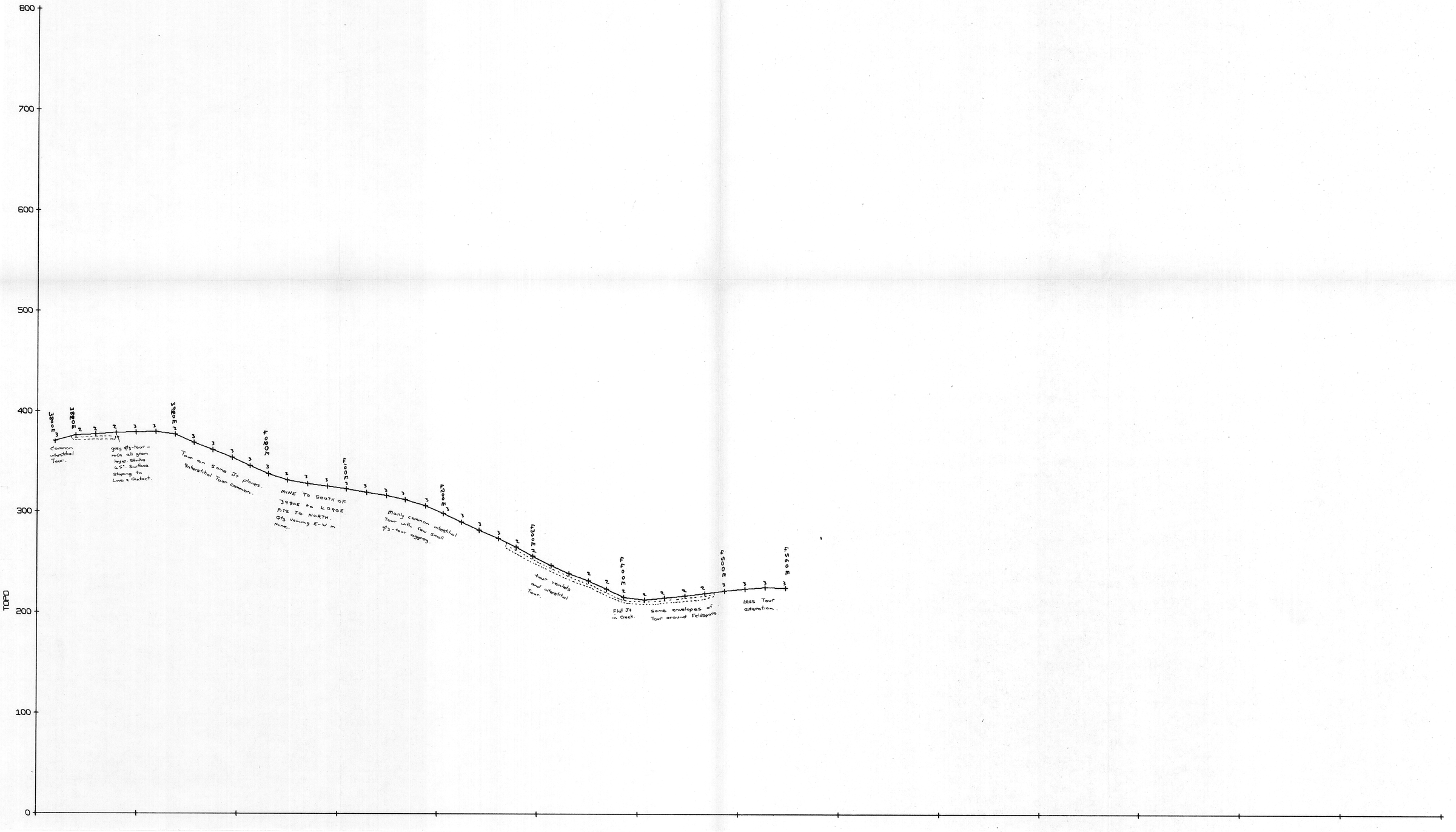
078080 A·A·A· LTD· ROSIER CRK· EL 20/78 LINE 4200 N SCALE 1 TO 2000

