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References

I G P Wilding, 1982. EL 5/63, Section 6, East Renison. Preliminary statement of indicated resources at GAR - Fentons Prospect.

1C Doc No. 394 Amdel March 1981.
Preliminary Mineralogical and Metallurgical evaluation of two samples of lead-zinc ore. RBE 5, RBE 10A.

1C Doc No. 11526 Jack K Sturgess 12/7/83.
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COMSTAFF PROPRIETARY LIMITED

A REVIEW OF THE TIN AND BASE METAL RESOURCE

EAST RENISON EL 5/63 AREA 6

1. SUMMARY

Two probable resource blocks with a combined strike length of 600m have been defined in the 1.5km linear, steep dipping Pieman Tin and Salmons vein structure at East Rensison. The geological resource figures are tabulated below.

Location	Category	Tonnes	Grade					Comment
			Sn%	Cu%	Pb	Zn%	Ag ppm	
Pieman TV	Probable	433,367	1.0	-	-	-	-	Ref Tab 3
Salmons V	Probable	830,222	0.187	0.615	3.173	2.241	104 (3.3ozt)	Ref Tab 5
Pieman TV	Possible	744,918	0.3	-	-	-	-	Ref Tab 3
Salmons V	Possible	816,000	0.1	0.1	1.21	1.32	50 (1.6ozt)	Ref Tab 5
Salmons E	Possible	200,000	at \$69.13 equiv value total metal					Ref Tab 6
Salmons W	-	no estimates as considered patchy					Ref Tab 7	
Pieman TV	Other metals present in Tin Vein - from drill core assays			0.18	0.06	0.32	8	

It needs to be known how far short the above probable resource falls from being potentially economic in order that further exploration expenditure can be justified, to perhaps double the reserve as suggested by the possible category.

The Pieman Tin and Salmons vein structure is a multiple vein system intersecting at an oblique angle, sediments of the upper section of the Crimson Creek Formation. Mineralisation is concentrated between 500m and 1100m above an underlying granite, in the outer zone of the contact metamorphic aureole.

There is a three dimensional sulphide and carbonate zonation within the vein structure and a recognisable contact metamorphic zonation outward from the granite.

Five to six vein stages are known. In brief, the vein paragenesis is as follows:-

- a) Quartz-arsenopyrite-cassiterite (minor carbonate) predating

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- b) Siderite-quartz-galena-(sphalerite). Two siderite phases based on texture are known and sphalerite sometimes appears to be associated with a different phase from that of galena.
- c) A late barren quartz phase.

2. INTRODUCTION

Comstaff at East Rension has drilled fifty diamond drillholes, 18308.4m. Thirty of these drillholes have intersected vein mineralisation in the Pieman Tin and Salmons Vein structure, whilst another five have closed off the mineralisation, mainly at depth.

The 1.5 km linear structure has been divided into three sections by post mineralisation cross faulting.

- a) The Pieman Tin Vein section in the north. Strike NW.
- b) The Salmons Vein Pb-Zn section in the centre. Strike NS.
- c) Salmons Vein south of the Murchison Highway. Strike NNE.

Three main mineralised veins, which may coalesce, are recognised throughout the complete length. In the north section from west to east the veins have been termed the Salmons Vein, Copper Vein, Tin Vein.

In the two southern sections the correlates have been termed the Salmons, Salmons West and Salmons East veins in this report. "Cross overs" occur where the veins intersect a Talc Carbonate altered ultramafic horizon, which is semi parallel to the veining ie section RBE 31, RBE 12.

The Pieman Tin Vein in the north is defined at or near surface by a series of trenches (some stoped to a depth of 7m), tunnels and small adits over a distance of 420m. The Salmons Vein in the central section at the northern end has been driven on for 36m. No further workings on the vein are known. Most of the central section has a glacial till cover which masks the surface trace of the veins.

This review covers the geology of the mineralised vein area and indicates both tin and polymetallic probable and possible ore blocks. Possible ore blocks have the potential to double the probable ore figures produced here if further exploration expenditure is considered justified.

3. LOCATION

The area lies between Rosebery Mine to the east and Renison Bell Mine to the west at 373000E, 5373,000N on the Pieman 1:100 000 sheet 7914. Access to the drilled area north of the Murchison Highway is by the HEC road to the Ring River railway bridge.

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4. GEOLOGY

The geology of the Pieman Tin Vein and Salmons Vein between RBE 42 in the north and RBE 19 at the Murchison Highway is shown at 1:1 000 on plans TAS/2/3969 (north sheet) and TAS/2/3970 (south sheet). The vein structure intersects an upper section of the Cambrian Crimson Creek formation. This contains several units with thinly bedded, impure carbonates. The carbonate beds are unlike the pure dolomites in the Renison Bell formation, underlying the Crimson Creek formation.

In the Pieman Tin Vein section the beds consist of volcanomict sandstones, minor siltstones, overlain by black pyritic carbonaceous shales, again overlain by an alternating and rhythmic succession of carbonaceous pelites, calc pelites (often carbonaceous), calc psammites, volcanomict sandstones and siltstones. Beds young eastward, with bedding plane dips steep westward (ie overturned). The beds form an arcuate pattern with strike in the central arc area, northwest. The tin vein dips 70 - 80° eastward, strikes NW and is quite consistent, except where dips swing to steep westward in section diamond drillhole RBE 8. Vein widths vary from 0.47 to 3.75m. The probable resource block for tin occurs, where the vein intersects black pyritic shales and the lower units of the overlying impure carbonates. Refer to TAS/2/3969 and Resource block diagram TAS/2/4030.

Post mineralisation cross faulting causes the tin vein to be lost to the north and to be disrupted by 60-70m or more to the south. Beds near the faults are altered to greenish banded calcite-epidote-chlorite pelitic schists. In the Pieman Tin Vein section the Copper Vein and Salmons Vein dip steeply westward and do not contain any potential economic mineralisation. The three veins diverge from the western margin of the talc carbonate north of RBE 3.

In the Salmons Vein Pb-Zn section beds are again arcuate (though concaved) with strike in the central arc area north-south. Beds young and dip eastward. No substantial black pyritic carbonaceous shale units occur in this section. The calc pelites etc shown on TAS/2/3970 are considered to belong to a lower stratigraphic interval than those in the Pieman Tin Vein section because purplish coloured beds in the top of RBE 20, and RBE 22 are typical of the lower and middle parts of the Crimson Creek formation.

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In contrast to the Pieman Tin Vein section all three veins dip steeply west. The average width of the Salmons Vein between RBE 7 and RBE 16 containing polymetallic probable ore is 3.6m. South of RBE 16 the vein is often less than 2m wide. In drillhole section RBE 12 - RBE 31 the Salmons Vein becomes the central vein, the cross over occurring on the western margin of the Talc-Carbonate horizon. A metallurgical factor maybe of significance south of this crossover, with increase of pyrrhotite and arsenopyrite in the vein. The Salmons East and Salmons West veins in this section contain mineralisation in the possible and inferred ore category. Vein widths are usually narrower than in the Salmons Vein.

South of the Murchison Highway the general geology is less known at this stage. However Calc pelites etc similar to the central section occur in drillholes and strike is generally east of north. The veins again intersect the western boundary of the talc carbonate horizon.

It is interesting to note that the talc carbonate horizon may have some influence on the concentration of tin mineralisation in the veins in the central and southern section. In the following four drillholes intersections significant tin mineralisation occurs in veins at the margin of the talc carbonates (where veins transgress from or into the talc carbonate horizon).

Drillhole	Geochem Intercept width	Sn grade	Vein, comment
RBE 34	135-137.5 (2.5m)	0.432%	SVE at western margin TC
RRE 16	271-273.4 (2.4m)	1.2487%	Sal V at eastern margin TC
RBE 36	153.5-156.0 (2.5m)	0.4722%	Sal V at eastern margin TC
RBE 26	264.7-271.1 (6.4m)	0.3005%	Sal V at western margin TC

* Peak values for Sn in the above intersections range 1.2% to 3.5%.

5. ZONING/MINERALOGY

Mineralisation in the Pieman Tin and Salmons Vein structure is concentrated in the outer zone of the thermal metamorphic aureole of an underlying granite/adamellite body. Drillhole information at East Renison shows the metamorphic aureole to be +/- 700m wide and that the mineralisation is concentrated 500m to 1100m above the granite surface. A longitudinal section about the axis of the vein structure (TAS/2/3901) shows the granite surface dipping northwards from a point between RBE 10A and RBE 18. Probable ore blocks indicated in this report lie above and north of this "break point", outside the zone of hornfelsing. The plunge of the mineralisation in the Pieman Tin Vein is northwards, whilst in the Salmons polymetallic vein section it is southwards.

Hornfelsing of the country rock is characterised by phlogopite-chlorite-actinolite-tremolite assemblages. Pyrrhotite is the dominant sulphide in the hornfelsed aureole, whilst pyrite veinlets and disseminations dominate outside the aureole. Close to the granite contact biotite-cordierite-phlogopite assemblages and local skarn assemblages containing traces of tungsten (scheelite) are developed. Vein assemblages in the granite contain both traces of cassiterite and scheelite.

Within the Pieman Tin and Salmons Vein structure, zoning is three dimensional. Generally, across the veins from west to east the assemblage is characterised by calcite, then calcite-quartz, quartz-ankerite-siderite, and in the tin vein in the north, quartz. The dominant sulphide assemblage from west to east is galena-sphalerite, arsenopyrite-pyrrhotite-chalcopyrite, and in the tin vein arsenopyrite.

Lead to zinc ratios generally decrease outward from a core of lead rich ore centred on drillholes RBE 5 and RBE 10A. This is reflected in the higher Zn values relative to Pb in possible ore category in the Salmons Vein, south of the Murchison Highway (Table 5), and in the spasmodic association of sphalerite with the tin vein in the north.

The lead rich core section of the Salmons Vein in RBE 5 and RBE 10A has the following mineralogical composition and assay values. (From "Preliminary Mineralogical and Metallurgical Evaluation of two samples of Lead-Zinc ore" Amdel, March 1981).

Mineral	RBE 5	Assay	RBE 10A	Assay
Quartz %	35-40		30	
Siderite -	25-30		35	
Chrochrosite %				
Pyromorphite %	5		2	
Chlorite %	-		2	
Galena %	23	Pb 20.3%	18	Pb 15.4%
Sphalerite %	6	Zn 3.54%	6	Zn 3.59%
Chalcopyrite %	0.5	Cu 0.18%	0.5	Cu 0.19%
Arsenopyrite %	1.3	As 0.58%	1.0	As 0.48%
Pyrite & minor	1.5-2.0	Ag 543 ppm	1.0-1.5	Ag 406 ppm
Cassiterite %				
Pyrrhotite	-	Sn 441 ppm	4-5	Sn 524 ppm
Tetrahedrite	Trace		Trace	

Pyrrhotite and/or arsenopyrite forms a significant percentage of the Salmons Vein composition southwards of the drillhole section RBE 31 - RBE 12. (referred to earlier). The increase is probably due to two factors.

a) The vein becoming hosted by Talc Carbonate

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- b) Plunge of the mineralisation towards the hornfelsed aureole.

