832248 240

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

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

HOLE No. MBD 83

COLLAR LOCATION

Grid name — Rectangular space co-ordinates

	PLANAR CO-ORDINATES		ELEVATION
(1)	1755.56 N	919.93 E	
(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) ____ 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: -90°
Total length: 130.0

Commenced: 23 / 5 / 81
Completed: 25 / 5 / 81

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

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

Purpose of drilling and anticipated lengths to targets.
To test the White Face Porphyry from 75 m to 95 m.

Core size and non-coring (NC)

TRICONE	0	TO	1.5
NQ	1.5	TO	49.7
BQ	49.7	TO	130.0
		TO	
		TO	
		TO	

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
AT COLLAR		
29 m	in casing	89°
59 m	254	88.5°
89 m	284	89°
119 m	286	88°

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 130.0 — DATE 3/6/81
LOGGED BY ____ — FROM ____ TO ____ — DATE ____
LOGGED BY ____ — FROM ____ TO ____ — DATE ____

Company managing exploration programme.
Metals Exploration Ltd.

SUMMARY LOG

HOLE No. MBD 83
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	1.5	0 - 1.5 TRICONE. No core.						
	14.3	1.5 - 15.8 SILTSTONE, lesser SHALE, minor QTZITE. Moderately disrupted in parts. Mainly black siltstone and lesser black shale. Occasional beds of fine qtzite. Occasional veins and stringers of carbonate. Gradual change to→		10/ 9/11		py trace in stringers through qtzite beds.		
20	13.7	15.8 - 29.5 QUARTZITE, lesser SILTSTONE, minor SHALE. Moderately to strongly disrupted in parts. Mainly fine qtzite and siltstone in beds 1 mm - 10 cm. Rare veins and stringers of carbonate. Gradual change to→		11/ 10/ 9		py trace disseminated, and as stringers, through qtzite.		
40	17.0	29.5 - 46.5 SILTSTONE, lesser SHALE, minor QUARTZITE. Moderately to strongly disrupted for most parts. Rare carbonate veins and stringers.	30°	10/9/ 11		py trace in veins and stringers and disseminated through some qtzite beds.		
	2.1	46.5-48.6 PORPHYRY Matrix white→grey to centre.		1		15% py-coarsely dissem. and in veins.		
	4.3	48.6-52.9 SILTSTONE, minor SHALE, QUARTZITE, Mod. disrupted in parts, occasional veins and stringers of py.	80°	10/9/ 11		sph - dissem. py trace in thin veins and stringers.		
60	12.6	52.9 - 65.5 PORPHYRY. Translucent grey/white matrix. Phenocrysts: 12% qtz to 11 mm. Feldspars almost entirely replaced by sulphide. Rare green fluorite grains. Occasional veins of qtz-carbonate-py-gal-fluorite.	85° 65°	1		py >> gal. fl. py coarsely disseminated and in veins with qtz-fluorite-carbonate-gal. gal - coarse grains dissem. thru veins.		
	1.9	65.5 - 67.4 SILTSTONE, lesser SHALE.		10/9		py - disseminated (finely) and stringers 2%		
	19.6	67.4 - 87.0 DOLOMITE. Strongly disrupted and brecciated. Pale grey dolomite, thin bedding visible in parts. Common veins and stringers of carbonate, some with py and/or sph.		2		py > sph >> po 2-3% in veins with carbonate sph also finely disseminated through dolomite.		
80	3.4	87.0 - 90.4 DOLOMITE SULPHIDE LODE. 50% serp, 35% qtz-carb, 10% dolomite, 5% sph, py		8/7		5% sph, py in veins and stringers minor po in veins.		
	4.6	90.4 - 95.0 SILTSTONE, minor SHALE, QUARTZITE. Strongly disrupted and brecciated in parts.		10/ 9/11		py > po py-dissem. in siltstone and in veins. Po in veins. Trace vivianite.		
100	35.0	95.0 - 130.0 QUARTZITE, SILTSTONE, minor SHALE. Moderately disrupted for most parts. Occasional carbonate veins and stringers.		11/ 10/ 9		py, po, sph trace in rare veins and stringers.		
120		5 cm						

CONTINUED ON NEXT PAGE.

FOR LEGEND SEE DRAWING NO.

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

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG

Prospect or project: Mt. Bischoff Tin

HOLE No. MBD 83

LOG SHEET 1 OF 2

832250 242

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
120		CONTINUED FROM PREVIOUS PAGE.						
		As above.				As above.		
		END OF HOLE 130.0 m						

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

5 cm

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION LIMITED

SUMMARY DRILL LOG
Scale

Prospect or Project: Mt. Bischoff Tin

HOLE No. MBD 83

LOG SHEET 2 OF 2

SAMPLE NO.	SAMPLE NO	FROM	TO	INTERVAL	Sn	Sn	Cu	Pb	Zn	Ag	W	Au	Check Sn	Bulked Assays
SPLIT CORE	GROUND CORE	m	m	m	SPLIT	GROUND								
120986		456	466	10										
87		466	476	"										
88		476	486	"										
89		486	496	"										
120990		520	530	10										
91		530	540	"										
92		540	550	"										
93		550	560	"										
94		560	570	"										
95		570	580	"										
96		580	590	"										
97		590	600	"										
98		600	610	"										
99		610	620	"										
121000		620	630	"										
01		630	640	"										
02		640	650	"										
03		650	656	06										
04		656	666	10										
05		666	672	06										
06		672	682	10										
07		682	692	"										
08		692	699	07										
21009		711	721	10	90									
810		721	731	"	1050									
11		731	741	"										
12		741	751	"										
13		751	761	"										

Notes :— XRF 214 method

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 83

SAMPLE TYPE : DRILL CORE FROM 456 TO 761

8322251 R43.

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								
121814		76·1	77·1	1·0										
15		77·1	78·1	"										
16		78·1	79·1	"										
17		79·1	80·1	"										
18		80·1	81·1	"										
19		81·1	82·1	"										
820		82·1	83·1	"										
21		83·1	84·4	1·3										
22		84·4	85·5	1·1										
23		85·5	86·0	0·5										
24		86·0	87·0	1·0										
25		87·0	88·0	"										
121868		88·0	89·0	"										
69		89·0	90·0	"										
870		90·0	91·0	"										
71		91·0	92·0	"										
121905		92·0	93·0	"										
04		93·0	94·0	"										
05		94·0	95·0	"										

otes :—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. mBD 85

SAMPLE TYPE : DRILL CORE FROM 76·1 TO

8322252 244