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ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

REPORT NO. 4

PRELIMINARY REVIEW OF THE THIRD DIAMOND DRILLING PROGRAMME AT THE BLUE TIER TIN PROSPECT

at

LOTTAH,
TASMANIA

by

R. G. TAYLOR
(Supervising Geologist)

January 10th, 1966.

DIAGRAMS ACCOMPANYING REPORT:

Appendix I		Tonnage and Grade Calculations	Back of this report
Appendix 2		Diamond Drill Core Logs Nos. 12-21	Back of this report
1	BT-001-G	Location Plan	
2	BT-050-G	Plan of No. 1 Ore Zone	Revised
3	BT-051-G	" " No. 2 " "	Revised
4	BT-052-G	" " No. 3 " "	Revised
5	BT-053-G	" " No. 4 " "	Revised
6	BT-032-G	Cross Section 5100N Geology & Ore Bodies	
7	BT-033-G	" " 5200N	
8	BT-034-G	" " 5300N	
9	BT-035-G	" " 5400N	
10	BT-036-G	" " 5500N	
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13	BT-042-G	Longitudinal Section 24800E	
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16	BT-045-G	" " 25100E	
17	BT-046-G	" " 25300E	
18	BT-047-G	" " 25500E	
19	BT-048-G	" " 25700E	
20	BT-049-G	Subsurface contour map of the contact of the coarse grained granite with the "ore zone". (N.B. This map contains information subsequent to the writing of this report.)	

CONTENTS:

NOTE: THESE PLANS ARE ALSO REFERRED TO IN REPORT 66-423

1. INTRODUCTION.

At the period of review, 12 diamond drill holes of the planned 30-35 hole programme have been completed, and assay results are available for the first ten (Nos. 12-21). Previous sampling and drilling, along and behind the east face of the Anchor open cut, has indicated the presence of 4 flat lying cassiterite ore zones. The present exploration is searching for extensions of these zones, and has been aimed to locate at least 2,000,000 tons of 1% tin ore within an area roughly 1,200 sq. ft. (See Rep. No. 3 Mason and Morton, 21/6/65). The current programme takes the form of primary grid drilling, with holes at every 200 ft. for a total of 30-35 holes at an average depth of 200-250 ft.

2. GEOLOGY.

(a) Rock Types and Stratigraphy:

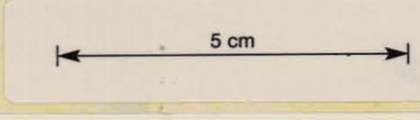
Decomposed coarse grained granite (Overburden)
0' - 75'

Coarse grained biotite granite - with occasional bands of aplite and quartz-felspar rock. 10'-80' White-Pink.

Pegmatite, quartz-felspar biotite. 0'-1'. White-Pink.

White-Grey, fine grained biotite granite - partially greisenised. (7 in. granite) ± greisen bands and patches.
First 120' below the contact is mineralised, with cassiterite occurring in 1-4 separate zones, ranging from less than 1' to greater than 50' thick.

Below the first 1-120', the rock becomes whiter, less mineralised and merges imperceptibly into fine grained granite, sometimes with very minor greisenisation.



The above diagram represents an idealised section showing the typical drilling sequence encountered in the region under exploration.

(b) Structure:

Although spatial relationships between the two major rock units are imperfectly known, it is widely held that the fine grained granite is intrusive into the coarse variety, contact relationships between the two granites are shown on the longitudinal and transverse sections (Figs. BT32-38, 42-48).

In northern, western and central regions, the contact rises gently (0-10°), both to the N and E; however, moving southwards, this regular pattern becomes disturbed and the two granites appear to interfinger, giving the general impression that the finer variety is either dying out or that its main mass occurs at a substantially lower level than the depth of the boreholes. A further departure from the regular pattern occurs in the N.E. corner of the grid, where a sheet of barren fine grained granite overlies the normal stratigraphical sequence (Figs. BT46 and 37).

A subsurface contour map of the coarse grained granite/"ore zone" contact (Fig. BT49) reveals a flat topped dome structure, with comparatively steeply dipping eastern and southern flanks. Little is known regarding the northern flank, but the western appears to grade gently downhill.

The finer grained granite is usually partially greisenised, and in parts complete greisenisation occurs to produce bands up to 25-30 ft. thick. Greisenised areas reach maximum development around the contact region, becoming more sporadic in depth; correlation of individual zones is very difficult and often impossible.

(c) Ore Bodies:

Mineralisation occurs within the greisen and greisenised fine grained granite, and is generally all contained within the first 120 ft. below the contact with the coarse granite. Cassiterite is the only economic mineral of significance, and occurs in what appear to be intermittent flat lying zones ranging from less than 1 ft. to greater than 50 ft. thick. It must be noted that correlation of zones between holes is a difficult and slightly dubious process and the interpretations shown must be regarded with caution. However, there appear to be four major zones present, and their attitudes and extents are shown on the enclosed plans and sections.

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The following notes supplement the above diagrams.

Ore Zone No. 1	Minor zone, of restricted vertical and lateral extent. Rich in parts.
Ore Zone No. 2	Major zone, of wide lateral extent and variable vertical extent (5 ft.-55 ft.) Sometimes interconnects with Zone 3. Southern and western boundaries determined. Unclosed along east and north flanks. General decrease of cassiterite content to the north and south-east.
Ore Zone No. 3	Major zone, of wide lateral extent, and variable vertical extent (5 ft.-55 ft.), occasionally interconnecting with Zone 2. Smaller than Zone 2, but generally richer. Boundaries determined on western and southern flanks. Possible repetition in N.E. corner of grid.
Ore Zone No. 4	Similar to Ore Zone 1, with general low widths and values.

The overall impression given by the cassiterite distribution is of a heavily mineralised area to the immediate east of the Anchor face, where often all four zones are represented, with a general loss of mineralisation moving north, east and south of this focal point.

Comparison of ore distribution with the upper coarse granite/ore zone junction (Fig. 20) reveals no consistent relationships. However, the general N.E. trend of the open cut workings corresponds roughly to a possible minor axis of the dome, and information subsequent to that included there indicates that the waning mineralisation is strongest in the N.E. corner of the grid. It is at present impossible to place a strong interpretation upon these factors, but the latter in itself indicates that the N.E. corner provides the best target for any future drilling.

