

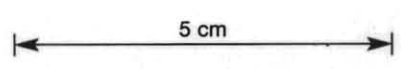
PTH	INTERVAL	DEPTH from-to : ROCK UNIT <small>capitals letters, underlined</small>	POINTS	GRAPHIC LOG	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS
		Depth: Description and notes <small>inserted about 10 mm</small>					

FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R. RYALL (ED), MONOGRAPH NO. 9 AUSTRALAS. INST. MIN. METALL. - 1976

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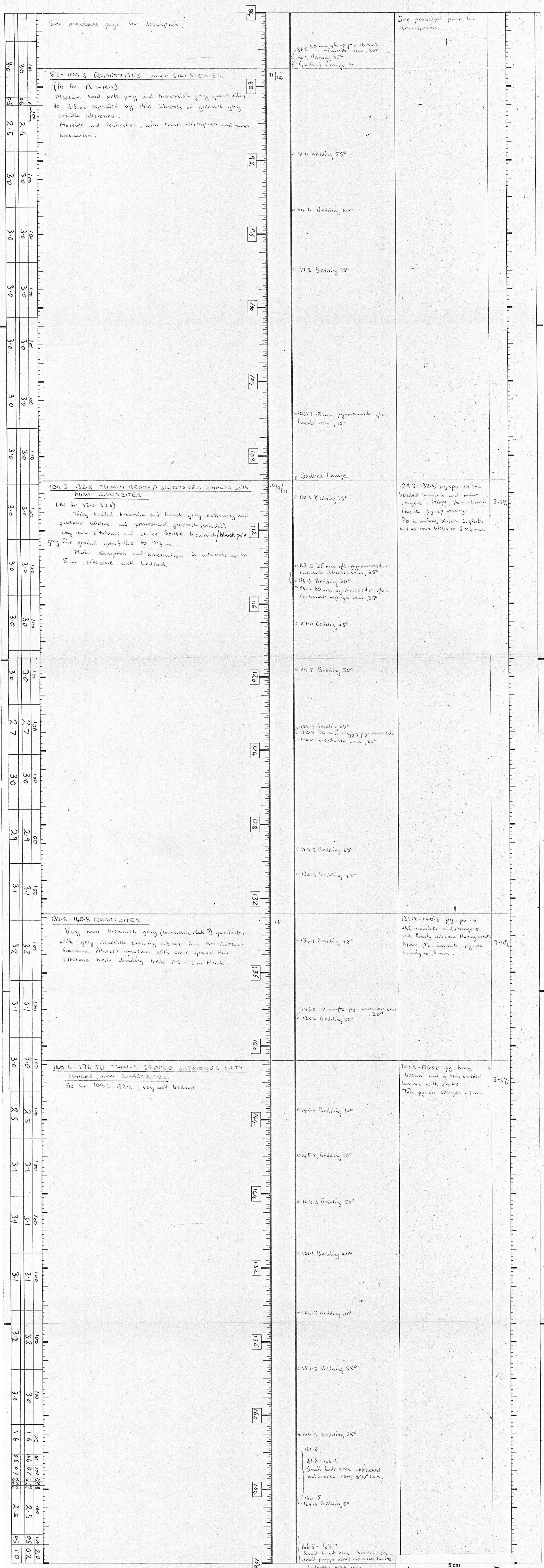
AFTER TYPING THIS SIZED FORM WILL BE PHOTO-REDUCED TO A4 SIZE

