

Q6. No. 114

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DEPT. OF MINES				
REF. NO.				

EXPLORATION PROGRAMME

HAWKES ALLUVIAL TIN LIMITED.

E. W. 12/69

70-612

HAWKES ALLUVIAL TIN LTD.REPORT ON EXPLORATION PROGRAMME ON E.L. 18/68KING ISLAND - TASMANIANOVEMBER-DECEMBER, 1969

A testing programme on the above area was carried out during November and December 1969.

MICROFILMEDRESULTS

All results are shown on the enclosed log sheets.

The results from the 2 mile line and the 4 mile line with extensions were most disappointing and no economic values were found anywhere in this region.

The results from the holes around the 80 acre lease are more encouraging and from these the conclusion could be drawn that the values might extend in a West to North-Westerly direction.

FUTURE WORK

It is proposed to test the area to the West and North-West of the 80 acre lease to the boundary of the exploration licence.

DETERMINATION OF DRILLING TARGETS

Drilling targets were selected following a study of the available charts. Originally two base lines were selected, trending in a North-Easterly direction, parallel and one mile apart. But due to difficulties in access by mechanical equipment, compromises had to be made. Finally a 2 mile line starting from the N.W. corner of the 80 acre lease was surveyed on a bearing of 45° . The second line parallel to the 2 mile line was surveyed for 4 miles commencing at the S.E. corner peg of the above 80 acre lease. This line bisects the whole exploration area.

Holes were drilled along these two lines at 10 chain intervals and along the base line connecting the two lines at 5 chain intervals.

Holes were also drilled along cleared fence lines:

- 1) in East-West direction at peg 170 on 4 mile line;
- 2) in North-South direction at peg 124 on 4 mile line;
- 3) in East-West direction at the 40 chain South peg of of the line as in 2.

The remainder of the holes were drilled along the lease boundaries as shown on plan.

METHOD

A back hoe was used to dig the holes at the sites indicated by the survey. The limit of depth of the back hoe was 10' below surface. However, in very few cases bottom was not reached. Following the excavation of the holes a channel sample was taken from one of the long walls of the holes. The sample so collected was bagged and tagged.

All samples were measured for volume in a graduated container. Before measurement the sample in the container was tamped to approach the in situ volume. Following this the whole sample was panned, care being taken to dissolve all the clays.

The heavy mineral concentrate resulting from the panning was dried and weighed.

The heavy mineral concentrates from the 2 mile line, the 4 mile line and the additional holes in the region of 4 M124 and 4 M170 (see plan) were bulked and split and sent for assay to the Mines Department Laboratories in Launceston (Reg. Nos. 692573 and 692574). The heavy mineral concentrates from the holes dug around the 80 acre lease North of M.L. 659 (see plan) were bulked separately and also sent for assay to the Mines Department Laboratories (Reg. No. 692572).

February 17, 1970.

J. Volker
J. VOLKER

Maps
 101/1 Investigation baselines
 101/2(I) ' '
 101/2(II) ' '

LOCATION

4 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
4M0	7'6"	Wh. Sand 0' - 4'6" Hard Pan 4'6" - 7'6"	N.S.						Hard Pan)	White
4M10	6 ft.	Grey/Organic Sand 0' - 4' Hard Pan 4' - 6'	N.S.						Hard Pan)	sand panned in field
4M20	7 ft.	Wh. to dark sand 0' - 5' Hard Pan 5' - 7'	N.S.						Hard Pan)	some
4M30	6 ft.	Wh. to dark sand 0' - 3'6" Hard Pan 3'6" - 6'	N.S.						Hard Pan)	fine Tin
4M41	10 ft.	Brown Sand 0' - 5'6" Wh. D.M. Schist 5'6" - 10'	N.S.						Dec. Mica Schist Soft Bottom	Some fine tin and garnet above Schist
4M45	8 ft.	Yellow/B. Clay 6" - 6' Wh. Qtz. Wash 6' - 7'	1 ft.	.153	1.1	7 oz.	6%	.6	" " "	
4M50	8 ft.	Yellow Clay 0' - 6' White Wash 6' - 7'	N.S.						" " "	Some fine tin and garnet 6' - 7'
4M60	7 ft.	Yellow Clay 1'6" - 3' B. Wash 3-7'							? Dec. Mica Schist	Qtz. garnet Fe stone, no tin
4M70	6'6"	Yellow Clay 0' - 5'6" Blue Wash 5'6" - 6'6"							Wh. Dec. Mica Schist	Qtz. No tin

LOCATION

4 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
4M80	6 ft.	G. Sand/Y. Clay 0' - 3' Blue M. Schist 3' - 6'	N.S.						D. Mica Schist	No tin
4M90	9 ft.	Red T. Soil 0' - 1'6" Y. Clay 1'6" - 2'6" Blue Wash 2'6" - 9 ft.	9 ft.	.88	2.3	2½ oz.	6%	.21	D. Mica Schist	
(A) 4M100	3 ft.	Sandy Wash 0' - 6" Yellow Clay 6" - 2' Blue Bottom 2' - 3'	2'10"	.205	NIL	NIL			D. Mica Schist	
4M110	6'6"	Y. Clay Fe Wash 0' - 4'6" D. Mica Schist 4'6" - 6'6"	5'4"	.409	0.7	1½ oz.	6%	.13	D. Mica Schist	
4M121	4 ft.	0' - 4' Dec. Blue Mica Schist	N.S.						D. Blue M. Schist	No wash
4M131	4 ft.	Yellow Clay Wash 0' - 3'3" Blue Bottom 3'3" - 4'	3'6"	.153	0.05	½ oz.	6%	.05	" "	
4M140	6 ft.	Brown Top Soil 0' - 3' Blue sandy clay 3' - 6'	N.S.						" "	No tin in dish
4M150	6 ft.	Grey silt 0' - 1'6" Fe Hard Pan 1'6" - 3' Blue Bottom 3' - 6'	4 ft.	.205	NIL	NIL			" "	
4M160	6 ft.	Silt & Qtz. 0' - 1'6" Y. Clay & Qtz. 1'6" - 4'6" Blue bottom 4'6" - 6'	5'3"	.281	1.5	5 oz.	6%	.41	" "	

