

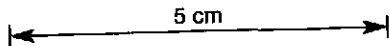
DEPTH	INTERVAL	DEPTH from-to : ROCK UNIT	MINERALISATION	BULKED ASSAYS
		Depth : Description and notes indented about 10mm		

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

028464

ALTER TYPING THIS SIZE OF FORM WILL BE PHOTO-REDUCED TO A4 SIZE

0	0-1.5 (1.5m)	TRICONE TO 1.5m - NO CORE.		
5	1.5-7.5 (6.0m)	1.5-7.5 QUARTZ FELSPAR PORPHYRY Brownish grey fine grained matrix, well fractured and broken, with bleaching and removal of material by weathering. Qtz - rounded and irregular turbid phenocrysts to 6.5mm. Felspar not apparent - possibly removed by weathering? Broken contact		Pyrite, porous and pitted, some grains up to 3mm. TOTAL 10%
10	7.5-17 (9.5m)	7.5-17 FAULTED DOLOMITE SULPHIDE LOG. Very faulted and broken - recovery 25-30%. Mostly residual pyrite, with qtz grains in a matrix of sticky black clay. Some intervals of fine grained ochreous grey pug with very little sulphide - faulted weathered dolomite? Some rare fragments of weathered porphyry (apophyses?) Broken contact		Py 40-50%, porous, pitted, in almost massive fragments
20	17-26 (9m)	17-26 FAULT ZONE Laminated black puggy clay with minor intercalations of fault breccia - clasts of pale grey dolomite and bluish green (?) serpentine with pyrite fragments in a brownish or black puggy matrix. The laminated clay has a banding of silt and clay size grains 1-5mm, and a shaly fracture along the fine grained laminations Broken Contact		Py in fragments in breccia zones 2-3%
25	26-26.5 (8m)	26-26.5 Weakly altered DOLOMITE. Some fragments DSL in top 4m, with heavy pinkish		Py in upper 4m as porous aggregates
30	26.5-30 (3.5m)	LOST CORE ZONE altered dolomite. lower 4m is brecciated unconsolidated white dolomite fragments, some in a matrix of soft white pug. Recovery poor Broken contact		with quartz intergrowths. TOTAL 10%
35	30-38.3 (8.3m)	30-38.3 Brecciated grey siltstones, sandstones and silty shales. Amorphous siltstones, sandstones are hard and silicified, medium grey. More clay rich siltstones and shales are a darker grey and softer. Very fractured and broken - core reduced to rubble. 38.3-41.0 Grey quartzite? - weakly banded SD LCA with sparse 1-2mm cavities. Well fractured and broken. 41-42.5 friable soft white fine grained fault pug. Originally siltstone?		Nil - possibly removed by weathering.
45	42.5-52.0 (9.5m)	LOST CORE ZONE. - SILTSTONES AND QUARTZITES? Sludge samples - grey quartzite fragments and white qtz grains with some minor grains Py.		Trace py in sludge samples.
55	52-53.0 (1.0m)	52-53.0 GREEN SILTSTONES AND SILTY SHALES The interval 7.5-52m has been badly crushed and broken by faulting, with attendant removal of diagnostic mineral assemblages by a combination of cataclasis and subsequent weathering. Total core recovery: 30%		Trace thin bedded py
60		END OF HOLE 53.0m.		



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								
97292		1.5	3.5	2.0	2350		470	65	70	2	30	360		
93		3.5	5.5	"	410		290	100	5200	2	20	210		
94		5.5	7.5	"	4300		310	55	910	1	25	260		
95		7.5	9.5	"	1.02%		1200	85	26	1	70	5300		
96		9.5	11.5	"	860		930	4	580	<1	210	540		
97		11.5	13.5	"	410		850	14	1600	<1	210	820		
98		13.5	15.5	"	1.42%		500	90	1500	<1	80	1350		
99		15.5	17.5	"	3350		540	400	9800	3	65	960		
97600		17.5	19.5	"	2600		970	740	250%	7	75	9160	2500	Recheck of check assay
01		19.5	21.5	"	5900		520	170	1.20%	1	55	800		
2		21.5	23.5	"	3450		430	100	7100	<1	40	600		
3		23.5	25.5	"	5100		410	120	4200	1	60	1750		
4		25.5	27.5	"	2850		430	40	2500	<1	10	320		
5		29.0	30.4	1.4	1000									
6		30.4	32.0	1.6	130									
7		32.0	34.0	2.0	85									
8		34.0	36.0	"	290									
9		36.0	37.8	1.8	350									
10		38.3	41.0	2.7	1000									
11		41.0	42.5	1.5	65									

028465

Notes:- Sn by XRF Bi Method.