Cassiterite is generally, although not necessarily, associated with greisen rock and is more abundant over the first 50-70 ft. below the contact with the coarse grained granite. Other ore minerals present in minor quantities include chalcopyrite, bornite, molybdenite, pyrite and fluorite.

3. ORE RESERVES AND MINING ECONOMICS.

Correlation of ore zones between diamond drill holes is a tenuous process and, bearing this limitation in mind, an assessment of ore reserves has been attempted, utilising the sample data. Calculations are based upon plan projection of the ore zones from the cross and longitudinal sections (Plans 1-4). The reserves are classified as indicated (Aust.I.M.M. Proc. No. 174, 1955), and details are given in Appendix I. Presentation of data is similar to that of Report No. 3, Blue Tier, in order to allow direct comparison of results.

Summary of Ore Reserve Calculations

		Tons	Grade % Sn
Ore:	Containing more than 0.4% Sn	337,577	0.662
	" between 0.1 & 0.4%Sn	534,096	0.232
	Total	871,673	0.410
Overburden:	Decomposed granite	1,691,947	Nil
Waste:	Barren material between ore zones	1,031,760	Nil
	Total Overburden + Waste	2,723,707	Nil

Limits taken as those of Ore Zone 2.

Theoretical Ratios:

Ratio, overburden + waste to high grade (0.662)

2,723,707/337,577 = 8.1 : 1

Ratio, overburden + waste to total ore

2,723,707/871,673 = 3.1 : 1

Assuming a dilution factor of 15% for any mining operations, and the extraction of only high grade ore, calculated tonnage and grade must be adjusted:-

Ore:	Tons	Grade
Containing more than 0.4% Sn	337,577	0.662
Plus 15% diluting material	50,640	Nil
Diluted ore	388,217	0.572

Ratio, overburden + waste to diluted high grade ore (0.572)

2,723,707/388,217 = 7.0 : 1

Comparison and Summary Table

	✱1 Indicated Tonnage	Grade % Sn	Potential tons/ sq.ft.	Ratio Overburden + waste : ore	Ratio ✱2 Overburden + waste + batters : ore
Higher Grade Ore	337,577 (108,176 ✱ 3)	0.662 (1.055)	1.33 (1.29)	8.1 : 1 (8.6 : 1)	12 : 1 (12.5 : 1)
Higher Grade Ore + 15% dilution	388,217 (124,400)	0.572 (0.918)	1.52 (1.48)	7 : 1 (7.4 : 1)	10.9 : 1 (11.3 : 1)
Total Tin bearing Granite	871,673 (238,102)	0.410 (0.606)	3.44 (2.80)	3.1 : 1 (3.9 : 1)	7.0 : 1 (7.8 : 1)

✱1 Beneath an area of 253,792 sq.ft. (84,168). This is the surface area covered by the largest ore zone, No. 2. Actual surface area considered in this report is approx. 258,509 sq.ft.

✱2 Calculation based on 2,000,000 tons of ore reserves, and assumes batter angle of 50°, the ratio of batter waste to ore being thus 3.9 : 1. (Mason and Morton Rep. No. 3, Blue Tier).

✱3 Figures in brackets indicate comparative results at the completion of second diamond drilling programme.

If it is assumed that Sn recovery is 60%, the recovered grade of the diluted 0.572% ore will be 0.343% Sn. At a tin price of £E.1,200 for tin metal contained in concentrates, this represents a recovered value of approx. £4:15:0 per ton of ore.

Mason and Morton (1965 Rep. No. 3, Blue Tier) estimate comparative costs for open cut and underground mining operations.

Open cut: Total mining and treatment per ton approx. £7: 7: 0

Underground: Total mining and treatment per ton £5:12: 0

Manifestly, on the above basis, both methods of extraction prove uneconomical.

4. DISCUSSION.

At this juncture, the extraction of the Anchor orebodies does not appear to be economically feasible. The present programme was designed to locate at least 2,000,000 tons of 0.9 to 1.0% ore beneath an area of approx. 1,351,000 sq. ft. The actual area covered by the planned programme is approx. 1,000,000 sq. ft.

	Sq. ft.	Tons	Grade
Designed target	1,351,000	2,000,000	0.9 to 1.0%
Present position	258,509	337,577 or (388,217	0.662% 0.572% diluted)
Projected position at completion of programme	1,000,000	1,350,308 (approx.) or (1,552,868 (approx.)	0.662% 0.572% diluted)

It thus appears that the present programme will not achieve its objectives, particularly with respect to the tenor of the high grade ore. It has already been pointed out that both the tenor and frequency of the orebodies has been decreasing away from the focal area of the open cut face, and unless there is a radical change of circumstances there seems little scope for improvement of the ore reserve statistics.

5. CONCLUSIONS.

Preliminary assessment of the results of the Blue Tier 3rd Diamond Drilling Programme indicate that, barring radical and unexpected improvements, the current exploration will show that the orebodies to the east of the Anchor Mine are not economically amenable to large scale extraction at the present time.

6. RECOMMENDATIONS.

Although the above conclusion points to an unfavourable outcome to the present programme, it must be borne in mind that with the present world tin situation the economics of working low grade/large scale deposits may improve considerably over the next decade, and it is also feasible that other similar orebodies exist in the immediate vicinity. It is therefore recommended that the original grid be slightly reorientated:-

A. To allow pursuit of the mineralisation to the N.E. (This will help define the orebody for any possible future reference, and also test the remote possibility that the ore grade may improve in this direction.)

B. To search for similar orebodies by means of several scout holes around the perimeter of the old open cut workings.

Many of the holes on the original grid are now manifestly unworthy of drilling, and elimination of these would roughly compensate for the footage required by the above proposals.

R. G. TAYLOR,

23/1/1966.

POSTSCRIPT.

Since commencing this report, Holes Nos. 23-28 have been completed for a total programme footage of approx. 4,100 ft. Results confirm the general trends indicated above, and as a result of recent discussions with Messrs. A. A. C. Mason and J. Morton the following reorientated programme is recommended (dating from 1st February, 1966).