HAWKES ALLUVIAL TIN LIMITED

028005

004

LOCATION

4 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70%Sa. per cu. yd.	Bottom	Remarks
4M170	6 ft.	Grey silt 0' - 1'6" Y. Clay 1'6" - 4' Blue Bottom 4' - 6'	N.S.						D. Blue M. Schist	No qtz.
4M180	7'6"	Grey sand 0' - 3'6" Hard Pan 3'6" - 6' Blue Bottom 6' - 7'6"	7/6"	.307	0.1	1/4 oz.	6%	tr	" "	
4M190	7'6"	Grey sand 0' - 3' H. Pan & Qtz. 3' - 6' Blue Bottom 6' - 7'6"	6'3"	.230	1.0	4 oz.	6%	.36	" "	
4M200	9'	Grey sand 0' - 5' Sandy clay 5' - 9'	9 ft.	.256	0.5	2 oz.	6%	.18	" "	
4M210	9/6"	Black T. Soil 0' - 6' Sandy clay 6' - 9'6"	9/6"	.256	0.5	2 oz.	6%	.18	" "	
4M220	9'9"	Grey sand 0' - 4'9" Sandy clay 4'9" - 9'9"	9'9"	.256	1.5	5 1/2 oz.	6%	.49	No bottom	
4M230	9'6"	Wh. Sand 0' - 4' H. Pan 4' - 4'6" Y. Clay & Qtz. 4'6" - 9'6"	9'6"	.256	0.7	2 1/2 oz.	6%	.22	" "	Grab sample
4M240	5'6"	Grey sand 0' - 2'6" Black H. Pan 2'6" - 5'6"	5'6"	.128	0.3	2 1/4 oz.	6%	.20	Hard Pan	
4M250	10'6"	Grey sand 0' - 10'6"	10'6"	.205	NIL	NIL	-	-	No bottom	Grab sample
4M260	10 ft.	Grey sand 0' - 3' Granit sand 3' - 10'	10 ft.	.230	0.3	1 3/4 oz.		.16	Dec. Granit	Grab Sample

HAWKES ALLUVIAL TIN LIMITED

028006

005

LOCATION

4 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
4M270	8 ft.	Wh. Sand 0' - 2' Hard Pan 2' - 4' Wh. Sand 4' - 7'	8 ft.	.256	0.4	1½ oz.	6%	.13	Dec. Granit	
4M280	6 ft.	Wh. Sand 0' - 3' Hard Pan 3' - 6'	6 ft.	.205	0.7	3¼ oz.	6%	.29	Hard Pan	
4M290	5 ft.	Wh. Sand 0' - 5' Wh. H. Pan at 5'	5 ft.	.128	0.3	2¼ oz.	6%	.20	" "	
4M300	8 ft.	Grey Sand 0' - 3' Y. Clay 3'	6'6"	.179	0.1	½ oz.	6%	.05	Dec. Granit	
4M310	10'6"	Grey Sand 0' - 2'6" Hard Pan 2'6" - 5'6" Clay/Granit 5'6" - 10'6"	10'6"	.332	0.9	2½ oz.	6%	.22	No bottom	
4M320	5 ft.	Grey Sand 0' - 3' Hard Pan 3' - 5'	5 ft.	.179	0.8	4¼ oz.	6%	.38	Hard Pan	

HAWKES ALLUVIAL TIN LIMITED

028007

006

LOCATION

N/S Line, 4M Junction South

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
4MJ 20	6'6"	Grey Sand Fe Stone Clay Blue Bottom	0'-1' 1'-6' 6'-6'6"	6'6"	.358	0.2	1/2 Oz.	6%	.04	Dec. Mica schist
4MJ 30	4'6"	Silt Y. Clay Blue Sandy B	0'-2' 2'-3'6" 3'6"-4'6"	3'6"	.332	0.1	1/4 Oz.	6%	tr	" " "
4MJ 40	4'6"	Sand Wash Fe Clay Wash Blue Bottom	0'-1' 1'-4' 4'-4'6"	4'0	.332	0.5	1 1/2 Oz.	6%	.13	S. end of N/S Line
4MJ 40 S.L.O.		Start of South Line out to Sea Elephant River Crossing								
S.L. 10	4'6"	Grey Sand Yellow Wash Blue Bottom	0'-3' 3'-4'	4'0	.179	1.0	5 1/4 Oz.	6%	.47	Dec. Mica Schist
S.L. 20	6'0	Y. Clay Blue Bottom	0'-5' 5' - 6'	N.S.	-	-	-	-	-	" " "
S.L. 30	6'0	Y. Clay and Fe Stone Blue Bottom	0'-3'4" 3'4"-6'	3'6"	.179	0.2	10z.	6%	.9	" " "
S.L. 40	8'6"	Br. Wash Y. Clay Grit Fe D. Granit	0'-3' 3'-8' 8'-8'6"	8'0	.256	1.7	6 1/2 Oz.	6%	.58	? Dec. Granit
S.L. 50	8'0	Sandy Wash Yellow Wash Fe Stained Clay	0'-5' 5'-7' 7'-8'	8'0	.435	0.6	1 1/2 Oz.	6%	.13	No Bottom

HAWKES ALLUVIAL TIN LIMITED

028008

007

LOCATION

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
S.L. 60	8'6"	Brown Clay Wash	0'- 8'6" 8'3"	.384	0.5	1 1/4 oz.	6%	.11	No Bottom	
S.L. 65	9'0"	Brown Clay Wash	0'- 9' 9'0"	.66	1.1	1 1/2 oz.	6%	.13	" "	Water warn quartz pebbles
S.L. 70	8'0"	Y. clay no quartz Y. clay and quartz Y. cemented wash	0'- 3'6" 3'6" 3'6"-4'6" to 4'6"- 8' 8'0"	.230	1.2	5 oz.	6%	.45	" "	
S.L. 80	8'	Sand Y. clay	0'- 6'6" 6'6"- 8'	.307	1.1	3 1/2 oz.	6%	.31	Clay Bottom	Wet sticky clay

