

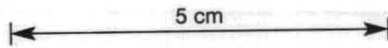
INTERVAL	DEPTH from-to : ROCK UNIT Depth : Description and notes inserted about 10mm	MINERALISATION	ASSAYS AVAILABLE	PULVED ASSAYS
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FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R. RYALL (ED), MONOGRAPH NO. 9 AUSTRALAS INST. MIN. METALL. - 1976

028539

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

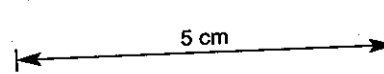
0-3.0	TRICONE TO 3.0m - NO CORE			
3.0-27.36 (24.36)	3.0-27.36 SILTSTONES AND BLACK SHALES. dark grey clay rich siltstones and minor mid grey quartzose siltstones surrounded by irregular lenses and contorted beds of black shale and siltstone. Very brecciated - soft sediment disruption Well fractured - puggy fault zone 10-8-11-4m	10/a/c F	30-27.26 Pg in thin stringers and veinlets and dissem in some siltstone beds. Weak qtz-carbonate-py veining. TOTAL 3%.	
27.36-53.00	27.36-53.00 QUARTZ FELSPAR PORPHYRY. Matrix grey and finely crystalline, greyish cream near margins Qtz - rounded grains to 6mm, mostly 1-3mm 10% Felspar - soft, white, and weathered, some well formed grains to 3mm, mostly 2-3mm, 15% Finely fractured and quite weak (easily broken in places), weathered.	1	27.36-31.9 py, trace fluorite, sp, 2% 31.9-49.1 trace sp, fluorite, some qtz-carbonate-fluorite veining. 49.1-53.0 py, trace sp, fluorite and ? tourmaline 2-3%	Contact 45°
53.00-60.3 (7.3m)	53.00-60.3 SILTSTONES, MINOR SANDSTONES dark grey siltstones with concretion beds to 20cm. Brecciated	10/11/s	53.0-60.3 pg, qtz-carbonate-fluorite-sp -scapolite in veins and stringers to 20cm TOTAL 3-5%	Contact 60° Gradual Change
60.3-73.0 (12.7m)	60.3-73.0 SILTSTONES AND BLACK SHALES As for 0-27.36	10/a/c	60.3-73.0 decrease in detrital veining, py dissem in siltstones and as thin stringers 2-3%	Gradual Change
73.0-88.0 (15.0m)	73.0-88.0 SILTSTONES AND BLACK SHALES WITH SANDSTONES Thinly bedded, brecciated siltstones and black shales with hard bluish grey quartzite beds up to 1.5m thick. Some quartzites are weakly micaceous. Well fractured and broken.	10/11/a/c	73-88 py, muscovite, dissem and in stringers and veinlets ± qtz, carbonate, 3-5%.	Gradual Change
88.0-97.8 (9.8m)	88.0-97.8 QUARTZITES AND SILTSTONES. As for 73.0-88.0, but quartzites > siltstones	11/10/c	88-97.8 py, dissem in quartzites and veinlets, stringers as above 2-3%	Gradual Change
97.8-133.0	97.8-133.0 SILTSTONES AND BLACK SHALES. 97.8-103.5 As for 0-27.36 103.5-120 SILTSTONES, FINELY LAMINATED. Dark grey, clay rich. Brecciated, finely bedded (< 2mm) with rare thin quartzose siltstones to 5mm and very thin black shale laminae. 120-133.0 As for 0-27.36.	10/a/c 10 10/a/c	97.8-120 py increases to 3-5% 120-133 py as thin veinlets and dissem, sparse blebs and stringers qtz, carbonate, minor veining 2%	Gradual Change
133.0-155.97	133.0-155.97 SILTSTONES AND BLACK SHALES WITH SANDSTONES. As for 73.0-88.0	10/11/a/c	133-150.6 py, trace po, as blebs and dissem. Minor dk-pg-py-fluorite-carbonate-sp-cp veining. 5% 0.5m vein as described at 149.9-150.6, 30%	Gradual Change
155.97-156.5	155.97-156.5 DOLOMITE, RECRYSTALLISED	9/v 3	150.6-155.97 py, muscovite, trace po, much veining, most 7% 155.97-156.5 fluorite, 7% cassiterite 10-15%	Contact 80°(?)
156.5-181.0 (24.5)	156.5-181.0 SILTSTONES, MINOR SANDSTONES Very brecciated, thinly bedded siltstones some carbonaceous with dark grey, sometimes weakly micaceous, sandstones to 20cm	10/c/11/s	156.5-170.2 py, dissem and in veins with fluorite-calcite-qtz-py-po-sp-muscovite. rare. Abundance of units decreases with depth. 5-7% 170.2-181.0 - py, dissem and minor veining as above. 2-3%	Contact 25° Gradual Change
181.0-190.9 (9.9m)	181.0-190.9 SILTSTONES, finely laminated. As for 103.5-120	10/c	181.0-190.9 py, finely dissem and in veinlets with qtz. 2.1%	Gradual Change
190.9-201.1 (10.2)	190.9-201.1 SILTSTONES with BLACK SHALES As for 0-27.36	10/a/c	190.9-201.1 py, dissem in siltstones 1-2%	Gradual Change
201.1-208.5 (7.4m)	201.1-208.5 SILTSTONES, finely laminated. As for 103.5-120, but only minor disruption and contortion of beds.	10	201.1-208.5 py, very finely dissem and as thin laminae and blebs to 2x1cm. 3%	Gradual Change
208.5-210.9	208.5-210.9 TUFFS, SANDSTONES and SILTSTONES	12/11/dk	208.5-210.9 py, dissem in tuffs and siltstones, 3%	Gradual Change
210.9-218.9 (8.0m)	210.9-218.9 SILTSTONES, SANDSTONES, MINOR BLACK SHALES Well bedded thin siltstone and shale (< 2cm) in intervals to 1m with pale grey sandstones to 20cm.	10/11/a/c	210.9-218.9 py, dissem and in sparse qtz, carbonate stringers. 1-2%.	Gradual Change
218.9-224.2 (5.3)	218.9-224.2 TUFF with SANDSTONES and SILTSTONES Coarse grained tuff, grades into sandstones, separated by siltstones	12/11/10	218.9-224.2 py, with qtz, py, muscovite stringers, 1%.	Gradual Change
224.2-249.0	224.2-249.0 SILTSTONES and BLACK SHALES with SANDSTONES As for 210.9-218.9, minor faulting, well bedded with only minor contortion. Sandstone content decreases 239-249 (Ech)	11/11/a/c	224.2-249 py, dissem, along bedding, some thin bedded laminae of carbonate-py-sp muscovite veining. TOTAL 5%.	Gradual Change



