METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

Prospect, area, project or mine. MT. BISCHOFF TIN

HOLE No. MBD 88

COLLAR LOCATION

Grid name — Rectangular space co-ordinates

	PLANAR CO-ORDINATES		ELEVATION
(1) MT. BISCHOFF	2099.59 N	1219.97 E	682.30
(2)	N	E	
(3) Aust. Map Grid (PRECISE / APPROX.)	mE	mN	m A.H.D.

Magnetic bearing of true and grid norths at collar (* = observed)

G.N.(1) 150 mag
G.N.(2) mag
G.N.(3) mag
T.N. mag

1:250 000 Sheet No. SK55-3
1:100 000 Sheet No. 8015
State Tasmania

Mineral Tenement E.L. 13/79
Holder Metals Exploration Ltd.

Cadastral location and details: Mt. Bischoff mine area, on crown land northerly of Waratah.

Inclination at collar -60°
Total length 140.0 m
Commenced: 7 / 6 / 81
Completed: 10 / 6 / 81

Drilling contractor: LONGYEAR AUST. LTD.
Rig type: LY 44

Details of down hole location-survey methods.
Eastman Downhole Camera Single Shot

Purpose of drilling and anticipated lengths to targets.
To test White Face Dyke at RL 575 m. Target interval 110-130 m.

Core size and non-coring (NC)

NC	0.0	TO	3.0
NQ	3.0	TO	70.80
BQ	70.80	TO	140.0
		TO	
		TO	
		TO	

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR	150	-60
30 m	-	-60
60 m	150	-60
90 m	149	-61
140 m	145	-62

Comments on drilling.

Legend for graphic log column

FIELD ROCK NAME, ETC.

1	Porphyry.
2	Dolomite
3	Recrystallised dolomite
4	Dolomite sulphide lode - pyrrhotite rich.
5	Dolomite sulphide lode - pyrite rich.
6	Dolomite sulphide lode - talc rich.
7	Dolomite sulphide lode - serpentinite rich.
8	Dolomite sulphide lode - quartz/carbonate rich.
9/c	Shale / carbonaceous.
10	Siltstone.
11/s	Quartzite / sandstone.
12	Tuff.

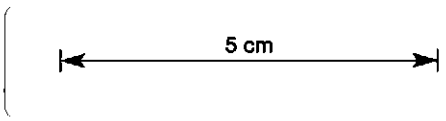
Symbols and abbreviations

LOGGED BY D. SIMPSON FROM 0 TO 140.0 DATE 27/6/81
LOGGED BY FROM TO DATE
LOGGED BY FROM TO DATE

Company managing exploration programme.
Metals Exploration Ltd.

SUMMARY LOG

HOLE No. MBD 88
Log sheet 1 of 3

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT (CAPITAL LETTERS, UNDERLINED) Depth Description and notes (INDENTED ABOUT 10mm)	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS Ni
0	3.0	0 - 3.0: NOT CORED.						
	16.9	3.0 - 19.9: SHALE - SILTSTONE. Fine grained pale to mid-grey shales with minor siltstone. Shales are locally sericitic and siltstones contain 1-5% pyrite. 		9/10				
20	9.5	19.9 - 29.4: QUARTZITE (SHALE). Fine to medium grained quartzite, generally massive but locally interbedded with minor shale.		11/9				
	7.1	29.4 - 36.5: SHALE - SILTSTONE. Similar to 3.0 - 19.9. Core very broken.		9/10				
	3.6	36.5 - 40.1: QUARTZITE - SHALE. Fine grained massive quartzite. Irregular network of pyritic veinlets.		11/9				
40	2.6	40.1 - 42.7: SHALE - SILTSTONE. Similar to 3.0 - 19.9.		9/10				
		42.7 - 44.2: SHALE - QUARTZITE. Massive shales - local quartzite.		9/11				
	24.3	44.2 - 68.5: SHALE - SILTSTONE. Light to mid grey shale grading to mudstone with minor siltstone. Siltstone and occasional quartzite tend to be thin and irregular.		9/10				
60	5.9	68.5 - 74.4: QUARTZITE. Pale to mid grey massive quartzite with dendritic alteration pattern developed locally.		11				
	5.0	74.4 - 79.4: SHALE - SILTSTONE. Similar to 44.2 - 68.5.		9/10				
80	9.9	79.4 - 89.3: QUARTZITE. Pale to mid grey massive quartzite similar to above with minor shale and siltstone beds. Some slump brecciation developed locally.		11				
	7.8	89.3 - 107.1: SHALE - SILTSTONE. Similar to 44.2 - 68.5 with addition of many thin beds of apparently syngenetic pyrite from approximately 94.0 m.		9/10				
100	8.5	107.1 - 115.6: QUARTZITE. Pale grey massive quartzite similar to above. Some thin interbeds of shale locally.		11				
	15.45	115.6 - 131.05: QUARTZ-FELDSPAR PORPHYRY. Light grey to brownish porphyry with minor pervasive alteration to		1				

NOTES: 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D A BERKMAN & W. R. RYALL (ED.), MONOGRAPH NO. 9 - AUSTRALAS. INST. MIN. METALL. - 1976
2. ATTITUDE OF BEDDING, VEIN, ETC. IS ANGLE BETWEEN PLANAR STRUCTURE AND LONG AXIS OF CORE 3. LENGTH IS GIVEN AS METRES OR MILLIMETRES

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION

SUMMARY DRILL LOG

Prospect or project

HOLE No. MBD 88

LOG SHEET 2 OF 3

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT (CAPITAL LETTERS, UNDERLINED) Depth Description and notes (INDENTED ABOUT 10mm)	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS Ni

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120

groundmass.
From 117.3 the feldspars are progressively replaced by irregular pyrite aggregates.

1

Pyrite averages 3-5%
Locally pyritic veinlets are excised.

131.05 - 140.0: SHALE - SILTSTONE.
Mid grey shales, well bedded to slumped and interbedded with white to pale grey siltstones.
Local spotting due to pyrite.

9/10

Pyrite content <0.1%

140

END OF HOLE: 140.0 m.

5 cm

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG

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LOG SHEET 3 OF 3