HAWKES ALLUVIAL TIN LIMITEDLOCATION

PEG "A" - 2 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Gms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
2m0	5'6"	Br. Sandy Wash 0' - 3'6" Dec. Mica Schist 3'6" - 5'6"	4'6"	.256	0.1	½ oz.	6%	.04	D. Mica Schist	
2M10	8'6"	Sandy Wash 0' - 3' Dec. Granit 3' - 8'6"	5'9"	.332	0.1	¼ oz.	6%	tr.	Dec. Granit	? Granit sand 3' - 4'9"
2M20	5'6"	Sand/Fe Pan 0' - 2'6" Y. Clay & Qtz. 2'6" - 4' Blue Bottom 4' - 5'6"	4'6"	.256	0.1	½ oz.	6%	.04	Blue D. Mica Schist	
2M30	7 ft.	Top Soil 0' - 1' Y. Clay 1' - 6' Blue Bottom 6' - 7'	6 ft. 1' - 7'	.205	NIL	NIL	-	-	" " "	
2M40	3'3"	Top Soil 0' - 1' Grey Sand 1' - 3' Choc. H. Pan 3' - 3'3"	3 ft.	.205	0.2	1 oz.	6%	.09	Hard Pan	H. P. too hard (N.P.)
2M50	4'9"	Grey sand 0' - 4'6" Choc. H. Pan 4'6" - 4'9"	4'6"	.460	0.1	¼ oz.	6%	tr.	" "	No penetration.
2M60	4'6"	Grey sand 0' - 2' Br. sand 2' - 4'6"	4'6"	.256	0.5	2 oz.	6%	.18	" "	" "
2M70	6'8"	Grey sand 0' - 4' Clay/sand 4' - 6' Blue Bottom 6' - 6'8"	6 ft.	.332	1.2	3½ oz.	6%	.31	Dec. Mica Schist	
2M80	4 ft.	Sand 0' - 3'6" Br. H. Pan 3'6" - 4'	4 ft.	.205	0.2	1 oz.	6%	.09	Hard pan	No penet ration.

HAWKES ALLUVIAL TIN LIMITEDLOCATION

PEG "A" - 2 MILE LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Gms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
2M90	3 ft.	Grey sand 0' - 1'6" Wh. Sand 1'6" - 3'	3 ft.	.205	0.2	1 oz.	6%	.09	Hard Pan	No penetration
2M100	4 ft.	Sandy Soil 0' - 1' Y. Clay 1' - 3' Blue Bottom 3' - 4'	3 ft. 0' - 3'	.205	NIL	NIL	-	-	Dec. Mica Schist	
2M110	5 ft.	Grey Sand 0' - 1'6" Br. Fe Pan 1'6" - 3'6" Blue Bottom 3'6" - 5'	4'6"	.205	0.3	1½ oz.	6%	.13	" " "	
2M120	6'6"	Grey Sand 0' - 4'6" Blue Clay B. 4'6" - 6'6"	5'6"	.230	0.5	2 oz.	6%	.18	" " "	
2M130	3'4"	Sandy T. Soil 0' - 1' Yellow Clay 1' - 2'6" Blue Bottom 2'6" - 3'4"	3'4"	.230	0.5	2 oz.	6%	.18	" " "	
2M140	3 ft.	Yellow Clay 1' - 2' Blue Bottom 2' - 3'	N.S.						" " "	Sandy Top Soil 0' - 1'
2M160	X	Too wet, couldn't get there	-							
N.S.T. 360° 22 ch.	X	Same point as 2M160	-							Junction with N. & S. Line Couldn't get to N.S.T. 20. Too wet and boggy.
N.S.T. 360° 10 ch.	4'6"	Yellow clay 0' - 1'6" Blue Bottom 1'6" - 4'6"	1'6"	.205	0.05	¼ oz.	6%	tr.	D. Mica	
N.S.T. 360° 0 ch.	X	This point is junction or end of E.W. Traverse from 4M170 at 4M170 going East 4M170 B90° 10 chains to 40 chains. i.e. 4M170 B270° 33 chains, crosses 4M Line								

HAWKES ALLUVIAL TIN LIMITEDLOCATION

2M LINE N.E.

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
T.N.S. 180 ^o 10	4'	Sandy Wash 0' - 1' Brown Wash 1' - 2' Blue Bottom 2' - 4'	3 ft.	.332	0.6	1 $\frac{3}{4}$ oz.	6%	.15	D. Mica Schist	True N.S. Line going South
T.N.S. 14	3'	Blue Clay 0' - 3'	N.S.							Bottom of Valley
T.N.S. 20	8'	Red T. Soil 0' - 3' Br. Clay 3' - 7'6" Blue Bottom 7'6" - 8'	7'6"	.230	0.1	$\frac{1}{2}$ oz.	6%	.04	D. Mica Schist	
4M Junc.	X	T.N.S. crosses the 4M Line Junction at 4M 124 chains, going South.								
4MJ 180 ^o 10 ch.	4'	Brown Wash 0' - 3' Blue Clay 3' - 4'	4 ft.	.384	NIL	NIL	-	-	D. Mica Schist	
SEA ELEPHANT END OF SOUTH LINE										
SL83	6 ft.	River Sand 0' - 5' D. Granit 5' - 6'	5 ft.	.332	1.5	4 $\frac{1}{2}$ oz.	6%	.40	D. Granit	3 ft. below River level
Special samples between Lease Peg "A" and 2M10 and N.W. of it										
2M10 N x 5	4'9"	Top Soil 0' - 6" Wash 6" - 2' Yellow Clay 2' - 3'3"	3'3"	.208	0.1	$\frac{1}{2}$ oz.	6%	.04	D. Mica Schist	
2M10 N x 10	8'6"	Sandy Wash 0' - 1' Yellow Clay 1' - 5' Blue Qtz. Wash 5' - 8'6"	8'6"	.537	0.1	$\frac{1}{4}$ oz.	6%	tr.	No bottom	Start of looking for Blue Wash
2M10 x 323 ^o	X	Yellow Clay Basil's Blue Clay Pit	N.S.						D. Mica Schist	No tin in dish sample 1 $\frac{1}{2}$ chains 2M10 W. of NX10

