

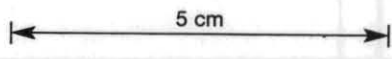
DEPTH INTERVAL	DEPTH from-to : ROCK UNIT <small>Depth: Description and notes indented about 10mm</small>	MINERALISATION	BULKED ASSAYS
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FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R. RYALL (ED), MONOGRAPH NO. 9 AUSTRALAS. INST.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

028528

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

0-36.1 (36.1m)	0-36.1 DOLOMITE, weakly recrystallised. Fine grained pale grey and cream dolomite with weak recrystallisation along brecciation fractures. Some segregation of qtz and carbonates into open space fillings. Well fractured - yellowish clayey material lining fracture planes and puggy zones. (Recovery poor to 18.2m) Fine grained grey dolomite with fine dark grey brecciation fractures alternates with the faintly mottled pale cream and grey recrystallised dolomite as above.	0-12.2 py-sp-fluorite as blebs along fractures, irregular veins with qtz and carbonates and patches to 30mm. 3-5% 12.2-19.9 trace sp in qtz-carbonate veining < 1% 19.9-36.1 sp, py with qtz, carbonates in veins 1-2%	2/3
36.1-37.2 37.2-46.6 (9.4)	36.1-37.2 DOLOMITE SULPHIDE LOSS. 37.2-46.6 DOLOMITE, weakly recrystallised. As for 0-36.1	Fluorite, py, sp, some cass ³ 10% As for 12.2-19.9, < 1%	7/8 2/3
46.6-51.8 (5.2m)	46.6-51.8 Recrystallised DOLOMITE. Dark grey recrystallised carbonates and qtz with white calcite and creamy dolomite surrounding embayed clasts of bleached dolomite.	sp, py, fluorite as blebs and grains to 5mm 3-5%	3/2
51.8-93.6 (41.8)	51.8-93.6 SILTSTONES AND QUARTZITES Khaki green and pale grey clay rich siltstones - sericitic? with some brownish quartzose siltstones, thinly bedded (mostly < 2cm). The quartzites are hard, bluish or brownish grey, some well bedded alternating qtzose-siltstones and sandstones, and occur in intervals 30cm - 2m, separated by siltstone intervals. Brecciated and disrupted, with later fine fracturing 30-60cm. Some sparse greenish shale beds 60m-75m. 79.5-89.2 Quartzites > siltstones.	51.8-58.5 py, po dissem, as blebs, stringers and veinlets 1-2%. Some minor dolomite-qtz-fluorite-py-sp veining. TOTAL 5% 58.5-93.6 py, trace po, dissem. and in veinlets. Some carbonate-py-fluorite-qtz-sp-po-marcasite-ga veining. TOTAL 2-3%	10/11 11/10 10/11
93.6-101.25 (7.65)	93.6-101.25 QUARTZ FELSPAR PORPHYRY. Matrix - finely crystalline, in places pale grey and semi translucent, or yellowish cream Qtz - subhedral - rounded grains to 4mm 10-15% Felspar - yellowish or greenish due to alteration, 2mm or less, 3-5%.	py, marcasite, trace po, arseno, fluorite and sp, cassiterite. Visible concentrations and proportions 3-35%, average 20%. Some weak qtz-py-cassiterite-sp veining (1%)	1
101.25-112.5 (11.25)	101.25-112.5 SILTSTONES and QUARTZITES. As for 51.8-93.6	101.25-103.5 py, trace marcasite, dissem and in blebs and stringers 7% 103.5-112.5 py, dissem and blebs, stringers. Some sparse qtz-carbonate-fluorite-py veining. TOTAL 2-3%	10/11
END OF HOLE 112.5 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. BROADBENT
Date: 7/5/80.

