MBD 32

DEPTH	INTERVAL	DEPTH from-to : ROCK UNIT (capital letters, underlined) Depth : Description and notes (indented about 10 mm)	POINTER	GRAPHIC LOG	POINTER	MINERALISATION	ASSAYS AVAILABLE	BULKED ASSAYS

FOR ABBREVIATIONS SEE "FIELD GEOLOGIST'S MANUAL", D.A. BERKMAN & W.R. RYALL (ED), MONOGRAPH No.9 AUSTRALAS. INST. MIN. METALL. - 1976

028469

0 – ~~0.50~~ (3m)

TRICONE DRILLED - NO CORE.

~~3.0~~ 7.31 (4.31m)

3.0-7.31 QUARTZ FELSPAR PORPHYRY.

Matrix off-white and fine grained, with some pale grey patches. Qtz - 11% as phenocrysts to 7x4 mm, mostly 2x3mm. Felspar - creamy white and altered, 3-5%. Bleached & weathering along fractures, with deposition of brown Fe oxides on fractures parallel to bleaching. 6.3-7.3 Finer grained qtz 10%, felsp. 1%

py, trace cp and rare f.gr. ?cassiterite. Py is pitted and weathered to ?haematitic reddish Fe oxides. Some places bleached and completely removed. Occurs as discrete rounded grains and f.gr. aggregates to 4 mm. 6.3-7.3 reduced in size to 2mm. TOTAL 10%.

~~7.0~~ 30.0 (22.69)

7.31 - 30.0 MASSIVE SILTSTONES AND SANDSTONES with minor SILTY SHALE LAMINAE.

Contact 75°

Bedding 40° →

Massive, poorly bedded, brecciated (soft sediment disruption) Bedding difficult to determine. The core is a medium grey and medium hard, with occasional very hard bluish grey silicified intervals. Badly fractured and broken by two sets of intersecting fractures, reduced to rubble for runs of 2.5 m. Some micro faulting visible in unbroken core - displacements < 1 cm.

19 - 30.0 Fracturing decreases - core is less broken, but still well jointed

24.7 - 30.0 Siltstones acquire a distinct bedding lamination - thinly interbedded grey and darker grey clay rich siltstones with some faintly greenish silky shales. Some thin bedded clay laminae (<1 mm). Minor brecciated intervals, some weak folding and contortion. Sandstone beds become smaller, < 1 m

Bedding 40° →

Bedding 55° →

Bedding 35° →

Bedding 30° →

py, some qtz as irregular veinlets and stringers. some lining fracture surfaces. Some blebs and fine dissemination in sandstone beds. Fracture surfaces are lined with fine black peppy clay - weathered py? TOTAL 1-2%

17.5 - 20.6 2% pyrite in dendritic f.gr. aggregates surrounding fine fractures.

24.7 - 30.0 Some sparse qtz - py veinlets near top of interval, otherwise barren.

END OF HOLE 30.0 m.

5 cm

AFTER TYPING THIS SIZED FORM WILL BE PHOTO-REDUCED TO A4 SIZE

FIELD COPY - COPY TO BE SENT TO MELBOURNE FOR TYPING

METALS EXPLORATION LTD.
EXPLORATION DEPARTMENT

SUMMARY DRILL LOG
Scale 1:1000, 1:500, (1:250) (when reduced to A4)

Prepared by: G. BROADBENT
Date: 28.2.80

HOLE No. MBD 32
Sheet of

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								
97612		3.0	5.0	2.0	2000									
13		5.0	7.3	2.3	1800									
14		7.3	9.3	2.0	1000.									
SLUDGE														
97781		0.0	3.0	3.0	5000									

Notes :— Sn by XRF Bi method.

METALS EXPLORATION LTD - MT BISCHOFF TIN PROSPECT

ASSAY SUMMARY SHEET HOLE NO. MBD 32

SAMPLE TYPE : DRILL CORE FROM 3.0 TO 9.3

0438

REPORT No. 028471

METALS EXPLORATION LTD.
& SUBSIDIARY COMPANIES

MINERAL EXPLORATION
DIAMOND DRILL LOG

MBD·32

Prospect, area, project or mine. MOUNT BISCHOFF

HOLE No. MBD 32

COLLAR LOCATION

Grid name | Rectangular space co-ordinates

	PLANAR CO-ORDINATES		ELEVATION
(1) MBJV	1939.99 N	1180.06 E	645.59
(2)	N	E	
(3) Aust. Map Grid PRECISE / APPROX.	mE	mN	mA.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 90°

Total length 30·0m.

Commenced: 18 / 2 / 80

Completed: 20 / 2 / 80

Drilling contractor LONGYEAR AUST PTY LTD

Rig type LONGYEAR B3·1

Core size and non-coring (NC)

TRICONE	0 TO	3·0m.
NQ	3·0 TO	30·0m.
	TO	
	TO	
	TO	
	TO	

Details of down hole location-survey methods.
Acid-etch (TRICONE wet-unrecoverable).

Purpose of drilling and anticipated lengths to targets.
To investigate possible tin mineralisation in 'White Face' porphyry Dyke 8.36m and in dolomite 0 to 30m. Planned depth of hole 30·0m

Results of down hole location-survey.

LENGTH FROM COLLAR	W.C. BEARING type —	DIP
29.5		90°

Comments on drilling.

