

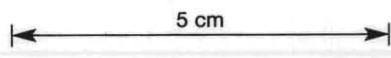
DEPTH INTERVAL	DEPTH from-to : ROCK UNIT	MINERALISATION	BULKED ASSAYS
	Depth: Description and notes inserted about 10mm		

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

028430

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

0-3.5 (3.5)	TRICONE TO 3.5 m - NO CORE		
3.5-10.4 (7.1)	3.5-10.6 DOLOMITE SULPHIDE LOOSE. Carbonate - qtz with minor talcose alteration and serpentinite		Pg, marcasite, minor po trace sp, cp, arseno fluorite. TOTAL 30-40%
10.6-30.4 (19.8)	10.6-30.4 SILICIFIED SILTSTONE AND SILTY SHALE 30° Hard, silicified and greenish grey brecciated and contorted. Thinly bedded with occasional thin intercalations of talc/serpentinite and grey dolomite. Sparse thin quartzite beds near bottom of interval.		Pg, sp, po in thin carbonate veinlets up to 3mm. TOTAL: 2-3%. Occasional blebs pg, po to 10x6 mm
30.4-33.4 (3.0)	30.4-33.4 DOLOMITE SULPHIDE LOOSE 40°		po > pg, fluorite, trace sp, ga TOTAL 40-50%
33.4-45.9 (12.5)	33.4-45.9 SILICIFIED SERICITIC SILTSTONE AND SILTY SHALE 35° As for 10.6-30.4, but dolomite/OSL intercalations and quartzites scarce to absent.		po > pg, blebs to 4x10mm, dissem. } 3-5% Carbonate - fluorite - po - pg - qtz veinlets
45.9-47.0	45.9-47.0 DOLOMITE SULPHIDE LOOSE 60°		pg, fluorite trace po, sp 15-20%
47.0-80.4 (33.4)	47.0-80.4 SILICIFIED SERICITIC SILTSTONE AND SILTY SHALE. As for 33.4-45.9. Finely fractured - yellow clay filled anastomosing fine fractures every few cm. 65.0-80.4 Decreased proportion of shaley beds - more massive hard greenish grey siltstones.		pg, po, dissem. and as blebs, some minor carbonate - fluorite - qtz - pg veining 1-2%
80.4-120.4 (40.0)	80.4-86.8 MASSIVE SILTSTONES AND QUARTZITES Had silicified quartzose siltstones and siltstones, grey to bluish grey. 86.8-106.6 GREY SILTSTONES, SILTY SHALES AND QUARTZITES. Medium grey quartzose and clay rich siltstones, shales faintly greenish with bluish grey quartzite bands to 0.5m. Brecciated - some thinly bedded with minor disruption. 106.6-120.4 Some siltstone beds are a pinkish brown (tourmalinized?) inter-bedded with soft greenish siltstones. Some thin dark grey shale laminae near base of interval. Gradual Change		po > pg, dissem in more quartzose siltstone and sandstone beds. Some pg - qtz - fluorite - carbonate veining TOTAL 3-5%.
120.4-146.6 (26.2)	120.4-146.6 MASSIVE QUARTZOSE SANDSTONES AND SILTSTONES Very hard, pale grey and silicified fine grained quartzite with some thick bedded siltstone or massive brecciated quartzose siltstone with quartzite bands to 0.75m. Gradual Change		pg, po, dissem and in thin stringers } 1-2% Some weak qtz - pg - carbonate veining
146.6-160.0 (13.4)	146.6-160.0 INTERBEDDED SILTY SHALES, SILTSTONES and minor PYRITE BLACK SHALES. Medium grey silty shales, with thin pyritic black shale laminae separated by lighter grey siltstones. Well bedded. Gradual Change		pg, as thin bedded laminae, dissem in siltstones and thin veinlets and stringers 3-5%
160-178.8 (18.8)	160-178.8 SILTSTONES, SILTY SHALES AND QUARTZITES. As for 86.8-106.6.		pg > po thin bedded laminae, veinlets and stringers with qtz - carbonate, fluorite - sp - ga. Some blebs po to 30x10mm. TOTAL 5%. 176.6-178.8 pg, po, dissem, veinlets 15%
178.8-196.18 (17.38)	178.8-196.2 QUARTZ FELSPAR PORPHYRY 75° White f.sp. matrix near margins, faintly greyish in centre. Phenocrysts: qtz - rounded grains to 2mm, 10-15% Felspar - creamy white with some weak brownish alteration 7%, variable 2-10%.		pg, po, irregular grains and f.sp. aggregates 15-20%. Trace sp, weak trace cassiterite, fluorite, tourmaline.
196.2-208.1 (11.9)	196.2-208.1 INTERBEDDED SILTY SHALES, QUARTZOSE SILTSTONES and minor BLACK SHALES WITH PYRITE. As for 146.6-160.0		pg, trace po near contact, thinly bedded, dissem. and thin stringers 3-5%.
	END OF HOLE 208.1 m.		