TAS-7-21

5 cm







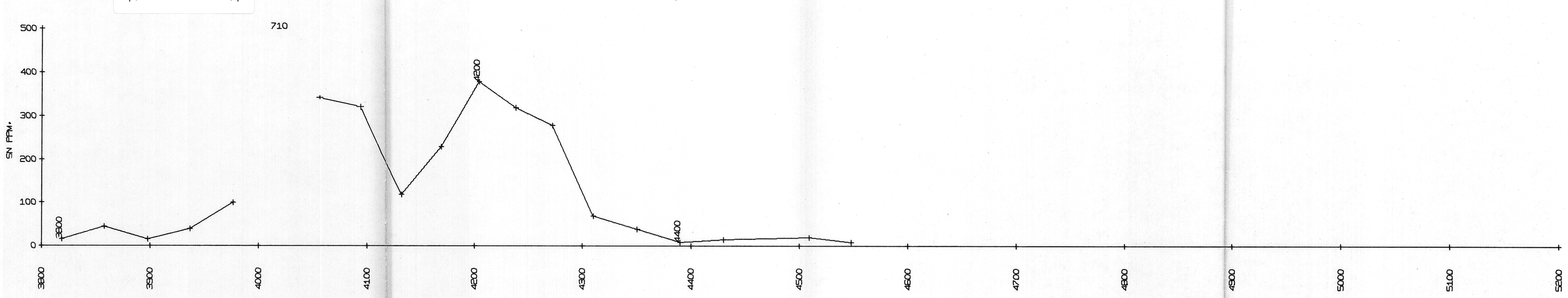
80-1445 2k 3242

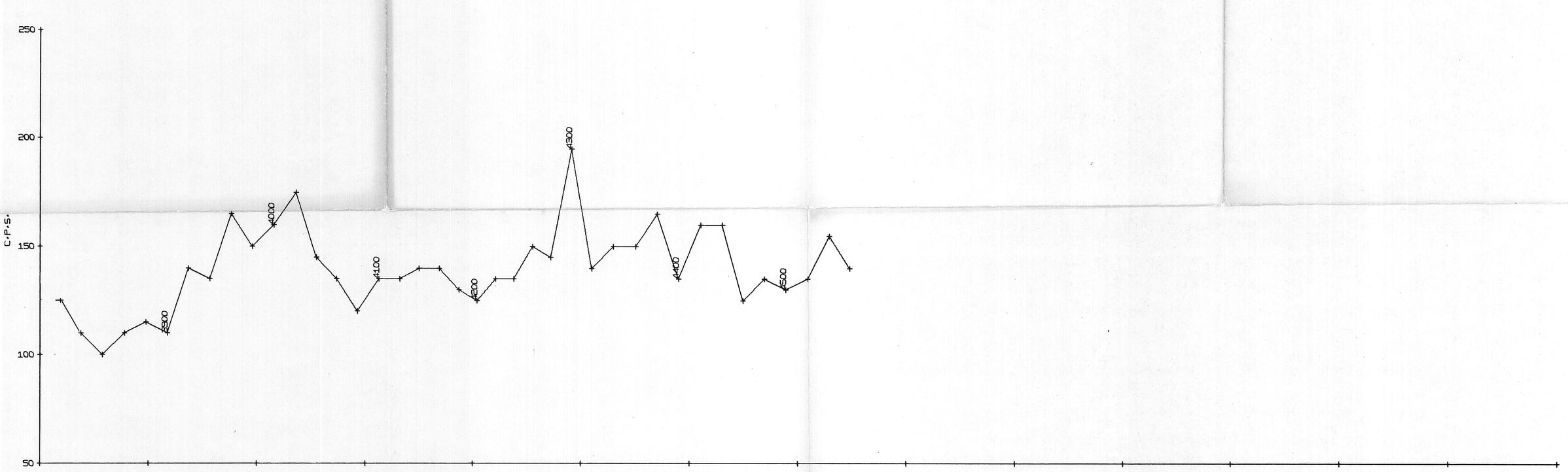
078081

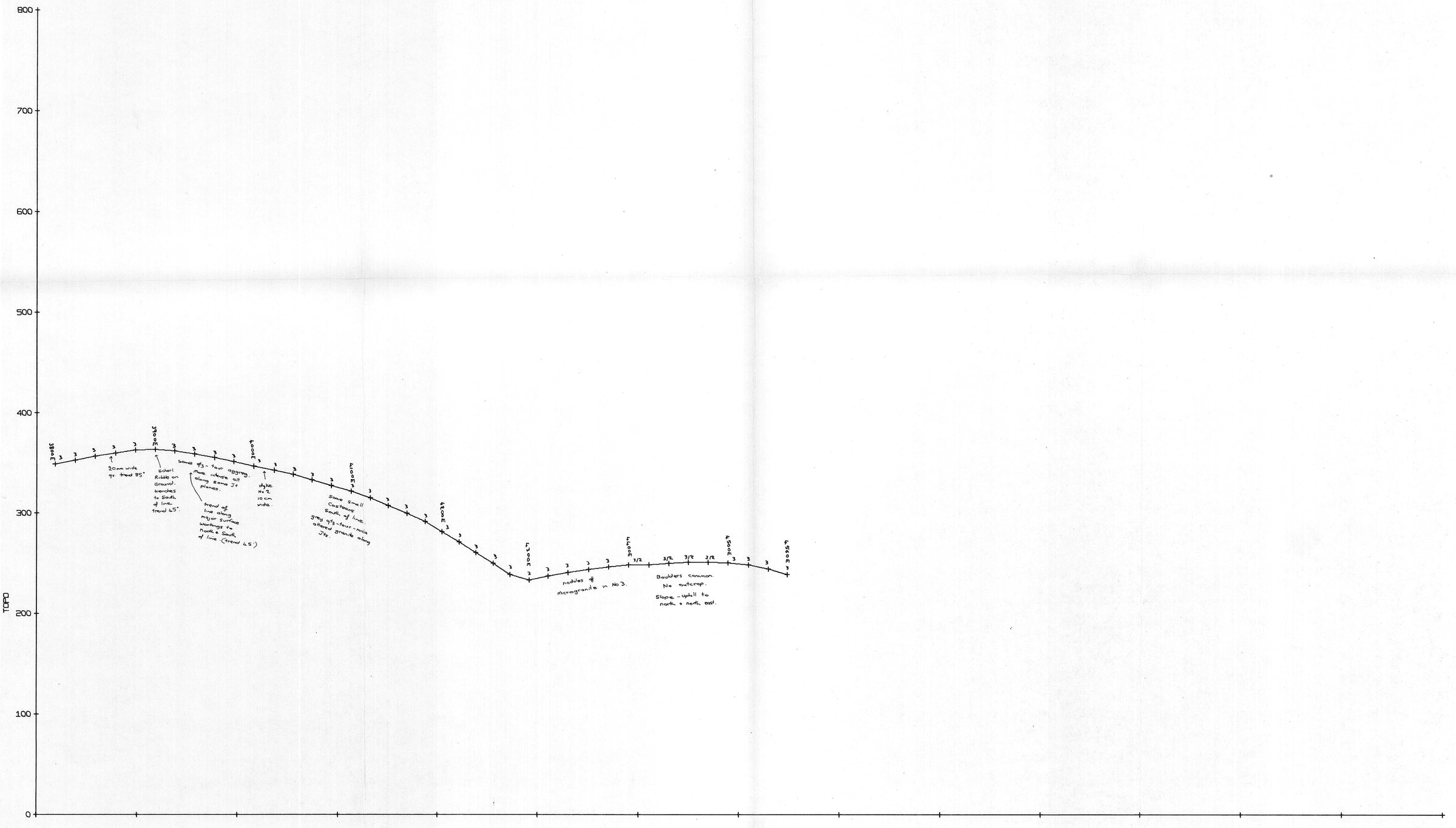
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4280 N SCALE 1 TO 2000

TAS-7-22

5 cm







80-1445 2/2 3243 078082

A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4360 N SCALE 1 TO 2000

TAS-7-23

5 cm

SN PPM.

C.P.S.

TOPO

Interstitial tour. A few qtz-tour aggreg. in med - c grnite.

Grey qtz-tour altered granite in Costean.

Some qtz-tour veinlets.

COSTEANS. ON MAIN LINE OF SURFACE WORKINGS. TREND N5

Flat Jointing in Creek. Faulting probably in Creek South of line.

may be remnants of No 2 on slope.

Sill.

Some microgranite.

Some microgranite Rubble.

Tour - qtz veinlets. Upto 50mm wide. In over argn. Feld. phenocrysts replaced by Tour where cut by veinlets.

Sill of microgranite between sites.

Small microgranite lens.

minor interstitial Tour.

Some tour envelopes around feldspar phenocryst.

80-1445 2/2

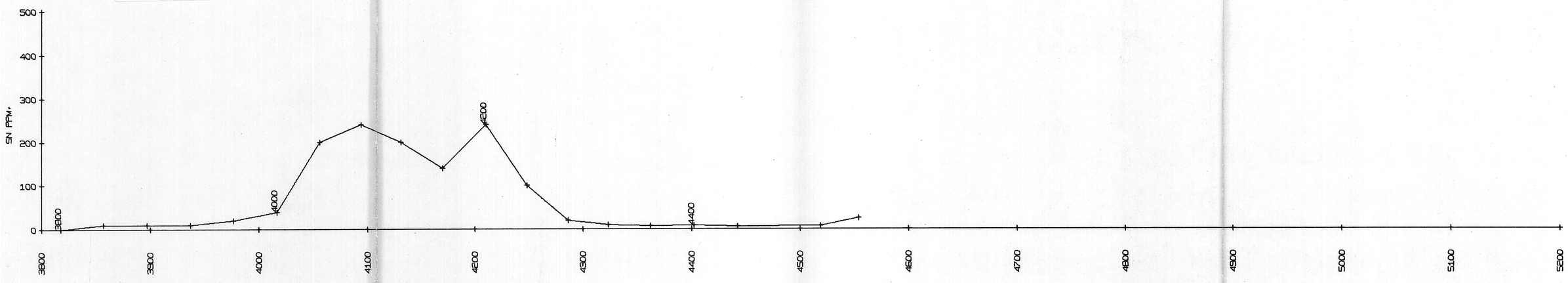
3244

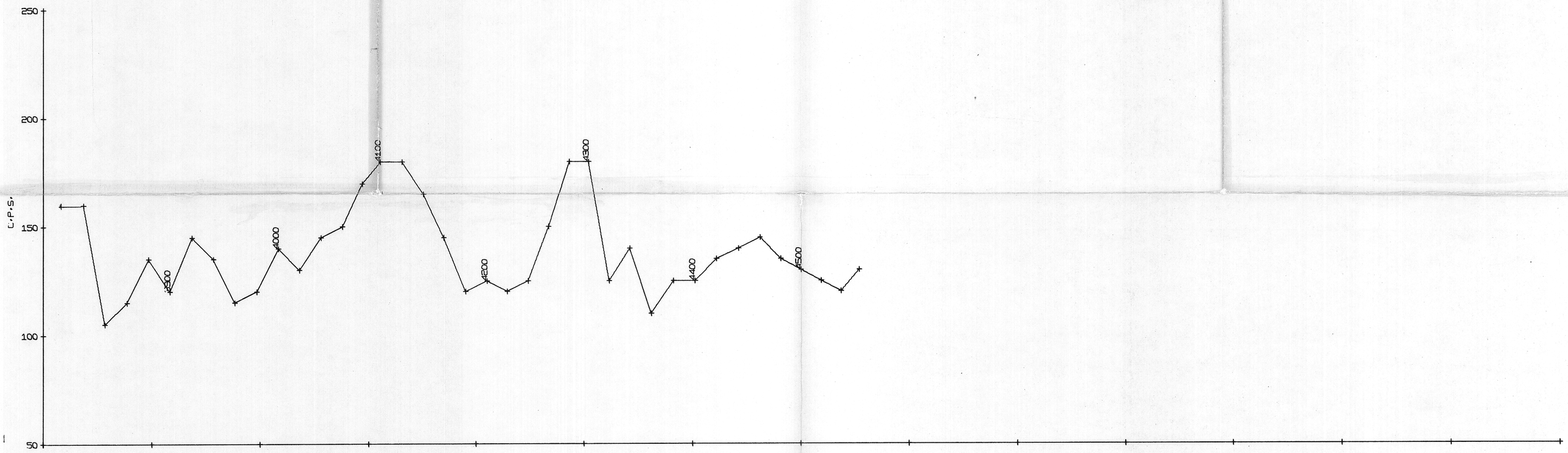
078089

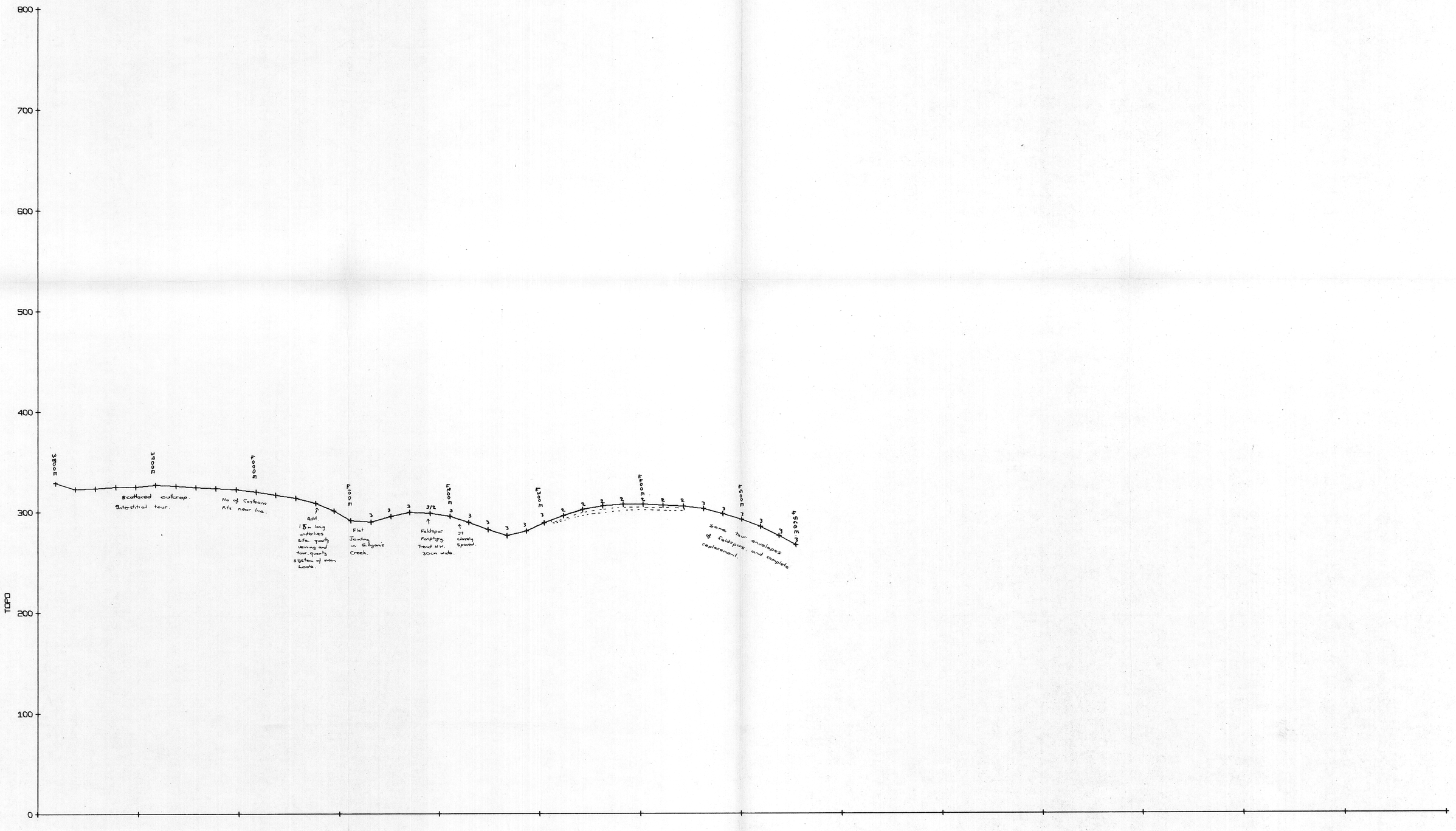
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4440 N SCALE 1 TO 2000