Ag has an unusual distribution pattern in that Ag values are not always associated with lead values and in some respects show a distribution pattern similar to zinc and tin.

From a metallurgical view point testing has shown free milling characteristics in the lead rich section of the vein. Sphalerite and galena grains average 2mm wide. Limited mineralogy analyses indicates that rhodochrosite and bustamite increase as gangue minerals (relative to siderite) to the south of the lead rich section. In the Pieman Tin Vein cassiterite is fine grained averaging 100u to 200u. Stannite occurs as rare films on fractures. In RBE 3 small specks have tentatively been identified as bismuthinite. Tin in the Salmons Vein where it occurs appears to be coarse. In RBE 16 cassiterite grains average 0.5mm (500u), forming compact aggregates in the order 5 x 10mm. The eighteen samples from the vein structure submitted for mineralogical examination are listed in Appendix 1.

Veining throughout is multi phase. Barren quartz stoping may contribute significantly to vein width compared with geochemical width. Though more than three phases have been recognised the paragenetic sequence appears to be the following:-

- a) Quartz-arsenopyrite-cassiterite veining predating
- b) Quartz-siderite-ankerite-galena-(sphalerite). Some sphalerite may occur at a different stage.
- c) Late barren quartz.

Wall rock alteration to the veins is virtually absent. However Pyrrhotite replacement accompanied by silicification and geochemical tin values occurs adjacent to the tin vein in RBE 33, and pyrrhotite replacement without cassiterite occurs in RBE 3. Spongy sphalerite replaces black carbonaceous pyritic shales adjacent to the Tin Vein and Salmons Vein in RBE 38. (In both cases a narrow marginal zone to the veins assayed 14% Zn. The veins are 60-70m apart).

6. AVAILABLE DATA FOR RESERVE CALCULATIONS

- a) Earlier references to the Pieman Tin and Salmons Vein are listed.
- b) Drillhole geochemistry results are computer listed.

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- c) A dollar equivalent value of the geochemistry results above are computer listed. The file is based on the following US \$ prices.

Sn	\$13 250 per t.
Cu	\$ 1 924 per t
Pb	\$ 724 per t
Zn	\$ 1 058 per t
Ag	\$12.65 per oz

A cut off value for calculation purposes has been set at \$35.

- d) Pieman Tin Vein and Salmons Vein length weighted values are computer filed; their processing is incomplete. Where true width is less than 2m, dollar equivalent values and geochemical values have been diluted to 2m with zero dollars or grade.
- e) 265 specific gravity measurements have been done. These are listed in computer files with the drillhole geochemistry. SG's range from 2.76 to 5.92. In this review conservative SG's of 3 and 3.4 have been used respectively for the Pieman Tin Vein and Salmons Vein.
- f) Drillhole cross sections in detail at 1:1 000 are available from RBE 40 in the north to RBE 19 at the Highway. Three representative sections are included in this review. The system is also depicted in long section.

7. RESERVE CALCULATIONS

7.1 Definition

Ore in the probable category in this review is ore that has been tested sufficiently by a relative high density of drillhole intersections and in the case of the Pieman Tin Vein substantiated near surface by channel sampling, such that further drilling would be unlikely to change the tonnage or grade indicated in the blocks to any significant degree. It differs from the standard definition in that it is not near at hand to "proved" ore. It agrees with the standard definition in that "ore will probably be found but where the extent and limiting conditions cannot be so precisely defined as for "proved" ore.

Possible ore in this review lies adjacent to probable ore where drillhole intersections of ore are too widely spaced to indicate certainty of overall tonnage and grade. The term "possible" ore here agrees with the standard definition in that it is adjacent to probable ore, it is not classified as Reserve ore, and that "geologic structures warrant some presumption that ore will be found. Inferred ore in this review is not discussed, though ore in this category may occur marginal to possible ore defined. Ore in the inferred category is also known in other structures in the East Renison tenement. (Highway Adit, Exe Proprietary Mine Vein, refer to TAS/2/3899).

7.2 Pieman Tin Vein

Resource figures for probable and possible ore are shown in tables 1 to 4. The resource blocks are shown in both longitudinal and plan views on TAS/2/4029 and TAS/2/4030.

The probable ore block contains 433,948 tonnes at 0.9987% Sn (1% Sn). Refer to Table 4. Criteria defining the probable ore block are:-

- a) Drillhole intersections and near surface channel samples with plus \$35 Sn over a minimum true width of 2m. (4 drillhole intersections; surface channel samples in Block A; and in Block E, a known branch vein).
- b) Geology. Consistency of vein width and grade Sn coincides with the vein intersection of black pyritic carbonaceous shales and its immediate overlying transitional unit to Calc pelites (plan TAS/2/3969 and TAS/2/3970).

The branch vein included in the probable ore category (Block E. 96,480t at 0.418% Sn) extends SSE, west of the tin vein. The intersection of the two veins, determined at surface, plunges 99 to 105°m at a dip of 53 to 55°. The full strike extent of the branch vein is unknown.

Ore in the possible category forms an envelope around the probable ore in longitudinal section (TAS/2/4029). The possible ore category contains 744 ,918 tonnes at 0.2977% Sn (0.3% Sn). Refer to Table 3.

Possible ore falls into three zones of uncertainty:-

- a) Vein geochemistry width. In RBE 38, RBE 32, RBE 8, RBE 3 tin grades are sufficiently high over narrow width though fail to show plus 0.3% Sn over a true width of 2m. Several of these intersections however contain appreciable zinc accompanying the tin, and diluted total metal equivalent \$ values are greater than \$35 eg RBE 38, RBE 3.
- b) Shallow testing and interruption by faulting. Blocks RBE 48, RBE 7 and Block C (TAS/2/4030) contain 52,482 tonnes at plus 1.2% Sn. However the zone straddles the fault between the Pieman Tin Vein section and the Salmons Vein Pb-Zn section where 60 to 70 metres of displacement are known. A trench in Block C indicates that the block alone may contain 87,840 tonnes or more at 0.73% Sn (refer to Table 2 Block C, and trench on plan TAS/2/4030). Thus there is uncertainty of volume in this zone and to what depth it may extend.

c) Branch veining. Block D includes a branch vein exposed at surface, in an adit above the drillhole trace of RBE 3 and intersected in RBE 3. Mapping in the adit indicates irregularities in the vein and it is uncertain how the vein intersects with the Pieman Tin Vein. However the vein appears to strike NNE, east of the Tin Vein and the intersection angle of the two veins approximates - plunge 123 deg m @ 38 deg dip (for branch veins, Pieman Tin Vein intercept angle refer to Wulf net plot of veins TAS/2/4035).

The Tin Vein contains the metals which characterise the Salmons Vein. Not all holes or channel samples were analysed for these elements but on a length weighted basis they may average 0.18% Cu; 0.06% Pb; 0.32% Zn, 8 ppm Ag. This emphasises the genetic cohesiveness of the Tin/Salmons system but will not significantly influence the revenue possible from the Tin Vein.

7.3 Salmons Vein

Resource figures for probable and possible ore are shown in Tables 5 to 9 and on longitudinal section plan TAS/2/4031.

The probable ore category of the Salmons Vein contains 830,222 tonnes with -

	Sn	0.187%
	Cu	0.615%
	Pb	3.173%
	Zn	2.241%
Ag	104 ppm	(3.3 oz t)

Criteria defining the probable ore lens are -

- a) Sufficient number of drillholes. The block defined on TAS/2/4031 is 420m in length and 150-200m deep and has been tested on two levels by thirteen drillholes. A third level of drillholes shows that the ore pinches out in depth.
- b) Vein width and polymetallic grade. Mineralisation has a true width greater than 2m and there is no necessity to dilute values to 2m. Further drilling would not significantly change the tonnage and grade shown except for the possibility of tin rich shoots on the margin of the talc carbonate.

Ore in the possible category does not form an envelope around the probable ore, but extends south of the block along strike for a further 800m. Only eight drillholes test this zone. The drillholes suggest -

- a) That polymetallic mineralisation continues, but rather than being lead rich, the ore is relatively zinc rich.
- b) The possibility of tin rich ore shoots on the margins of the talc carbonate horizon where vein "cross overs" occur, similar to that in the probable ore block.

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c) Vein width is not consistently wider than 2m.

The following parameters indicate a possible tonnage of 816,000 tonnes -

Vein width 2m, strike 800m, depth 150m.

An indication of grade is presented in Table 5 where analytical values are listed. Most are subeconomic but demonstrate the persistence of the system even with the widespread drill pattern.

7.4 Salmons Vein East, Salmons Vein West

No probable ore has been defined. Possible ore expressed in dollar equivalent total metal values for each block are shown in Tables 8 and 9. The location of the ore is shown on longitudinal section TAS/2/4032. A possible resource of 233,750 tonnes at \$69.13 TMV is indicated for the Salmons Vein East, whilst to the south, ore in Salmons Vein West is too patchy to compute a resource figure. The Salmons Vein East ore block parallels the Salmons Vein probable ore block.

8. CONCLUSIONS AND RECOMMENDATIONS

The Pieman Tin Vein and Salmons Vein intersects Cambrian Upper Crimson Creek Formation sediments. Mineralisation in the veins is concentrated at a level between 500m and 1100m above an underlying granite/adamellite body in the outer zone of the contact metamorphic aureole. The central core of the mineralisation is lead rich, the block of probable polymetallic ore forming a lens 420m long x 150m to 200m deep. Tin mineralisation in the probable/possible ore category extends to the NNW of the central core area, and polymetallic mineralisation in the possible category extends to the south. In equivalent dollar value terms tin mineralisation in the Salmons Vein contributes equally with other metals present. The Pieman Tin Vein and Salmons Vein structure has a known strike length of 1.5 km.

There is a limited possibility of replacement style mineralisation occurring adjacent to the veins in the north section, where veins intersect black carbonaceous pyritic shales and immediate overlying transitional units to impure calc pelite horizons. Replacement minerals known are pyrrhotite, sphalerite and to a lesser extent cassiterite.

It is recommended that

- a) The data presented here be used as the basis for an updated indicative economic study. The objective would be to define - both the likely economic merits of the resource and a doubled resource.
- b) That the study **specifically** looks at the economics of processing the Pieman and Salmons Vein ore through a single plant.

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- c) That further exploration directed towards the resource only be undertaken on receipt of a favourable Indicative Economic Study.



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APPENDIX 1

List of mineralogy descriptions available on the veins.