HAWKES ALLUVIAL TIN LIMITED

LOCATION

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
2MPA NNW 3 ch.	4'6"	Wh. Sand & Qtz. 0' - 3'6" Br. Hard Pan 3'6" - 4'6"	3'6"	.230	0.3	1 1/4 oz.	6%	.11	Br. Hard Pan	
5NX 13 ch.	4'6"	Sand 0' - 2'6" Clay Bottom 2'6" - 4'6"	2'6"	.153	0.1	1/2 oz.	6%	.04	Dec. Mica Schist	
2M5	9 ft.	Grey Sand 0' - 3' Y. Clay 3' - 4' Blue Wash & Qtz. 4' - 9'	9 ft.	.307	0.3	1 oz.	6%	.09	" " "	Grab Sample
2M4	8 ft.	Yellow Clays 0' - 8' No Blue Wash	N.S.						No Bottom	
2M6	9 ft.	Similar to 2M5 Blue Wash & Qtz.	N.S.						" "	
2M8	11 ft.	Similar to 2M6 Blue Wash & Qtz.	N.S.						" "	
A2W	11 ft.	Red Soil 0' - 3' Yellow Wash 3' - 6'	6 ft.	.307	NIL	NIL	-	-	" "	No Blue Wash
<u>A1 TO A28 WEST SIDE OF LEASE SOUTH FROM PEG "A"</u>										
A1	12'	Top Soil 0' - 10' Blue Clay 10' - 11' Blue Wash 11' - 12'	11' to 12'	.153	0.1	1/2 oz.	49.3	.35	Blue Wash Not Bottomed	
A2	7'6"	Top Soil 0' - 2'6" Clay & Water 2'6" - 7'6"	7'6"	.256	0.5	2 oz.	49.3	1.4	Not Bottomed	

HAWKES ALLUVIAL TIN LIMITED

028013 012

LOCATION

A1 TO A28 WEST SIDE OF LEASE SOUTH FROM PEG "A"

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Gms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70%Sn. per cu. yd.	Bottom	Remarks
A4	11'6"	Sand 0' - 5' Clay/Silt 5' - 11' Fe Stone 11' - 11'6"	1' to 11'6"	.409	1.1	2½ oz.	49.3	1.75	No Bottom	
A6	11'6"	Wash 0' - 4' D. Mica Schist 4' - 11'6"	8 ft.	.307	1.0	3 oz.	49.3	2.1	D. Mica Schist	
A8	6'6"	Sandy Wash 0' - 3' D. Mica Schist 3' - 6'6"	3'6"	.230	1.2	5 oz.	49.3	3.5	" " "	
A10	7'6"	Wash 0' - 5' D. Mica Schist 5' - 7'6"	5'6"	.179	1.2	6½ oz.	49.3	4.5	" " "	
A12	8 ft.	Sand & Qtz. 0' - 5' D. Mica Schist 5' - 8'	5'6"	.281	2.4	8 oz.	49.3	5.6	" " "	
A14	9 ft.	Grey Sand 0' - 3' Y. Clay 3' - 5' Clay Qtz. Wash 5' - 7'	1' - 7'	.332	1.5	4¼ oz.	49.3	2.9	" " "	
A16	7 ft.	Wash 0' - 3' D. Mica Schist 3' - 7'	5 ft.	.205	1.1	5 oz.	49.3	3.5	" " "	
A18	5'6"	Grey Sand 0' - 2' Iron Pan 2' - 3' Yellow Wash 3' - 5'	5 ft.	.230	2.7	11 oz.	49.3	7.7	" " "	
A20	6'8"	Wash 0' - 1'6" Y. Clay 1'6" - 2'	3 ft.	.153	0.4	2½ oz.	49.3	1.75	" " "	
A22	7'6"	Sand 0' - 2' Y. Clay Wash 2' - 4'	4 ft.	.153	1.3	8 oz.	49.3	5.6	" " "	

HAWKES ALLUVIAL TIN LIMITED

028014

013

LOCATION

A1 TO A28 WEST SIDE OF LEASE SOUTH FROM PEG "A"

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
A24	7 ft.	Sand 0' - 2' Y. Clay 2' - 5'	5 ft.	.230	0.8	3 $\frac{3}{4}$ oz.	49.3	2.6	D. Mica Schist	
A26	7'6"	Wash 0' - 6' Mica Schist 6' - 7'6"	6'6"	.384	28.0	69 oz.	49.3	48.3	" " "	Good coarse tin
L. Peg A28	4'10"	Top Soil 0' - 1' Wash 1' - 4'6"	4'10"	.332	11.3	32 oz.	49.3	22.4	" " "	" " "
Fence Line BMO	6 ft.	Sandy Wash 0' - 4'4" Mica Schist 4'4" - 6'	5 ft.	.332	1.8	5 oz.	49.3	3.5	" " "	
BM2	5 ft.	Sandy Wash 0' - 2' Blue Wash 2' - 4'	3'6"	.230	7.3	30 oz.	49.3	21.0	" " "	
BM4	5 ft.	Wh. Sand 0' - 2' Blue Wash 2' - 3'	4 ft.	.179	4.5	24 oz.	49.3	16.8	" " "	
BM6	5'6"	Sandy Wash 0' - 2'6" Qtz. Wash 2'6" - 3'	4 ft.	.179	5.1	27 oz.	49.3	18.9	" " "	
BM8	6 ft.	Grey Sand 0' - 2' Wh. Dec. Schist 2' - 6'	2'6"	.179	2.2	11 $\frac{1}{2}$ oz.	49.3	8.05	" " "	
BM10	6 ft.	Grey Sand 0' - 2' Wh. D. Schist 2' - 6'	2'6"	.102	2.7	25 $\frac{1}{4}$ oz.	49.3	17.6	" " "	
BM12	6 ft.	Grey Sand 0' - 3' D.M. Schist 3' - 5'	4 ft.	.179	2.2	11 $\frac{1}{2}$ oz.	49.3	8.05	" " "	
BM15	6 ft.	Sandy Wash 0' - 4'6" D.M. Schist 4'6" - 6'	5 ft.	.230	1.2	5 oz.	49.3	3.5	" " "	
BM18	5 ft.	Sandy Wash 0' - 2' D.M. Schist 2' - 5'	3 ft.	.128	1.0	7 $\frac{1}{2}$ oz.	49.3	5.2	" " "	

HAWKES ALLUVIAL TIN LIMITED

028015

014

LOCATION

WEST SIDE OF LEASE A26 TO LEASE PEG A28

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70%Sn. per cu. yd.	Bottom	Remarks
BM20	4 ft.	Sand & Qtz. 0' - 3' D.M. Schist 3' - 4'	3'6"	.230	3.8	15 $\frac{3}{4}$ oz.	49.3	11.0	D.M. Schist	
BM22	4 ft.	Sand/H Pan 0' - 2'6" D.M. Schist 2'6" - 4'	3'5"	.205	0.9	4 $\frac{1}{4}$ oz.	49.3	2.9	" " "	

