832181 174

REPORT No.

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

Prospect, area, project or mine. MOUNT BISCHOFF

HOLE No. MBD 72

COLLAR LOCATION

Grid name — Rectangular space co-ordinates

	PLANAR CO-ORDINATES		ELEVATION
(1)	N	E	
(2)	N	E	
(3) Aust. Map Grid (PRECISE / APPROX.)	mE	mN	mAHD

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)

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

Inclination at collar 80°

Total length 150 m

Commenced: 28 / 4 / 81

Completed: 30 / 4 / 81

Drilling contractor: LONGYEAR AUST. PTY. LTD.

Rig type: Longyear 44

Details of down hole location-survey methods.

EASTMAN Single Shot Survey Camera.

Purpose of drilling and anticipated lengths to targets.

To test intersections of dolomite (0 - 35 m) and white face porphyry (110 - 135)

Core size and non-coring (NC)

TRICONE	0	TO	3.0
NQ	3.0	TO	60.0
BQ	60.0	TO	150.0
		TO	
		TO	
		TO	

Results of down hole location-survey.

LENGTH FROM COLLAR	MAGNETIC BEARING (Whole Circle)	DIP
30 m	in casing	80°
57 m	161.5°	80.5°
90 m	152°	81°
120 m	158°	81.5°
150 m	159°	82°

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 D. COMPSTON. FROM 0 TO 150.0 DATE 5/5/81

LOGGED BY ____ FROM ____ TO ____ DATE ____

LOGGED BY ____ FROM ____ TO ____ DATE ____

Company managing exploration programme.

METALS EXPLORATION LTD.

HOLE No. MBD 72

Log sheet 1 of 3

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT — CAPITAL LETTERS, UNDERLINED. Depth Description and notes, veins over 50mm. INDENTED ABOUT 10mm	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION Excluding veins over 50mm. Visual estimate of % mineralisation in brackets	ASSAYS AVAILABLE	BULKED ASSAYS Sn

NOTES * 1. FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", G. 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.

0	3.0	0 - 3.0 TRICONE - no core				
	5.0	3.0 - 8.0 NO CORE Mine rubble				
	3.0	8.0 - 11.0 DOLOMITE SULPHIDE LODE Predominantly talc, minor carbonate.		6		trace pyrite in veins and stringers trace cassiterite-irregular aggregates
	1.1	11.0 - 12.1 DOLOMITE		2		trace py in veins
	38.6	12.1 - 50.7 DOLOMITE SULPHIDE LODE 60% bronze po, as irregular bands and aggregates. 35% siliceous mid to dark green serpentine. Variable amounts of qtz - carbonate, talc - up to 60% qtz - carbonate over short (1 m) intervals.		4/7/8		60% po - as coarse aggregates and irregular bands. trace cpy disseminated through po
20						
40						
	47.8	50.7 - 98.5 SILTSTONE, QUARTZITE, minor SHALE Moderately disrupted in parts. Mainly siliceous grey siltstone and quartzite, with occasional thin shale beds. Occasional qtz veins and stringers. Rare carbonate veins, occasionally with fluorite.		10/11/9		po - trace as occasional vein and thin po - rich beds.
60						
						po, py~ 1-2% po - trace as irregular veins and occasional thin po beds. py - trace as common veinlets.
80						
100	20.6	98.5 - 119.1 PORPHYRY Altered, translucent matrix (greenish-grey colour). 10% qtz phenocrysts to 3 mm. Feldspars almost entirely replaced by sulphides. Occasional veins of qtz ± fluorite ± py 5 cm		1		py, marc - 15% sulphides coarsely disseminated and as occasional veins. py commonly replaced or rimmed by marc.

PTO
CONTINUED OVER PAGE.

FOR LEGEND SEE DRAWING NO.