Sample No	Drillhole	Depth	Mineralogist/Lab	Vein
-	RBE 3	85.5m	KL Williams Univ of Sydney 1980	Wall rock alt-Tin Vein
T 8223	RBE 3	32.6m	Pontifex & Assoc Pty Ltd Report No 28/6/80	Branch vein of Tin Vein
T 8227	RBE 3	91.5m	" " "	Tin Vein
T 8232	RBE 5	163.0m	" " "	Salmons V zone
T 8361	RBE 10A	244.0m	Report CMS 80/8/33	" " "
T 8362	RBE 10A	225.05- 225.15	" " "	" " "
T 9503	RBE 16	272.1m	Pontifex & Assoc Pty Ltd Report 3203	Tin Vein correlate
T 9504	RBE 16	272.4m	Report No 3203	Tin Vein correlate
T 9384	RBE 17	232.4m	Report CMS 80/12/16	Wall rock of SWV
T 9385	RBE 17	233.4m	" " "	Margins SWV
T 9387	RBE 18	193.55m	" " "	Salmons V
correlate				
T 9564	RBE 21	304.05- 304.1m	Report CMS 81/4/19	Salmons V West
T 9571	RBE 21	219.2-	" " "	Marginal to
Salmons				
		219.25m		Vein
Z 0449	RBE 33	254.6m	Report CMS 82/10/2	Marginal to Tin V
Z 0450	RBE 33	257.4m	" " "	Tin Vein
Z 0450	RBE 33	257.4m	" " "	Wall rock alt -Tin Vein
Z 0451	RBE 33	259m	" " "	Tin Vein
Z 0451	RBE 33	259m	" " "	Tin Vein (opaques)

Table I

Piemar Tin vein drillhole intersections

Sn values as percent; total metal equivalent \$ values (for Sn, Cu, Pb, Zn, Ag) for Piemar tin vein intercepts. actual and diluted values are given where vein geochemistry width is less than 2m.

a Hole No	b drillhole width of vein.	c Geochemistry width used.	d Intercept angle, hole \bar{z} vein.	e		f Sn % per interval c.	g Total metal \$ value per interval c	h	
				True width				Values diluted to 2m width where f less than 2m.	
				Vein	Geochem			Sn %	T.M.V.
RBE 48	18.7 - 21.0 (2.3m)	18.7 - 21.0 (2.3m)	26°	1.0	1.0	4.83	643.67	2.415	321.83
RBE 3	90.9 - 91.6 (0.7m)	91 - 92 (1.0m)	42°	0.47	0.67	0.415	108.59	0.139	36.38
RBE 8	161.2 - 162.2 (1.0m)	161 - 162.2 (1.2m)	53°	0.8	0.96	0.624	96.33	0.299	46.24
RBE 32	488.25 - 491.5 (3.2m)	488.9 - 489.7 (0.8m)	38°	2.0	0.49	0.99	132.64	0.242	32.50
RBE 25	268.56 - 271 (2.44m)	269.2 - 271.0 (1.8m)	60°	2.1	1.56	1.943	262.29	1.515	204.58
RBE 41	122.7 - 125.5 (2.8m)	122.6 - 126.4 (3.8m)	40°	1.8	2.44	0.629	88.06	0.629*	88.06 *
RBE 33	252.25 - 259.75 (7.5m)	252.4 - 259.8 (7.4m)	43°	3.75	3.68	1.57	218.60	1.57*	218.60 *
DDH <u>X1</u>	109.12 - 112.17 (3.05m)	110.6 - 112.2 (1.6m)	83°	3.03	1.59	0.845	112.63	0.672	89.54 +
RBE 38	305.95 - 308.85 (2.9m)	306 - 309 (3m)	28°	1.36	1.41	0.260	102.98	0.183	72.60

\$ 134.58

* No dilution necessary.
 + Sn in intersection only metal analysed. This total \$ metal value = Sn value.

Column b, vein as defined by geology.
 Length (diluted to 2m where under 2) = 23.2m

TABLE 2.

Surface trench and acid channel sample results used in ore evaluation for near surface ore blocks. Blocks D and E incorporate drillhole and surface geochemistry results from known branch veins. These have been included in the evaluation (Refer to plans) ^{Planes for vein evaluation}

Sample No.	Eastings	Northings	Sn % per sample	Sample width in m	Resource Block	Block length	Depth of vein in m	Resource Block calculations				SAMPLE NUMBER
								Tonnes per vertical m	depth of block in m	Tonnes per block	Weighted av.	
Z2180	372 755	5373 077	0.35	* 1.05								
Z2181	756	077	0.055	* 1.2								
Z2182	759	064	1.26	* 1.2								
Z2183	760	064	0.81	* 1.2								
Z2184	766	056	0.11	0.9								
Z2185	772.5	054.5	0.046	* 1.1								
Z2186	772	054	0.505	* 1.2								
Z2187	775	048.5	0.39	* 1.2								
Z2188	776.5	048.5	0.54	* 1.4	A	173m	2.47	1282	42	53841	0.445% *	* Adjacent channel samples across fully exposed vein. Used to calculate Resource figures
Z2189	779	046	2.085	1.3				1038		43596	0.539% +	+ Sn value using all samples based on vein width 2m.
Z2190	783	042	0.55	1.1								
Z2191	782.5	036	0.205	* 1.5								
Z2192	790.5	036	0.3	* 1.3								
Z2193	805.5	022.5	0.665	0.6								
Z2194	810.5	019	0.465	1.5								
Z2178	752.5	051.5	0.405	1.4								
Z2179	372 785	5373 047.5	0.0202	1.1								
				20.25								
				* 12.35								
Z2195	372 849	5372 965	0.595	0.7								
Z2196	851	763	0.665	0.6								
Z2197	848	965	0.325	1.0								
Z2115	900.5	902	0.17	0.9	B	171m	1m	513	37	18,981	0.279%	
Z2101	907.5	891	0.37	0.2				1026		37,962	0.139% *	* = Diluted to 2m.
Z2102	909	895	0.45	3.2								
Z2056	372 941.5	5372 551	0.316	(0.35)								
				6.95								
Z2136	372 948.5	5372 760	1.63	(0.4)								
Z2137	951.5	775	0.145	0.12								
Z2140	956.5	768	0.19	0.6								
Z2119	949	742.5	2.8	* 2.0								
Z2134	951	742	0.255	* 2.0								
Z2120	953	741	0.745	* 2.0	C	80m	2.7m	648	30	19440	0.730%	← Conservative fig used, the vein
Z2135	954	740.5	0.215	* 2.0			* 12.2m	2928		87840	0.7346% *	* Indicates geochem width in trench across veins (several consecutive channel S.
Z2121	956	740	0.125	* 2.0								
Z2094	957.5	739	0.455	* 1.5								
Z2195	958.5	715.5	0.16	* 0.7								
Z2059	372 967	5372 783	0.399	(0.4)								
				13.72								
				12.2								
BRANCH VEIN												
Z2084	372 939.5	5372 385.5	0.667	2.0								
Z2086		5372 380	0.901	(1.0)	D	60	0.74m	133	50	6650	0.815%	
RBE 3	318-329	1.1m	1.1	0.736				360		18000	0.302% *	* = Diluted to 2m.
				3.736								
BRANCH VEIN												
Z2173	372 785	5373 015	0.385	0.795								
RBE 32	335-338	3m	0.195	2.487	E	60	1.77	318.6	268	85384.8	0.4729%	
RBE 25	244-248	0.8m	0.548	0.736				360.0		96,480	0.418% *	* = Diluted to 2m.
RDE 41	1103-1105	5.66m	5.66	0.175								
DDH X1	127.4-130.5	3.1m	0.409	2.89								
				7.083								
										Note	To calculate average grade $\frac{\sum PT}{\sum T}$ where P is grade of sample, T is true thickness	

017

164018

Table 3

Piemont vein.

Resource Blocks - Probable and possible ore categories.

For grade refer to tables 1 to 3. Ore blocks shown
on plans Tas/2/ and Tas/2/

PROBABLE CATEGORY.

Resource Block	Sn %	Total metal \$ value	exposed width	Resource block calculations			
				Strike length m	depth m	tonnes	+ grade
A	0.445	-	2.47	173	42	53,841	23,959.271
X1	0.672	89.54	2	112	65	43,680	29,352.96
RBE41	0.629	88.06	2.44	62	78	35,399.52	22,266.298
RBE25	1.515	204.58	2	82	136	66,912	101,371.68
RBE33	1.57	218.60	3.68	91	137	137,635.68	216,088.01
Block E	0.418	-	2	60	268	96,480	40,328.64
						433,948.2	433,366.85

0.9987% Sn

Possible category.

RBE38	0.183	102.98	2	66	270	106,920	19,566.36
RBE32	0.242	32.50	2	253	264	400,752	96,981.984
RBE8	0.299	46.24	2	79	156	73,944	22,109.256
RBE3	0.139	36.38	2	91	170	92,820	12,901.98
RBE48	2.415	321.83	2	55	54	17,820	43,035.3
RBE7	0.498	64.29	2	43	59	15,222	7,580.556
Block C	0.73	-	2.7	80	30	19,440	14,191.2
Block D	0.302	-	2	60	50	18,000	5,436
						744,918	221,802.62

0.2977

Table 4
Salmons Vein.

Vein intercepts, calculated true width and total metal equivalent \$ value.

PROBABLE ORE CATEGORY.

Hole No	Intercept width of vein. m.	Graben width of vein.	Intercept angle.	True width	Total metal equivalent \$ value.	TME \$ value diluted with 80 if TW less 2m
RBE 7	80.7 - 86.9	81 - 84 (3m)	43°	2.04	155.19	
RBE 5	157.3 - 162.1	160.6 - 170 (9.4m)	43°	6.41	193.45	9m probable ore category
RBE 9	192.6 - 195.6	191.3 - 195.6 (4.3m)	33°	2.34	135.07	ore category
RBE 30	88.4 - 92.8	88.4 - 92.8 (4.4m)	40°	2.82	105.31	T.W. all grade than 2m.
RBE 10A	220. - 225.1	220. - 225.4 (5.4m)	40°	3.47	305.6	
RBE 3L	87.1 - 94.5	87 - 91.7 (4.7m)	40°	3.02	110.06	
RBE 11	208.8 - 216.5	209.1 - 215.4 (6.3m)	42°	4.21	77.06	
RBE 31	134.3 - 139.8	135.6 - 139.8 (4.2m)	59°	3.60	53.7	
RBE 12	230.2 - 233.4	230.7 - 233.4 (2.7m)	64°	2.43	70.07	
RBE 14	253.8 - 256.6	256. - 257.3 (3.3m)	69°	3.08	288.	
RBE 36	154.45 - 156.8	154.5 - 158.7 (4.2m)	66°	3.83	112.35	
RBE 15	260.1 - 265.4	260.4 - 265.5 (5.1m)	59°	4.37	48.72	
RBE 16	272 - 277.8	272. - 277.8 (5.8m)	55°	4.75	108.31	

Probable Ore Category.

