MBD 35

DEPTH	INTERVAL	DEPTH from-to : ROCK UNIT (capital letters, underlined) / Depth : Description and notes (indented about 10 mm)	POINTER	GRAPHIC LOG	POINTER	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS

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

028484

0-3.0 (3.0m)	TRICONE TO 3.0m - NO CORE.			
3.0-49.8 (46.8m)	3.0-49.8 QUARTZITES AND THINLY BEDDED SILTSTONES. Highly faulted and fractured - fragments of light grey massive quartzite, thinly bedded siltstone and rare dark grey shale in a matrix of grey puggy clay. Some quartzites have sparse flakes of white mica, also some dark grey dendritic staining along fracture paths. 3-20.5 Max length of core 20-30 cm, broken by fractures 20 and 50° LCA, and puggy clay. Recovery poor. 20.5-27.1 recovery better, 90%. not as shattered. 27.1-45.2 Dark grey puggy clay, some fragments qtzite etc. 45.2-49.8 Mottled cream-white and brown-black puggy clay - faulted dolomite?			Sparse remnant pg, qtz as thin veinlets and stringers < 1%.
49.8-67.6 (17.8m)	49.8-67.6 DOLOMITE, faulted. Creamy white, soft, friable in places bleached and patches of brown to black laminated puggy clay with dolomite fragments. Originally brecciated fabric, virtually unaltered clasts of dolomite separated by fine dark grey fractures. Some minor recrystallisation and rare fragments serpentinite/talc.	Broken.		Weathered - originally probably < 1%.
67.6-70.5 (2.9)	67.6-70.5 QUARTZ FELSPAR PORPHYRY Fine grained Qtz 1% Felspar 2-3%	Broken		Pg, trace fluorite, sp to 2mm 1-2%.
70.5-85.0 (14.5)	70.5-85.0 SILTSTONES AND QUARTZITES, minor SHALES. Siltstones greenish grey and sericitic, sometimes quartzose, thinly bedded and brecciated, with intervals of dark grey fine grained quartzite, - non micaceous 70.5-74.7 Puggy grey clay with rock fragments 74.7-85.0 Highly broken, bedding and fracturing low angles LCA.	Broken		70.5-74.7 Sparse Grays pg, qtz 74.7-85.0 pg, qtz as thin veinlets and irregular stringers, 1% - locally 5%.
	END OF HOLE 85.0 m.			

5 cm

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

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 (where reduced)

Prepared by: G. BROADBENT

Date: 12.3.80.

HOLE No. MBD 35

Sheet of

028485

REPORT No.

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

MBD 35

Prospect, area, project or mine. MOUNT BISCHOFF

HOLE No. MBD 35

COLLAR LOCATION

	Grid name	Rectangular space co-ordinates PLANAR CO-ORDINATES		ELEVATION
(1)	MBJV	1860.04 N	1179.97 E	640.91
(2)		N	E	
(3) Aust. Map Grid PRECISE / APPROX.		mE	mN	mA.H.D.

1:250 000 Sheet No. BURNIE SK 55-3
1:100 000 Sheet No. HELLYER 8015
State TASMANIA

Mineral Tenement EL 13/79
Holder METALS EXPLORATION LTD

Cadastral location and details
CROWN LAND / PRIVATE

W.C. Bearing from collar
- magnetic
- — grid (1)
- grid (2)
- grid (3)
- true

Inclination at collar 90°

Total length 85.0m

Commenced: 28 / 2 / 80
Completed: 5 / 3 / 80

Drilling contractor
LONGYEAR AUST PTY LTD

Rig type
LONGYEAR BBS 1

Core size and non-coring (NC)

TRICONE	0	TO 3.0m
NQ	3.0	TO 85.0m
		TO
		TO
		TO
		TO

Details of down hole location-survey methods.
TROPARI every 40m

Purpose of drilling and anticipated lengths to targets.
To investigate possible tin mineralisation in extensions to main dolomite horizon 0-74m. Planned depth of hole 80m

Results of down hole location-survey.

LENGTH FROM COLLAR	W.C. BEARING type: magn.	DIP
40.0	210°	88°
85.0	310°	88°

Comments on drilling.

Legend for graphic log column (see drill log for Hole No. _____)

'DERWENT' PENCIL No.		FIELD ROCK NAME, ETC.

Symbols and abbreviations for drilling notes column.

LOGGED BY G.BROADBENT	LOGGED BY	LOGGED BY
FROM 0 TO 85.0m	FROM TO	FROM TO
DATE 10/3/80	DATE	DATE

Company managing exploration programme.
METALS EXPLORATION LTD.

HOLE No. MBD 35
Log sheet 1 of 3

028486

TRICONE TO 3.0 m - NO CORE.

3.0 - 49.8 m. SANDSTONES and THINLY BEDDED SILTSTONES.