TAS-7-24

5 cm







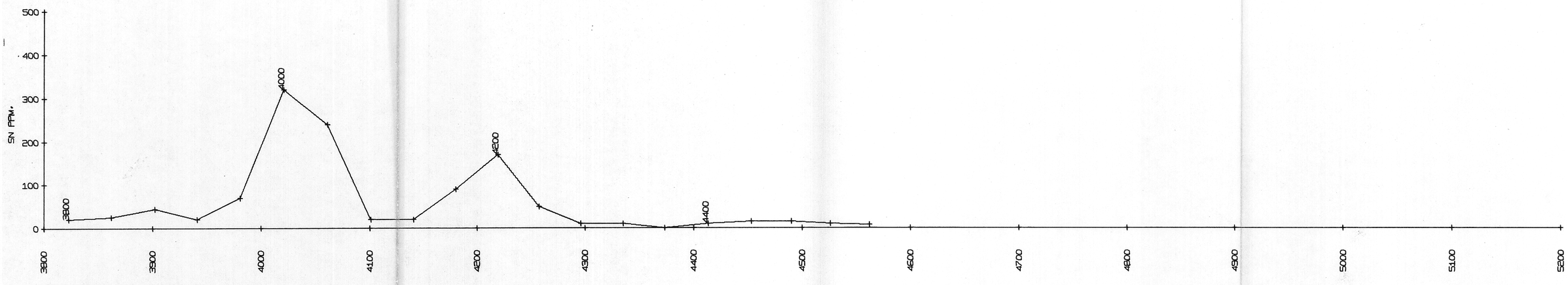
80-1445 ak 3245

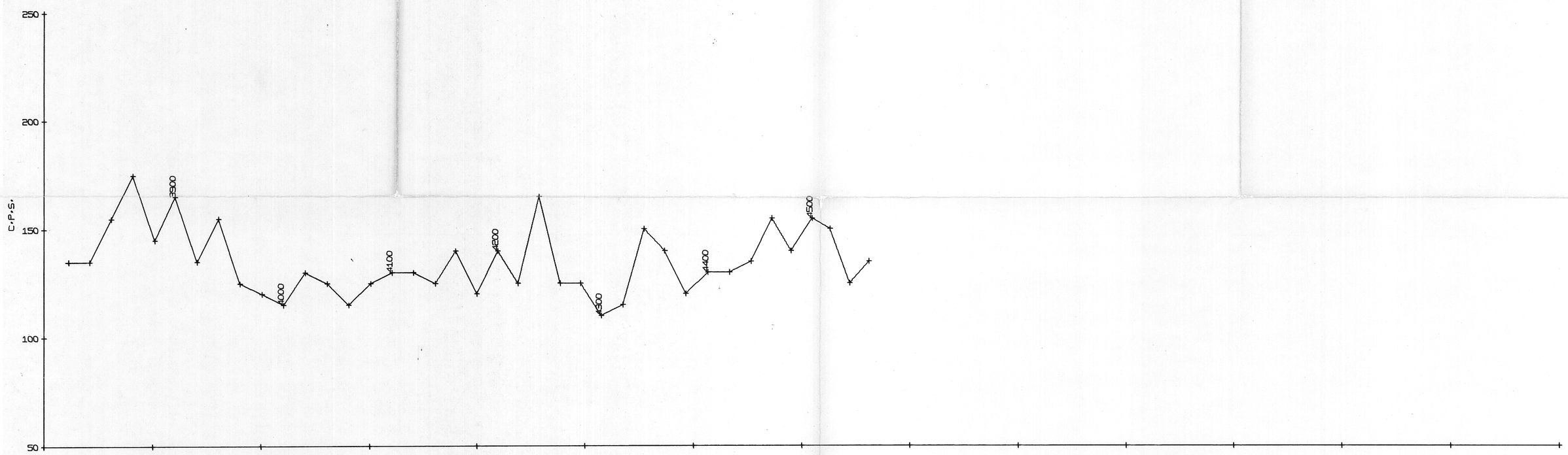
078090

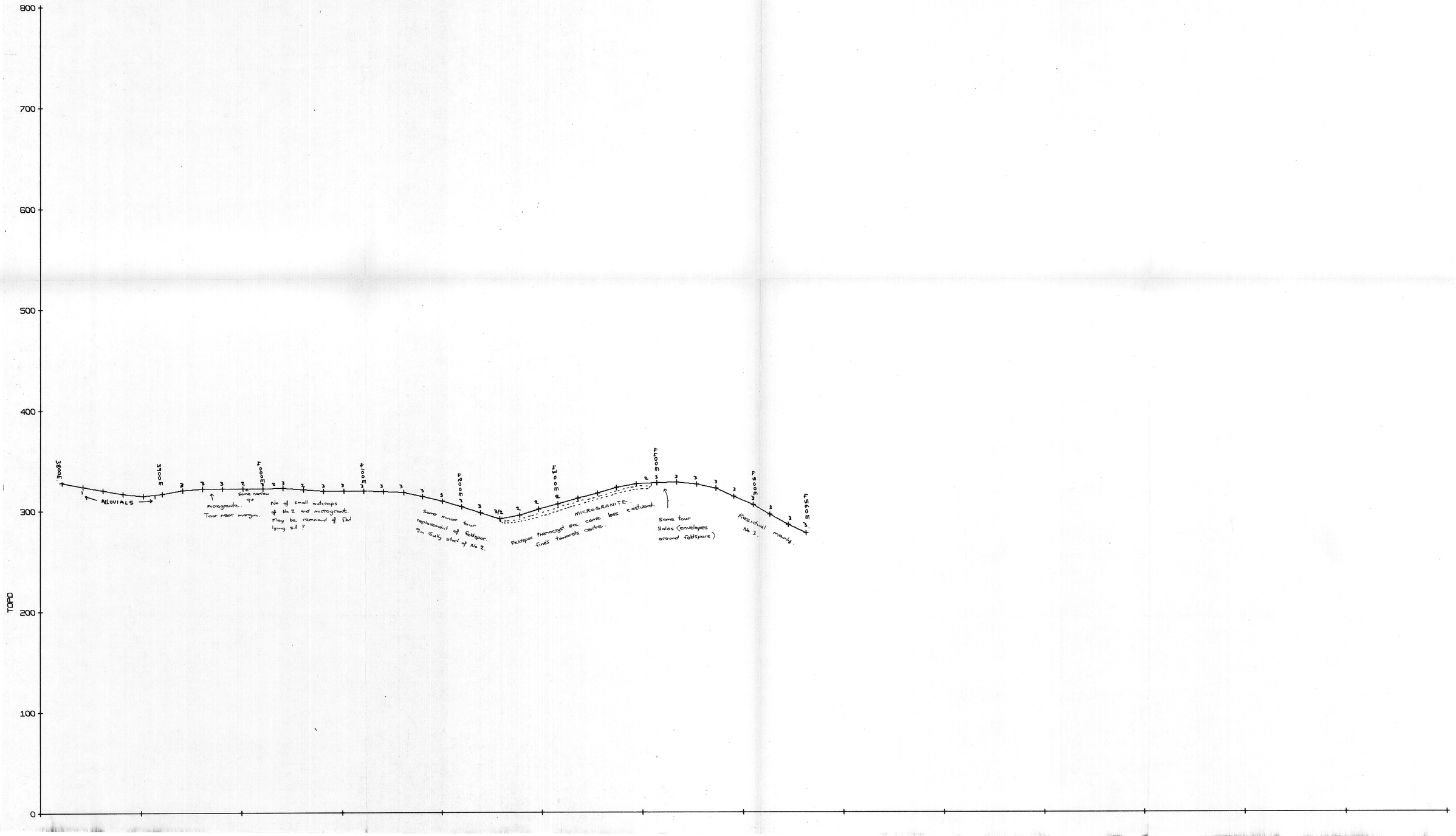
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4520 N SCALE 1 TO 2000