RBE 37	95.45 - 100m.	97.2 - 97.7 (0.5m)	51°	0.39	115.41	22.5
RBE 17		225.8 - 227.5 (1.7m)	55° x	1.39	44.87	31.18
RBE 18		235.5 - 236.8 (1.3m)	55° x	1.06	52.12	27.62
RBE 19		295 - 298.4 (3.4m)	55° x	3.11	42.04	42.04
RBE 21		214.7 - 215.8 (1.1m)	35° x	0.63	110.63	34.85.
RBE 26	266.7 - 271.6m	265.0 - 271.1 (6.1m)	55° x	4.75	76.4	76.4
RBE 28		445. - 451 (3m)	55° x	2.48	90.83	90.83.
RBE 27		429. - 429.9 (0.9m)	55° x	0.74.	321.76.	119.05

Hole x intercept angle obtained by assuming dip of vein 80° W, dip of hole 45°

Table 6

Salmons Vein

Area and tonnage influence of each drillhole block.

PROBABLE ORE.

a	b	c	d	e
Block No	True width	area. (sqm) Ref: Tas/2/3	Volume. (b x c)	tonnes. d x SG 3.4
RBE 7	2.06	6000	12,240	4,161.6
RBE 5	6.61	2948	18,896.68	64,248.712
RBE 9	2.34	3740	8,751.6	29,755.44
RBE 30	2.82	4712	13,287.84	45,178.656
RBE 10A	3.47	4460	15,476.2	52,619.08
RBE 34	3.02	4692	14,169.84	48,177.456
RBE 11	4.21	7276	30,631.96	104,148.66
RBE 31	3.60	4864	17,510.4	59,535.36
RBE 12	2.43	5460	13,267.8	45,110.52
RBE 14	3.08	4100	12,628	42,935.2
RBE 36	3.83	6608	25,308.64	86,049.376
RBE 15	4.37	4730	20,670.1	70,278.34
RBE 16	4.75	8704	41,344	140,569.6
			244,183.06	830,222.38

Possible Ore

RBE 37	0.39			
RBE 17	1.39			
RBE 18	1.06			
RBE 19	3.11			
RBE 21	0.63			
RBE 26	4.75			
RBE 28	2.48			
RBE 27	0.74			
			Block considered as a whole DPHs widely spaced. Area 800m strike x 150m depth. Vein width 2m. Volume 240,000 S.G. 3.4 Tonnage. 816,000.	

Table 7
Salmons Vein.

Length and S.G. weighted tonnes and grade per. drillhole block.

PROBABLE ORE.

Hole No	tonnes.	Sn x t	Cu x t	Pb x t	Zn x t	Ag x t	As x t
RBE 7	41,616	998.784	3,362.57	519,367.68	162,718.56	19,14,336	19,422.187
RBE 5	64,248.712	2,711.296	5,184.871	758,777.28	190,433.18	1,564,768	24,742.178
RBE 9	29,755.44	791.495	1,154.511	146,753.83	73,495.936	4,76,0870.4	33,326.092
RBE 30	45,178.656	3,627.846	16,539.905	47,392.41	15,1574.39	4,924,473.5	14,8999.2
RBE10A	52,619.08	2,157.382	8,950.506	70,991.38	225,630.61	20,047,869	27,098.826
RBE 34	48,177.456	3,772.295	11,923.92	116,589.44	138,462	5,588,584.8	46,076.918
RBE 11	104,148.66	7,238.332	7,738.245	127,998.7	360,979.25	5,31,1581.6	135,289.1
RBE 31	59,535.36	9,704.2636	58,898.331	3,637.61	14,467.092	1,488,384	116,510.69
RBE 12	45,110.52	6,324.495	59,455.665	13,082.05	62,162.296	1,037,541.9	115,663.37
RBE 14	42,935.2	4,714.285	71,401.237	128,376.24	103,130.35	20,523,025	20,256.827
RBE 36	86,049.376	24,291.738	225,449.36	1,540.284	6,797.911	4,990,863.8	645,542.41
RBE 15	70,275.34	5,179.514	23,845.44	21,083.502	129,241.86	1,827,236.8	70,418.896
RBE 16	140,569.6	83,596.741	16,938.636	48,693.309	241,779.71	2,249,113.6	62,595.642
	830,222.35	155,108.46	510,843.17	2,634,283.3	1,860,872.8	86,228,643	1465,942
Metd values		0.1868%	0.6153%	3.1730%	2.2414%	104 ppm	1.7657%

Table 8
Salmons vein East

Possible ore expressed in total metal \$ equivalent value.

Hole	Rag interval		Total \$ value	Intercept angle	True width	value in \$ diluted in 80 to 2m.
	from - to	m.				
7	63-65m	2m	\$ 94.27	43°	1.36 m	\$ 64.29
9	156-159m	3m	\$ 108.54	52°	2.36 m	\$ 108.54
30	156.3-156.3m	2m	\$ 82.93	56°	1.65 m	\$ 68.75
11	233.6-235.5m	1.9m	\$ 65.64	55°	1.56 m	\$ 51.08
34	135.0-138.5m	3.5m	\$ 78.11	43°	2.38 m	\$ 78.11
23	442.1-444.5m	2.4m	\$ 59.2	64°	2.16 m	\$ 59.2
31	171.4-172.9m	1.5m	\$ 61.84	52°	1.18 m	\$ 36.54
12	271.8-272.8m	2.5m	\$ 86.53	60°	2.16 m	\$ 86.53
				Sum.	14.81	\$ 553.04

Area of S.V.E approximates. 275m x 125m.

Average width 1.85m diluted with 80 to 2m.

@ \$6913.

5.6 3.4

Possible Reserves = 233,750 tonnes.

Possibly accessible material if Salmons Vein exploited.

Note. RBE 7 63-65m included as ore Reserves Block in Permian Tin Vein zone evaluation.

Table 9

Salmon's Vein West

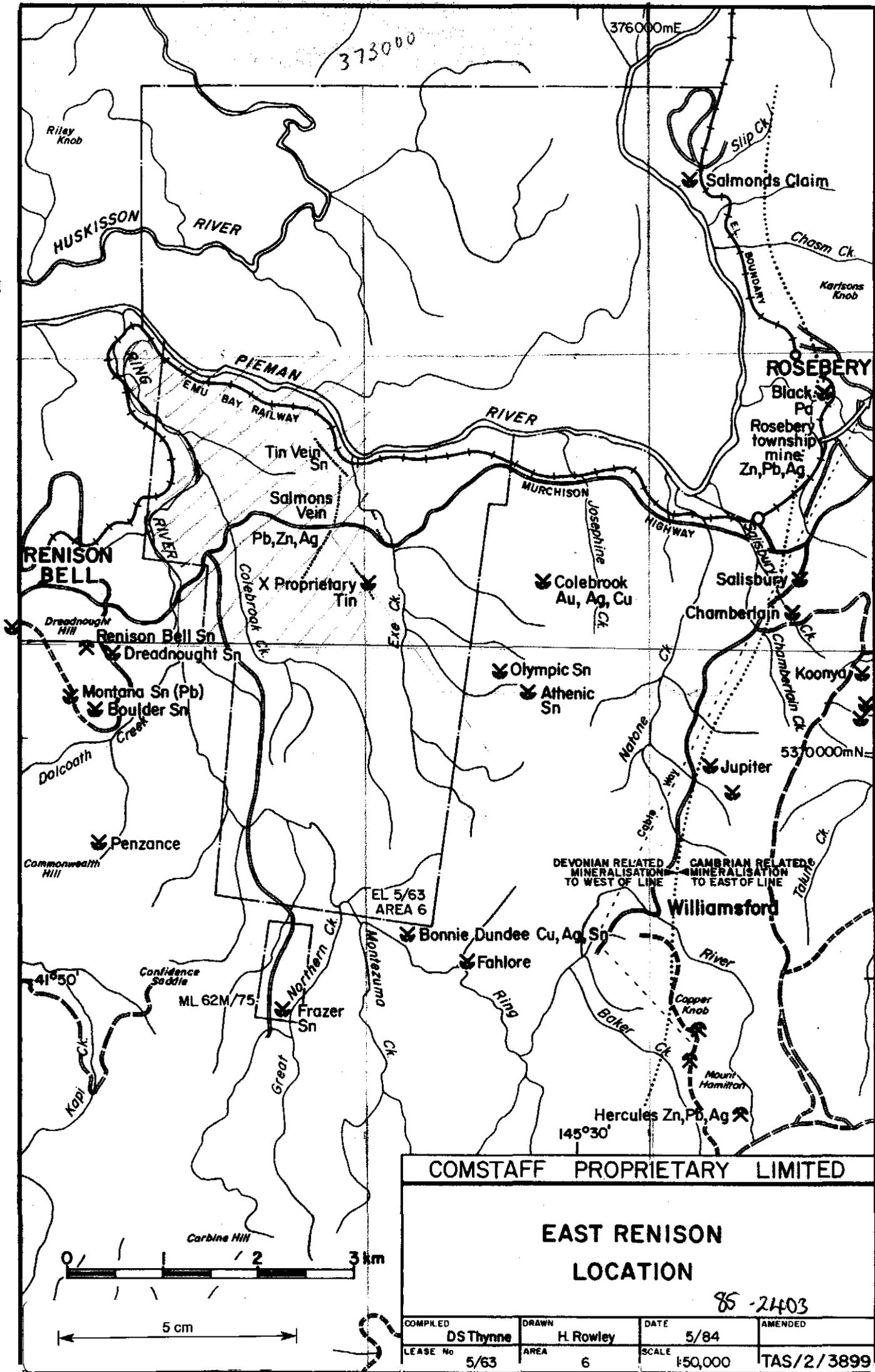
Possible Ore. expressed in total metal & equivalent values.

hole	Pay interval from - to m.	Total \$ value.	Intercept angle. accept 50° dip v 45° hole.	True width.	Value in \$ diluted in 90 to 2m.
27	392.1 - 393.1 1m	66.47	55°	0.82	24.6
28	430.8 - 432 1.2	153.13	55°	0.98	75
26	233.3 - 235.5 2.2	134.36	55°	1.8	121.
21	303.8 - 305.3 1.5	106.15	.	0.86	45.58
19	251.4 - 252.8 1.7	41.06	55°	1.4	28.74
18	184.5 - 188.3 3.8	103.0	55°	3.11	-
15	245.5 - 249 0.8	121.09	55°	0.66	39.96
12	217.0 - 218.3 1.3	86.55	55°	1.06	46.11
31	114.6 - 117.1 2.5	81.04	55°	2.05	-

Note. No Reserve Estimates as considered too patchy.
Accessible material maybe in RBE 18 and RBE 31.
if Salmon's vein exploited.