FIELD COPY - COPY TO BE SENT TO MELBOURNE FOR TYPING

METALS EXPLORATION LTD. EXPLORATION DEPARTMENT

SUMMARY DRILL LOG Scale 1:1000, 1:500, 1:250 (when reduced to A4)

Prepared by: G. BROMBENT Date: 5.3.80

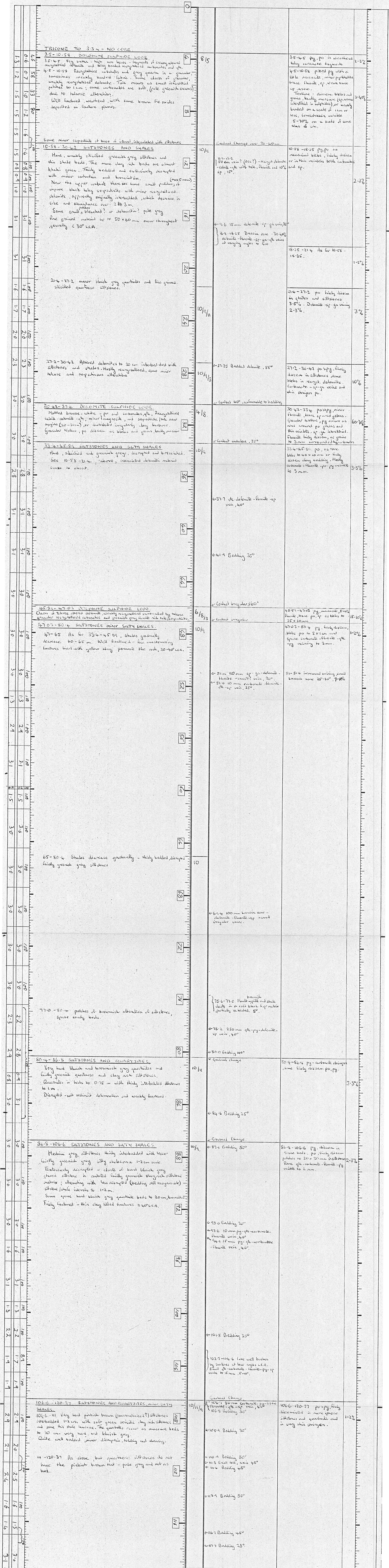
HOLE No. MBD 26 Sheet of

AMPLE 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								
97364		4.5	6.5	2.0	120									
65		6.5	8.5	"	20									
66		8.5	10.5	"	660									
67		10.5	12.5	"	220									
68		12.5	14.5	"	160									
69		16.6	17.0	0.4	600									
70		28.6	30.6	2.0	1200									
71		30.6	31.6	1.0	1600									
72		31.6	33.5	1.9	1100									
73		33.5	35.5	2.0	370									
74		45.8	47.1	1.3	240									
97375		176.8	178.8	2.0	5200									
76		178.8	180.8	"	1950		400	20	85	1	35	320		
77		180.8	182.8	"	2350		450	18	100	21	65	760		
78		182.8	184.8	"	980		400	24	24	1	60	3100		
79		184.8	186.8	"	410		480	28	34	1	25	2600		
380		186.8	188.8	"	1450		510	30	32	2	110	3450	400	Re check of check assays.
81		188.8	190.8	"	2500		470	26	28	1	35	2750		
82		190.8	192.8	"	1250		530	34	32	1	350	3500		
83		192.8	194.8	"	4200		430	110	32	2	250	1200		
84		194.8	196.2	1.4	720		420	55	36	2	40	1900		
85		196.2	198.2	2.0	85									
SLUDGE														
97729		0.0	1.5	1.5	720									