TAS-7-25

5 cm





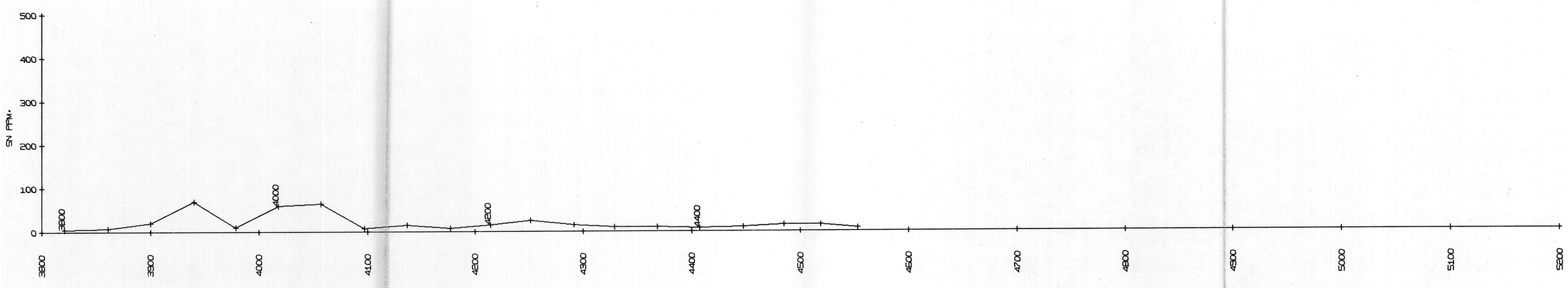


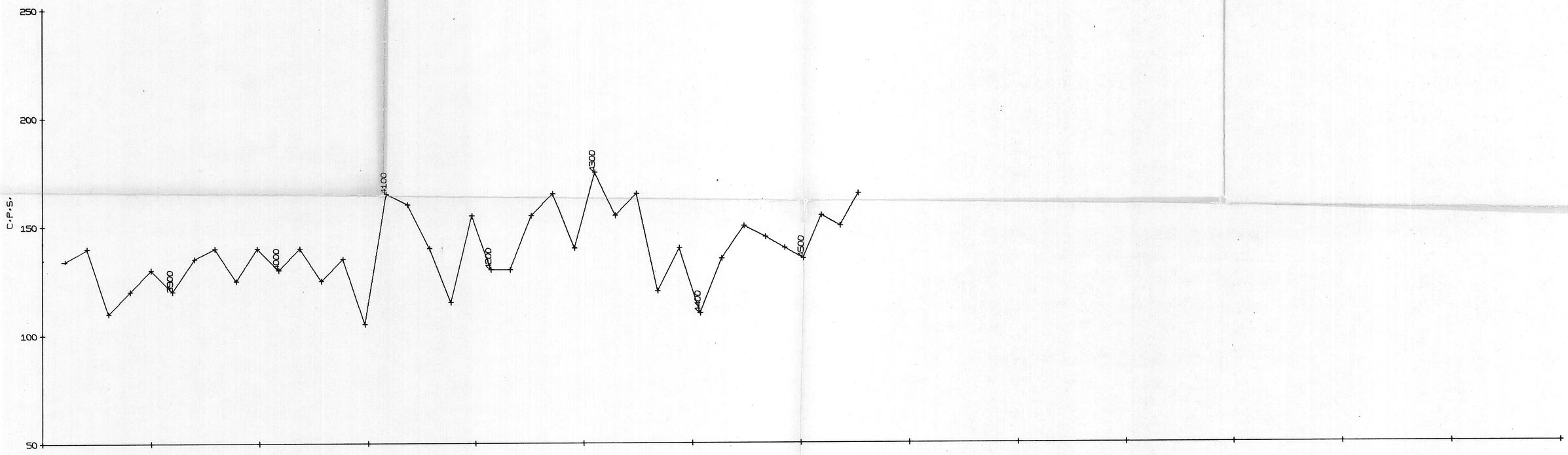
80-1445 2k
3246
078091

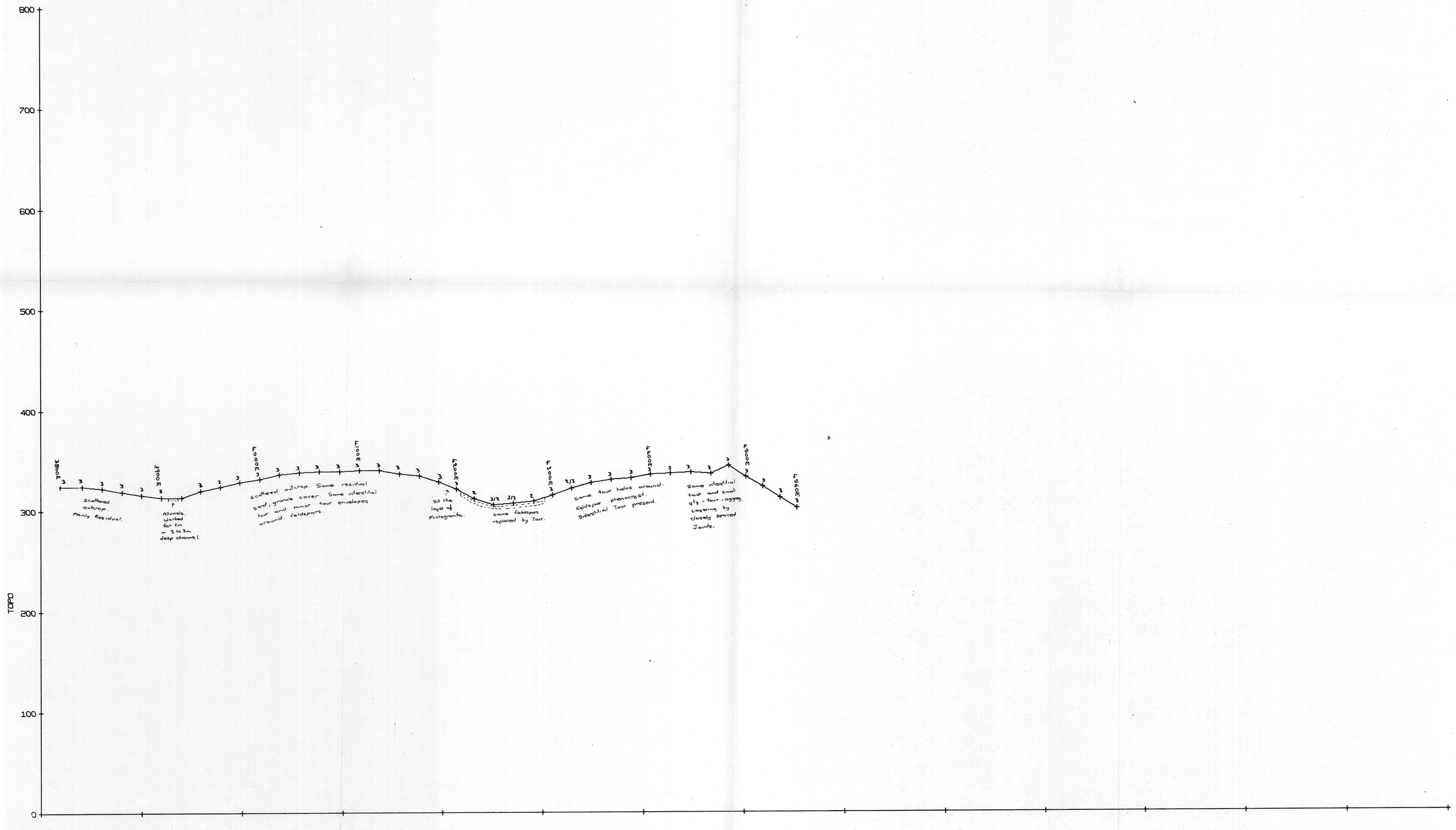
A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4600 N SCALE 1 TO 2000

TAS-7-26

5 cm







90-1145 2/2
3247

078092

A.A.A. LTD. ROSIER CRK. EL 20/78 LINE 4680 N SCALE 1 TO 2000

TAS-7-27

5 cm

SN PPM.

500
400
300
200
100
0

3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200

C.P.S.

250
200
150
100
50

3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000

TOPO

800
700
600
500
400
300
200
100
0

3800E 3900E 4000E 4100E 4200E 4300E 4400E 4500E 4600E 4700E 4800E 4900E 5000E 5100E 5200E

Partly Residual.

Gully. Forks.

Just to North of gnative channel.

qv Rubble.

Some tour aggreg. COSSANOUS QUARTZ VEN STOCKWORK. To South of line, Strikes East-West.

Head of Gully.

Some aggreg qtz-tour.

Tour envelopes around feldspars in places.

Narrow microgranite lens.

Some microgranite infusion. Usually narrow individual dykes.

Boulders. Residual. Scattered outcrop. Outcrops small.

Scattered outcrop.

Some tour envelopes around. feld phenocrysts.

Some microgranite boulders.

Some tour around feldspar phenocryst

Porphyritic Microgranite. fine towards center. Eastern margin finer than west. Breaks into slate like slabs.

POSTULATED SLOPS 5000E, 5300E. FROM CONTOURED MAP.