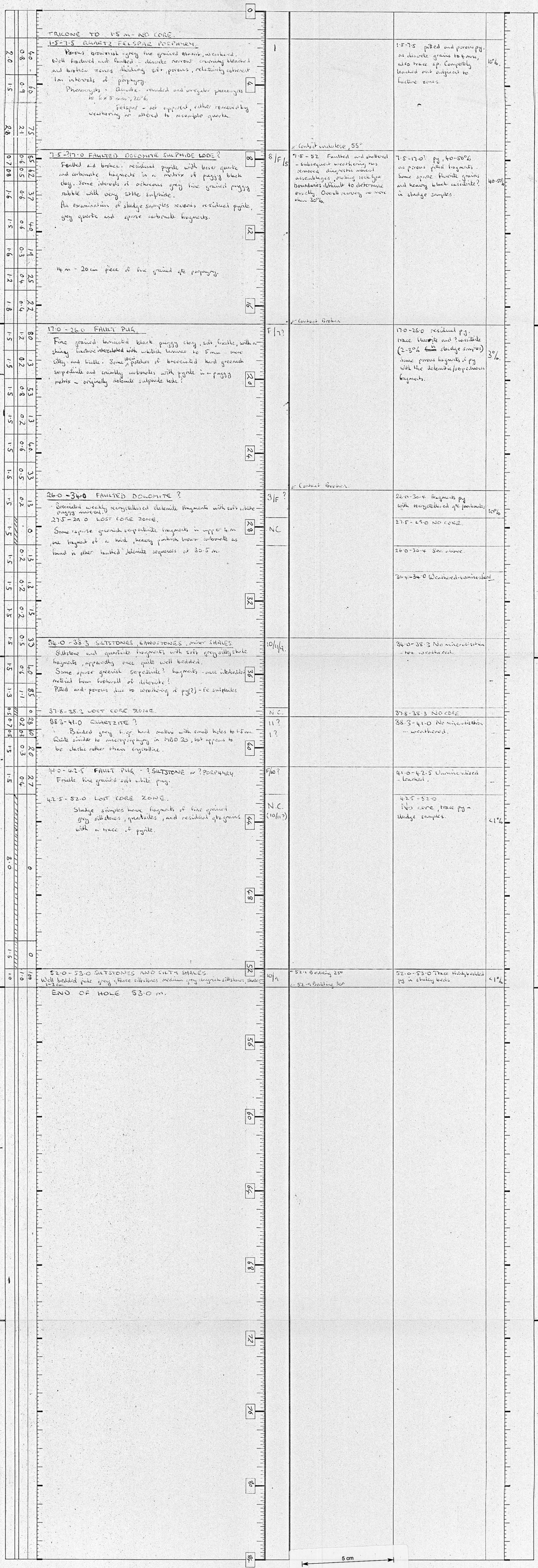
METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. MBD 31 A
 SAMPLE TYPE : DRILL CORE FROM 1.5 TO 42.5

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								
97732		7.0	8.5	1.5	2.76%									
33		8.5	9.5	1.0	3.22%									
34		9.5	11.0	1.5	5900									
35		11.0	12.5	"	2150									
36		12.5	14.0	"	4300									
37		14.0	15.5	"	1.28%									
38		15.5	17.0	"	7700									
39		17.0	18.5	"	9300									
740		18.5	20.0	"	9600								1.05	pulp check
41		20.0	21.5	"	9100									
42		21.5	23.0	"	7900									
43		23.0	24.5	"	8700									
44		24.5	26.0	"	8100									
45		26.0	27.5	"	4600									
46		27.5	29.0	"	5700									
47		29.0	30.5	"	4500									
48		30.5	31.5	"	2550									
49		32.0	33.5	"	4000									
750		33.5	35.0	"	1150									

028466

Notes: — Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT
 ASSAY SUMMARY SHEET HOLE NO. MBD 31 B
 SAMPLE TYPE : DRILL CORE FROM 7.0 TO 35.0
 SLUDGE



TRICONE TO 15 m - NO CORE.
 1.5-7.5 QUARTZ FELSPAR PORPHYRY.
 Porous brownish-grey fine grained matrix, well sorted.
 Well fractured and faulted - discrete narrow crushing bleached
 and broken zones showing soft porous, relatively coherent
 1m intervals of porphyry.
 Phenocrysts: Quartz - rounded and irregular phenocrysts
 to 6x5 mm, 20%
 Felspar - not apparent, either removed by
 weathering or altered to resample quartz.