024

164025

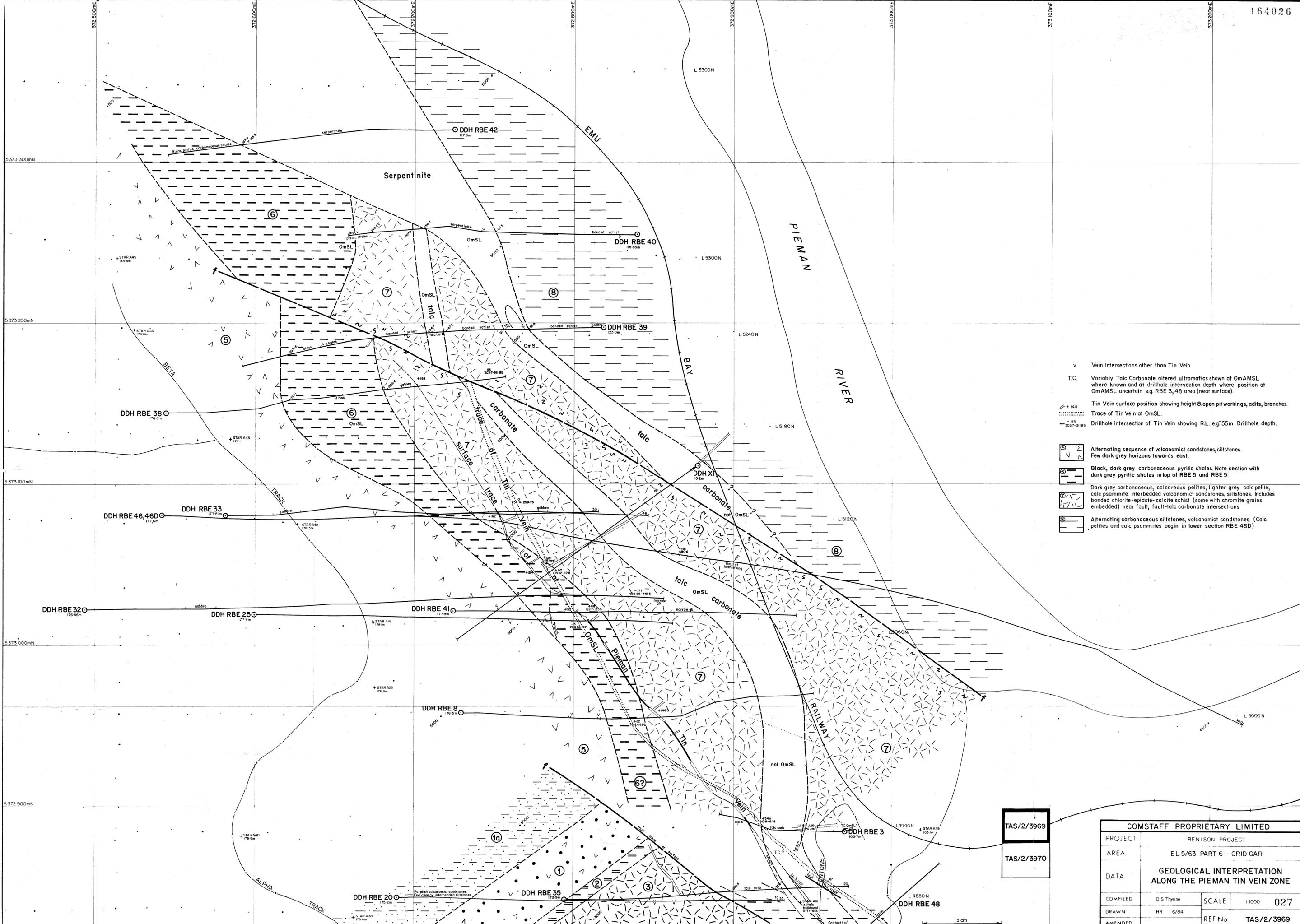


COMSTAFF PROPRIETARY LIMITED

EAST RENISON LOCATION

85-2403

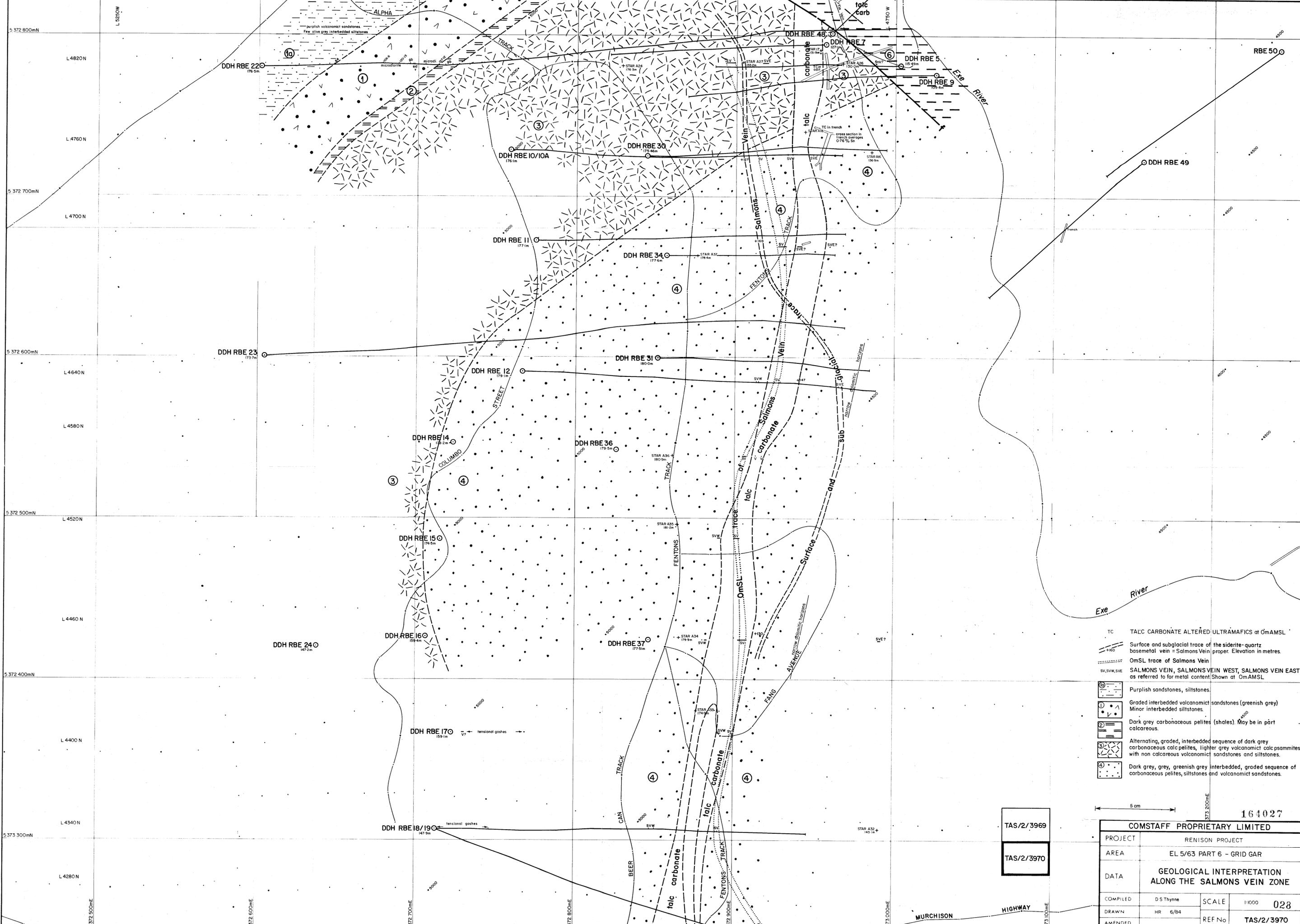
COMPLETED	DRAWN	DATE	AMENDED
DS Thynne	H. Rowley	5/84	
LEASE No	AREA	SCALE	
5/63	6	1:50,000	TAS/2/3899



- v Vein intersections other than Tin Vein.
- T.C. Variably Talc Carbonate altered ultramafics shown at OmAMSL where known and at drillhole intersection depth where position at OmAMSL uncertain e.g. RBE 3, 48 area (near surface).
- 148 Tin Vein surface position showing height @ open pit workings, adits, branches.
- Trace of Tin Vein at OmSL.
- 55 Drillhole intersection of Tin Vein showing RL. e.g. 55m Drillhole depth.
- ⑤ Alternating sequence of volcanoclastic sandstones, siltstones. Few dark grey horizons towards east.
- ⑥ Black, dark grey carbonaceous pyritic shales. Note section with dark grey pyritic shales in top of RBE 5 and RBE 9.
- ⑦ Dark grey carbonaceous, calcareous pelites, lighter grey calc pelite, calc psammite. Inter-bedded volcanoclastic sandstones, siltstones. Includes banded chlorite-epidote-calcite schist (some with chromite grains embedded) near fault, fault-talc carbonate intersections.
- ⑧ Alternating carbonaceous siltstones, volcanoclastic sandstones. (Calc pelites and calc psammites begin in lower section RBE 46D)

TAS/2/3969
TAS/2/3970

COMSTAFF PROPRIETARY LIMITED			
PROJECT	RENISON PROJECT		
AREA	EL 5/63 PART 6 - GRID GAR		
DATA	GEOLOGICAL INTERPRETATION ALONG THE PIEMAN TIN VEIN ZONE		
COMPILED	D.S. Thynne	SCALE	1:1000 027
DRAWN	HR 6/84	REF No	TAS/2/3969
AMENDED			

