METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

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

HOLE No. MBD 76

COLLAR LOCATION

	Grid name	Rectangular space co-ordinates PLANAR CO-ORDINATES		ELEVATION
(1)		2337.1 N	1177.1 E	715.0
(2)		N	E	
(3) Aust. Map Grid PRECISE / APPROX.		mE	mN	mA.H.D.

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

G.N.(1) _____ 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 -79°

Total length 176.0 m

Commenced: 7 / 5 / 81

Completed: 20 / 5 / 81

Drilling contractor: PARRY EXPL. DRILLING

Rig type: BAYLES 37

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

Purpose of drilling and anticipated lengths to targets.
To test for position and grade of Queen Dyke.

Core size and non-coring (NC)

NC	0	TO 4.5
NQ	4.5	TO 60.0
BQ	60.0	TO 176.0
		TO
		TO
		TO

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR		
30 m	No bearing	78°
60 m	"	78.5°
90 m	"	39°
120 m	"	79°
145 m	051	79½°
175 m	046	79½°

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. COMPSTON FROM 0 TO 176.0 DATE 22/5/81

LOGGED BY _____ FROM _____ TO _____ DATE _____

LOGGED BY _____ FROM _____ TO _____ DATE _____

Company managing exploration programme.
Metals Exploration Ltd.

SUMMARY LOG

HOLE No. MBD 76

Log sheet 1 of 3

832233

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

NOTES: 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R RYALL (EDS.), 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

4.5		0 - 4.5 TRICONE. No core.				
0.8		4.5 - 5.3 OVERBURDEN. No core.				
20.5		5.3 - 25.8 QUARTZITE, lesser SILTSTONE, minor SHALE. Moderately disrupted in parts. Light grey siliceous qtzite, with lesser siltstone and minor shale. Rare veins of qtz and/or weathered sulphide.		11/10/9		?py trace weathered py in veins.
29.9		25.8 - 55.7 SILTSTONE, lesser QUARTZITE, minor SHALE. Moderately disrupted in parts. Mainly mid-grey siltstone (5-20 mm) with lesser thin qtzite and minor shale. Occasional veins of qtz and/or weathered py.		10/11/9		as above.
6.9		55.7 - 112.6 QUARTZITE, lesser SILTSTONE. Moderately disrupted, or slumped in parts. Mainly thinly interbedded fine qtzite and siltstone. Occasional veins and stringers of py and/or qtz.		11/10		py trace in veins and stringers also disseminated through qtzite beds.
19.7		112.6 - 132.3 SILTSTONE, lesser SHALE, minor QUARTZITE. Moderately disrupted in parts. Mainly thin bedded siltstones with lesser shale.		10/9/11		

0 20 40 60 80 100 120

5 cm

CONTINUED OVER PAGE.

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG Scale

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 76

LOG SHEET 1 OF 2

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		Occasional thin beds of qtzite occur. Rare qtz veins, occasionally with disseminated cass.			py>?cass - trace py in common veins with stringers also dissem. through qtzite and siltstone beds, and as thin pyritic beds. trace cass. dissem. through qtz veins.
	10.3	132.3 - 142.6 QUARTZITE, lesser SILTSTONE. Moderately disrupted in parts. Fine, siliceous qtzite, up to 25 cm beds, with lesser siltstone. Occasional qtz and/or py veins.		11/10	py, sph, arsenopy→2-3% py in veins with stringers, and finely disseminated through qtzite sph - vein (1 only) arsenopy, trace in py veins.
140					
	13.0	142.6 - 155.6 PORPHYRY. Altered translucent grey matrix. 10% qtz phenocrysts up to 2.5 mm. Feldspars entirely replaced by py.		1	py 15% coarsely disseminated and as occasional veins.
	11.1	155.6 - 166.7 QUARTZITE, lesser SILTSTONE. Moderately disrupted in parts. Mainly thick qtzite, with sequences of thin qtzite-siltstone beds.		11/10	py 3% finely disseminated through sediments and as veins.
160					
	3.5	166.7 - 170.2 PORPHYRY. Opaque white matrix. Patchy sulphide dist.		1	py 10% coarsely dissem. and veins.
	5.8	170.2 - 176.0 SILTSTONE, minor QUARTZITE, SHALE. Moderately disrupted in parts. Thin siltstone beds, minor qtzite and shale.		10/11/	py trace in veins and stringers.
		END OF HOLE 176.0 m			
180					

5 cm

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG

Scale

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 76

LOG SHEET 2 OF 2