7.5-17.0 FAULTED DOLOMITE SULPHIDE LODE?
 Faulted and broken. Residual pyrite with lesser quartz
 and carbonate fragments in a matrix of puggy black
 clay. Some intervals of ochraceous grey fine grained puggy
 rubble with very little sulphide.
 An examination of sludge samples reveals residual pyrite,
 grey quartz and sparse carbonate fragments.

 14 m - 20 cm piece of fine grained qtz porphyry.

17.0-26.0 FAULT PKG.
 Fine grained laminated black puggy clay, soft, friable, with a
 shaly fracture intercalated with whitish laminae to 5mm - more
 silty and brittle. Some patches of brecciated hard greenish
 serpentine and crumbly carbonates with pyrite in a puggy
 matrix - originally dolomite sulphide lode?

26.0-34.0 FAULTED DOLOMITE?
 Dissected weakly recrystallised dolomite fragments with soft white
 puggy matrix.
 27.5-29.0 LOST CORE ZONE.
 Some sparse greenish serpentine fragments in upper 4m
 one fragment of a hard, heavy pinkish brown carbonate as
 found in other faulted dolomite sequences at 30.5m.

34.0-38.3 SILTSTONES, SANDSTONES, MINOR SHALES.
 Siltstone and quartzite fragments with soft grey silty shale
 fragments, apparently once quite well bedded.
 Some sparse greenish serpentine? fragments - once interbedded
 noticed from breccia of dolomite?
 Pitted and porous due to weathering of pyrite? - Fe sulphides

38.3-41.0 QUARTZITE?
 Bedded grey f. sp. hard matrix with small holes to 1.5mm.
 Quite similar to microporphyry in MBO 20, but appears to
 be elastic rather than crystalline.

41.0-42.5 FAULT PKG - ? SILTSTONE or ? PORPHYRY.
 Friable fine grained soft white pyg.

 42.5-52.0 LOST CORE ZONE.
 Sludge samples have fragments of fine grained
 grey siltstones, quartzites, and residual qtz grains
 with a trace of pyrite.

52.0-53.0 SILTSTONES AND SILTY SHALES.
 Well bedded pale grey siltstones medium grey clayey siltstones shales
 indented about 15mm.
 END OF HOLE 53.0 m.

1	8/F/15	1.5-7.5 pitted and porous pyg. as discrete grains to 4mm, also trace sp. Completely leached out subject to fracture zones.	10%
8	8/F/15	7.5-17.0: pyg, 40-50% as porous pitted fragments. Some sparse flinty grains and heavy black calcite? in sludge samples.	40-50%
17	F/17?	17.0-26.0 residual pyg. trace flinty and calcite (2-3% from sludge samples) some porous fragments of pyg with the dolomite/serpentine fragments.	3%
26	3/F?	26.0-34.0 fragments pyg with recrystallised qtz fragments.	10%
27.5-29.0	NC	NO CORE.	
26.0-30.4		See above.	
30.4-34.0		Weathered laminated.	
34.0-38.3	10/11?	No mineralisation - too weathered.	
38.3-41.0	NC	NO CORE.	
38.3-41.0	11? 1?	No mineralisation - weathered.	
41.0-42.5	F/40?	Unmineralised - leached.	
42.5-52.0	NC (10/11?)	No core, trace pyg in sludge samples.	<1%
52.0-53.0	10/11	Trace highly bedded pyg in shaly beds.	<1%

5 cm

DEPTH from-to : ROCK UNIT capital letters, underlined *Depth: Detailed rock description and notes indented about 15mm	GRAPHIC LOG SCALE AND INDENTATION FROM 15mm	STRUCTURAL AND VEIN INFORMATION ATTITUDE = Angle between feature and LONG CORE AXIS	MINERALISATION PERCENT FROM SLUDGE SAMPLES	NOTES
---	--	--	--	-------

METALS EXPLORATION LIMITED
 MINERAL EXPLORATION DRILL LOG
 Scale 1:100

Prospect or project MOUNT BISCHOFF
 Logged by G. BROADBENT date 22/2/80
 Prepared 8/6/80

HOLE No. MBO 31
 LOG SHEET 2 OF 2
 from 0 m to 53.0 m