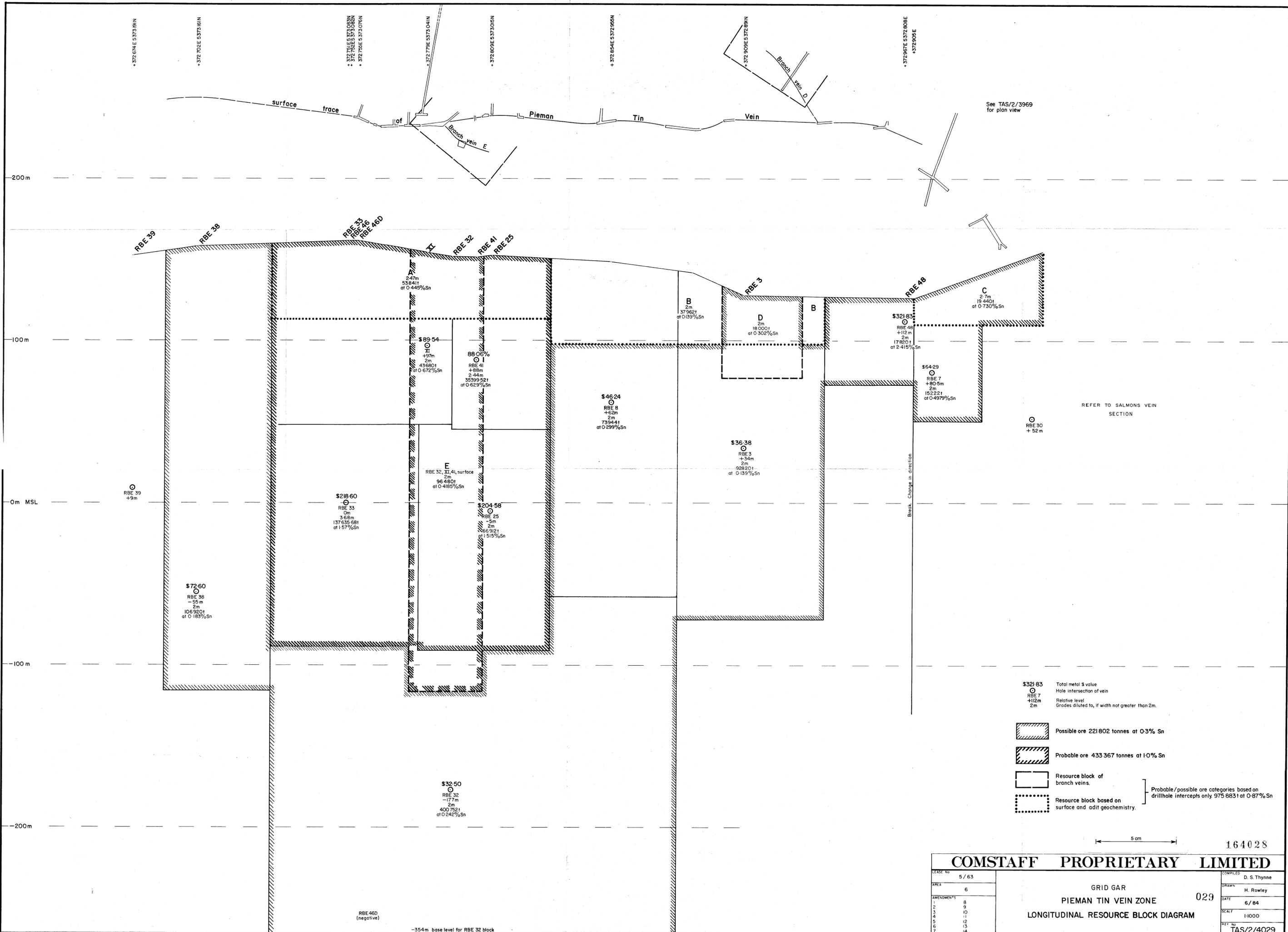


- TC TALC CARBONATE ALTERED ULTRAMAFICS at 0m AMSL
- Surface and subglacial trace of the siderite-quartz basemetal vein = Salmons Vein proper. Elevation in metres.
- OmSL trace of Salmons Vein
- SV, SVW, SVE SALMONS VEIN, SALMONS VEIN WEST, SALMONS VEIN EAST as referred to for metal content. Shown at 0m AMSL
- ① Purplish sandstones, siltstones.
- ② Graded interbedded volcanomict sandstones (greenish grey) Minor interbedded siltstones.
- ③ Dark grey carbonaceous pelites (shales). May be in part calcareous.
- ④ Alternating, graded, interbedded sequence of dark grey carbonaceous calc pelites, lighter grey volcanomict calc psammities with non calcareous volcanomict sandstones and siltstones.
- ⑤ Dark grey, grey, greenish grey interbedded, graded sequence of carbonaceous pelites, siltstones and volcanomict sandstones.

TAS/2/3969
TAS/2/3970

164027

COMSTAFF PROPRIETARY LIMITED			
PROJECT	RENISON PROJECT		
AREA	EL 5/63 PART 6 - GRID GAR		
DATA	GEOLOGICAL INTERPRETATION ALONG THE SALMONS VEIN ZONE		
COMPILED	D S Thynne	SCALE	1:1000 028
DRAWN	HR 6/84	REF No	TAS/2/3970
AMENDED			



See TAS/2/3969
for plan view

REFER TO SALMONS VEIN
SECTION

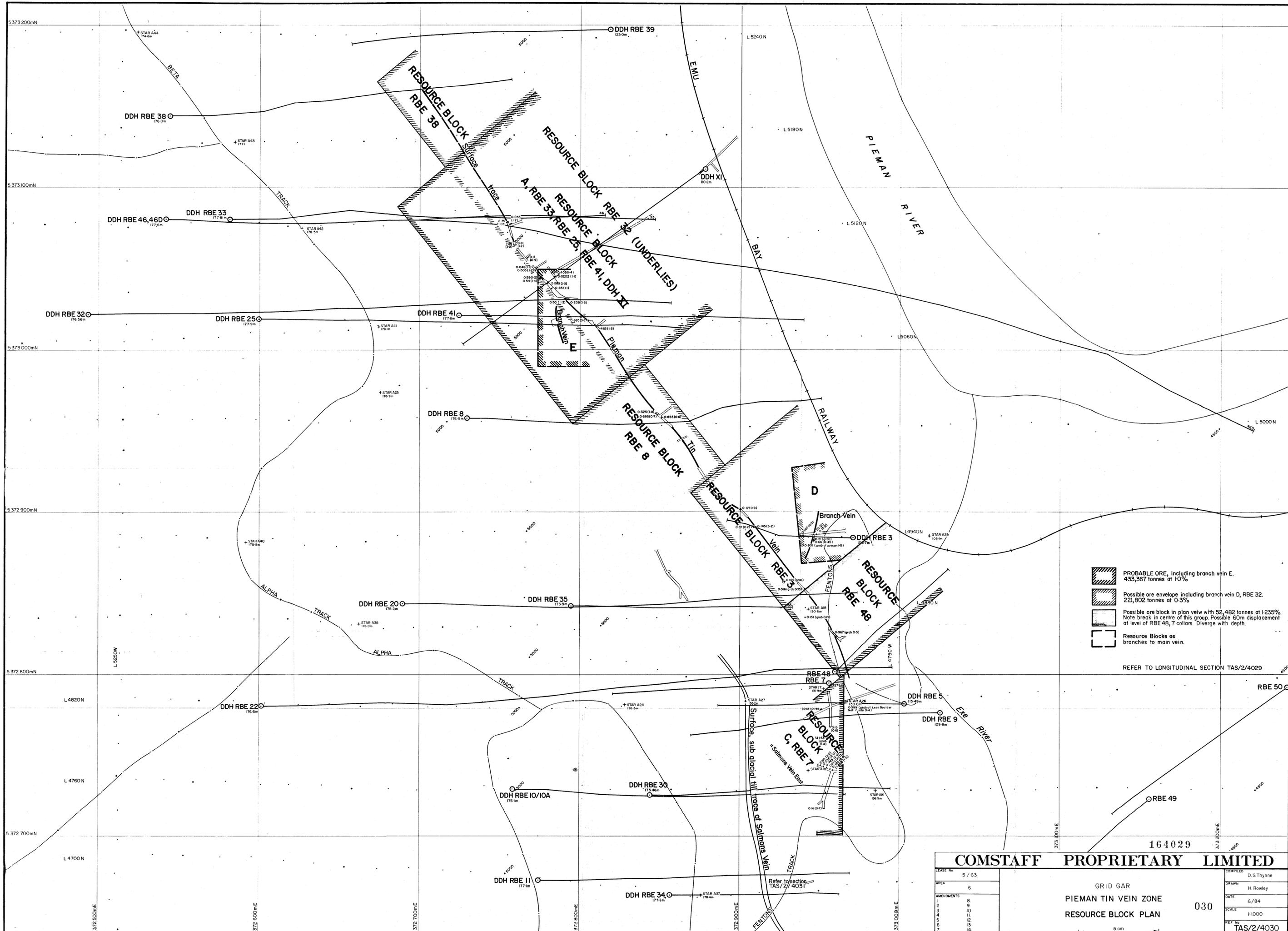
- | | |
|----------|--|
| \$321.83 | Total metal \$ value |
| ○ | Hole intersection of vein |
| RBE 7 | Relative level |
| +112m | Grades diluted to, if width not greater than 2m. |
| 2m | |
 - | | |
|--|--|
| | Possible ore 221 802 tonnes at 0.3% Sn |
| | Probable ore 433 367 tonnes at 1.0% Sn |
| | Resource block of branch veins. |
| | Resource block based on surface and adit geochemistry. |
- Probable/possible ore categories based on drillhole intercepts only 975 8831 at 0.87% Sn

5 cm

164028

COMSTAFF PROPRIETARY LIMITED	
LEASE No 5 / 63 AREA 6 AMENDMENTS 1 8 2 9 3 10 4 11 5 12 6 13 7 14	COMPILED D. S. Thynne DRAWN H. Rowley DATE 6 / 84 SCALE 1:1000 REF No TAS/2/4029
GRID GAR PIEMAN TIN VEIN ZONE LONGITUDINAL RESOURCE BLOCK DIAGRAM	
029	

35-2402



-  PROBABLE ORE, including branch vein E.
433,367 tonnes at 10%
-  Possible ore envelope including branch vein D, RBE 32.
221,802 tonnes at 0.3%
-  Possible ore block in plan view with 52,482 tonnes at 1235%.
Note break in centre of this group. Possible 50m displacement at level of RBE 48, 7 collars. Diverge with depth.
-  Resource Blocks as branches to main vein.