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APPENDIX I

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

TONNAGE CALCULATIONS

Class	Zone-Block	Width	Area	Cu. Feet	Tons	Grade % Sn	T X G
A	1 - 1	5'	8,352	41,760	3,480	.78	2,714.40
A	1 - 2	5'	8,528	42,640	3,553	1.17	4,175.01
Totals		5'	16,880	84,400	7,033	.98	6,871.41
B	1 - 3	3.5'	5,000	19,600	1,633	.28	457.24
B	1 - 4	5'	5,136	25,680	2,140	.15	321.00
Totals		4.2'	10,736	45,280	3,773	.23	778.24
TOTAL	1-2 to 1-4	4.7'	27,616	129,680	10,806	.71	7,749.65
A	2 - 1	30'	22,768	683,040	56,920	.439	24,987.880
A	2 - 2	30'	26,880	806,400	67,200	.401	26,947.200
A	2 - 3	55'	18,480	1,016,400	84,700	.632	53,530.400
A	2 - 4	20'	5,360	107,200	8,933	.590	5,270.470
A	2 - 5	15'	11,872	178,080	14,840	.500	7,420.000
A	2 - 6	10'	13,520	135,200	11,266	2.130	23,996.580
Totals		29.6'	98,880	2,926,320	239,859	.59	142,153.000
B	2 - 7	10'	6,496	64,960	5,413	.22	1,190.86
B	2 - 8	20'	20,336	406,720	33,893	.29	9,828.97
B	2 - 9	15'	13,232	198,480	16,540	.12	1,984.80
B	2 -10	5'	16,832	84,160	7,013	.20	1,402.60
B	2 -11	15'	22,608	339,120	28,260	.357	10,088.82
B	2 -12	20'	20,800	416,000	34,666	.15	5,199.90
B	2 -13	25'	23,920	598,000	49,833	.294	14,650.90
B	2 -14	10'	15,200	152,000	12,666	.18	2,279.88
B	2 -15	15'	4,736	71,040	5,920	.22	1,302.40
B	2 -16	35'	10,752	376,320	31,377	.167	5,239.96
Totals		17.5'	154,912	2,706,800	225,581	.24	53,170.
TOTAL	2-1 to 2-16	22.5'	253,792	5,733,120	465,440	.42	195,323
B	2A- 1	5'	6,672	33,360	2,780	.10	278.0
B	2A- 2	5'	6,272	31,360	2,613	.20	522.6
Totals		5'	12,944	67,720	5,393	.15	801.0
A	3 - 1	5'	16,288	81,440	6,786	.40	2,714.40
A	3 - 2	12'	5,440	65,280	5,440	.476	2,589.44
A	3 - 3	20'	10,464	209,280	17,440	.54	9,417.60
A	3 - 4	15'	7,552	113,280	9,440	.51	4,814.40
A	3 - 5	25'	14,032	350,800	29,233	1.19	34,787.27
Totals		13.4'	53,776	720,080	68,339	.79	54,323.00
B	3 - 6	5'	5,600	28,000	2,333	.19	443.27
B	3 - 7	10'	7,200	72,000	6,000	.15	900.00
B	3 - 8	50'	11,200	560,000	46,666	.24	11,199.84
B	3 - 9	30'	24,240	727,200	60,600	.171	10,362.60
B	3 -10	25'	14,720	368,000	30,666	.342	10,487.77
B	3 -11	15'	17,920	268,800	22,400	.226	5,062.40
B	3 -12	35'	17,760	621,600	51,800	.237	12,276.60
B	3 -13	30'	4,960	148,800	12,400	.248	3,075.60
Totals		26.9'	103,600	2,794,200	232,865	.23	53,808
TOTAL	3-1 to 3-13	22.3'	157,376	3,514,280	301,204	.36	108,131

Class	Zone-Block	Width	Area	Cu. Feet	Tons	Grade % Sn	T X G
A	4 - 1	15'	10,080	151,200	12,600	1.21	15,246.0
A	4 - 2	17'	6,880	116,960	9,746	.54	5,262.84
Totals		15.9'	16,960	268,160	22,346	.96	20,508.84
B	4 - 3	12'	7,888	94,656	7,888	.237	1,869.46
B	4 - 4	18'	5,168	93,024	7,752	.160	1,235.52
B	4 - 5	10'	11,040	110,400	9,200	.140	1,288.00
B	4 - 6	5'	8,064	40,320	3,360	.22	739.20
B	4 - 7	10'	11,600	116,000	9,666	.255	2,464.83
B	4 - 8	15'	13,920	208,000	17,333	.273	4,731.91
B	4 - 9	5'	7,888	39,440	3,286	.150	493.400
B	4 -10	5'	6,400	32,000	2,666	.25	666.500
B	4 -11	10'	6,400	64,000	5,333	.37	1,973.210
Totals		10.2'	78,348	797,930	66,484	.23	15,462.025
TOTAL	4-1 to 4-11	11.2'	95,308	1,066,090	88,830	.40	35,971.0
TOTALS:							
GROUP A		21.4'	186,496	3,998,960	337,577	.662	223,855
GROUP B		17.8'	360,540	6,408,930	534,096	.232	123,929
GRAND TOTAL		19.0'	547,036	10,407,890	871,673	.410	357,784
Overburden (for limits of Ore Zone 3, which embraces all other zones)		80'	253,792	20,303,360	1,691,947		
Total Ore Zone (Ore Zone 3 limits as above)		90'	253,792	22,841,280	1,903,440		
Total Surface Area under consideration		Approx.	258,509				

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APPENDIX II

DIAMOND DRILL CORE RECORD · SUMMARY.

Hole Number 12. Date Commenced 13·9·65 Completed 20·9·65. Collar R.L. 1100·00.
Area of Operation Blue Jier. Geological Logging by R.G. Taylor. Bearing of Hole -
Location Anchor Open Cut. Core Recovery 63·6%. Ore Zone 100%. Angle of Hole -90°
Co-ordinates of Collar 5400N 25000E. Drilled by Associated Diamond Drillers. Final Depth 206'. Core Size AXT