Legend for graphic log column (see drill log for Hole No. _____)

'DERWENT' PENCIL NO.		FIELD ROCK NAME, ETC.
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Symbols and abbreviations for drilling notes column.

LOGGED BY C. BROUSSENT | FROM 0 TO 30·0m. | DATE 24/2/80

LOGGED BY _____ | FROM _____ TO _____ | DATE _____

LOGGED BY _____ | FROM _____ TO _____ | DATE _____

Company managing exploration programme.
METALS EXPLORATION LTD

HOLE No. MBD 32
Log sheet 1 of 2

028472

DRILL ADVANCE	LOST CORE ZONE	% RECOVERY ESTIMATE	CORE LENGTH RECOVERED	DEPTH from-to : ROCK UNIT (capital letters, underlined) / Depth : Detailed rock description and notes (indented about 15 mm)	DRILL LOG DEPTH TAG	DEPTH POINTER	GRAPHIC LOG (SEE LEGEND ON SHEET 1)	DEPTH POINTER	STRUCTURAL AND VEIN INFORMATION (ATTITUDE = Angle between feature and LONG CORE AXIS)	MINERALISATION	PERCENT MINERALISATION Visual estimate	NOTES
1.5		100	1.5	TRICONE TO 3.0 m - NO CORE.								
0.8		100	0.9	3.0 - 7.31 QUARTZ FELSPAR PORPHYRY. Matrix greyish white and finely crystalline, with some sparse light grey silicified patches. Bleached and pitted, with weathering fronts of brownish Fe oxides surrounding fracture planes. Phenocrysts: Qtz - rounded grains 1 x 7 x 4 mm, 15%; Felspar - hard, brownish and altered 3-5%. 6.3-7.3 Qtz - max 2 mm, 10%; Felspar - max 2 mm, < 10%.	4		1			3-6.3 m pitted py, trace sp as rounded grains and irregular f.gr. aggregates to 4 mm. Some removed by weathering.	10%	
2.8		100	2.7						← Contact 75°	6.3-7.31 py, trace sp, tourmaline?, originally 15-20%, 2 mm. max	10%	
0.8		100	0.8	7.31 - 24.7 MASSIVE SILTSTONES AND QUARTZITES. Grey quartzose sandy siltstones, massive and poorly bedded with occasional silty shale beds < 2 cm. Quartzites are hard, bluish grey and brecciated, up to 0.7 m thick. Extensively fractured and sheared - two sets of intersecting fractures < 40° LCA, pitted by weathering (removal of Fe sulphides?). Minor microfaulting and soft sediment brecciation. Some f.gr black puggy material on joint surfaces	8		10/11		← 9.0 Bedding 40°	7.31-17.5 py, sparse disseminations and in irregular thin veinlets and stringers with qtz.	1-2%	
0.5		100	0.5						← 11.6 Bedding 30°			
0.7		75	0.7									
0.4		75	0.3									
8.0		100	9.0		12							
6.0		100	6.0									
2.1		100	2.1									
0.7		100	0.7									
0.5		100	0.5									
0.7		100	0.7									
0.4		100	0.4		16							
0.6		100	0.6									
0.4		100	0.4									
0.2		100	0.2									
9.0		100	9.0	17.5 - 20.6 dark grey dendritic staining due to clots of finely disseminated sulphides, 2%.						17.5-20.0 py in fine grained dendritic aggregates in sandstones. Thin veinlets and stringers as above	2-3%	
8.0		100	8.0									
9.0		100	9.0		20				19 - 30.0 Core is less broken and fractured - partings along bedding, joints every few cm.			
5.1		100	5.1						← 20.75 Bedding 40°	20.0 - 24.7. As for 7.31-17.5 m, above.	1-2%	
7.0		100	7.0									
1.2		100	1.2									
0.9		100	0.9									
1.2		100	1.2		24				Gradual Change to.			
1.0		100	1.0	24.7 - 30.0 THINLY BEDDED SANDSTONES, SILTSTONES AND SILTY SHALES. Grey quartzose sandstone and siltstone beds to 10 cm, with interbedded faintly greenish grey clay rich siltstones and silty shales to 2 cm. Well bedded, with some minor folding and contortion and small intervals of soft sediment disruption to 0.5 m. Sparse thin yellowish bedded clay laminae to 1 mm - ? also pyrite? Fracturing decreases towards bottom of hole - fine clay filled fractures < 1 mm, approx. 40-50° LCA.	28		10/11/9		← 24.8 Bedding 55°	24.7-30.0, sparse thin qtz-py veinlets, mostly near top of interval.		
2.1		100	2.1						← 26.5 Small fold - axis 55°, plane 60°			
1.7		100	1.7						← 26.8 Bedding 35°			
0.5		100	0.5						← 28.9 Bedding 50°			
				END OF HOLE 30.0 m.	32							
					36							
					40							
					44							
					48							

5 cm

METALS EXPLORATION LIMITED

MINERAL EXPLORATION
DRILL LOG
Scale 1:100

Prospect or project: MOUNT BISCHOFF
Logged by: C. BROADBENT date: 24/2/80
Prepared 8/6/80

HOLE No. MBD 32
LOG SHEET 2 OF 2
from 0 m. to 30.0 m.