832091083

REPORT No.

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

Prospect, area, project or mine. MOUNT BISCHOFF

HOLE No. MBD 55

COLLAR LOCATION

Grid name | Rectangular space co-ordinates

		PLANAR CO-ORDINATES		ELEVATION
(1)	MBJV	2034.98 N	1259.95 E	688.21
(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 58°

Total length 80.0m

Commenced: 11 / 2 / 81
Completed: 14 / 2 / 81

Drilling contractor: LONGYEAR AUST. PTY. LTD.

Rig type: LONGYEAR H.C. 150

Core size and non-coring (NC)

TRICONE	0	TO	2.5
HQ	2.5	TO	80.0
		TO	
		TO	
		TO	
		TO	

Details of down hole location-survey methods.

EASTMAN
Single Shot Photo

Purpose of drilling and anticipated lengths to targets.

To obtain core for metallurgical purposes and to check location of white Face Dyke (60-75m) and presence of Western Dyke.

Results of down hole location-survey.

LENGTH FROM COLLAR	W.C. BEARING type.....	DIP
20m	150°30'	57°
50m	150°30'	58°30'
79m	149°	59°

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	LOGGED BY	LOGGED BY
K. CAMUTI		
FROM 0 TO 80.0	FROM TO	FROM TO
DATE 15/2/81	DATE	DATE

Company managing exploration programme.
METALS EXPLORATION LTD.

HOLE No. MBD 55
Log sheet 1 of 2

832092 084

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
0	0-2.5 (2.5)	TRICONE - NO CORE		NC				
	2.5-9.9 (7.4)	SILTSTONE/MINOR CARBONACEOUS SHALE Mid-grey, moderately disrupted medium grained siltstone with minor carbonaceous shale.		10/9/C		1% mainly pyrite and marcasite, trace of arsenopyrite and sphalerite. Occurring in stringers, small veins and patches. Contact = 55°		
10	9.9-15.3 (5.4)	QUARTZ PORPHRY - Light brown, fine grained slightly weathered porphry with occasional bleached bands. 5-7% quartz phenocrysts 3-5% feldspars		1		15% mainly marcasite and pyrite, mainly coarsely disseminated, sometimes in veins and stringers. Trace of cassiterite on joint planes.		
	15.3-41.7 (26.4)	SILTSTONE/LESSER SHALE/MINOR QUARTZITE Well bedded, weakly to strongly disrupted pale to mid-grey siltstone with lesser mid-grey shale and occasional fine carbonaceous shale laminations. Minor browney-grey to mid-grey quartzite interbedded with the siltstone and shale or as clasts in brecciated zones.		10/9/11		1-3% mainly pyrite, some marcasite, trace of arsenopyrite. Occuring in veins and stringers, patches, and coarsely and finely disseminated.		
20		Bedding 45° - 70° →						
30								
40						Contact = 50°		
	41.7-45.9 (4.2)	QUARTZITE/LESSER SILTSTONE/LESSER SHALE - Fairly massive mid-grey quartzite with lesser mid-grey siltstone and slightly lesser dark-grey shale. Occasional carbonaceous shale.		11/10/9		Trace pyrite and arsenopyrite in veins, patches, coarsely disseminated and associated with quartz/carbonate veins.		
	45.9-51.0	SILTSTONE/LESSER SILTY SHALE/LESSER QUARTZITE - Medium grained mid-grey siltstone with lesser dark grey shale and slightly lesser medium grained well bedded to disrupted to brecciated.		10/9/11		Gradational contact. <1% marcasite, pyrite, trace arsenopyrite; in veins, patches and stringers.		
50	51.0-68.2 (17.2)	QUARTZ PORPHYRY Slightly weathered, pale grey to extensively weathered bleached cream coloured porphyry numerous joints. 51-51.6 pale green porphyry with 3-5% talc. No quartz pheocrysts, 1-3% feldspars, 15% sulphides. Extensively weathered material - 10% quartz phenocrysts no feldspars, generally no sulphides.		1		Irregular contact. 10% mainly marcasite and pyrite, trace arsenopyrite. 51.6-63.7 pyrite > marcasite 63.7-68.2 marcasite > pyrite Sulphides occur mainly coarsely disseminated, very rarely in fine veins. 3 major joint directions: 15° - 25°, 30° - 40° and subparallel to core.		
60								
	68.2-71.4 (3.2)	SILTSTONE/LESSER SHALE/VERY MINOR QUARTZITE - medium to coarse grained siltstone with lesser fine-medium grained greeny-gray shale and very minor mid-dark grey quartzite.		10/9/11		Irregular contact 1%. Pyrite and marcasite in small veins, stringers and finely disseminated.		
70	71.4-80.0 (8.6)	QUARTZITE/MINOR SHALE - Generally massive, occasionally disrupted and brecciated mid-grey shale quartzite with occasional to rare greeny-grey shale. Rare thin quartz veins. Numerous fine carbonate veins in shale. 74.7-74.9 mid brown sand with trace of pyrite		11/9		Broken Contact. Trace of pyrite and marcasite, lesser arsenopyrite; occurring in veins, patches, stringers and very sparsely disseminated.		
80		END OF HOLE 80.0m						
90								
100								
110								
120		5 cm						

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 LIMITED

SUMMARY DRILL LOG Scale

Prospect or project: MT BISCHOFF TIN

HOLE No. MBD 55

LOG SHEET 1 OF 1

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								
98966		8.9	9.9	1.0	350									
67		9.9	10.9	"	1200									
68		10.9	11.9	"	3400									
69		11.9	12.9	"	1750									
970		12.9	13.9	"	1350									
71		13.9	14.9	"	1150									
72		14.9	15.4	0.5	540									
73		15.4	16.4	1.0	1350									

Notes:— Sn by XRF Bi method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 55

SAMPLE TYPE : DRILL CORE FROM 8.9 TO 16.4