0-30(2.0)	TRICONE TO 3 m - NO CORE		
3.0-176.5 (173.5m)	<p>3.0-176.5 <u>THINLY BEDDED SILTSTONES AND SHALES ALTERNATING WITH QUARTZITES.</u></p> <p>Medium grey clay rich or quartzose siltstones with thin silty shale beds, sometimes sericitic. Well bedded. Scale of individual beds < 5cm with brecciated intervals and some folding and contortion.</p> <p>The quartzites range from small fine-grained beds interleaved with the siltstones etc as above to massive rather featureless brown or greyish, medium grained, often well fractured and broken; intervals from 50cm to 20 metres, with very minor siltstones.</p> <p>3-87.0 Thinly bedded siltstones, well fractured in upper 30m. Gradually become more sericitic with depth; the quartzose beds are hard and silicified. Minor quartzites (2m) towards bottom of interval.</p> <p>87-109.3 Massive quartzites as above.</p> <p>109.3-132.8 As for 3-87.0, some 'quartzose' siltstones faintly brownish grey, others bluish grey and very hard (silicified); shales are greenish and sericitic.</p> <p>132.8-140.8 Massive brownish grey quartzites</p> <p>140.8-176.5 As for 109.3-132.8, brownish 'quartzose' siltstones not common - mostly bluish grey fine grained quartzites (coarse gr. siltstones) with thin greenish silty shale beds etc.</p> <p>161-168.7 Small faults and puggy patches: broken core.</p>	10/9/80	<p>3.0-37.0 py,qtz,po as thin veinlets and stringers, some with cassiterite, 10%.</p> <p>37.0-38.0, 0.5m py-qtz-CO₂-gr. Fluorite - arsenic - sil vein. 40"</p> <p>38.0-73.0 Thin bedded laminae py,po in siltstones, dissem in quartzites and rare qtz-carbonate-py-cassit.-veins. 2-3%</p> <p>73.0-132.6 py,po. dissem in quartzites, veinlets etc with qtz, Fluorite, muscovite, sil. 5-7%. Some small stromatolite-type fracture zones to 10 cm with blebby py, qtz etc</p> <p>132.6-140.8 py,po. dissem py in quartzites, po as veinlets with qtz, carbonate, 7-10%.</p> <p>140.8-176.5 py, thin bedded laminae, locally dissem, veinlets etc with qtz 3-5%</p>
176.5-194.5 (18.0m)	<p>176.5-194.5 <u>QUARTZ FELSPAR PORPHYRY.</u></p> <p>Matrix: fine grained, pinkish cream. Rock is well fractured and filled by weathering.</p> <p>Phenocrysts: Sil rounded subhedral grains to 6mm, 15-20%. Felspar. after 186.5m, soft white weathered grains, 30% irregular, 75%</p>	1	<p>pitted py as discrete grains to 4mm, trace rounded cassiterite, weak trace of 7% (much removed by weathering, originally >10%)</p>
194.5-206.9 (12.4m)	<p>194.5-206.9 <u>THINLY BEDDED SILTSTONES & SHALES, MAJOR QUARTZITES.</u></p> <p>As for 3.0-87.0, weakly sericitic.</p>	10/9/80	<p>py, thin bedded laminae, and in small irregular veinlets with qtz, 5%.</p>
	END OF HOLE 206.90		