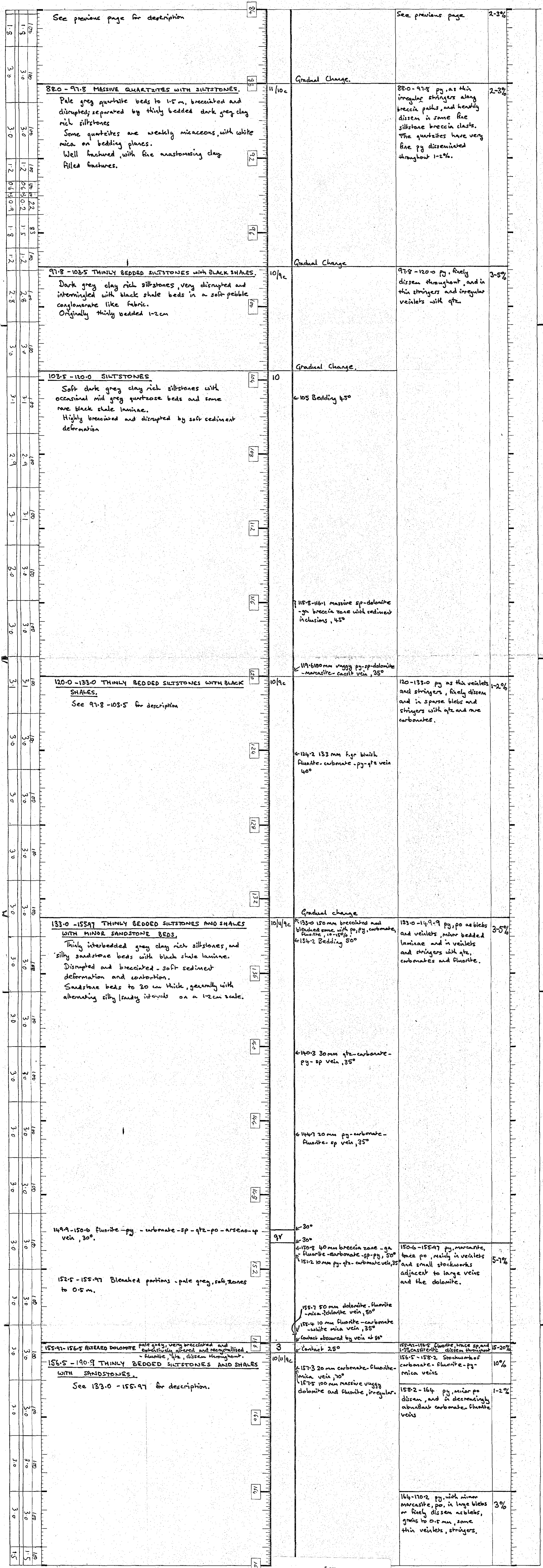
END OF HOLE 249.0m



DEPTH (m)	ROCK UNIT	DESCRIPTION	STRUCTURAL AND VEIN INFORMATION	MINERALISATION	NOTES
0 - 2.0	TRICONE TO 3.0 m - NO CORE.				
2.0 - 3.0	3.0-27.36 SILTSTONES AND BLACK SHALES.	Very disrupted and brecciated - rounded clasts of dark grey siltstone surrounded by discontinuous irregular lenses of siltstone and shale. Rare clasts pale grey quartzose siltstones and sandy siltstones. Well fractured, with some minor bleaching of irregular patches along small fracture zones.	10/9c	3.0-10.4 Well fractured and broken - fine anastomosing clay filled fractures at variable angles to LCA.	3-5%
3.0 - 4.7					
4.7 - 8.0					
8.0 - 11.4					
11.4 - 17.4					
17.4 - 19.8		17.4-19.8 Bleached zone associated with faulting - pale grey, soft and weathered.			
19.8 - 27.36					
27.36 - 53.00	QUARTZ FELSPAR PORPHYRY.	27.36-29.2 Finely crystalline groundmass, greyish cream in colour. Phenocrysts: qtz as subhedral grains to 2mm, 3-5% feldspar, very small (15mm max), yellowish cream in colour, weathered, 3-8%. 29.2-31.9 Increase in phenocryst size and abundance - qtz - rounded-subhedral, to 6mm, mostly 1-3mm, 10%. Feldspar - well formed grains to 6x4mm, soft and weathered with some weak alteration, 15-20%. 31.9-35.7 As above 29.2-31.9, but highly fractured and sheared - greenish grey matrix with fine, yellowish, pervasive, fracture planes. The rock has a granular, crumbly fabric.	1	27.36-29.2 py, as rounded blebs and grains to 2.5mm; trace fluorite, sp, ? tourmaline. 29.2-31.9 traces sp, fluorite, as ? grains replacing feldspar. 31.9-49.1 Trace ? sp, fluorite, rare qtz-carbonate-fluorite veining < 3mm.	2-3% 1% 1%
53.00 - 49.1		35.7-49.1 Matrix dark, faintly greenish grey. Phenocrysts: Qtz - clear rounded grains to 6mm, 10-15%. Feldspar - white-spale cream, weathered, well formed grains to 5x3mm with some weak alteration. Small inclusions of hard pale brown ? topaz. 15%.			
49.1 - 53.00		49.1-53.00 Matrix fine grained, creamy-grey, with qtz, feldspar as for 27.36-29.2			
53.00 - 60.30	MASSIVE SILTSTONES, MINOR SANDSTONES	Dark grey sandy siltstone beds, rather structureless, with some minor thinly bedded intervals and sparse micaceous sandstone beds to 20-30cm. Minor soft-sediment disruption, with extensive later fracturing and shearing to 57.4m + some bleaching well broken to 62.7m.	10/11	54-80 10mm dolomite-chlorite-fluorite-white mica-py vein, 10° 55-7 200mm dolomite-fluorite-py-sp breccia zone, 30° 57.6-58.4 Puggy fault zone.	3-5% 3-5%