METALS EXPLORATION SUMMARY DRILL LOG

Prospect or project

HOLE No MDD 72

DEPTH (length from collar)	INTERVAL	DEPTH from - to : ROCK UNIT (CAPITAL LETTERS, UNDERLINED) Depth Description and notes, veins over 50mm. (INDENTED ABOUT 10mm)	POINTER & CODE	GRAPHIC LOG	POINTER & CODE	MINERALISATION Excluding veins over 50mm. Visual estimate of % mineralisation in brackets	ASSAYS AVAILABLE	BULKED ASSAYS Sn
120	30.9	119.1 - 150.0 SILTSTONE, SHALE, minor QUARTZITE Moderately to strongly disrupted in parts. Usually well bedded. Mainly interbedded siltstone and shale, with minor thin quartzite beds. Rare veins and stringers of carbonate.				py > po 2% py in common veins and stringers. po appears as thin (1 mm) beds, and occasional irregular veins.		
140								
		HOLE COMPLETED 150.0 m						
160								
180								

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

SUMMARY DRILL LOG

Prospect or project

HOLE No. MBD 72

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								
121302		8.0	9.0	1.0	7200									
3		9.0	10.0	"	3300									
4		10.0	11.0	"	30									
5		11.0	12.0	"	55									
6		12.0	13.0	"	X									
7		13.0	14.0	"	15									
8		14.0	15.0	"	X									
9		15.0	16.0	"	25									
310		16.0	17.0	"	X									
11		17.0	18.0	"	X									
12		18.0	19.0	"	X									
13		19.0	20.0	"	20									
14		20.0	21.0	"	X									
15		21.0	22.0	"	X									
16		22.0	23.0	"	X									
17		23.0	24.0	"	20									
18		24.0	25.0	"	25									
19		25.0	26.0	"	25									
320		26.0	27.0	"	20									
21		27.0	28.0	"	X									
22		28.0	29.0	"	30									
23		29.0	30.0	"	40									
24		30.0	31.0	"	25									
25		31.0	32.0	"	X									
26		32.0	33.0	"	280									
27		33.0	34.0	"	30									
28		34.0	35.0	"	20									
29		35.0	36.0	"	15									
330		36.0	37.0	"	25									
121331		37.0	38.0	"	15									

Notes :— XRF A14 Method for Sn.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 72

SAMPLE TYPE : DRILL CORE FROM 8.0 TO 38.0

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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								
121332		38.0	39.0	1.0	20									
33		39.0	40.0	"	45									
34		40.0	41.0	"	20									
35		41.0	42.0	"	X									
36		42.0	43.0	"	X									
37		43.0	44.0	"	55									
38		44.0	45.0	"	30									
39		45.0	46.0	"	20									
340		46.0	47.0	"	20									
41		47.0	48.0	"	35									
42		48.0	49.0	"	20									
43		49.0	50.0	"	40									
44		50.0	50.9	0.9	85									
45		50.9	51.9	1.0	210									
121346		97.5	98.5	1.0	1350									
47		98.5	99.5	"	1800									
48		99.5	100.5	"	2700									
49		100.5	101.5	"	1450									
350		101.5	102.5	"	1600									
51		102.5	103.5	"	7000									
52		103.5	104.5	"	4350									
53		104.5	105.5	"	3700									
54		105.5	106.5	"	4600									
55		106.5	107.5	"	380									
56		107.5	108.5	"	2050									
57		108.5	109.5	"	1.86%									
121358		109.5	110.5	"	5000									

Notes :—

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 72

SAMPLE TYPE : DRILL CORE FROM 38.0 TO 110.5

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								
121359		110.5	111.5	1.0	1400									
60		111.5	112.5	"	4200									
61		112.5	113.5	"	2900									
62		113.5	114.5	"	5700									
63		114.5	115.5	"	3700									
64		115.5	116.5	"	930									
65		116.5	117.5	"	1200									
66		117.5	118.5	"	1950									
67		118.5	119.1	0.6	5650									
68		119.1	120.1	1.0	550									

Notes :— XRF A14 Method for Sn.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 72

SAMPLE TYPE : DRILL CORE FROM 110·5 TO