028431

Notes: - Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET. HOLE NO. MBD 26
 SAMPLE TYPE : DRILL CORE FROM 4.5 TO 198.2



<p>SEE PREVIOUS PAGE</p> <p>120.37-128.7 QUARTZITE, minor SILTSTONES</p> <p>Very hard pale grey quartzite, massive beds 10 cm separated by thin siltstone beds < 10 mm. Some thinly bedded siltstone / sandstone intervals to 1.5 m. Disrupted and brecciated, otherwise quite massive and featureless.</p>	<p>11/10</p> <p>Gradual Change, Bedding 50°</p> <p>120.37-128.7 po, very finely dissem in quartzite beds.</p>	<p>1-2%</p>
<p>128.9-146.6 MASSIVE SILTSTONES WITH QUARTZITES</p> <p>Medium grey quartzite siltstones with intervals of pale grey extremely hard quartzites to 1 m thick. Some clay rich siltstone and grey silty shale beds are locally abundant. In the quartzite siltstones, bedding is quite well defined, with occasional sandy or clay rich beds to 1 cm. Some disruption and later fracturing.</p>	<p>10/10</p> <p>Gradual Change</p> <p>< 130.9 Bedding 25°</p> <p>< 132.8 Bedding 45°</p> <p>< 136.6 Bedding 60°</p> <p>< 139.3 Bedding 50°</p> <p>< 141.6 Bedding 45°</p> <p>< 145.1 Bedding 50°</p>	<p>128.9-146.6 pg, po, dissem along bedding, some bedded laminae and 2 thin stringers along brecciation cracks. Some sparse qtz-pg-carbonate veins to 2 mm.</p> <p>1-2%</p>
<p>146.6-160.0 SILTSTONES AND SHALES interbedded</p> <p>Medium grey clay rich siltstones / silty shales 5-10 cm separated by fine beds of thick shale (often with bedded pyrite laminae) and light grey quartzite siltstones up to 1 cm. Some sparse hard black grey quartzites, 10 cm to 0.75 m. Very well bedded for intervals up to 3 m - striking appearance - with disrupted intervals to 2 m. Minor fracturing at low angles to core, when combined with shaly black parting along bedding reduces the core to rubble locally.</p>	<p>10/1/10</p> <p>Gradual Change, Bedding 45°</p> <p>< 150.1 Bedding 80°</p> <p>< 156.5 Bedding 50°</p> <p>< 157.3 Small Fold, axis 90°</p> <p>< 158.4 Bedding 55°</p>	<p>146.6-160.0 pg, po, bedded laminae to 1 mm, dissem in some siltstone beds and in sparse thin veins and stringers. Rare qtz-carbonate-pg veins in small breccia zones.</p> <p>3-5%</p>
<p>160.0-178.66 INTERBEDDED SILTSTONES AND SHALES WITH QUARTZITES</p> <p>As for 146.6-160.0, with the addition of brownish grey very hard quartzites to almost 40% of the interval, up to 1.5 m thick. Brecciated and contorted, some sections are badly broken due to fracturing and veining at low angles to CA.</p>	<p>10/1/10</p> <p>Gradual Change</p> <p>< 160.2 Bedding 45°</p> <p>< 165.4 Bedding 55°</p> <p>161.1 30 mm carbonate-pg-sil-fluorite-qtz-vein, 35°</p> <p>< 164.4 Bedding 70°</p> <p>< 172.5 Bedding 45°</p> <p>< 173.8 22 mm pg, massive-carbonate-qtz-vein, 30°</p> <p>< 174.5 Bedding 10°</p>	<p>160.0-178.66 pg, po, as bedded laminae and in veins, stringers and shaly beds with qtz-carbonate-fluorite-sil-pg-qtz. Some finely dissem pg in shales. Po occurs rarely as blebs to 30 x 10 mm.</p> <p>5%</p>