80-1445 2k

3248

078093

A·A·A· LTD· ROSIER CRK· EL 20/78 LINE 5000 N SCALE 1 TO 2000

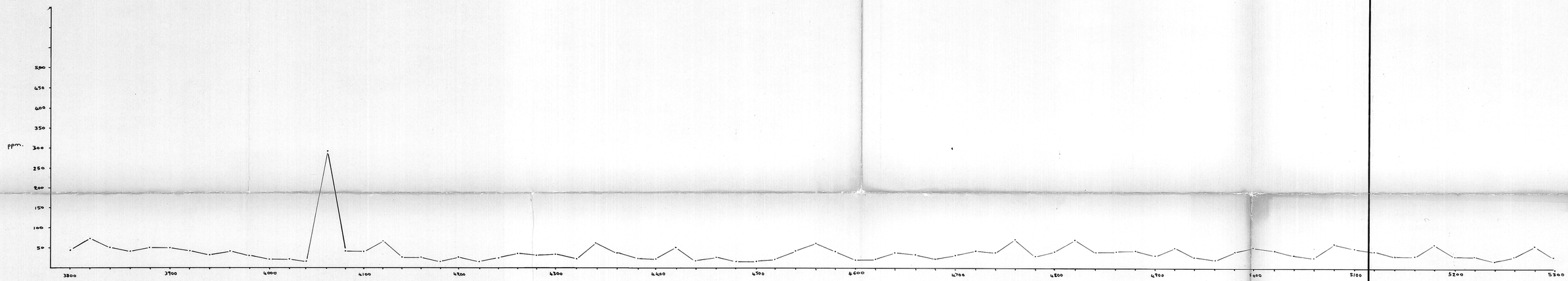
TAS-7-28

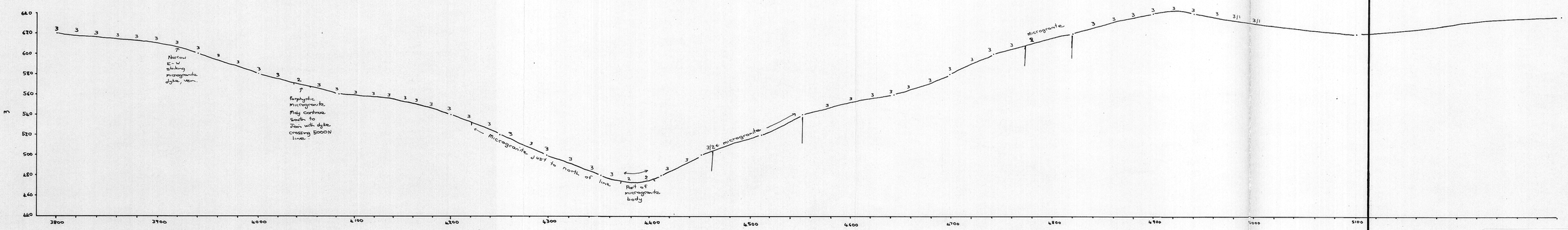
5 cm

SN PPM·

C·P·S·

TOPO



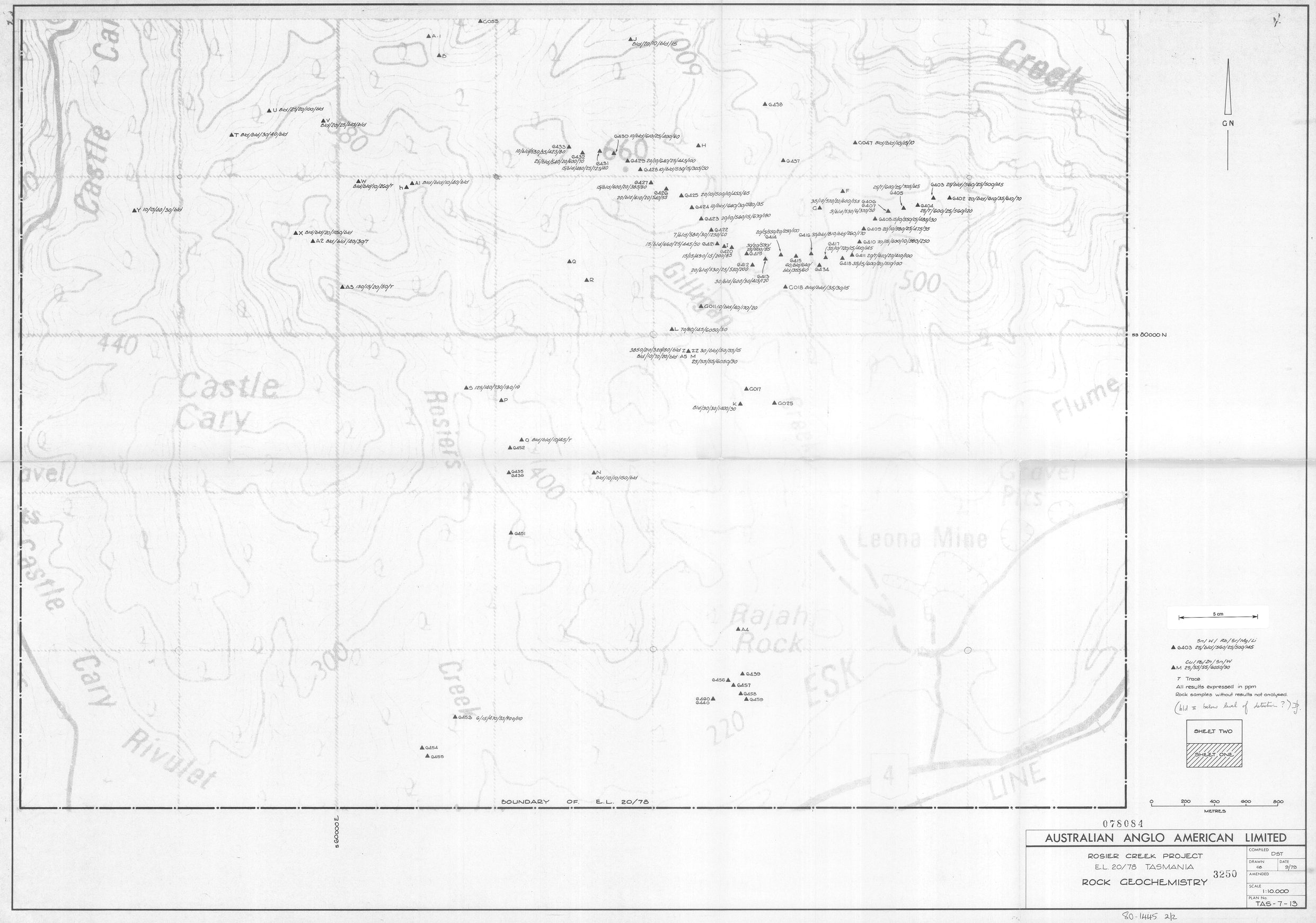


078083

5 cm

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	ROSIER CREEK - E.L. 20/78		
AREA	GILLICAN CREEK GRID		
DATA	LINE 5320N - PROFILES 3249		
COMPILED	D.S.T	SCALE	1:2,000
DRAWN	D.S.T 9/79	REF No	TAS-7-12
AMENDED			

80-1445 2/2



078084

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 TASMANIA
ROCK GEOCHEMISTRY

3250

COMPILED	DST
DRAWN GB	DATE 9/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS-7-13

80-1445 2/2



078085

AUSTRALIAN ANGLO AMERICAN LIMITED

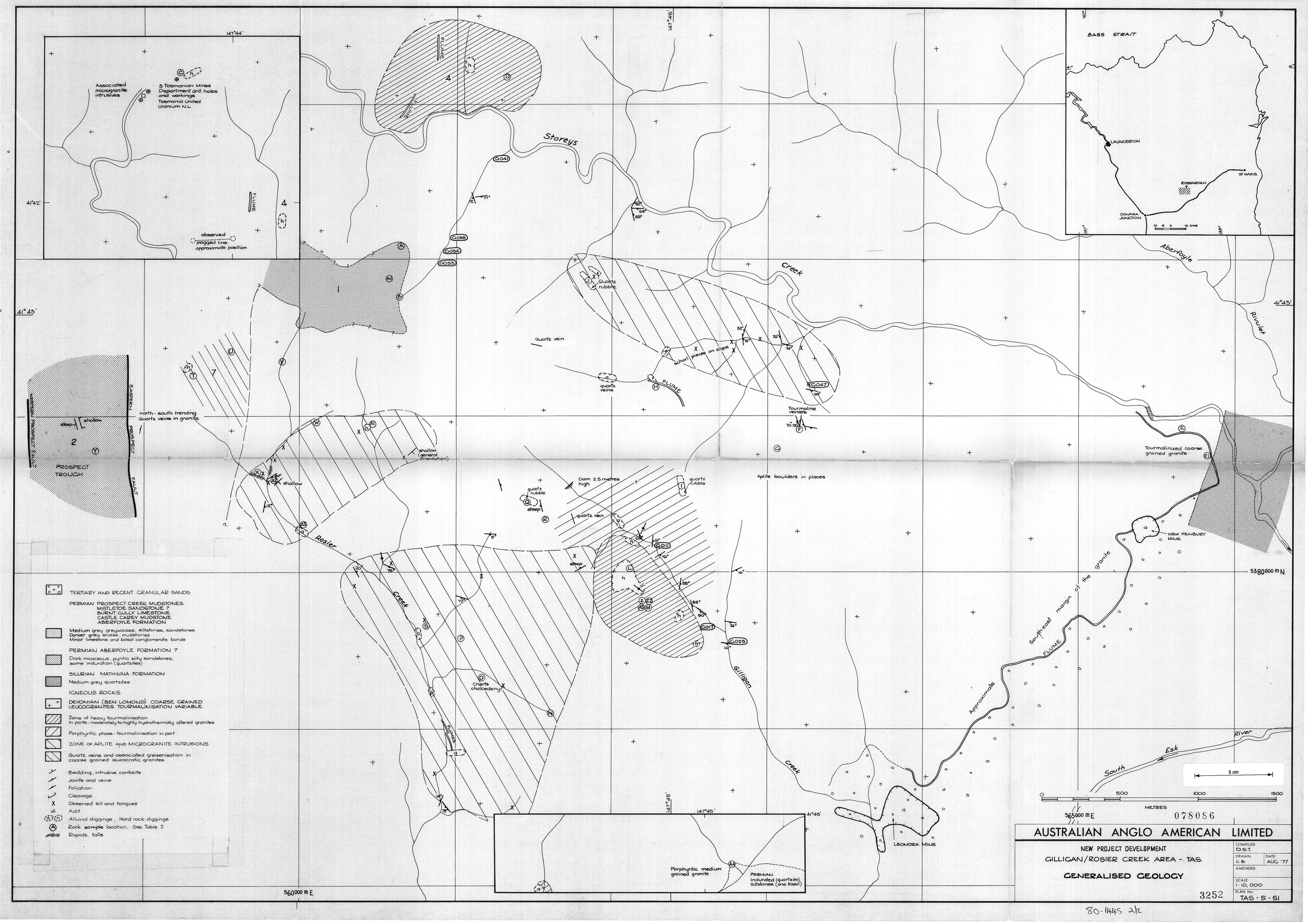
ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA