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION					SAMPLE DATA		ASSA
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type	SnO_2	Cry	Bo.	Mineralisation.	From	To.	
0	75'0"					Core Recovered	no core.					75	80	Nil
5·0	76'6"		1'6"			1'6'	1. Coarse granite.					80	85	Nil
6'6"	78'3'		1'9"			1'9'	5 Pegmatite					85	90	1·02
8'3"	79'4"		1'1"			1'1'	3 Fine grained granite/greissen					90	95	0·63
79'4"	79'8"		4"			4"	5 Pegmatite.		p			95	100	0·67
79'8"	86'2'		6'6'			6'6'	3 Fg.g/greissen.					100	105	0·53
86'2"	91'9"		5'7"			5'7'	4 Greissen	vc	p	p		105	110	1·58
91'9"	93'4'		1'7"			1'7'	3 Fgg/greissen (trout like).	vc	c	c		110	115.	1·30
93'4'	100'3'		6'11"			6'11"	4 Greissen	p-vr	c-p	c-p	rare molybdenite	115	120	0·12
											· fluorite.	120	125	0·25
20'3"	194'9"		94'6"			94'6"	3 Fg.g/greissen. - pink-white					125	130	0·16
							" 101'3"-115'8" - grey white.	p-c				130	135	0·3
							" 115'8"-122'10" - darker	vr-p				135	140	0·3
							" 122'10"-135'6" - Lighter	p-vr				140	145	Tr
							" 135'6"-146'0" - altered diffuse greised yellowish.	vr-c	c-vr		trace molybdenite	145	150.	0·2

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Hole No. 12

FOOTAGE: From 150'0" To 206'0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION		SAMPLE DATA		ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type	Mineralisation	From	To	
							3 Fgg/greissen continued, Sno, Cpy Bo.		150	155	0·55
							" 146·0"-194'9" - becoming	r·vr r·vr	Trace molybdenite 155	160	0·19
							whiter		160	165	0·20
									165	170	0·48
									170	175	Tr
									175	180	0·33
									180	185	0·18
									185	190	Tr.
									190	195	Tr.
194'9"	206'0"		11'·3"				3/2. Fgg/greissen-Fine grained trace		195	200	Tr.
							granite. White, slightly		200	206	Tr.
							coarser than above.		205		
							Standing water level 65' down.				

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DIAMOND DRILL CORE RECORD.

Detailed Log.

Hole No 12. Blue Tier, Anchor, Open Cut.
Co-ordinates. 5400N. 25,000E.
Commenced 13·9·65 Completed 20·9·65.
Recovery. 63% Ore Zone 100%
Collar R.L. 1100·00' Angle -90°
Final Depth 206' Core Size. AXT.

Drilled by: Associated Diamond Drillers.
Logged by. R.G. Taylor.

0-75' No core. Overburden.

75'-76'-6" 1. Coarse Granite
75·75·2" Rotten white yellow.
75-76'-6" Pinking in depth.

77'1"-78'3" 5 Pegmatite zone: Junction with the above is diffuse and subhorizontal. Biotite coarse and strongly developed in lower 3" pink felspar dominant in the upper 3". Lower junction diffuse.

78'3"-79'4" 3. Fine grained granite/greissen
Near to 2 Fine grained granite. Top junction 20° to core axis, marked by a strong development of fine grained biotite. Pink/white, no mineralisation.
78·9"-79'4" Slightly darker. Pinking in depth

79'4"-79'8". 5. Pegmatitic zone
Quartzose at the base, with some cpy.

79'8"-86'2" 3 Fine grained granite/greissen.
Fine grained at start, grain size increases towards 81'9", also slight felspar pinking. No mineralisation.
81'9"-86'2". Pink white, becoming whiter near 86'.

86'-2"-891'9" 4. Greissen - Green-grey.
86'-2"-87'-2" Cpy & Bo present. SnO_2 present, common at 87'.
87'2"-89'0". Lighter colour. SnO_2 common, very rich in patches. Cpy rare.
89-91'9" SnO_2 common especially around 89'. Cpy rare. Molybdenite v. rare

91'9"-93'-4" 3. Fine grained granite/greissen.
Unusual rock type. Pink white, slightly coarser than usual, with dark biotitic spots. Trout-like. Upper junction diffuse sub horizontal. SnO_2 v. rich in upper area, seems to replace biotite. Lower area shows more cpy & Bo. Lower junction graditional

93·4"-100'3" 4 Greissen. Grey-green.
93·4"-95·0" Cpy and Bo present throughout, common near top. SnO_2 v rare to absent.
95-97'4" Cpy & Bo present. SnO_2 rare at 95'-6". More common towards 97'4". Rare fluorite on joints. V. rare molybdenite

9 97'4"-100'3" Lighter coloured towards 98'. Cpy rare to absent. Rare fluorite. SnO_2 present, especially near 98'

100·3'-101'3" 3 Fine grained granite/greissen.
Light pink white. No mineralisation.

107'3" - 103' 3 Fine grained granite / greissen,
- 194'9" Grey-White. Grades sharply with the above
SnO_2 present. No cpy.
103'-105'10" SnO_2 common over first and last 6"
105'10"-106'10" " present to rare
106'10"-108'1" " " " " more near 108'
108'1"-110'11" " common in parts.
110'11"-112'0" SnO_2 " " "
112'0"-113'0" " present to common, dies away over last 3'
113'0"-115'8" " " for first 3', very rare in rest.
- Rock grades into darker fg.g / greissen.
115'8"-118'6" SnO_2 rare to very rare
118'6"-120'9" " very rare to absent. Cpy v. rare. Broken.
120'9"-122'10" " " " , rare over last 4". "
- 122'10"-125'4" Grades into lighter coloured rock, core
is very broken in parts.
125'4"-128'1½" SnO_2 rare, v rare over final 4".
128'-1½"-131'0" SnO_2 v. rare, some over final 6".
131'0"-134'0" SnO_2 v rare to rare. Core broken.
134'0"-135'6" SnO_2 present to very rare. " "
- 135'6"-138'3" Rock slightly more altered, diffuse grains and
a yellowish tinge. SnO_2 v rare, rare over last 6"
138'3"-140'5" SnO_2 common to present over first 1',
then rare to absent. Cpy. v. rare
140'5"-143'0" SnO_2 v. rare to absent. Cpy common in
parts
143'-146'0" Core very broken, mineralisation very
rare. Trace cpy. Trace molybdenite
- 146'0"-148'7" Rock becoming whiter. Trace molybdenite
SnO_2 v rare over last 1'.
148'7"-151'6" SnO_2 v rare ∝ in v. small grains.
151'6"-154'8" SnO_2 rare to v. rare. Trace molybdenite
and cpy.
154'8"-157'7" SnO_2 rare to v. rare over 1st 1'. Cpy v. rare
Trace molybdenite.
157'7"-160'5" SnO_2 v rare to absent. V. rare cpy.
160'5"-163'3" " " " Rare cpy.
163'3"-166'0" " " " "
166'0"-168'8½" " " to rare.
168'8½"-171'7½" " " to present.
171'7½"-174'5½" " trace to absent
174'5½"-177'2" " " " v. rare. Cpy trace.
177'2"-179'11" " v rare to rare. Cpy rare.
179'11"-183'0" " " . Cpy v. rare.
183'0"-185'5½" " " - absent.
185'5½"-188'2" No mineralisation.
188'2"-191'1" V. rare " ie. Trace cpy
191'1'-194'9" No mineralisation.
1'9"-206'0" 194'9"-196'11" 3 Fine grained granite/greissen to
2 Fine grained granite. White, slightly
coarser than above, felspars less altered.
194'9"-202'5" No mineralisation.
202'5"-206'0" Trace SnO_2.