DEPTH (m)	ROCK UNIT	DESCRIPTION	STRUCTURAL AND VEIN INFORMATION	MINERALISATION	NOTES
0 - 13.7	TRICONE TO 30 m - NO CORE 3.0-13.7 THINLY BEDDED SILTSTONES, SILTSHALES	Pale grey (bleached) thin bedded quartzose and clay rich siltstones, with sparse grey quartzite beds to 20 cm. Scale of bedding 1-2 cm individual beds. Minor disruption and hiding/contamination, with later kaolinitic. The rock is permeated by fine yellow clay filled fractures at a high angle to LCA.	10/9 5.0 Bedding 30° 7.2 Bedding 70° 10.4 Bedding 45° 11.2 Small fld. axis 35°, plane 55° Contact broken		3.0-13.7 py, qtz as thin veinlets and stringers, porous and pitted by weathering. <1%
13.7 - 19.3	13.7-19.3 QUARTZITES - minor SILTSTONES	Massive hard bluish grey or faintly brownish grey (iron rich?) fine grained quartzites, divided by thin pale grey clay rich siltstone beds <5 cm, in intervals to 20-30 cm.	11/10 Gradual change to		13.7-19.3 py, qtz, some visible in thin veinlets and stringers. 10%
19.3 - 32.0	19.3-32.0 THINLY BEDDED SILTSTONES AND SILTSHALES with minor QUARTZITES	19.3-32.0 Pale grey thin bedded quartzose siltstones, clay rich siltstones and thin shale beds, gradually becoming darker coloured with depth. Fairly greenish and sericitic, medium hard with some thin fine grained very hard bluish grey quartzite beds to 30 cm. The Quartzite beds are slightly coarser grained, brownish grey and up to 2m thick. Soft sediment disruption and brecciation, poorly bedded. Overall, soft sediment disruption and brecciation in zones to 5 m, separated by well bedded, only slightly deformed, intervals.	10/9/11 21.4 Bedding 55° 23.8 Bedding 70° 25.4 Small fld. axis 75°, plane 70° 26.2 Bedding 25° 28.5 Bedding 45° 30.2 Bedding 60°		19.3-32.0 py, qtz as thin veinlets and stringers. 10%
32.0 - 37.0	32.0-37.0 As for 19.3-32.0 but becoming more and more greenish and sericitic (clay rich beds) and darker in colour to medium greenish grey. After 35.0 m some bedded, pyrite/po appears		32.0 Bedding 70° 34.3 100 mm qtz - py - coarse vein, 50° 35.9 10 mm qtz - py - coarse vein, 25°		34-37.0 increased veining with minor sp. fluorite veins. 2-3%
37.0 - 38.0			40.0 } py - qtz - calcite - fluorite 40.0 } galena - arsenic - sp. vein. 38.4 Bedding 70°		37.05-38.0 see left
38.0 - 73.0			41.1 Bedding 75° 41.4 20 mm stringy qtz - py - sp - calcite vein, 35° 50.0 Bedding 60° 53.1 Bedding 80° 53.4 15 mm qtz - calcite - py - po breccia vein, 40° 54.7-55.1 } Small clay? beds - axis 70°, plane 55° 55.4 Bedding 75° 58.5 Bedding 70° 61.3 Bedding 80° 64.0 10 mm calcite - fluorite - sp vein, 145° 64.8 Bedding 60° 67.5 Bedding 65° 70.0 Bedding 60° 70.4 10 mm py - qtz vein, 30° 72.4 Bedding 65° Gradual change to		38.0-73.0 py, po as thin bedded laminae 2 mm, disson in quartzites. Some rare thin qtz - py - calcite veins. 2-3%
73.0 - 87.0	73.0-87.0 THINLY BEDDED SILTSTONES, SHALES, WITH QUARTZITES	Thinly bedded (<5cm) greenish grey sericitic clay rich siltstones and minor shales, with an increased proportion of massive, disrupted, hard pale brownish grey fine to medium grained quartzites, to 1.5 m thick.	10/1/4 76.7 Bedding 75° 74.4 Bedding 60° 74.4 10 mm py vein, 55° 82.0 Bedding 70°		73.0-87.0 py, po, disson in quartzites, as rare blebs to 6x3 mm, and as thin veinlets, stringers and bedded laminae in thinly bedded siltstones/shales. Sparse py - calcite - qtz - fluorite veining. 5-7%

<p>DEPTH from-to : ROCK UNIT capital letters, underlined Depth : Detailed rock description and notes indented about 15mm</p>	<p>GRAPHIC LOG SEE SCALE ON REVERSE</p>	<p>STRUCTURAL AND VEIN INFORMATION ▲ ATTITUDE TANGENT BETWEEN FEATURE AND LOGS CORE AXIS</p>	<p>MINERALISATION</p>	<p>NOTES</p>
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5 cm

DEPTH from-to : ROCK UNIT capital letters, underlined
Depth: Detailed rock description and notes
indented about 15mm.

GRAPHIC LOG
STRUCTURAL AND VEIN INFORMATION
 ATITUDE: Angle between feature and LONG CORE AXIS

MINERALISATION

NOTES



METALS EXPLORATION LIMITED

MINERAL EXPLORATION DRILL LOG
Scale 1:100

Prospect or project: **MOUNT BISCHOFF**
 Logged by: **G. BROADBENT** date: **21 / 3 / 80**

HOLE No. Y16P 36
LOG SHEET 3 OF 4
 from 84 m to 168 m

Prepared 21/3/80

SAMPLE NO.	SAMPLE NO	FROM	TO	INTER-VAL	Sn	Sn	Cu	Pb	Zn	Ag	W	As	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
97835		35.8	38.0	2.2	8400									
97824		174.5	176.5	2.0	65									
25		176.5	178.5	"	2100		260	65	630	41	35	60		
26		178.5	180.5	"	3750		330	20	170	21	25	85		
27		180.5	182.5	"	3150		310	65	190	21	20	160		
28		182.5	184.5	"	600		350	24	150	1	15	740		
29		184.5	186.5	"	260		340	26	160	21	210	4100		
30		186.5	188.5	"	500		330	15	80	21	25	2550		
31		188.5	190.5	"	1350		290	16	65	21	55	900		
32		190.5	192.5	"	1450		330	22	95	21	45	1200		
33		192.5	194.5	"	1450		300	40	150	1	10	75		
34		194.5	196.5	"	260									

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Notes:— Sn by AFR Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO, MBD 36
 SAMPLE TYPE : DRILL CORE FROM 35.8 TO 196.5.