LOCATION FRECKLINGTON'S FENCE LINE NORTH

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
BM 24	4'6"	Sand 0'-1'6" Hard Pan 1'6"-2' D.M. Schist 2'-4'6"	3'6"	.128	0.9	6 1/2 oz.	XXXX 49.3	XXXX 4.7	D.Mica Schist	
BM 26	4'6"	Grey Sand 0'-1'6" Hard Pan 1'6"-2'	3'0	.153	2.1	13oz.	49.3	9.1	" " "	
BM 28	5'0	Sand 0'-2'6" Br. Wash 2'6"-3'	3'0	.179	2.0	10 1/2 oz.	49.3	7.3	" " "	
BM 30	10'0	Sand 0'-6' Y. Clay 6'-9'	10'0	.256	0.6	2 1/2 oz.	49.3	1.6	" " "	
BM 31.5	10'0	Sand 0'-5'6" Clay Wash 5'6"-10'	5'6" to 10'0	.230	0.1	1/2 oz.	49.3	.17	No Bottom	
BM 35	5'6"	Sand 0'-2' Clay Wash 2'-4'	4'0	.205	0.6	2 1/2 oz.	49.3	1.9	D.Mica Schist	
BM 40	6'0	Sand 0'-2' Fe Clay 2'-3'	4'0	.179	0.6	3 1/2 oz.	49.3	2.4	" " "	
BM 45	5'0	Y. Clay 0'-3' D.M. Schist 3'-5'	3'0	.013	Nil	Nil	-	-	" " "	
BM 50	9'0	Y. Clay 0'-8' Blue Sandy Clay 8'-8'6"	9'0	.332	0.4	1oz.	49.3	.7	" " "	Grab sample
BM 57	7'6"	Y. Clay 0'-7' Wash 6'11"-7'	6'11" to 7'0	.153	Nil	Nil	-	-	" " "	

HAWKES ALLUVIAL TIN LIMITED

028017

016

LOCATION

NORTH SIDE OF LEASE AE2 - AE50

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
AE2	4 ft.	Wash 0' - 2' D.M. Schist 2' - 4'	2 ft.	.332	8.7	25 oz.	49.3	17.5	D.M. Schist	Dry Creek Bed
AE5	8'6"	Sandy Wash 0' - 4' Blue Wash 4' - 8'	8 ft.	.537	0.2	½ oz.	49.3	.35	" " "	
AE7.5	10 ft.	Sand 0' - 1' Blue Wash 1' - 10'	9 ft.	.501	0.2	¼ oz.	49.3	.17	No bottom	
AE10	10 ft.	Sand 0' - 4' Hard Pan 4' - 4'3" Blue Wash 4'3" - 9'6"	9'6"	.332	0.4	1 oz.	49.3	.7	" "	
AE12.5	5 ft.	Wash 0' - 2'3" D.M. Schist 2'3" - 5'	3 ft.	.179	0.1	½ oz.	49.3	.35	D.M. Schist	
AE15	5'6"	Wh. Qtz. Wash 6" - 3'6" D.M. Schist 3'6" - 5'6"	4 ft.	.256	0.6	2¼ oz.	49.3	1.6	" "	
AE20	8'6"	Sand 0' - 2' Hard Pan 2' - 4' Blue Clay 4' - 8'6"	4 ft.	.077	0.1	1¼ oz.	49.3	.9	" "	
AE25	8 ft.	Y. Clay 0' - 5' Blue Clay 5' - 8'	N.S.						" "	
AE30	6 ft.	Y. Clay & Qtz. 0' - 5' Wh. D. Schist 5' - 6'	5'6"	.307	0.1	¼ oz.	49.3	.17	" "	
AE35	7'6"	Y. Clay Wash 0' - 5' D.M. Schist 5' - 7'6"	5'4"	.307	0.6	2 oz.	49.3	1.4	" "	
AE40	8 ft.	Grey Wash 0' - 2'6" Blue Wash 2'6" - 8'	8 ft.	.281	1.0	3 oz.	49.3	2.1	" "	

HAWKES ALLUVIAL TIN LIMITED

028018 017

LOCATION

NORTH SIDE OF LEASE AE2 - AE50

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
AE45	4 ft.	Sand 0' - 4' Hard Pan at 4'	N.S.				49.3	2.8	Hard Pan	No Penetration
AE50	7'6"	V. Hard Clay Sand 0' - 7'6"	7'6"	.307	1.3	4 oz.	49.3	2.8	No Bottom	

LOCATION N.S. LEASE Peg going South
40 Acre Lease

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks	
L.P. near 4M40	8'6"	Grey Sand Blue Clay	0'-3' 3'-8'6"	3'0	.153	0.3	2oz.	49.3	1.4	No Bottom	
L.P. 105	3'6"	Sand Hard Pan	0'-3'6" at 3'6"	3'6"	.128	0.3	2½oz.	49.3	1.6	Hard Pan	
L.P. 20	4'6"	Sand Hard Pan	0'-2'6" 2'6"-4'6"	N.S.	-	Nil	Nil	-	-	" "	
L.P. 28	10'0	Sandy clay Qtz.clay wash	0'-8'6" 8'6"-10'	10'0	.332	0.3	1 oz.	49.3	.7	No Bottom	80 Acre Lease S. Lease Peg
L.P.28 W.8	5'0	Grey Sand Hard Pan	0'-3' 3'-5'	5'0	.153	0.1	½oz.	49.3	.35	Hard Pan	40 Acre Lease Peg 40 AP
40 AP 5W	4'6"	Sand Hard Pan	0'-2'4" 2'4"-4'6"	3'6"	.128	0.1	¾oz.	49.3	.52	" "	15 Chains W. of Peg L.P.28