REFER TO LONGITUDINAL SECTION TAS/2/4029

164029

COMSTAFF PROPRIETARY LIMITED

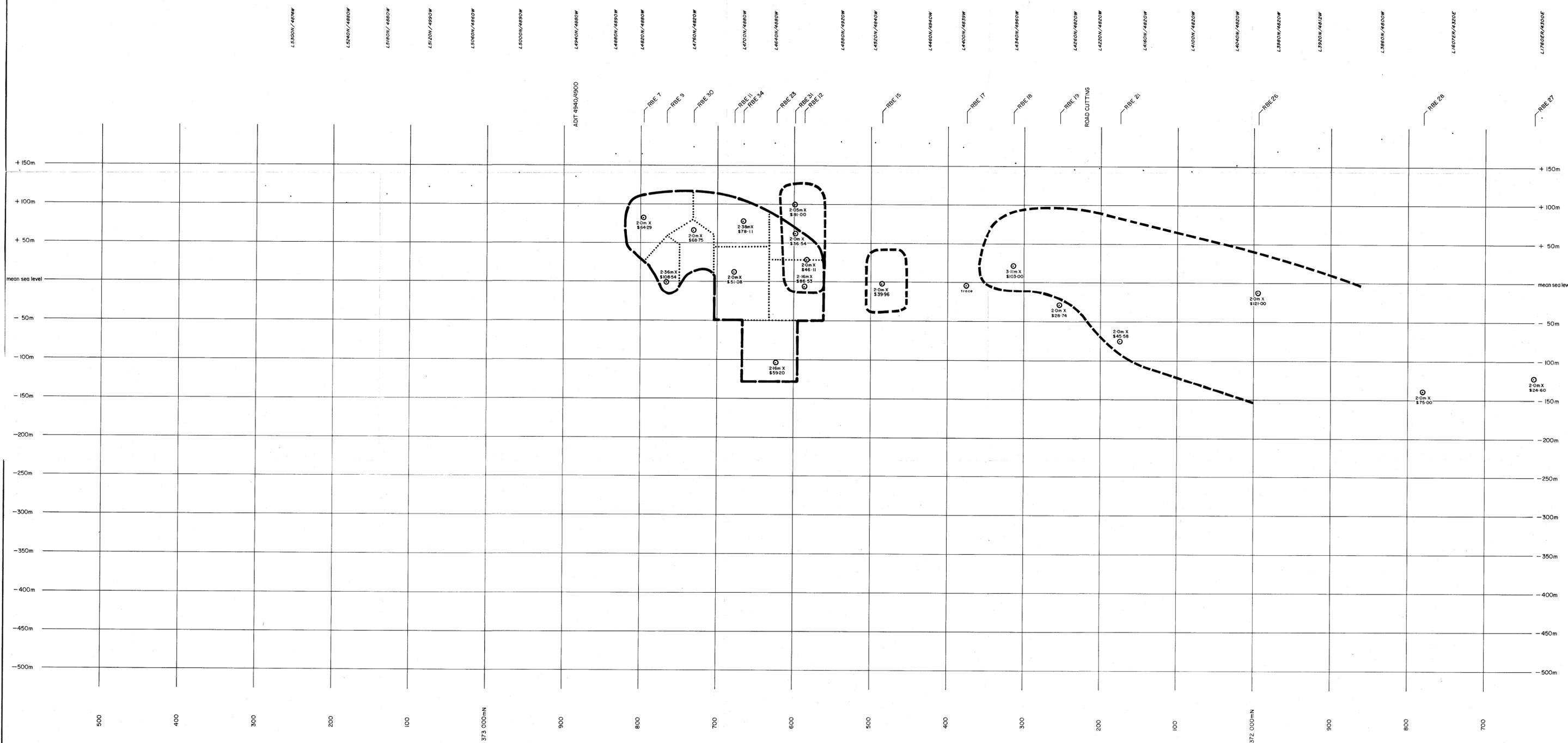
LEASE No	5 / 63	COMPILED	D.S.Thynne
AREA	6	DRAWN	H. Rowley
AMENDMENTS	9	DATE	6 / 84
	10	SCALE	1:1000
	11	REF No	TAS/2/4030
	12		
	13		
	14		

GRID GAR
PIEMAN TIN VEIN ZONE
RESOURCE BLOCK PLAN

030

5 cm

35-2403



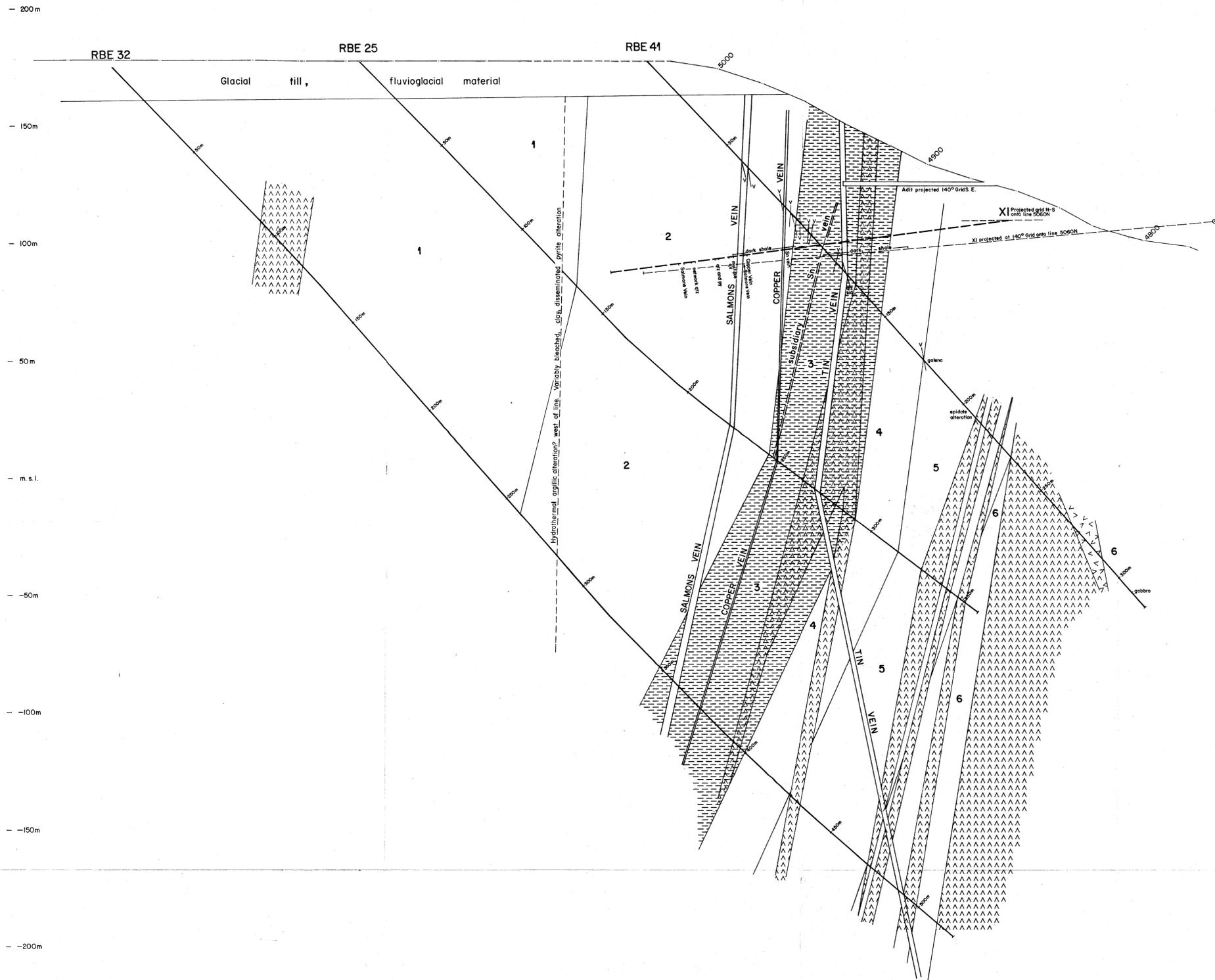
East Salmons Vein
 Dotted line demarks area of influence of each hole.
 Indicated 233750 tonnes of length weighted \$59.15 T.M.V.

West Salmons Vein

164031 5 cm

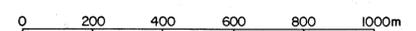
COMSTAFF PROPRIETARY LIMITED			
PROJECT	RENISON - EL 5/63 AREA 6		
AREA	GAR GRID	032	
DATA	LONGITUDINAL SECTION ALONG 372.875mE EAST & WEST SALMONS VEIN POSSIBLE AND INFERRED ORE		
COMPILED	RWL Shaw	SCALE	1:2500
DRAWN	H.R. 6/84	REF No	TAS/2/4032
AMENDED	7/84		

95-21107



NB:- From 100-185-47m XI should project satisfactorily onto this section. However as shown misplaced. XI probably has dropped and swung to the south during drilling (plotted from one survey of collar only).

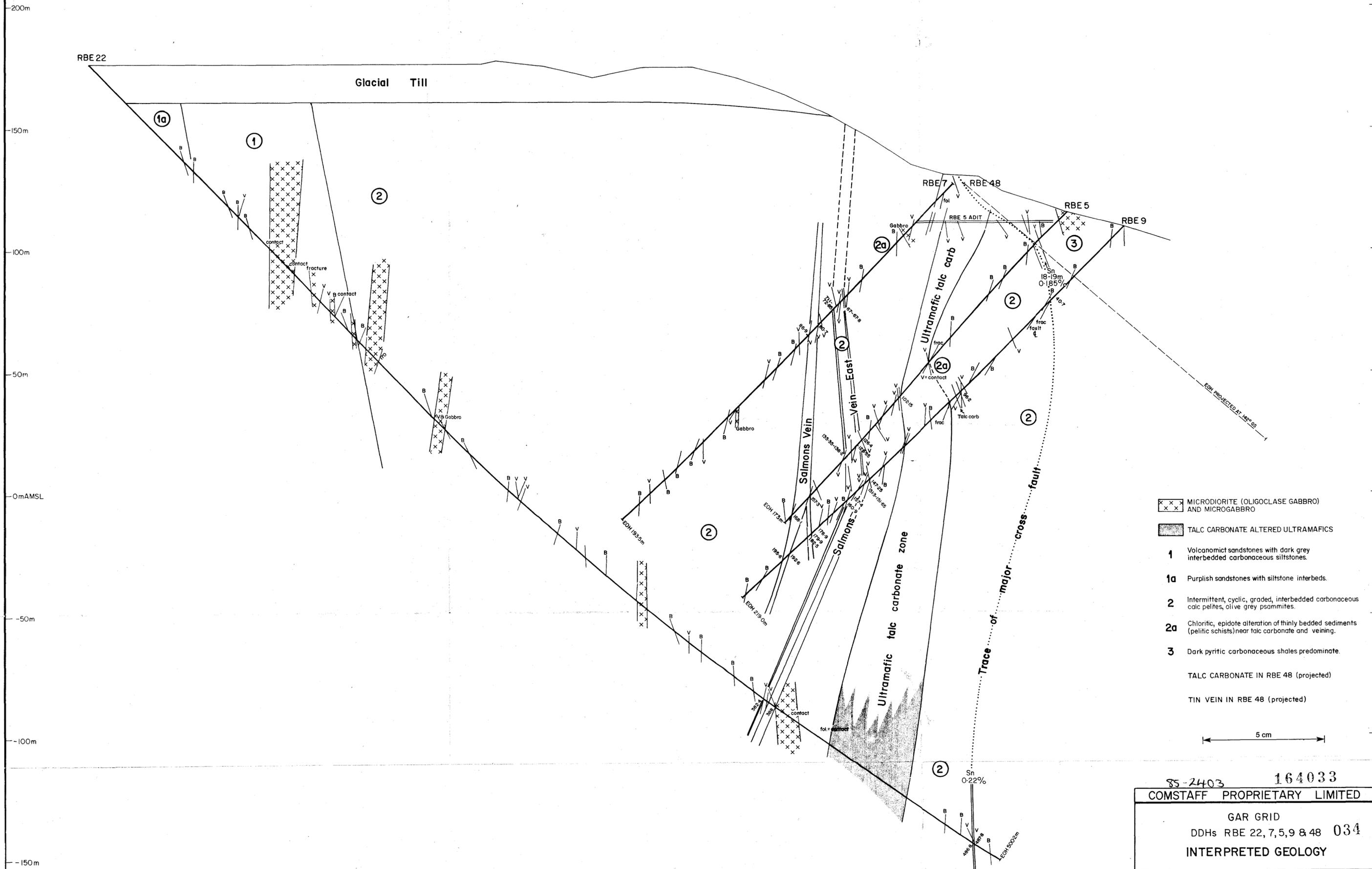
-  Serpentine
-  Gabbro
- 1** Tuffaceous sandstone with wide units of cheesy siltstones. Some black shale partings, beds.
- 2** Greenish grey medium grained tuffaceous sandstone with siltstone tops (graded downhole) predominate. More prominent towards bottom margin as units.
- 3** Predominantly dark grey, black carbonaceous pyritic shales with interbedded lighter grey siltstones and tuffaceous sandstones.
- 4** Finer bedded than 3. Alternating dark grey shales, siltstones, sandstone. Thinly bedded. Some units calcareous from midway through interval.
- 5** Alternating beds of grey tuffaceous sandstones and calc pelites. Cyclic in part.
- 6** Calc pelites, black shales and tuffaceous sandstones.