HOLE NO. MBD 43
Sheet of

<p>0-19.9 DOLOMITE, weakly recrystallised.</p> <p>Mottled pale grey and creams, with some segregation of qtz and calcite. Extensively disrupted and brecciated - early recrystallisation has proceeded along brecciation fractures, with some lost core 3.0m - 5.2m. deposition of qtz and recrystallised dolomite, calcite in open spaces. Later fracturing has broken the core to a significant extent - sections are highly broken, with yellowish puggy clay on shear surfaces.</p> <p>LOST CORE 14.8-16.0m.</p>	<p>2/3 Recovery poor to 15.2m.</p> <p>10.2-12.0 Fault zone - core badly broken + washed.</p> <p>Faulted and broken - shears at low angles to core.</p>	<p>0.0-12.2 py-sp-fluorite-qtz as irregular veins and patches 3-5% in brecciation cavities.</p> <p>12.2-14.9. sparse qtz-carbonate-sp veining</p> <p>1-2%</p>
<p>19.9-22.9 DOLOMITE</p> <p>Grey fine grained rather structureless dolomite. Extensively brecciated, with medium grey staining of brecciation fractures.</p>	<p>Gradual Change</p>	<p>19.9-22.9 qtz-carbonate-trace sp-py veining</p> <p>1-2%</p>
<p>22.9-36.1 DOLOMITE, weakly recrystallised.</p> <p>Alternating intervals pale grey weakly recrystallised dolomite and slightly darker grey fine grained unaltered dolomite on a 0.5-1.5m scale. Extensively brecciated and disrupted - fine dark grey brecciation fractures, some of which have poorly defined fronts of recrystallisation to 3-5um. in the unaltered dolomite. Well fractured and sheared (post-recrystallisation) - small discrete breccia zones throughout.</p>	<p>2/3</p>	<p>22.9-36.1 qtz-carbonate-trace sp-py-veining and blebs, irregular patches in brecciation cavities.</p> <p>1-2%</p>
<p>36.1-37.2 DOLOMITE SULPHIDE LOSE RESERVEIVE.</p> <p>Mostly brecciated zone, with bluish green malachite and qtz rich layers finely interbedded with qtz and carbonates (1-2mm).</p>	<p>7/8 Contact 70°</p>	<p>36.1-37.2 Quartzite py, po, sp trace 2 calcite as blebs and grains disseminated along bedding</p> <p>10%</p>
<p>37.2-46.6 DOLOMITE, weakly recrystallised.</p> <p>See 22.9-36.1 for description.</p>	<p>2/3</p>	<p>37.2-46.6 trace sp, py, fluorite as blebs and irregular patches in brecciation cavities.</p> <p><1%</p>
<p>46.6-51.8 Recrystallised DOLOMITE</p> <p>Dark grey recrystallised carbonates and qtz with patches of white calcite and dolomite. The recrystallisation has apparently proceeded along brecciation fractures - some outcrops of pale grey bleached, but otherwise relatively unaltered dolomite. 48.8-51.0 minor talcose alteration - some bands of talc carbonate to 30cm.</p>	<p>3/2</p>	<p>46.6-51.8 sp, py, fluorite as blebs in recrystallised zones, with qtz and remobilised carbonates. 48.8-51.0 S-7%.</p> <p>48.8-52 m - FAULT ZONE.</p>
<p>51.8-93.6 SILTSTONES, minor QUARTZITES.</p> <p>Thinly bedded (mostly <2cm) khaki green/grey sericitic clay rich siltstones. Extensively disrupted by soft-sediment deformation with later minor brecciation and fracturing, some folding. Some siltstones are quartzose, hard and bluish or brownish-grey in colour; these may be interbedded with, or grade into, quartzite intervals up to 1m thick. (The quartzite beds show alternation of silty sand and sandy-silt beds on a 1-2 cm scale)</p> <p>Fine white clay filled fractures, some with Fe-sulphides and carbonates permeate the rock at 30-60m LCA.</p> <p>60.0-93.6 Some minor, contrasted greenish shale beds also some intervals of darker grey, less sericitic material begin to appear.</p>	<p>10/11</p> <p>53.5 20mm dolomite-fluorite-sp vein, 35°</p> <p>53.7 Bedding 15°</p> <p>56.2 15mm dolomite vein with sediment inclusions, 35°</p> <p>58.2 70mm dolomite-sp-ga-fluorite-qtz vein, 30°</p> <p>58.3 40mm dolomite-fluorite-py-marcasite-qtz-sp-po vein, 45°</p> <p>58.4 10mm dolomite-py-povehite</p> <p>63.0 30mm carbonate-fluorite-py-qtz-po vein, broken core.</p> <p>66.4 25mm qtz-ga-carbonate-fluorite-sp-py vein, 45°</p> <p>73.9 30mm breccia zone - dolomite-fluorite with sediment inclusions, 30°</p> <p>79.5 Bedding 50°</p> <p>82.0 20mm dolomite-sp-fluorite-py vein, 35°</p> <p>82.4 20mm sp-dolomite-py-marcasite vein, 15°</p> <p>84.8 50mm dolomite-sp-ga-py-fluorite vein, 20°</p> <p>85.3 40mm dolomite-sp breccia vein, 10°</p> <p>86.5 20mm vuggy py-marcasite-dol-sp-qtz vein, 30°</p> <p>87.2 10mm dol-sp-qtz vein, 35°</p> <p>89.7m 40mm vuggy py-sp-qtz-carbonate vein, 50°</p> <p>90.7 Bedding 15°</p>	<p>51.8-53.5 py, trace po disseminated along bedding and as blebs and stringers 1-3% dolomite-qtz-fluorite-py-sp veining.</p> <p>3-5%</p> <p>58.5-93.6 py, trace po, finely disseminated along bedding and in veinlets and stringers. Sparse dolomite-qtz-fluorite-py-sp veining.</p> <p>3-5%</p>