<p>178.86-196.18 QUARTZ FELSPAR PORPHYRY</p> <p>178.86-180.44 White finely crystalline matrix with qtz phenocrysts to 2 mm, 5-7%; K-feldspic yellowish with indistinct outlines to 15 mm, 3%. 180.44-184.3 Creamy coloured very fine grained almost translucent matrix with some grey silty red partings to 10 cm. Phenocrysts: qtz - rounded grains to 5 mm, 10% Feldspar - creamy white irregular, fine aggregates, some to 10 mm, 10-15% 184.3-192.4 Pale grey, almost translucent matrix - very siliceous. Phenocrysts: qtz as rounded to sub rounded grains to 5 mm, 15% Feldspar - fine grained, creamy coloured and weakly altered 7-10%</p>	<p>Contact irregular, 75°</p> <p>< 176.6 Bedding 50°</p> <p>< 178.86 22 mm pg, massive-carbonate-qtz-vein, 30°</p> <p>< 180.44 20 mm pg, fluoro-qtz vein, 15°</p> <p>< 181.7 10 mm pg-qtz-carbonate-po-vein vein, 15°</p>	<p>178.86-196.18 pg, po, dissem throughout and in veins, stringers with qtz-carbonate-fluorite-sil-pg-qtz.</p> <p>178.86-180.44 pg with muscovite veins to 3 mm. Some ultrafine aggregates of epidote, white trace rounded black crystals.</p> <p>180.44-184.3 pg as distinct blebs and grains to 2 mm, or as fine grained dark grey aggregates, trace ep, with trace po.</p> <p>184.3-192.4 po=pg, as irregular grains and fine grained aggregates to 5 x 4 mm. Interbedded trace ep, siliceous and some quartzite consistent. Minor carbonate qtz-pg-po veins 10° LCA.</p> <p>7-10%</p>
<p>192.4-196.18 As for 180.44-184.3, but qtz 15%. Parties of grey translucent groundmass material as for 184.3-192.4 persist until 194.58 m.</p>	<p>Contact 80°</p> <p>< 196.6 Bedding 110°</p> <p>< 197.1 Bedding 30°</p> <p>< 200.2 Bedding 45°</p> <p>< 201.3 Small fold, axis 50°, trace 45°</p> <p>< 202.0 Bedding 55°</p> <p>< 206.6 Bedding 45°</p> <p>< 207.3 Fold, axis 55°, trace 5°</p> <p>< 208.0 Bedding 5°</p>	<p>192.4-196.18 as above, with some trace carbonate, minor fluoro. po diminishes to trace.</p> <p>194.58-196.18 pg, trace fluoro, weak trace arsenic, a little translucent, new lower contact.</p> <p>196.18-208.1 pg, as bedded laminae to 1 mm, dissem in some siltstone beds and in sparse thin veins with qtz-carbonates.</p> <p>3%</p>
<p>196.18-208.1 SILTSTONES AND SHALES</p> <p>Thinly interbedded grey siltstones, silty shales with thin black grey shales with pyrite laminae as for 146.6-160.0 m. The upper 2 m is hard and silicified, weakly fractured.</p>	<p>0/1/10</p> <p>< 196.6 Bedding 110°</p> <p>< 197.1 Bedding 30°</p> <p>< 200.2 Bedding 45°</p> <p>< 201.3 Small fold, axis 50°, trace 45°</p> <p>< 202.0 Bedding 55°</p> <p>< 206.6 Bedding 45°</p> <p>< 207.3 Fold, axis 55°, trace 5°</p> <p>< 208.0 Bedding 5°</p>	<p>196.18-208.1 pg, as bedded laminae to 1 mm, dissem in some siltstone beds and in sparse thin veins with qtz-carbonates.</p> <p>3%</p>
<p>END OF HOLE 208.1 m</p>	<p>208.1</p>	<p>208.1</p>