Highly faulted and fractured - rock fragments < 20 cm in a matrix of grey puggy clay. The sandstones are light grey in colour, quartzose and fine grained. Lesser fragments of dark grey clay rich siltstones and rare silty shales, thinly bedded. Some sandstone fragments are micaceous - small flakes of white mica visible throughout and concentrated on fracture surfaces. Sandstone beds probably originally massive to 1-2 m, with some soft sediment disruption and brecciation pre-faulting; sparse intervals of siltstone appear to be well bedded with only minor disruption.

33.8 - 49.8 Dark grey puggy clay, with occasional fragments of sandstone, quartzite and siltstone.

11/5/10

0-20.5 Highly faulted and sheared - rock fragments in a puggy clay matrix. Two sets of intersecting shear planes - one 15-20°, the other 30°, which have a line of intersection ≥ 40° NEA.

< 18.6 Bedding 45°

20.5-27.1 Improved recovery - less fault pug material.

< 21.9 Bedding 350

27.1 - 33.8 As for 0-20.5, rock fragments to 20 cm in puggy matrix

33.8-49.8 Fault pug.

3.0-49.8 - Weathered, trace remnant py-qtz veining

<1%

DRILL ADVANCE	CORE LENGTH RECOVERED	% RECOVERY ESTIMATE OR LOST CORE ZONE
1.0	0.3	30
1.2	0.6	50
1.5	0.3	20
0.6	0.2	67
0.1	0.1	100
1.0	0.3	30
0.4	0.3	75
0.7	0.7	100
0.5	0.5	100
1.5	0.2	13
0.8	0.7	88
1.2	0.4	33
1.0	0.8	80
1.5	0.5	33
1.5	0.6	40
0.7	0.4	57
0.8	0.8	100
0.9	0.6	67
0.6	0.6	100
1.2	0.9	75
0.7	0.7	100
0.4	0.4	100
0.8	0.7	88
0.6	0.6	100
1.2	0.9	75
0.7	0.7	100
1.0	0.6	60
0.8	0.1	13
0.6	0.6	100
0.8	0.6	75
1.1	0.8	72
0.8	0.3	38
0.8	0.5	63
0.5	0.3	60
0.5	0.4	80
0.8	0.6	75
1.2	0.6	50
1.3	1.2	92
1.6	0.8	50
1.4	0.8	57
0.8	0.3	38
0.8	0.5	63
1.6	0.8	50
1.5	0.9	60
1.6	0.2	13
1.3	1.2	92
1.6	0.9	56

5 cm

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

DEPTH POINTER | DRILL LOG DEPTH TAG | GRAPHIC LOG SEE LEGEND ON SHEET 1 | DEPTH POINTER | STRUCTURAL AND VEIN INFORMATION ATTITUDE = Angle between feature and LONG CORE AXIS | MINERALISATION | PERCENT MINERALISATION Visual estimate | NOTES

METALS EXPLORATION LIMITED

MINERAL EXPLORATION
DRILL LOG
Scale 1:100

Prospect or project MOUNT BISCHOFF
Logged by G. BROADBENT date 10 / 3 / 80

HOLE No. MBD 35
LOG SHEET 2 OF 3
from 0 m. to 48.0 m.