3251

ROCK GEOCHEMISTRY

COMPILED	DST
DRAWN CB	DATE 9/79
AMENDED	
SCALE	1:10.000
PLAN No.	TAS - 7 - 13

80-1445 2/2



Associated microgranite intrusives
3 Tasmanian Mines Department drill holes and workings
Tasmania United Uranium N.L.
observed
pegged line
approximate position
FLUME
147°44'
41°42'
41°43'
147°45'
Storeys
Creek
Aberfoyle
Rivulet
Quartz rubble
Quartz vein
schorl pieces on slope
quartz veins
Tourmaline veinlets
north-south trending Quartz veins in granite
shallow (general orientation)
shallow
steep
PROSPECT TROUGH
WESTERN PROSPECT FAULT
EASTERN PROSPECT FAULT
Dam 2.5 metres high
quartz rubble
quartz vein
Aplite boulders in places
Tourmalinized coarse grained granite
NEW HENBURY MINE
Rosier
Creek
Cherts chalcedony
Gilligan
Creek
Approximate
Southeast margin of the granite
FLUME
South
Esk
River
LEONORA MINE
5380000 m N
565000 m E
560000 m E
BASS STRAIT
LAUNCESTON
ROSSARDEN
ST MARYS
CONARA JUNCTION
10 5 0 10 kms
TERTIARY AND RECENT GRANULAR SANDS
PERMIAN PROSPECT CREEK MUDSTONES
MISTLETOE SANDSTONE ?
BURNT GULLY LIMESTONE
CASTLE CAREY MUDSTONE
ABERFOYLE FORMATION
Medium grey greywackes, siltstones, sandstones
Darker grey shales, mudstones
Minor limestone and basal conglomerate bands
PERMIAN ABERFOYLE FORMATION ?
Dark micaceous, pyritic silty sandstones, some induration (quartzites)
SILURIAN MATHINNA FORMATION
Medium grey quartzites
IGNEOUS ROCKS
DEVONIAN (BEN LOMOND) COARSE GRAINED LEUCOGRANITES. TOURMALINISATION VARIABLE
Zone of heavy tourmalinisation
In parts - moderately to highly hydrothermally altered granites
Porphyritic phase - tourmalinisation in part
ZONE OF APLITE AND MICROGRANITE INTRUSIONS
Quartz veins and associated greisenisation in coarse grained leucocratic granites
Bedding, intrusive contacts
Joints and veins
Foliation
Cleavage
Observed sill and tongues
Adit
Alluvial diggings, Hard rock diggings
Rock sample location, See Table 2
Rapids, falls
Porphyritic medium grained granite
PERMIAN
Indurated (quartzite) siltstones (one fossil)
5 cm
0 500 1000 1500
METRES
078086
AUSTRALIAN ANGLO AMERICAN LIMITED
NEW PROJECT DEVELOPMENT
GILLIGAN/ROSIER CREEK AREA - TAS.
GENERALISED GEOLOGY
COMPILED D.S.T.
DRAWN C.B.
DATE AUG '77
AMENDED
SCALE 1:10,000
PLAN No. TAS-5-51
3252

80-1445 2/2

Refer to previous geology Plans for old workings north of the grid in this area.

MICROGRANITE.

5300N.

5000N

4680N.

4600N

4520N

L5200E 5320N

L5400E 5320N

L5760E 5320N

L6160E 5320N

5000/5320

Some qtz-tour Aggreg in No 3

Some dyke as at 3920E

Microgranite 18cm wide. Dyke like though not continuous along direction of Jt plane.

minor interstitial tour.

Some Tour halos and replacement of feldspar phenocrysts.

Porphyritic microgranite qtz phenocrysts about 1/8th diameter.

mainly Residual.

Break of slope, and steep grade to east of L4160E

mainly Residual.

Small costean pit.

microgranite intrusive. late phase.

lens of microgranite assoc. with larger intrusion to north.

mainly Residual. Slope - Steep.

Creek Channel. Microgranite boulders in Alluvials.

Some Tour envelopes and or complete replacement of phenocrysts along margins.

Large boulders and Tour like GR in outcrop. Interstitial tour and Aggreg tour

microgranite contains muscovite, slightly porphyritic

Interstitial Tour

Some nodules of microgranite in No 3

Some qtz-tour veins and Jts filled (lined) C Tour. Some Small qtz-tour aggregates

microgranite dyke.

Tour veinlets follow trend of microgranite. Some qtz-tour Aggregate near margins. Envelopes of tour and complete replacement of Some feldspar grains

mainly (only) interstitial Tour present.

Largely unaltered No 3 Gr Between 5320N and 5160N.

Ridge Soil Sample line crosses this line between 5160N + 5200N.

QV Rubble. Some bostwickite

Flat area on ridge crest between 5160N and 5200N

minor microgranite Rubble.

few narrow tour veinlets

Tour veinlets and Tour envelopes replacement of some feld phenocryst.

Polymictic boulder population. Some showing partial Tour alteration.

Flat lying microgranite layer about 1-0m wide. Follows dip.

Porphyritic microgranite 5m to No 2. Approx 3m wide dyke. Strike 96°M but dyke not traceable as such for any great distance.

Some Tour, though mainly minor amounts.

narrow microgranite dyke. Not traceable.

Some No 2 boulders between 4240E & L180. Gully at 4170E

Some qtz-tour veinlets. Clusters of Tour. Mainly residual boulders.

Residual Boulders of both GRANITES.

dyke 60cm wide at No 2. Strikes 30°M.

dykes of microgranite 60mm wide.

On other side of margin Tour envelopes and complete Tourmalinisation of some feldspar phenocryst.

Scattered outcrop. mainly Residual qtz-feldspar granites.

microgranite. Approx 5-0m wide, traced a short distance to South.

microgranite. Approx 4m wide. 3m deposition and near site Some school boulders.

Some envelopes of tour around feldspar phenocrysts

microgranite.

Few small phenocrysts only. Qtz phenocryst prevalent over feldspars.

microgranite.

Some Tour veinlets and a few feldspar phenocrysts replaced wholly or partially by Tour.

aggreg of qtz-tour in irregular lines (digenetic nodules) porphyroclast and large phenocrysts of feldspar.

glomeroporphyritic mosaic of qtz-tour in No 3. Also Tour qtz veins. Extend into GR at 90° Right angles to contact.

Feldspar phenocrysts to 70mm long

microgranite Sill Dips 10° Eastward. Min. 1-0m wide.

grey qtz-four rock from Castlemain. Chloritic in parts.

Tour aggregate and interstitial Tour. At 5000E Tour inconspicuous.

Some microgranite rubble.

Narrow microgranite dyke.

Some interstitial Tour and minor development of Tour envelopes around feldspar phenocrysts

Some qtz-tour Aggreg.

Small Microgranite dyke, 10cm wide

Some Tour on 3 of 4 planes.

last 2 sides start to drop down, in to next Gully.

Some glomeroporphyritic aggreg of Tour-qtz.

Porphyritic microgranite No 2 fines to the east towards centre. Ex - Smaller phenocryst and less numerous feldspar phenocryst.

Broken off slide like pieces on line 5000 N Etc.

Some Tourmaline envelopes around felsl phenocrysts.

Some microgranite boulders present.

Porphyritic microgranite

Some Tour Aggreg + field replacement.

Boulder of a fine gr granular variety of No 3. Boulders accumulated in broad depression at head of Gully. No set defined channel.

Scattered outcrop.

Some Tour veinlets, follow trend of microgranite. Some qtz-tour Aggregate near margins. Envelopes of tour and complete replacement of Some feldspar grains

Some Tour halos around phenocrysts. Interstitial Tour present

Some interstitial Tour and some small qtz-four Aggreg. Some fingering above by closely spaced dyke.