164032
5 cm

COMSTAFF PROPRIETARY LIMITED		RENISON PROJECT GAR GRID DDHs RBE 32, 25, 41 & XI GEOLOGICAL INTERPRETATION		033
LEASE No	5/63	COMPILED	D S Thyrne	
AREA	6	DRAWN	H M Rowley	
AMENDMENTS		DATE	8/83	
1	4/84	SCALE	1:1000	
2	9	REF No	TAS/2/3711	
3	10			
4	11			
5	12			
6	13			
7	14			

85-2403



- MICRODIORITE (OLIGOCLASE GABBRO) AND MICROGABBRO
- TALC CARBONATE ALTERED ULTRAMAFICS
- 1** Volcanomic sandstones with dark grey interbedded carbonaceous siltstones.
- 1a** Purplish sandstones with siltstone interbeds.
- 2** Intermittent, cyclic, graded, interbedded carbonaceous calc pelites, olive grey psammites.
- 2a** Chloritic, epidote alteration of thinly bedded sediments (pelitic schists) near talc carbonate and veining.
- 3** Dark pyritic carbonaceous shales predominate.
- TALC CARBONATE IN RBE 48 (projected)
- TIN VEIN IN RBE 48 (projected)

5 cm

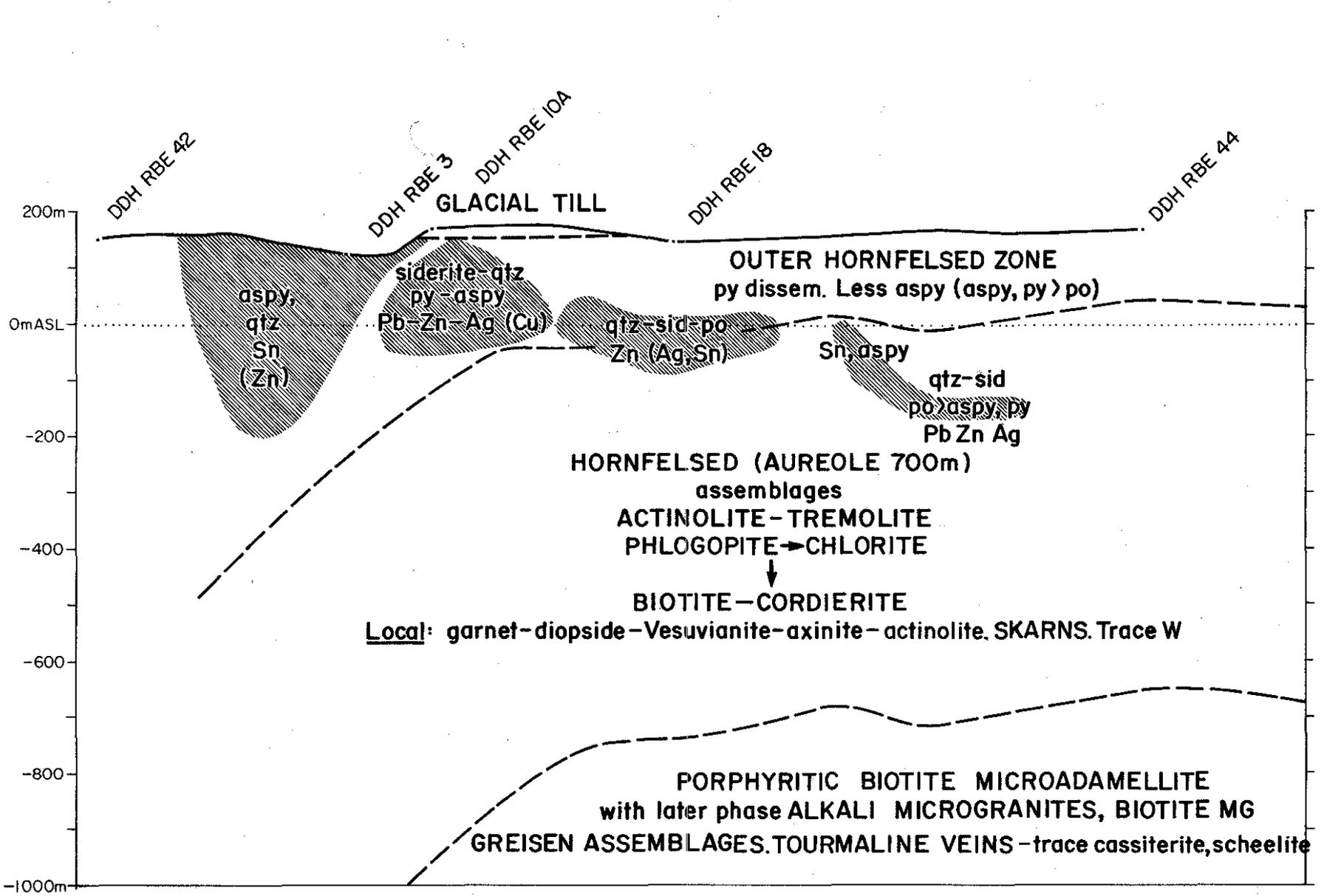
85-2403 164033

COMSTAFF PROPRIETARY LIMITED

GAR GRID
DDHs RBE 22, 7, 5, 9 & 48 034

INTERPRETED GEOLOGY

COMPILED D.S. Thynne	DRAWN H. Rowley	DATE 6/84	AMENDED
LEASE No 5/63	AREA 6	SCALE 1:1000	TAS/2/4033



164035

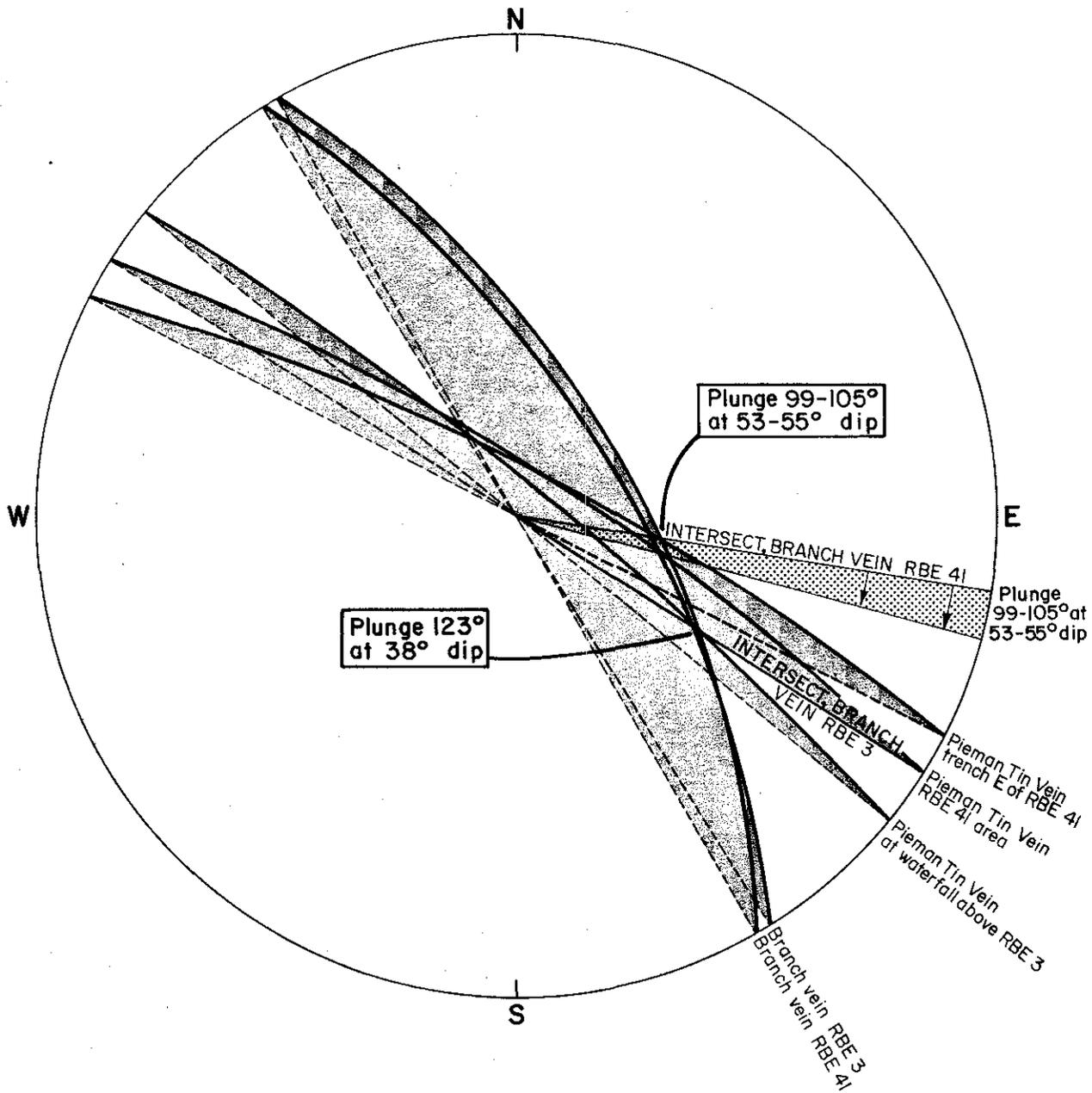
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EAST RENISON PROJECT
EL 5/63 AREA 6

**L-S THROUGH TIN & SALMON VEINS
ALTERATION & MINERALISATION FEATURES**

DRAWN HR 5/84
COMPILED DST
SCALE 1:10000
TAS/2/3901



164036

ORIENTATION OF VEINS USED TO DETERMINE
PLUNGE OF INTERSECTION

Projection shows plunge and direction of
2 branch veins with the Pieman Tin Vein
referred to in text.

Branch Vein (RBE 41)	330°M at 62°E
Branch Vein (RBE 3)	328°M at 65°E
Pieman Tin Vein (RBE 41 area)	297°M at 78°E 302.5°M at 78°E
Pieman Tin Vein at waterfall above RBE 3	309°M at 82°E

5 cm

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RENISON PROJECT
PIEMAN TIN VEIN
WULFF NET PROJECTION

COMPILED D. S. Thynne	DRAWN H. Rowley	DATE 7/84	AMENDED
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