Prepared 8/6/80

028487

DRILL ADVANCE	% RECOVERY ESTIMATE	CORE LENGTH RECOVERED	LOST CORE/ZONE	DEPTH from-to: ROCK UNIT (capital letters, underlined) / Depth: Detailed rock description and notes (indented about 15 mm)	DRILL LOG DEPTH TAG	DEPTH POINTER	GRAPHIC LOG (SEE LEGEND ON SHEET 1)	DEPTH POINTER	STRUCTURAL AND VEIN INFORMATION (ATTITUDE = Angle between feature and LONG CORE AXIS)	MINERALISATION	PERCENT MINERALISATION Visual estimate	NOTES
1.5	93	1.4		See previous page	84							
0.8	75	0.6		?49.8-?67.6 FAULTED DOLOMITE.			2/3/F		Contact Broken.			
1.0	30	0.3		49.8-67.0 Soft porous creamy white bleached dolomite fragments in a buff-coloured or brown/black puggy clay matrix. Some sparse fragments of grey quartz and dense grey recrystallised carbonates to 5mm laminealised.	52					49.8-67.6 Reworked porous fragments of dolomite in a pale brown or brown/black puggy clay matrix.	49.8-67.6 Weathered - no mineralisation	
1.4	29	0.4										
1.1	18	0.2										
0.5	80	0.4										
1.2	100	1.2										
1.6	100	1.6			56							
1.6	31	0.5										
0.4	25	0.1										
0.5	20	0.1										
0.9	56	0.5			60							
1.0	40	0.4										
1.2	75	0.9										
1.5	0	0			64							
1.0	50	0.5										
1.3	0	0										
0.4	75	0.3		67.0-67.6 Hard dark bluish green serpentinite(?) fragments in black clay matrix - DSL?			??		Contact Broken.			
1.2	92	1.1		?67.6-?70.5 QUARTZ FELSPAR PORPHYRY	69		1		67.6-70.5 Not as puggy - highly fractured and broken.	67.6-70.5 py, hematite, trace sp. Small well formed grains to 2mm	1-2%	
1.0	100	1.0		Matrix - fine grained, yellowish cream, slightly greyish near margins.								
0.8	62	0.5		Qtz - small subhedral phenocrysts < 2mm, 1%								
0.8	62	0.5		Felspar - rounded, weathered grains to 2mm, 2-3%					Contact Broken.			
1.6	6	0.1		70.5 - 85.0 SILTSTONES WITH QUARTZITES	72		10/11		70.5 - 78.6 Grey puggy clay with small fragments siltstone, quartzite	70.5-74.7 trace py, qtz as fragments derived from broken up thin veins	<1%	
0.9	100	0.9		Thinly bedded pale grey quartzose siltstones with faintly greenish dark grey clay rich siltstones and rare shale laminae. Quartzite, are medium grey in colour, non micaceous, and very hard; beds to 1m.								
0.6	100	0.6		Extensively brecciated, with minor silt-sediment disruption in siltstones (displaced by later fracturing).								
0.4	50	0.2							74.7 - 78.6 Severe core losses.	74.7 - 85.0 py, qtz as irregular veinlets and thin stringers and 'sweet-oaks'.	1%	
0.6	83	0.5			76				← 75.3 Bedding 25°			
0.6	50	0.3										
0.6	50	0.3										
0.4	50	0.2										
1.7	6	0.1							78.6 - 85.0 Highly fractured and sheared, little puggy material.			
0.4	75	0.3										
0.3	62	0.2							← 81.1 Bedding 10°			
0.9	100	0.9			80							
0.4	100	0.4										
0.7	100	0.7							← 83.5 Bedding 35°.			
1.3	92	1.2										
0.8	75	0.6			84							
1.1	82	0.9										
				END OF HOLE 85.0 m.	88							
					92							
					96							

5 cm

METALS EXPLORATION LIMITED

MINERAL EXPLORATION
DRILL LOG
Scale 1:100

Prospect or project: MOUNT BISCHOFF.
Logged by: C. BROADBENT date: 10 / 3 / 80
Prepared 8/6/80

HOLE No. MBD 35
LOG SHEET 3 OF 3
from 48 m. to 85.0 m.

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								
97802		3.0	5.0	2.0	150									
3		5.0	7.0	"	14									
4		7.0	9.0	"	10									
5		9.0	11.0	"	10									
6		11.0	13.0	"	20									
7		13.0	15.0	"	18									
8		15.0	17.0	"	26									
9		17.0	19.0	"	28									
8.10		19.0	21.0	"	22									
11		21.0	23.0	"	30									
12		23.0	25.0	"	36									
13		25.0	27.0	"	90									
14		27.0	29.0	"	440									
15		29.0	31.0	"	180									
16		31.0	32.5	1.5	270									
97676		32.5	34.5	2.0	210									
77		34.5	36.5		130									
78		36.5	38.5	"	120									
79		38.5	40.5	"	80									
80		40.5	42.5	"	110								110	pulp check
81		42.5	44.5	"	1150									
82		44.5	46.5	"	300									
83		46.5	48.5	"	100									
84		48.5	50.5	"	34									
85		50.5	54.3	3.8	75									
86		54.3	56.3	2.0	100									
87		56.3	58.3	"	350									
88		58.3	60.3	"	520									
89		60.3	62.3	"	250									
90		62.3	63.3	"	6800									

Notes :— Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 35 A

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 63.3

0288

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								
97691		64.7	65.7	1.0	2050									
92		67.0	67.5	0.5	660									
93		67.5	69.5	2.0	320									
94		69.5	70.4	0.9	300									
95		70.4	72.4	2.0	5300									
96		72.4	74.4	"	3550									
97		74.4	76.4	"	60									
98		76.4	78.4	"	36									
99		78.4	80.4	"	100									
97800		80.4	82.4	"	110								120	Pulp check.
1		82.4	85.0	2.6	170									

Notes :— Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 35B

SAMPLE TYPE : DRILL CORE FROM 64.7 TO 85.0

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								
97780		3.0	4.5	1.5	140								140	pulp check
81		4.5	6.5	2.0	360									
82		6.0	7.5	1.5	410									
83		7.5	9.0	"	240									
84		10.0	11.5	"	190									
85		11.5	13.0	"	250									
86		13.0	14.5	"	95									
87		14.5	16.0	"	80									
88		16.0	17.5	"	270									

0284690

Notes:— Sn by XRF B. Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 35c

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 17.5

SLUDGE