MBD-34

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

028479

DEPTH	INTERVAL	DESCRIPTION	MINERALISATION
0	~~0-3.0~~ (3.0)	TRICONE TO 3.0m - NO CORE.	
	~~3.0-14.2~~ (11.2)	**3.0-14.2 DOLOMITE SULPHIDE LODE**, FAULTED. 3.0-30.0 Core highly fractured and broken - recoveries 20-30% 3.0-14.2. Residual cellular pyrite, with some granular qtz and rare fluorite in a matrix of puggy black clay. 13-14.2 some fragments greenish serpentine/talc.	Py, trace fluorite, some vuggy carbonates 13.0m. Py is crystalline, porous and pitted, 70%
10		⑨ Broken contact	
	~~14.2-20.7~~ (6.5)	**14.2-?20.70 GREY DOLOMITE** (FAULTED) Recovery <20%. Fragments unaltered grey dolomite in a matrix of stiff brown and black puggy clay.	Py as blebs and grains, some small cellular fragments. Minor vuggy qtz-carbonate fragments. TOTAL 3%.
20		Broken contact	
	~~20.7-60.0~~ (39.3)	**20.70-60.0 MASSIVE SILTSTONES AND SANDSTONES** 20.7-30.0 Recovery < 30%, LOST CORE 22.0-24.0. Washed fragments grey silicified siltstones with some faintly greenish dark grey siltstones and minor shales and bluish grey quartzites. Some rare clasts almost black carbonaceous siltstone surrounded by greenish sericitic siltstone.	20.7-32.1 Mineralisation NIL.
30		30.0-42.0 Recovery slightly better - broken core separated by small puggy zones.	32.1-39.5 sparse veinlets py, carbonates-qtz 1%
40		39.5-60.0 Massive dark grey sandstones, brecciated, with faintly greenish grey siltstone intervals and rare thin carbonaceous? shale laminae. Some sandstones are hard, silicified, bluish grey quartzites. 42.0-60.0. Core is fractured and broken, but recovery 90-100%	39.5-60.0 po, py, dissem. in some beds and as small blebs to 2mm. Py occurs in small veinlets and stringers with qtz and rare po. TOTAL: 2-3%.
50			54.5-57.1 py, po, dissem and as veinlets and stringers in quartzite 7%.
60		END OF HOLE 60.0m.	

5 cm

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 (when reduced to A4)

Prepared by: G. BROADBENT
Date: 5.3.80.

HOLE No. MBD 34
Sheet of

028480

REPORT No.

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

MBD. 34

Prospect, area, project or mine. MOUNT BISCHOFF

HOLE No. MBD34

COLLAR LOCATION

Grid name — Rectangular space co-ordinates

	PLANAR CO-ORDINATES		ELEVATION
(1) MBJV	1899.77 N	1220.02 E	646.75
(2)	N	E	
(3) Aust. Map Grid (PRECISE / APPROX.)	mE	mN	m A.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 60 m.

Commenced: 23 / 2 / 80

Completed: 27 / 2 / 80

Drilling contractor: LONGYEAR AUST PTY LTD

Rig type: LONGYEAR 38S1

Details of down hole location-survey methods.
TROPARI every 30 m

Purpose of drilling and anticipated lengths to targets.
To investigate a possible extension of the main dolomite horizon at 31-63 m. Planned depth of hole 70 m.

Core size and non-coring (NC)

TRICONE	0	TO 3.0
NQ	3.0	TO 33.6
BQ	33.6	TO 60.0
		TO
		TO
		TO

Results of down hole location-survey.

LENGTH FROM COLLAR	W.C. BEARING type Azimuth	DIP
35.5	200°	88°
	226°	87°

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 N. BROADBENT
FROM 0 TO 60.0 m.
DATE 28.2.80