<p>72.8-73.6 Some bedded talc material with qtz - originally dolomitic?</p> <p>72.7m Sample N2 98072 taken for thin sectioning and petrology.</p> <p>79.5-89.2 Quartzites > siltstones</p> <p>86-93.6 Hard and weakly silicified siltstones and quartzites.</p>	<p>72.8-73.6 30mm breccia zone - dolomite-fluorite with sediment inclusions, 30°</p> <p>79.5 Bedding 50°</p> <p>82.0 20mm dolomite-sp-fluorite-py vein, 35°</p> <p>82.4 20mm sp-dolomite-py-marcasite vein, 15°</p> <p>84.8 50mm dolomite-sp-ga-py-fluorite vein, 20°</p> <p>85.3 40mm dolomite-sp breccia vein, 10°</p> <p>86.5 20mm vuggy py-marcasite-dol-sp-qtz vein, 30°</p> <p>87.2 10mm dol-sp-qtz vein, 35°</p> <p>89.7m 40mm vuggy py-sp-qtz-carbonate vein, 50°</p> <p>90.7 Bedding 15°</p>	<p>93.6-101.25 QUARTZ FELSPAR PORPHYRY</p> <p>Matrix finely crystalline, in places siliceous and almost glassy; pale yellowish or greyish cream in colour. The first 50cm is white and fine grained, with weakly altered Calcipen 5%, qtz 3%. 96.1-98.2 Phenocrysts: qtz, subhedral grains to 4mm, turbid and colourless, 10% Felspar, altered - hard yellowish or greenish brown grains to 2mm, variable 1-7% 98.2-101.25 White finely crystalline groundmass, in some places faintly greyish and translucent. Phenocrysts: qtz rounded and subhedral grains 1-4mm, 10% Felspar, weakly altered, to 2mm, 3-5%. Decrease in grain size and phenocryst abundance in last 40cm.</p> <p>93.6-94.4 py, marcasite, trace po 15%</p> <p>94.1-95.0 py, marcasite, trace arseno-fluorite and fine gr. calcite 3-5%</p> <p>95.0-98.2 py, marcasite > po, trace calcite, arseno, sp Sulphides as fine grained aggregates to 2mm, concentration variable 3-25%. Some sparse qtz-py-marcasite-calcite veining.</p> <p>98.2-101.25 py, marcasite, trace arseno, calcite and po, weak trace sp. Fine grained aggregates and discrete blebs and grains to 2 or 3mm.</p> <p>101.25-102.5 py, trace marcasite, finely disseminated in thin stringers and small blebs 7%</p> <p>103.5-102.5 py, disseminated in fine stringers; sparse qtz-carbonate-fluorite-py veinlets. 2%</p>
<p>101.25 - 112.50 SILTSTONES, minor QUARTZITES.</p> <p>See 51.8-93.6m for description.</p>	<p>Contact irregular, 30°</p> <p>103.4 Bedding 35°</p> <p>100.3 Bedding 55°</p>	<p>101.25-102.5 py, trace marcasite, finely disseminated in thin stringers and small blebs 7%</p> <p>103.5-102.5 py, disseminated in fine stringers; sparse qtz-carbonate-fluorite-py veinlets. 2%</p>
<p>END OF HOLE 112.5m.</p>	<p>5cm</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								
98010		1.1	3.0	2.0	470									
98011		5.2	7.2	"	480									
12		7.2	9.2	"	520									
13		9.2	11.2	"	420									
14		11.2	13.2	"	210									
15		13.2	14.8	1.6	160									
16		16.1	18.1	2.0	10									
17		18.1	20.1	"	30									
18		20.1	22.1	"	110									
19		22.1	24.1	"	180									
20		24.1	26.1	"	270								205	check assay
21		26.1	28.1	"	180									
22		28.1	30.1	"	330									
23		30.1	32.1	"	X									
24		32.1	34.1	"	18									
25		34.1	36.1	"	150									
326		36.1	37.2	1.1	65									
27		37.2	39.2	2.0	5000									
28		39.2	41.2	"	14									
29		41.2	43.2	"	12									
030		43.2	45.2	"	16									
31		45.2	47.2	"	10									
32		47.5	48.5	1.3	130									
33		48.5	50.5	2.0	2400									
34		50.5	51.8	1.8	2850									
35		51.8	53.8	2.0	90									
36		91.6	93.6	"	180									

028531

Notes: - Sn by XRF B. Method

X - means less than 4

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. 11BD 43
 SAMPLE TYPE: DRILL CORE FROM 11 TO 936