HAWKES ALLUVIAL TIN LIMITED

028020

019

LOCATION

MINE LEASE SAMPLES PLANT LEASE

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70%Sn. per cu. yd.	Bottom	Remarks
A28 E 2002	9 ft.	Grey Sand 0' - 2'6" Y. Clay 2'6" - 6'6" Qtz. Wash 6'6" - 8'	7 ft.	.357	4.9	13 oz.	49.3	9.1		D. Mica Schist
E2002 N2	7 ft.	Grey Sand 0' - 2' Y. Clay 2' - 4' D.M. Schist 4' - 7'	4'6"	.230	3.6	14½ oz.	49.3	10.1	D. Mica Schist	Going North into next Lease
E2002 N4	5'6"	Sand 0' - 4' Y. Clay 4' - 5' D.M. Schist 5' - 5'6"	5'6"	.230	1.7	7 oz.	49.3	4.9	"	" " "
E2002 N6	5'6"	Sand 0' - 2' Y. Clay 2' - 4' D.M. Schist 4' - 5'6"	4'6"	.256	1.6	6 oz.	49.3	4.2	"	" " "
E2002 N7	5'6"	Sand 0' - 2' Y. Clay 2' - 3' D.M. Schist 3' - 5'6"	4'4"	.256	4.7	17½ oz.	49.3	12.2	"	" " "
E4002	10'6"	Sand 0' - 3' Y. Wash 3' - 6' Wh. Wash 6' - 10'6"	10'6"	.537	5.4	9½ oz.	49.3	6.6	Not Bottomed	
E6002	9 ft.	Sand 0' - 2'6" Y. Wash 2'6" - 5'6" Wh. Wash 5'6" - 8'	8'6"	.281	3.2	11 oz.	49.3	7.7	Dec. Mica Schist	
E8002	7 ft.	Sand 0' - 1'6" Y. Wash 1'6" - 4'6" Wh. Wash 4'5" - 6'	6 ft.	.230	3.0	12½ oz.	49.3	8.7	"	

HAWKES ALLUVIAL TIN LIMITED

028021 020

LOCATION

MINE LEASE SAMPLES PLANT LEASE

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Grms. Heavy Min.	Oz. H. M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
E1000 [✓]	6 ft.	Sand 0' - 2' Y. Wash 2' - 4'6" Wh. Wash 4'6" - 5'6"	6 ft.	.230	3.2	13 oz.	49.3	9.1	D.M. Schist	
E1050 [✓]	6'6"	Sand 0' - 2' Blue Wash 2' - 5'6" D.M. Schist 5'6" - 6'6"	5'6"	.256	2.6	9½ oz.	49.3	6.6	"	

HAWKES ALLUVIAL TIN LIMITED

02802021

LOCATION

BASE LINE (lease diagonal)

Sample No.	Depth	Description of Ground	Depth Channel Sample	Meas. Vol. cu. ft.	Gms. Heavy Min.	Oz. H.M. per cu. yd.	Assay	Oz. 70% Sn. per cu. yd.	Bottom	Remarks
B.L. 5	4'6"	Grey sand 0' - 3' Hard Pan 3' - 4'6"	4'	.128	0.1	$\frac{3}{4}$ oz.	6%	.06	Hard Pan	
B.L. 10	7'0"	Sand 0' - 3' Brown H. Pan 3' - 6' Brick H. Pan 6' - 7'	6'6"	.205	0.1	$\frac{1}{2}$ oz.	6%	.04	" "	
B.L. 15	4'0"	Wh/Brown Sand 0' - 3' Wh. Hard Pan 3' - 4'	1'-4' 3'	.205	0.5	2 $\frac{1}{2}$ oz.	6%	.22	" "	
B.L. 20	5'0"	Grey Sand 0' - 4'6" Brown H. Pan 4'6" - 5'	4'6"	.205	0.2	1 oz.	6%	.09	" "	
B.L. 25	6'0"	Sandy Wash 0' - 4' D. Granit 4' - 6'	5'	.486	4.5	9 oz.	6%	.81	Dec. Granit	
B.L. 30	7'0"	Sandy 0' - 1' Clay 1' - 7'	N.S.	-	-	-			Clay Bottom	Not sampled
B.L. 35	5'6"	Sandy Wash 0' - 2' Qtz. Wash 2' - 5'	5'	.385	1.4	3 $\frac{1}{2}$ oz.	6%	.31	Dec. Mica Schist	

028023

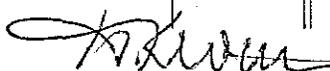
LABORATORY,
LAUNCESTON,

9th January, 1970

HAWKES CERTIFICATE OF ANALYSISTo Quest Mining & Exploration N.L.100 Collins Street, Melbourne, Vic. 3000

The sample of Concs. received
 from the above (per Mr. Ackland) on the 22nd December, 1969
 and stated to be from Hawkes Alluvial, King Island ^{has} ~~have~~ been
 examined, with the following results:—

Registered Number	Constituents	Per Cent	Per Ton		
			Ozs.	Dwts.	Grs.
692572	(Lease Line) Sn	49.3			
692573	(P.A. Line, Dish & Van) Sn	6.00			
2574	(P.A. Line, Dish Only) Sn	4.9			
Analyses by <u>M. Madaly</u>					
Fees: \$3.00					


 Chief Chemist and Metallurgist

023

R.P. 1144

028024



DEPARTMENT OF MINES—TASMANIA

LAUNCESTON OFFICES
287 WELLINGTON STREET
SOUTH LAUNCESTON 7250

TELEPHONES:
Metallurgical Research }
Laboratory } 44 2431-2
Mines Inspection } (2 lines)
Explosives & Inflammable Liquids }

17th February, 1970.

Quest Mining & Exploration N.L.,
100 Collins Street,
Melbourne, Vic. 3000

Dear Sirs,

Hawkes Alluvial, King Island

Herewith results of further analyses on samples received from you on 22nd December, 1969, as requested by Mr. Ackland. Previous results forwarded 9th January, 1970.