Some Tour halos around phenocrysts

Some Tour envelopes around Some feldspar phenocryst. Interstitial Tour and Tour envelopes around feld phenocryst.

Some Tourmaline envelopes around feld phenocrysts.

Zone between L4240E and L5060E of narrow trough, num microgranite & No 2 intrusions.

narrow qtz veins between 5 and 15mm wide, 7 veins was total width of 0-6m. Strike 90°M 72°S Jt.

Some Tour envelopes and or complete replacement of phenocrysts along margins

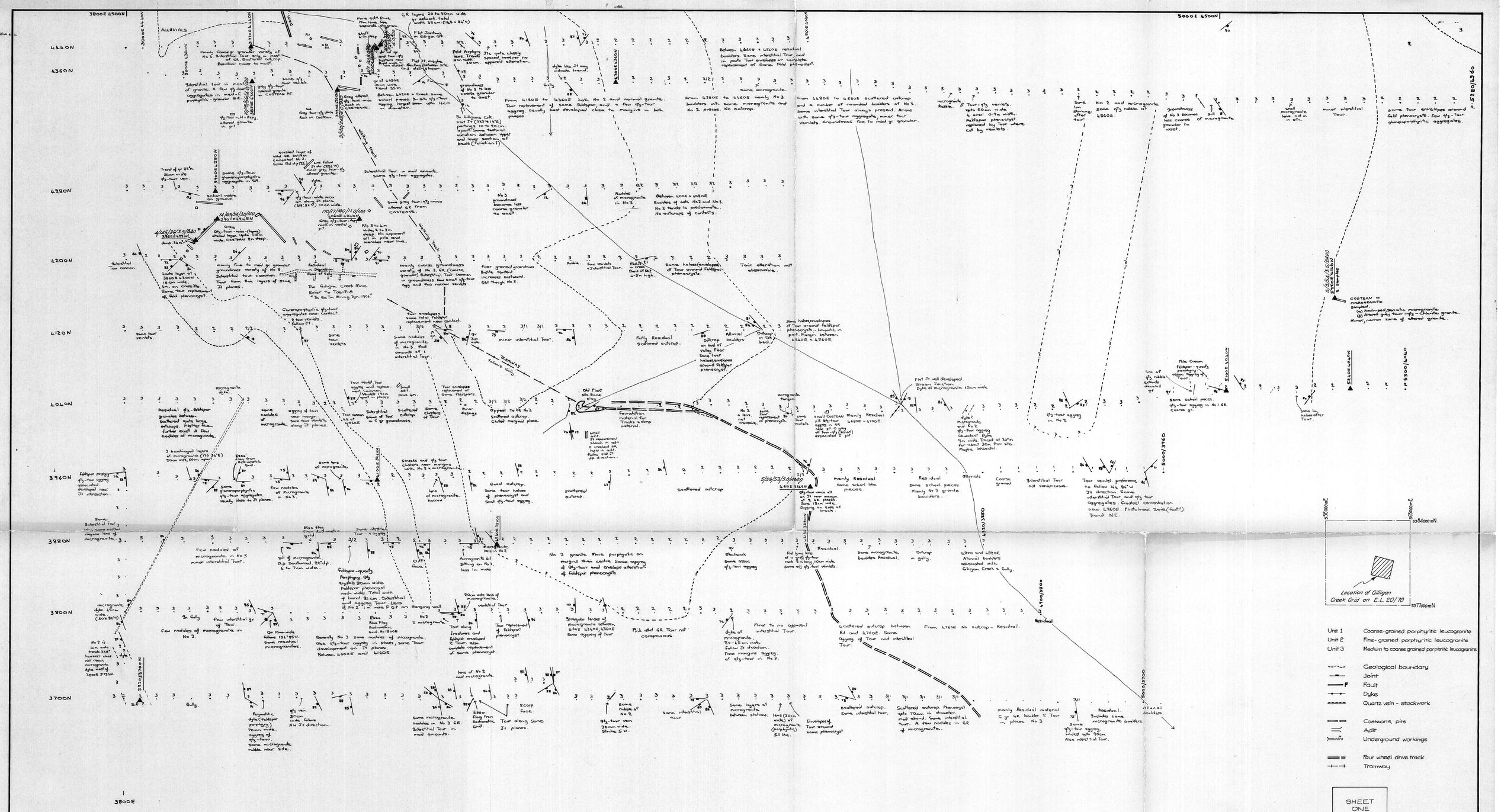
Some Tourmaline envelopes around feld phenocrysts

Some Tour halos around phenocrysts. Interstitial Tour present

Some Tour envelopes around Some feldspar phenocryst. Interstitial Tour and Tour envelopes around feld phenocryst.

Some Tourmaline envelopes around feld phenocrysts.

Some Tour halos around phenocrysts



078088

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	ROSIER CREEK - E.L. 20/78		
AREA	GILLIGAN CREEK GRID		
DATA	GEOLOGY - FACT 3254		
COMPILED	D.S.T.	SCALE	1:2,000
DRAWN	D.S.T. 9/79	REF No	TAS-7-11
AMENDED			

80-1445 2/2

J82

Qtz-aspy lode. Inner zone 10-20 cm wide. Outer 60 cm wide.

Qtz-eye-tourmaline rock exposed on south wall & roof intersected before north wall.

Qtz-aspy lode. Follow margin of workings Stoped area associated secondary melanterite crystals. (40/5/25/22/17)

72° 80° channel GCM 102 m. sampled GCM 90 m (2400/26/50/80/82)

Stoped area.

Gr tourmalinised in parts, in last part of drive & workings

Quartz vein 5-12 cm wide, some sub parallel fractures and veinlets

45° fracture offset by vertical joint, lim stained on 45° fracture. Crushed granite.

Qtz aspy lode 30 cm wide. Central aspy massive 30mm wide. Tourmaline aggregates in granite to south of lode. Associated secondary melanterite crystals.

Qtz Aspy lode. Generally less 10 cm. wide. Exposed in roof. Central part 20mm wide

Qtz Aspy lode

Undulating fracture on roof. Dip steep to SW

Shaft (downwards)

Joint. Steep dip. Zone 10cm wide. Qtz in centre.

Granite jointed limonitically stained

Ventilation shaft

Two jt. direction merge with each other.

Lim on jt.

Qtz carbonate centre. 3mm wide & limonite stained crush zone total width 50mm.

Mainly med to c. gr. Gr porphyritic limonitic after tourmaline. Tour. mainly interstitial. Some felds phenocryst replacement.

Some crosscutting lodes & subparallel aspy-qtz lodes. Join with main lode system. Lode shown has quartzite 10mm wide centre & total crush zone width 80mm.

Aspy-Qtz lode 20cm wide assoc tourmaline and melanterite.

GCM 39+3m (35/5/20/10/10)

door

GCM 28.6m granite (40/3/55/17/65)

Qtz-aspy lode 15-20 cm wide, associated melanterite.

Shaft present depth 6.8 m

Some tourmaline in Gr North wall mainly interstitial.

GCM 17.4m

GCM 16.6m (50/15/25/14/40)

Granite Med-c. gr. porphyritic. Some limonite and kaolinisation.

Central siliceous zone 8mm wide. Crush zone 15mm wide.

Med to c. gr porphyritic granite

Adit

Gr Granite
Qtz. Quartz
Aspy Arsenopyrite
Tour. Tourmaline

0 5 10 m

Note: GCM rock samples expressed (Sn/Cu/Mo/Pb/Zn) ppm.

TN MN 13.5°

Sn. ppm

A10.5-11 (15)
A10-10.5 (20)
A9.5-10 (40)
A9-9.5 (35)
A8.5-9 (25)
A8-8.5 (25)
A7.5-8 (55)
A7-7.5 (1200)
A6.5-7 (1050)
A6-6.5 (1650)
A5.5-6 (20)
A5-5.5 (40)
A4.5-5 (40)
A4-4.5 (30)
A3.5-4 (30)
A3-3.5 (35)
A2.5-3 (150)
A2-2.5 (35)
A1.5-2 (20)
A1-1.5 (30)
A0.5-1 (20)
A0-0.5 (120)

N.S. orientated limonitic lined fracture.

9-10.5 Silicified porphyritic biotite granite. Some interstitial tour.

8-9 Coarse gr porphyritic Gr. Several lim fractures 8.5-9m interval.

7-8 Crushed limonitic kaolinised - sericitised altered granite.

6.2 contact of tour-qtz rock

Tour qtz Strike 45° as above

3-6 Med gr granular tourmalinised & silicified granite. Tour interstitial & More tour in sample 5.5-6.

2.5-2.8 Qtz-tour-aspy lode assoc secondary melanterite crystals. Crushed qtz rich Gr. Br. chert bed 2.45-2.5 on margin of lode. Crushed kaolinised Gr contains chert band 2mm wide assoc aspy in aggregates. Gr - med gr. Aspy, chert band 8mm wide. Gr. - med gr slightly porphyritic minor lim. staining.

Sn ppm

B5.5-6 (10)
B5-5.5 (45)
B4.5-5 (30)
B4-4.5 (320)
B3.5-4 (350)
B3-3.5 (380)
B2.5-3 (380)
B2-2.5 (50)
B1.5-2 (65)
B1-1.5 (120)
B0.5-1 (9100)
B0-0.5 (60)

From 2.75-G Crushed limonitic kaolinised c. gr. porphyritic granite. Iron carbonate crystals on surface near lode.