LOGGED BY
FROM TO
DATE

LOGGED BY
FROM TO
DATE

Company managing exploration programme.
METALS EXPLORATION LTD

HOLE No. MBD 34
Log sheet 1 of 2

028481

DEPTH from-to : ROCK UNIT (Depth : Detailed rock description and notes)	Graphic log	Structural and vein information	Mineralisation	Percent mineralisation (visual estimate)
TRICONE TO 3.0 m - NO CORE.				
3.0 - 14.2? DOLOMITE SULPHIDE LODE Highly fractured and broken - residual cellular pyrite in a matrix of sticky black clay. Some grey granular qtz intergrown with py and rare fragments of porous green serpentinite. 11.5 - 13.0 Sparse fragments dolomite and vuggy recrystallised carbonates and qtz. 13.0 - 14.2 Fragments of soft dark grey talcy serpentinite	F 8/5 ; 7/6?/F	0-30 Fault zone - core recovery very poor, ground very puggy and broken. ← Broken contact.	3.0 - 14.2 py, rare grains fluorite in sludge samples. Py is pitted and porous, intergrown with qtz, carbonates, fine grained black clay filling interstices. Original percentage difficult to estimate - possibly some po has been weathered out.	~70%
?14.2 - ?20.70 FAULTED DOLOMITE. Fragments of bleached fine grained grey dolomite in a matrix of stiff brown and black puggy clay. Some minor pieces of recrystallised carbonates, and rare pieces of heavy pinkish brown Fe or Mn? carbonate. 18.3 - 18.6 Lost core zone.	2/F		?14.2 - 20.7 py as blebs etc in recrystallised qtz, carbonates. Some pieces porous py to 3×2×2 cm.	2-3%
20.70 - 39.5 MASSIVE SILTSTONES, MINOR QUARTZITES 22 - 24 m LOST CORE ZONE. 20.70 - 39.5 Washed fragments of hard grey siltstone with some faintly greenish dark grey clay rich siltstones. Quartzite beds - hard, bluish grey and fine grained to 0.5 m, brecciated. Extensively faulted to 30 m, brecciated and sheared 30 - 39.5 m. Some intervals of severe ?soft sediment disruption - siltstone clasts in a contorted matrix of dark grey clay rich siltstones.	10/11 ; N.C. ; 10/11	30 m - 42 m Core recovery improves, extensively broken with small puggy zones.	20.70 - 32.1 Weathered - no mineralisation 22 - 24 No Core. 24 - 32.1 See above 32.1 - 39.5 py as thin films on fracture planes, with minor carbonates, qtz.	- - 1%
39.5 - 60.0 MASSIVE SANDSTONES / SILTSTONES Dark grey fairly soft brecciated sandstones with intervals of quite well bedded siltstones / sandstones. The thinly bedded intervals are mainly silty sandstones / sandy siltstones, individual beds to 20 cm, with some sparse clay rich greenish grey siltstones. Some rare thin black carbonaceous laminae appear with increasing depth and greenish tinge to clay rich siltstones gradually disappears. 54.5 - 57.1 Very hard dark bluish grey quartzite 57.1 - 60.0 Increased proportion of clay rich siltstones, dark grey, thinly bedded with minor disruption and contortion.	11/5/10 ; 11 ; 10/11/5	Gradual Change ← 42.8 Bedding 15° ← 44.6 Bedding 20° ← 47.5 Bedding 25° ← 49.7 Bedding 35° ← 52.0 Bedding 35° ← 54.1 Bedding 55° ← 59.5 Bedding 45°	39.5 - 54.5 po, py dissem in some beds, and as small blebs to 2 mm. Sparse qtz - po - py stringers and veins 54.5 - 57.1 py, po finely dissem and in veinlets with qtz, minor carbonates 57.1 - 60.0 py, finely dissem and in sparse qtz, carbonate veinlets.	2-3% 7% 1-2%
END OF HOLE 60.0 m.				

5 cm

DRILL ADVANCE	LOST CORE ZONE	CORE LENGTH RECOVERED OR % RECOVERY ESTIMATE	DEPTH from-to : ROCK UNIT capital letters, underlined Depth : Detailed rock description and notes indented about 15 mm.	DEPTH TAG DRILL LOG	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

METALS EXPLORATION LIMITED

MINERAL EXPLORATION
DRILL LOG
Scale 1:100

Prospect or project: MOUNT BISCHOFF
Logged by: G. BROADBENT date 28/2/80

HOLE No. MBD 34
LOG SHEET 2 OF 2
from 0 m. to 60.0 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								
97717		3.0	5.0	2.0	800									
18		5.0	7.0	"	460									
19		7.0	9.0	"	380									
20		9.0	11.0	"	130								320	pulp check.
21		11.0	13.0	"	370									
22		13.0	15.0	"	190									
23		15.0	17.0	"	55									
24		17.0	19.0	"	65									

Notes :— Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 34A

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 19.0

02818

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								
97769		3.0	4.5	1.5	2050									
70		4.5	6.0	"	700									
71		6.0	7.5	"	300									
72		7.5	9.0	"	230									
73		9.0	10.5	"	310									
74		10.5	12.0	"	1200									
75		12.0	13.6	1.6	1350									
76		13.5	15.0	1.5	1050									
77		15.0	16.5	"	780									
78		16.5	18.0	"	700									
79		18.0	19.5	"	940									

028488

Notes:— Sn by XRF Bi Method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 34B

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 19.5

SLUDGE