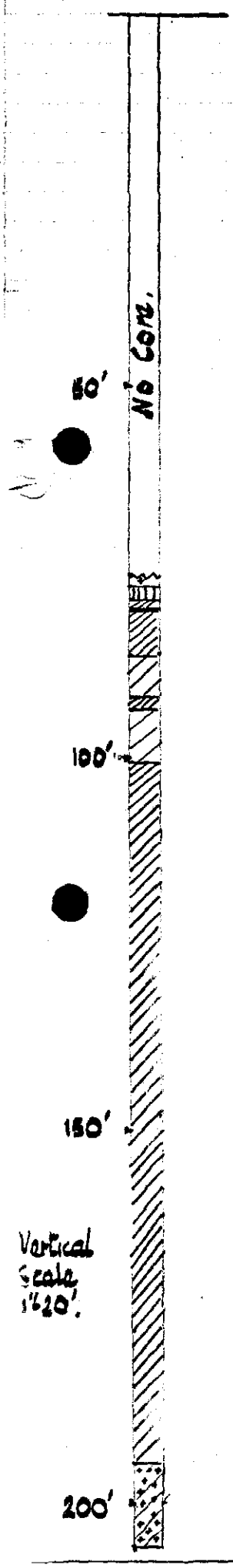
226016

015

Blue Tier, Anchor Area.

Diamond Drill Hole. No 12.

1100'00.



Visual Content	SnO_2	Assay % Sn.
Cpy. Bo. Fl. Mo		
		Nil
		Nil
		1·02
		0·65
		0·67
		0·53
		1·58
		1·30
		0·12
		0·25
		0·16
		0·35
		0·36
		Tr
		0·29
		0·55
		0·19
		0·20
		0·48
		Tr
		0·33
		0·18
		Tr
		Tr
		Tr
		Tr

Key + 1/Coarse Granite, 111 s/Pegmatite, // s.Fine grained granite/greissen, / Greissen.

226017 016

DIAMOND DRILL CORE RECORD · SUMMARY LOG. 1111·00'

Hole Number No 13 (B) | Date Commenced 21·9·65 Completed 24·9·65 | Collar R.L. ~~1100·00'~~
Area of Operation Blue Tier | Geological Logging by R.G Taylor | Bearing of Hole -
Location Anchor Open Cut | Core Recovery 64·2% (Below 70'-97·0%) | Angle of Hole Vertical
Co-ordinates of Collar S400N 25100E | Drilled by A.D.D. | Final Depth 204' Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type.	Mineralisation. Brn, Gy Bo.		SAMPLE DATA	Cu%	ASSAY Sn%
0'·0"	70'·0"					Core Recovered	No core			70 - 75	Tr	Nil
70'·0"	75'·0"		5'·0"			2'·10"	1. Coarse grained granite			75 - 80	Tr	Nil
75'·0"	76'·0"		1'·0"		Lower junction 45%	1'·0"	6. Aplitic Dyke			80 - 85	Tr	Tr.
76'·0"	80'·8"		4'·8"			4'·8"	1. Coarse grained granite			85 - 90	Tr	0·78
80·8"	86'·8"		6'·0"			6'·0"	5/6 Pegmatitic material - 3 F.g.g. greissen.	r-tr p-tr	Tr pyrite	90 - 95	0·13	Nil
										95 - 100	Tr	0·62
86'·8"	92'·10"		6'·2"			6'·2"	3 F.g.g/greissen (trout like - see 12)	vc-tr r-tr		100 - 105	0·21	0·18
92'·10"	109'·0"		16'·2"			16'·2"	4. Greissen	vc-tr p-tr r-tr	Tr. Mo & Fl., Alsa?,	105 - 110	0·10	0·27
109'·0"	111'·5"		2'·5"			2'·5"	3 F.g.g./greissen			110 - 115	Tr	Tr
111'·5"	116'·0"		4'·7"			4'·7"	4 Greissen	p-vr c-r r-vr		115 - 120	Tr	0·12
116'·0"	139'·7"		23'·7"			23'·7"	3 F.g.g/greissen	p-vr tr	Tr Mo	120 - 125	Tr	0·12
										125 - 130	Tr	0·26
										130 - 135	Tr	0·20
										135 - 140	Tr	0·12
139'·7"	144'·0"		4'·5"			4'·5"	4. Greissen.	vr-tr r	Tr Mo.	140 - 145.	Tr	0·21

226018 017

Hole No. 13 (B) FOOTAGE: From 145 To 204'

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type, Mineralisation	SAMPLE DATA	% Cu	ASSAY % Sn
144'-0"	204'-0"		60'-0"			Core Recovered 58'-2",	Sil, Cpy Bo	145 - 150	Tr	Tr
							3/Fine grained granite/ vn-t Tr Tr Mo greissen.	150 - 155	Tr	Tr
								155 - 160	Tr	Tr
								160 - 165	Tr	Nil
								165 - 170	Tr	Nil
								170 - 175	Tr	Tr
								175 - 180	Tr	Tr
								180 - 185	Tr	Tr
								185 - 190	Tr	0.25
								190 - 195	Tr	0.43
								195 - 200	Tr	0.14
								200 - 204,	Tr,	Tr
							Standing water level - 200' down.			

018

226019

DIAMOND DRILL CORE RECORD.

Detailed Log.

Hole No 13(B) Blue Tier, Anchor, Open Cut. No. 13
Co-ordinates 5400 N. 25,100 E.
Commenced 21·9·65. Completed 24·9·65.
Recovery 64·2%. Below 70'-97·0%.
Collar RL. ~~1100·00~~' Angle -90° RL. 1111.00'
Final Depth 204'. Core Size AXT.

0'. - 70'·0" No core.