Lim.-qtz aspy lode 2.5-2.75, some tour. Lim kaolinised Gr possibly Some manganese staining

Lim. kaolinised Gr.

Lim.-chlorite filled fracture

Lim stained porphyritic med. gr. sheared Gr.

5 cm

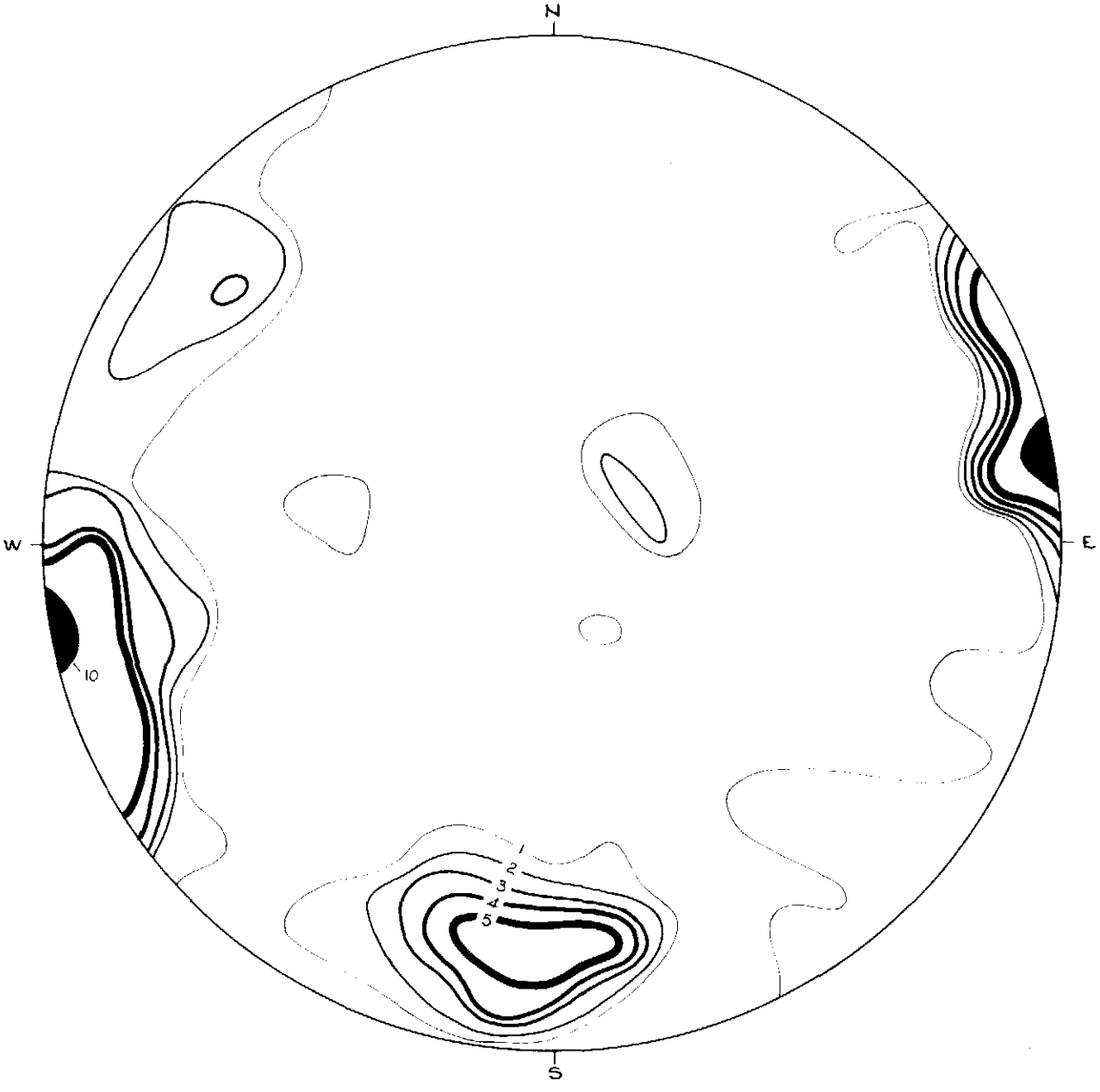
078094

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
TO GO TIN MINING N.L. MINE (1906)
GILLIGANS CREEK.

COMPILED	DRAWN	SCALE	
D.S.T.	8/79 C.B. B.J.	1:250	TAS-7-8

063



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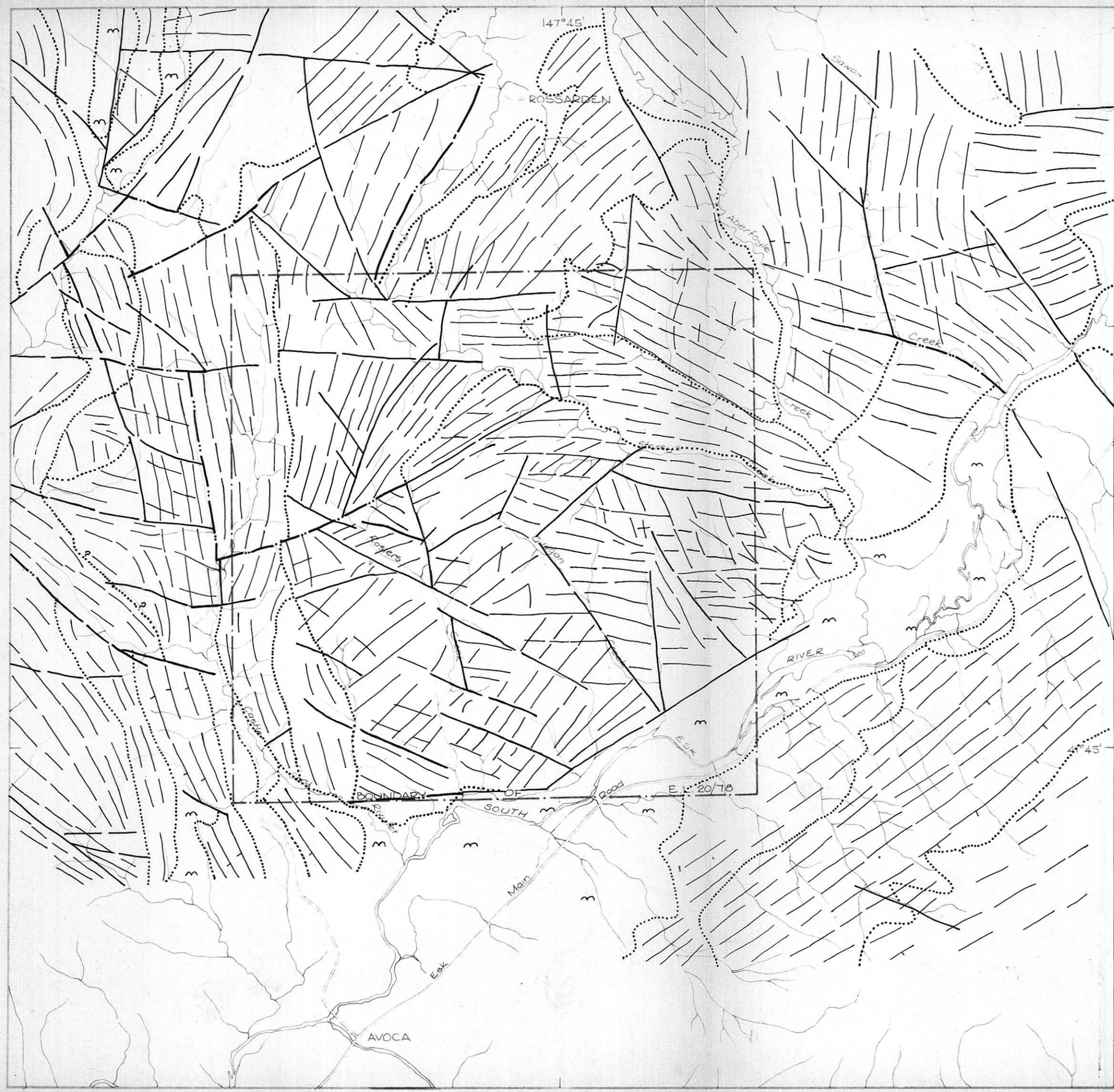
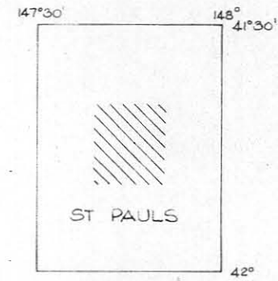
AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT
E.L. 20/78 - TASMANIA
GILLIGAN GRID
PERCENTAGE CONTOUR DIAGRAM
JOINT MEASUREMENTS

COMPILED	DRAWN	SCALE	
D.S.T.	8/79 B.J.	N.T.S.	TAS-7-9





1:100.000 SHEET

Major fracture (fault?)
Photo linear (bedding, jointing)
Photolinear showing dip direction - <30°
Geological contact
Faulted contact boundary

078096

5 cm

0 1 2 3 4
KILOMETRES

AUSTRALIAN ANGLO AMERICAN LIMITED

ROSIER CREEK PROJECT

PHOTOGEOLOGICAL INVESTIGATIONS

PHOTOGEOLOGICAL INTERPRETATION

COMPILED	DRAWN	SCALE	
M.C.H.	C.B. 1/79	1:50.000	TAS-5-59