<u>Reg. No.</u>	<u>Description etc.</u>	<u>Percent</u>	
		<u>Fe</u>	<u>TiO₂</u>
692573	<u>P.A. Line</u> Dish & Van.	1.58	46.0
692574	Dish only	0.99	39.0

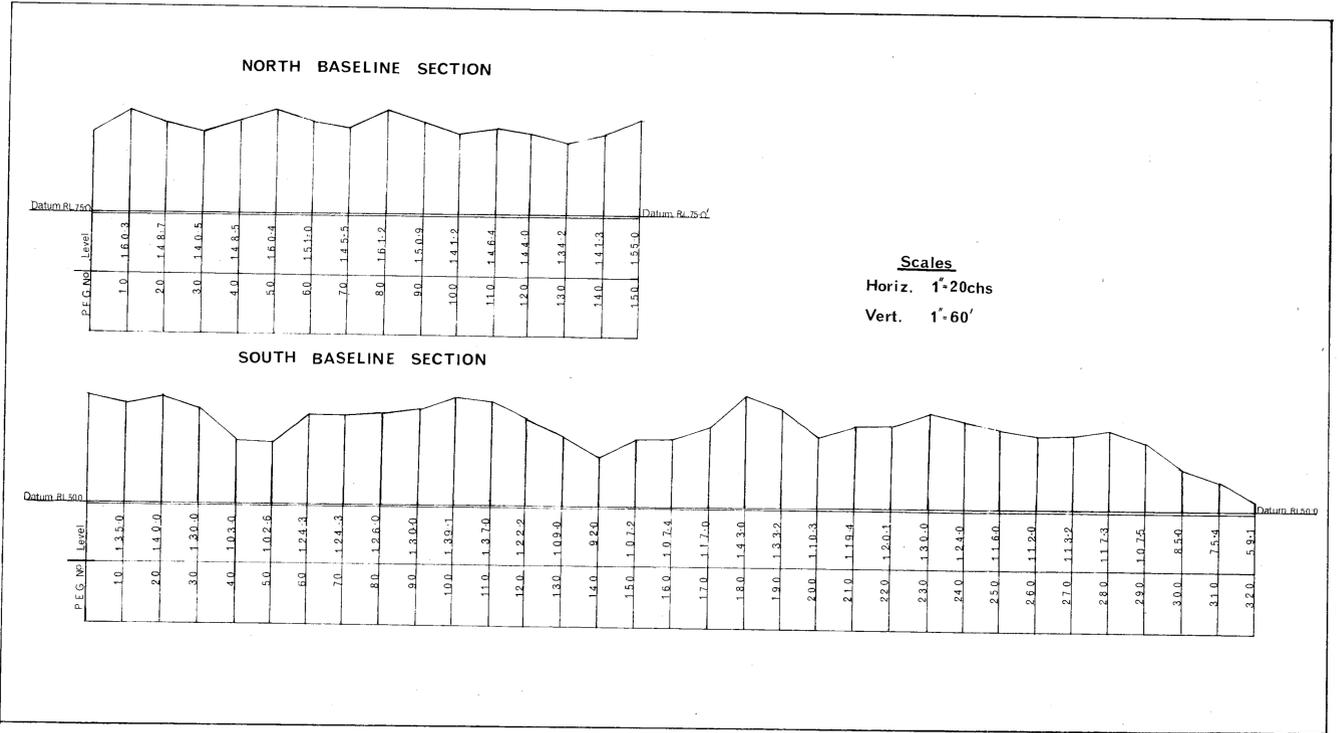
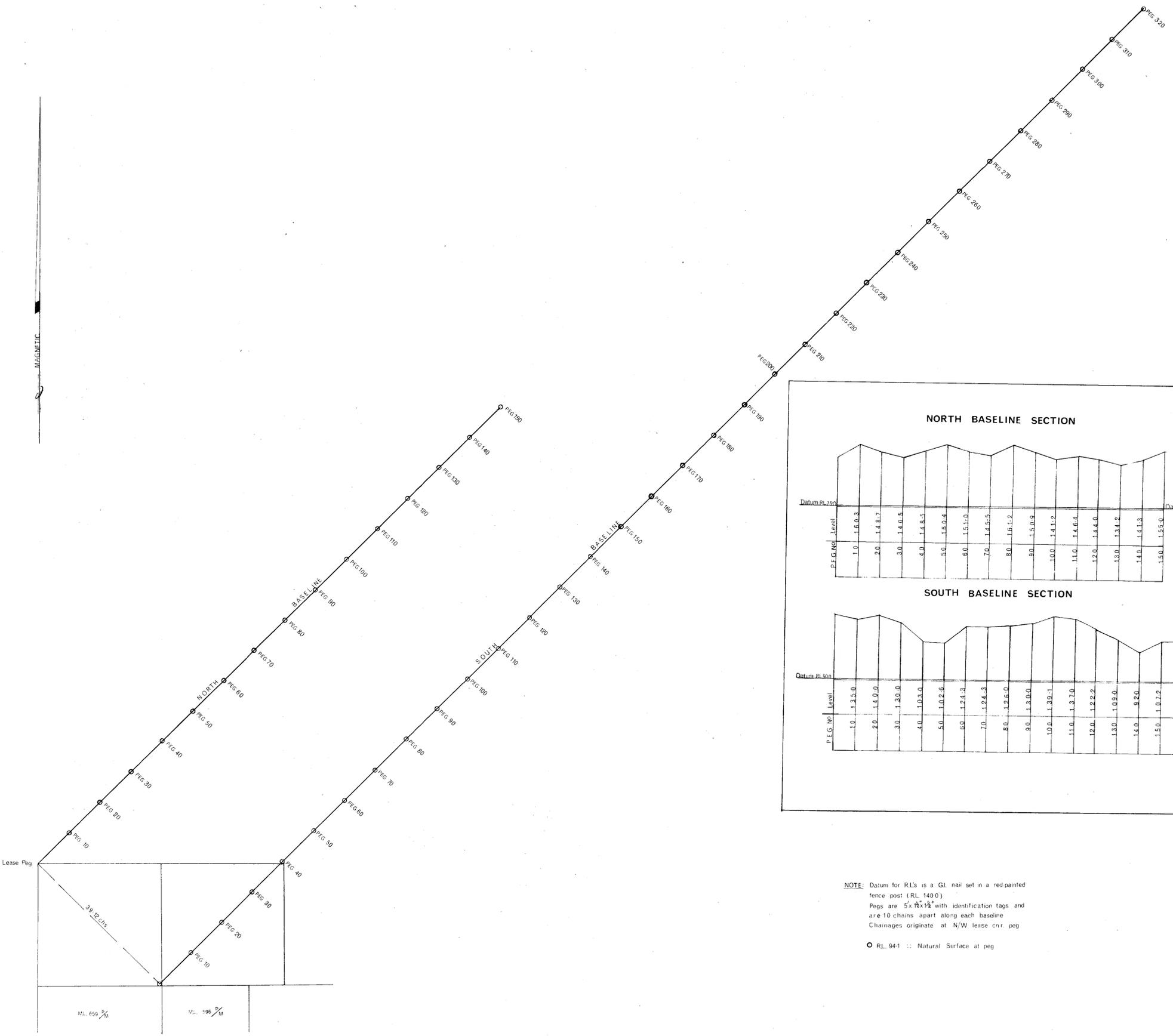
As no tungsten was observed in doing the other assays, this element was not determined.