60.3 - 88.0	THINLY BEDDED SILTSTONES, MINOR SHALES.	Dark grey clay rich siltstones, occasional sandy beds and thin black shale beds. Extensively disrupted and contorted, with some quite well bedded intervals up to 2m thick separated by brecciated and disrupted material.	10/9c/10	62.2-62.7 Small fault zone.	2-3%
88.0 - 73		66-73 Brecciation and disruption decreases.			
73 - 78		73-88.0 Very disrupted and brecciated, with minor quartzose siltstones and sandstones, some of which are yellowish/greenish due to finely disseminated py.			
78 - 75.5		74.1-75.5 Thinly bedded sandstones/siltstones.			
75.5 - 87					
87 - 1.9					



<p>DEPTH from-to: ROCK UNIT capital letters, underlined Depth: Detailed rock description and notes indented about 15mm.</p>	<p>GRAPHIC LOG SEE LEGEND ON REVERSE</p>	<p>STRUCTURAL AND VEIN INFORMATION ATTITUDE - Angle between Feature and LONG CORE AXIS</p>	<p>MINERALISATION</p>	<p>NOTES</p>
<p>METALS EXPLORATION LIMITED</p>	<p>MINERAL EXPLORATION DRILL LOG Scale 1:100</p>	<p>Prospect or project: MOUNT BISCHOFF Logged by: G. BROADBENT date: 8 / 5 / 80</p>	<p>HOLE No. M8D45 LOG SHEET 2 OF 4 from 0.0 m. to 84.0 m.</p>	





SAMPLE NO.	SAMPLE NO	FROM	TO	INTER-VAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
48051		25.4	27.4	2.0	18									
52		27.5	29.5	"	200									
53		29.5	31.5	"	140									
54		31.5	33.5	"	60									
55		33.5	35.5	"	46									
56		35.7	37.5	1.8	80									
57		37.5	39.5	2.0	110									
58		39.5	41.5	"	75									
59		41.5	43.5	"	70									
60		43.5	45.5	"	80								210	check Assay
61		45.5	47.5	"	75									
62		47.5	49.5	"	85									
63		49.5	51.5	"	160									
64		51.5	53.0	1.5	250									
65		53.0	55.0	2.0	85									
66		149.9	151.0	1.1	4600									
67		154.0	156.0	2.0	130									
68		156.0	156.5	0.5	6.38%									
69		156.5	158.5	2.0	340									
070		237.2	237.6	0.4	1.44%									

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Notes:— Sn by XRF B. Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT  
 ASSAY SUMMARY SHEET HOLE NO. MBD 45  
 SAMPLE TYPE : DRILL CORE FROM 25.4 TO 237.6