RIO TINTO AUSTRALIAN EXPLORATION PTY. LIMITED

3 0175 98 025

BORE RECORD

Bore Line .....
Bore No G.B.14
Location Checking Govt. Bore No. 47Z
R.L. Surface 254' (Datum, original Govt. datum)
144' (referred to approx. sea level)

AREA Scotia Lead, Gladstone District, N.E. Tasmania
General AMG 584900 E 5468100 N No Core held.

Plant D.M. 5" Diesel Percussion
Driller D. Brown
Commenced August 5th, 10 a.m.
Finished August 7th 2 p.m.
Ref No 3185

Sample No	Value lbs/c.yard	Depth of Section	Total Depth	Description of Ground	Volumes		Remarks
		5'	5'				
1		5'	10'	Light grey unsorted sandy clays and clayey sands.	3.40	(3.50)	
		15'	25'				
		5'	30'				
2	Nil		40'		3.30	(3.50)	
			50'				
3	Nil		60'	Light brown unsorted sands, fine sands and	1.30	(1.40)	
4	Nil		70'	silty sands; and dark brown carbonaceous	1.20	(1.40)	
5	Nil		80'	sands and silts. Lignitic & Carbonaceous	1.20	(1.40)	
			81'	material characteristic.			
	Nil		85'	Highly pyritic coarse grits.	0.69	(0.70)	
7	Nil		89'		0.70	(0.56)	
	Nil	1'	90'	Light brown fine grained carbonaceous sands and			(1) Difficult boring from 80'
8	Nil	3'6	93'6	silty and clayey sands.	0.93	(0.63)	(2) Tubes kept below pump but ground continually running to some degree below 80'
9	2.03oz/yd.	5'6	99'	Coarse unsorted grits; Coarse fragments of angular quartz and quartzite in silty sand matrix.	1.20	(0.71)	
		1'	100'	Pebble wash, subangular to rounded pebbles of			(3) Best tin from 100'-102'
	114.8oz/yd.	3'6	103'6	quartz and quartzite up to 1½" in an unsorted gritty matrix. Marcasite nodules and cemented	1.17	(0.70)	
10		'6	104'	bond common particularly between 102'-104'.			First trace of bottom 103'9"
11	Tr.	'6	104'6	Mottled grey slates and sandstones	0.06	(.07)	
N.S.		'6	105'	" " " "			
				Spillings 85'-105'	.30 c.ft.	--	

GRAPHIC LOG

RED: Shingle wash
ORANGE: Fine pebbly wash
YELLOW: Drift (Coarse sand)
Green: Fine sand
BLUE: Silt
GREY: Clay

Footage

Plan N° M24

99

Ref 3185

Rough concentration : J. Campbell
Cleanup by Dorset Tin

3 0176

SCREENINGS and CLEANUP

Supervised by J. H. Rattigan

Sample No.	No. of measuring Buckets	Cubic feet Cores	+⅜	−⅜	Volume x Calculations	Volume Washed	Weight Concentrate	Weight heavy mineral less Cassiterite	Weight Cassiterite	Screen Analysis (Cassiterite)	Proportions of gold or other economic by products	Check Tails	Remarks
1	4-8¼"	3.4		3.4		0.25			Nil				
2	4-9¼"	3.3		3.3		0.25			Nil				
3	2-8.9/10"	1.33		1.33		0.25			Nil				
4	2-10¼"	1.25		1.25		0.25			Nil				
5	2-10¼"	1.25		1.25		0.25			Nil				
6	1-4.1/10"	0.69		0.69		0.25			Nil				
7	1-4"	0.70		0.70		0.70			Nil				
8	1-1"	0;93		0.93		0.93			Nil				
9	2-10¼"	1.20	Tr.	1.20		1.20			0.09 oz.				(Most of this tin c (end of sample int
10	2-11.3"	1.17	.20	0.97		1.17			4.54 oz.	+ 50 41.5% +100 48.1% -100 10.4%			(wash was hit.
11	1-12.1"	0.06	Nil	0.06		0;06			Tr.				Richest tin over
Spillings	1-9.2"	0.29				0.29							No correction wa from spillings.
Check tails			Tails over corduroy cloth from samples 9 and 10 gave 0.26 oz. which were added to concentrate from sample 10 for calculation purposes.										
													Tail check gave (
													i.e. recovery in panning was 4.37/463 = 92% (?)

DRUMS	SCREEN ANALYSIS	
1" = 0.074 c.ft.	+16	
	+30	
	+50	
Tubes	+100	
1ft. = 0.14 c.ft.	+150	
5ft. = 0.70 c.ft.	+200	
	−200	

Calculations and Corrections by J. H. Rattigan

Sample 9 0.09 oz from 1.2 c. ft. = $\frac{.09}{1.2}$ x 27 = 2.03 oz/yard.

Sample 10 4.54 oz. from 1.17 c.ft. = $\frac{4.54}{1.17}$ x 27 = 114.8 oz.

Weighted value = $\frac{(5 \times 114.8) + (5.5 \times 2.03)}{104.5}$ = 5.6 oz./yd.

			VALUE
Total Depth 104 ft.			
to bottom			
Overburden 99	ft.	%	
Paywash 5	ft	%	5.60 oz/yard.
Sand	ft	%	0.35 lb/yd
Clay	ft.	%	
Shingle and Pebble beds 5'		%	
Overburden / Paywash 20/1 approx.			
Percentage Oversize + Tr.		%	

Plan No. M 25