70·0'-75'·0" 1. Coarse grained granite.
Lost 2'-2" of core. White, slightly kaolinised. yellow clay on joints.

75'·0"-76'·0" 6. Aplitic dyke
Top junction not seen. Lower 45° to core. Sharp.

76·0" 1. Coarse grained granite
76'-0"-77'·10" Pink
77'·10"-79'·9" Pinker
79'·9"-80'·8" Dark altered coarse grained granite. Top junction iron stained 25° to core. Lower diffuse grades into pegmatitic material. Felspars altered to dark green mineral-chlorite?.

80'·8"-86'·8" 6-5 Pegmatitic material. -3 Fg.g./greissen.
" White massive felspars + grey quartz and disseminated pyrite
80'·3"-80'·11"
80'·11". Grades into similar material with the addition of green siliceous mineral above - produces a mottled green white rock. Py present.
81'·11" Grades into finer green mottled rock, becoming darker towards 83'·3". Cpy present
83'·3"-85'. Grades back to lighter green, felspar qtz-chlorite? rock
85'-86'·8" Green colour becomes lighter. Rock is similar to 3/ Fg.g /greissen. SnO_2 rare in patches

86'·8"- 3 F.g.g. /greissen
-92'·10" 86'·8"-88'·0". Unusual 'trout rock' of Hole 12 (91'·9") Light colour. SnO_2 v. common in parts.
88'·0"-88'·9". Fg.g/greissen. SnO_2 rare - present, Cpy rare-present
88'·9"-91'·10" Trout rock. SnO_2 absent.
91'·10". Darker almost greissen. Much dark green mineral-chlorite? Cpy common. SnO_2 v rare to absent.

92'·10"-109'·0" 4 Greissen
SnO_2 Cpy Bo vr-common. Disseminated throughout. Also unidentified dark grey metallic sulphide, high lustre on cleavage surfaces - chalcocite?.
95'·5"-98'·3" SnO_2 common to 96'·11". Bo v. common from 96'·11". Cpy v rare. Trace Mo at 98'. Flourite seen over first 1' in subhorizontal veinlets
98'·3"-101'·0". SnO_2 throughout, becoming rare-v. rare towards 101'. No cpy. Bo as SnO_2. Mo present in parts.
101'·0"-103'·9" SnO_2 present to v. rare. Bo present at 101'. Trace cpy at 102".
103'·9"-106'·5". V. Little mineralisation. Trace SnO_2. & Bo.
106'·5"-108'·11". " " Trace SnO_2. Bo rare. Mo rare.
108'·11"-109'·0" Grades sharply into Fg.g / gr.

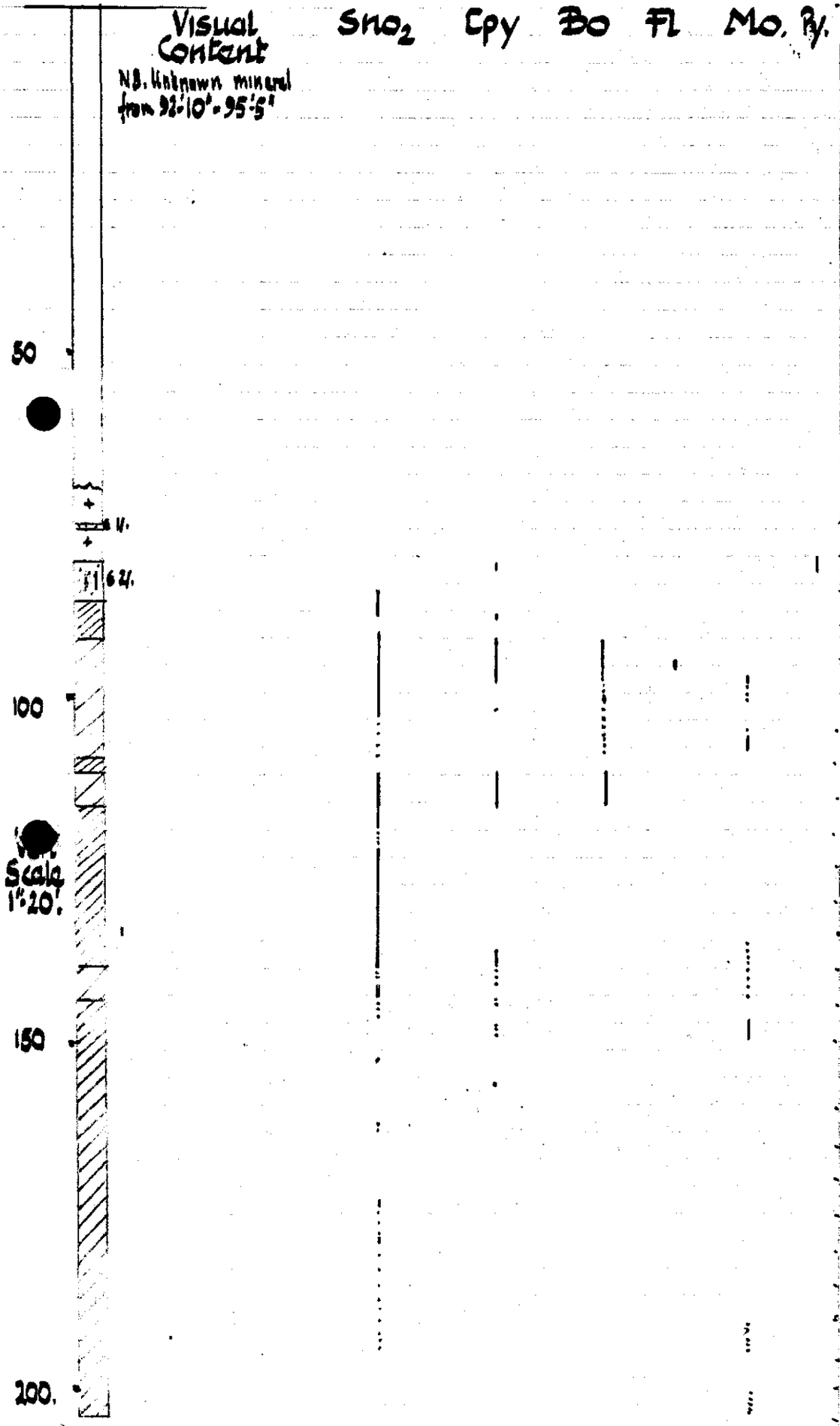
109'-0"-111'-5" 3 F.gg./greissen
Light grey yellow. Barren.
111'-5"-116'-0" 4 Greissen
SnO_2 present - v.rare. Cpy common-rare. Bo rare-v. rare.
116'-0"-139'-7" 3 Barren F.g.g/greissen
116-119-8". Odd 8" of almost greissen. From 118-119' cpy rare. SnO_2 v. rare. The normal F.g.g/greissen carries only trace SnO_2
119'-8"-122'-2" Barren. Tr SnO_2
122'-2"-125'-0" Trace SnO_2 - rare over last 6". Broken
125'-0"-127'-10" SnO_2 present to v. rare.
127'-10"-130'-10" SnO_2 rare
130'-10"-134'-0" SnO_2 present in parts.
134'-0"-136'-9" " v. rare in parts.
136'-9"-139'-7" SnO_2 v. rare over first 1'. Cpy v. rare over last 2'. Slightly darker over last 2". Trace Mo.
139'-7"-144'-0" 4 Greissen
139'-7"-142'-5" Trace SnO_2. Cpy rare. Trace Mo.
142'-5"-144'-0" SnO_2 v. rare. Tr Mo.
144'-204'-0" 3 F.g.g./greissen
144'-0"-145'-0" SnO_2 v. rare. Tr cpy.
145'-0"-147'-10" Tr SnO_2 over first 6" then Barren
147'-10"-150'-8" Barren. Vrare-Tr Mo. Tr cpy over last 2".
150'-8"-152'-1" "
152'-1"-153'-10" Becoming white. Tr SnO_2 at 153'-10"
153'-10"-156'-8" White. Barren.
156'-8"-159'-6" " , 156'-156'-6" Darker Tr cpy.
169'-6"-162'-6" "
162'-6"-165'-5" Tr SnO_2 at 162'-11"
165'-5"-171'-3" Barren
171'-3"-174'-3" " SnO_2 v. rare at 174'
174'-3"-179'-10" " Tr SnO_2 in parts.
179'-10"-185'-0" " Minute traces of SnO_2
185'-0"-193'-2" " Traces of SnO_2. 1'-10" core lost from 193'-2"-195'.
191'-8"-195'-5" SnO_2 trace, rare in parts. Tr Mo.
195'-5"-201'-0" Barren.
201'-0"-204'-0" Tr Mo. Becoming whiter & coarser.