Analyses by *J. Paulston*.....

Yours faithfully,

(H.K. Wellington),
Chief Chemist & Metallurgist.

Fees: \$4.00



Scales
 Horiz. 1"=20chs
 Vert. 1"=60'

NOTE: Datum for RLs is a GI nail set in a repainted fence post (RL 140.0)
 Pegs are 5x1 1/2" with identification tags and are 10 chains apart along each baseline
 Chainages originate at N/W lease cnr peg
 ○ RL 941 :: Natural Surface at peg



028025
 70-612

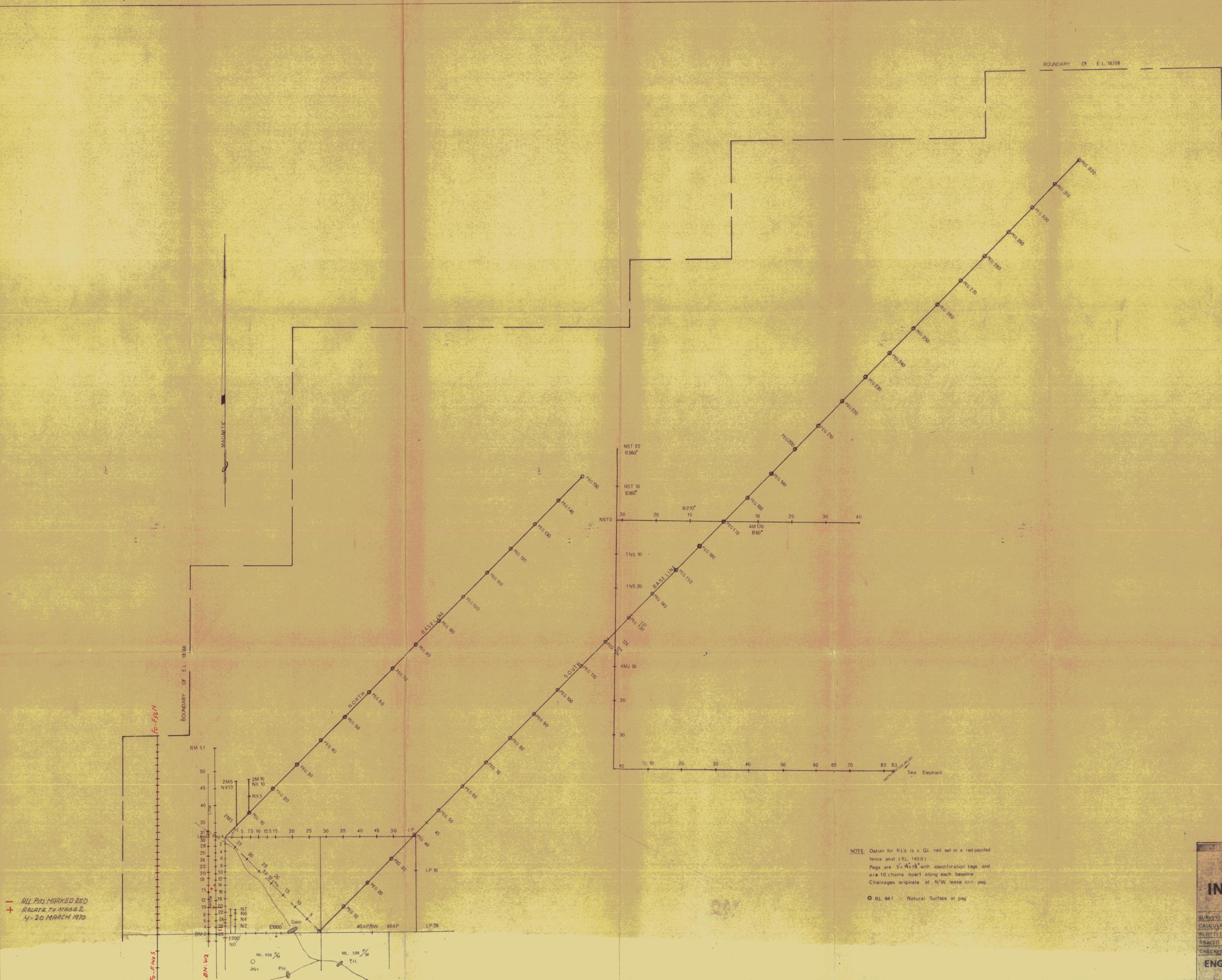
E.L. 18/69

**HAWKES ALLUVIAL TIN DEPOSIT
 KING ISLAND.**

INVESTIGATION BASELINES

SURVEYED BY	TORAM	DATE	18/11/1969
CALCULATIONS		SCALE	1"=10chs
PLOTTED		DRAWING NO	101/1
TRACED		CHECKED	G.G.

ENGINEERING SURVEYS (AUSTRALIA) PTY. LTD.
 166 168 ALBERT ROAD, SOUTH MELBOURNE.



- ALL PITS MARKED RED
 + RELATE TO STAGE 2
 4-20 MARCH 1970

NOTE: Datum for RLs is a GI nail set in a red painted fence post (RL 1400)
 Pegs are 5" x 1/2" with identification tags and are 10 chains apart along each baseline
 Chainages originate at N/W lease cor. peg
 ○ RL 941 : Natural Surface at peg



028027
 70-612

HAWKES ALLUVIAL TIN DEPOSIT
 KING ISLAND

INVESTIGATION BASELINES

SURVEYED BY	T ORAM	DATE	17/2/1970
CALCULATIONS		SCALE	1"=10 chs
PLOTTED		DRAWING NO	101/2(1)
TRACED		CHECKED	G.G.

ENGINEERING SURVEYS (AUSTRALIA) PTY. LTD.
 166-169 ALBERT ROAD, SOUTH MELBOURNE