226021

020

Blue Tier. Anchor Area.
Diamond Drill Hole No 13.

1100'-0'.



Key + 1 Coarse Granite = 3 Fine grained granite greisen = 4 greisen. ÷ 6. 1. Aplite & 2. Pegmatite to Fg.g greisen-qtz felds.

226022 11-3.

DIAMOND DRILL CORE RECORD

1127.00' 021

Hole Number 14 (M) | Date Commenced 29·9·65 Completed 13·10·65 | Collar R.L. [redacted]
Area of Operation Blue Tier | Geological Logging by R.G Taylor | Bearing of Hole -
Location Anchor Open Cut | Core Recovery 60·9% (Below 64' 86·3%) | Angle of Hole Vertical
Co-ordinates of Collar 5600 N. 25100 E | Drilled by A.D.D. | Final Depth 218' Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION			SAMPLE DATA	ASSAY	
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type.	Mineralisation.			Sn. %	Cu.
0'·0"	64'·0"					Core Recovered	No core	Sno, Cpy Bo.				
64'·0"	?		7"	(64-65' Only 9" core)		7"	6 Coarse Qtz-Felspar rock			65'·0" - 71'·0" (11" core)	Nil	Tr
?	?		1'·1"	(65-71' Only 11" core)		1'·1"	6 Fine grained aplite					
71'·0"	82'·6"		11'·6"	(71-81'6" Only 3'·10" core)		4'·10"	6. Coarse Qtz-Felspar rock			71'·0" - 81'·6" (3·10" core)	Tr	Tr
82'·6"	84'·0"		1'·6"			1'·6"	6 Fine grained Qtz-Felspar		Py. rare	81'·6" - 85'·0" (3'·6" core)	0·28	0·11
84'·0"	98'·1"		14'·1"			14'·1"	4. Greissen	Tr-p vr-c p-Tr	Py, r, Mo Tr	85'·0" - 90'·0"	Tr	0·25
98'·1"	100'·2"		2'·1"			2'·1"	3 Fgg / greissen.			90'·0" - 95'·0"	Nil	Tr
										95'·0" - 100'·0"	0·20	Tr
100'·2"	101'·0"		10"			10"	4. Greissen.	p-c		100'·0" - 105'·0"	0·94.	Tr
101'·0"	103'·9"		2'·9"			2'·9"	3 Fgg / greissen	p-vr.				
103'·9"	103'·10"		1"			1"	4. Greissen	p-c r				
103'·10"	105'·0"		1'·2"			1'·2"	3 Fgg. / greissen	r Tr	Mo v.r.			
105'·0"	108'·0"		3'·0"			3'·0"	4. Greissen.	Tr vr	Mo v.r.	105'·0" - 110'·0"	0·15	Tr
108'·0"	108'·10"		10"			10"	3. Fgg / greissen	r-c vr	Mo v.r			
108'·10"	117'·9"		8'·11"			8'·11"	4 Greissen.	Tr r-p Tr	Tr Mo.	110'·0" - 115'·0"	Tr	Tr

Hole No. 14 (M) FOOTAGE: From 115'-0" To 200'-0"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	Recovery	DESCRIPTION Rock Type	Mineralisation SnO2	Cpy	Mo	Mineralisation	SAMPLE DATA	ASSAY Sn %	Cu
117'-9"	118'-0"		3"			3"	3. Fgg./greissen.	p-vc				115'-0"-120'-0"	0.87	Tr
118'-0"	118'-3"		3"			3"	4. Greissen	p-vc			Tr Mo			
118'-3"	218'-0"		99'-9"			91'-7"	3 Fg.g./greissen	p-Tr	vr-Tr		Tr Mo, Fl-vc-Tr,	120'-0"-125'-0"	0.25	Tr
												125'-0"-130'-0"	Tr	Tr
												130'-0"-135'-0"	0.24	Tr
												135'-0"-140'-0"	0.16	Tr
												140'-0"-145'-0"	0.28	Tr
												145'-0"-150'-0"	Tr	Tr
												150'-0"-155'-0"	Tr	T
												155'-0"-160'-0"	Tr	T
												160'-0"-165'-0"	Tr	T
												165'-0"-170'-0"	Tr	T
												170'-0"-175'-0"	Nil	T
							175'-6"-186'-6". Lost 2'-8"					175'-0"-180'-0"	Tr	T
												180'-0"-185'-6" (3'9" core)	Tr	T
							186'-6"-195'-6" Lost 5'-0"					185'-6"-195'-0" (4'6" core).	Tr	T
												[illegible]		
												195'-0"-200'-0"	Tr	Tr

Hole No. 14 (M) FOOTAGE: From 200'-0" To 218'-0"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION	SAMPLE DATA	ASSAY Sn.	ASSAY % Cu
							3 F.g.g /greissen - continued.	200'-0" - 205'-0"	Tr.	Tr.
								205'-0" - 210'-0"	Tr.	Tr.
								210'-0" - 215'-0"	Tr.	Tr.
							210'-0" - 218'-0" Lost 6".	215'-0" - 218'-0" (2'-6" core)	Nil.	Tr.

Standing water level 49' down.

024.

226025

Blue Tier, Anchor Area.
Diamond Drill Hole. No 14.

1128'00'

Visual Content. SnO_2 Cpy Bo Fl Mo Py.

NB. Unknown black mineral 86'10"-92'4".

No core.

6.1.

No core.

6.2A.

No core.

6.1.

No core.

6.2.

100'

1 Greissen.

Vert Scale 1"=2

150'

Lost 2'-8"

Lost 5'.

200'

Lost 6"

218'.

Assay % Sn.	% Cu
Nil	Tr
Tr	Tr
028	0·11
Tr	0·25
Nil	Tr
0·20	Tr
0·94	Tr
0·15	Tr
Tr	Tr
0·87	Tr
0·25	Tr
Tr	Tr
0·24	Tr
0·16	Tr
0·28	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Nil	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Tr	Tr
Nil	Tr.

Key :- 6.1 Coarse Qtz-Felspar Rock. 2. Fine-Q-Frock, 3. Fine grained granite/greissen. 4 Greissen. 6.2A. Aplitic Rock.

025

DIAMOND DRILL CORE RECORD.

Detailed log.

Hole No 14. Blue Tier Anchor Open Cut.
Co-ordinates 5600N, 25100E.
Commenced 29-9-65 Completed 20-9 13-10-65.
Recovery 60.9%. Below 64' 86.3%.
Collar R.L. 1127.00. Angle -90° R.L. 1127.00
Final Depth 218' Core Size AXT.

Drilled by, Associated Diamond Drillers.
Logged by. R.G. Taylor.

0 - 64' (approx). No core.

64'
only 9" core.
65'
65'
only 11" core.

6. Coarse Quartz-Felspar rock
7" then junctions with
6. Fine grained aplite. White.
Upper junction marked by ½" zone of pink felspar
Approx 45° to core.
"

71'-0 - 82'-6". 6. Coarse Quartz-Felspar rock
1' Pink & the remainder white. Felspar often in vermicular blebs. altered sericitic in parts.
71'-81'-6" - only 3'-10" core.
81'-6" - 82'-6". Felspars white yellow.

82'-6" - 84'-0" 6. Fine grained Quartz-felspar rock
Junction irregular, 50-70° to core axis. Similar mineralogy to the above. Slightly greisenised in parts. Pink white. Pyrite rare.
83'-9". Slight felspar increase - pinking. Sharp junction with

84'-0" - 98'-1" 4. Greissen
84'-84'-6" Junction sharp, 0°-40°. At 83'-11" is pegmatitic area, Qtz, Felspar, Biotite. Not as coarse as usual. Junction with Qtz-felspar rock is quartzose. Broken below. Lower junction not visible. Greissen, dark, fine grained
84'-6"-86'-10" Normal grey greissen. Cpy present - common in parts. Bo present. Py. rare.
86'-10"-89'-6". Cpy. present to common. Bo present Tr Mo. Unknown black mineral rare over first foot.
89'-6"-92'-4" Less mineralised. Cpy. - present - rare Bo - rare. Tr SnO_2 at 92'-4". Unknown black mineral rare - present - associated with Cpy in parts.
92'-4"-95'-4" Mostly barren. Cpy - r - v. rare. Tr SnO_2. Tr Mo at 93
95'-4"-98'-1" SnO_2 trace - present, Cpy vr-r. Mo at 96-97'. At 98'-1" grades sharply but irregularly into

98'-1" - 100'-2" 3. Fine grained granite / greissen.
Barren. White-yellow.

100'-2" - 101'-0" 4 Greissen.
Junction irregular graded. SnO_2 common - present. V. common in parts

101'-0" - 103'-9" 3. Fine grained granite/ greissen.
101'-103'-10" Neater greissen. Junction irregular around 45° to core. SnO_2 p. over first 6". Then v.r-present.

103'-9" - 103'-10" 4. Greissen. Junctions, subhorizontal. SnO_2 p-common. Cpy rare.

103'-10" - 105'-0" 3 Fine grained granite greissen
Top junction not seen. SnO_2 v. common over first 6". Lower junction associated with broken ground. Yellow clay mineral common on joints. SnO_2 r. Cpy-Tr.

105'-0" - 108'-0" 4. Greissen
Near f.g.g./gr in parts. Tr SnO_2. Mo & Cpy vr.

108'-0" - 108'-10" 3. Fine grained granite greissen
White yellow. Upper junction gradational Cpy.-vr. Mo - vr. SnO_2 r - common. Common over last 2".

108'-10" - 117'-9". 4 Greissen
108'-10"-111'-8" Grey. SnO_2-Tr over first 6". Then barren. Cpy - present to rare to 111' then absent. Tr Mo around 109'-4"
111'-8" - 114'-9" Barren. Tr SnO_2 at 112'-8" & 114'-6".
Small patch of cpy. Bo at 114' for 6".
114'-9" - 117'-9" Barren

117'-9" - 118'-0" 3. Fine grained granite greissen - SnO_2 p-v rich
118'-0" - 118'-3" 4 Greissen. SnO_2 p-v common. Trace Mo at 118'.
118'-3" - 218'-0" 3 Fine grained granite greissen
118'-3" - 120'-4". SnO_2 vr-p. More at ends than in centre
120'-4" - 123'-2" SnO_2 r-Tr. 122'-123'-2" Tr Mo. 122' Cpy. Bo-p
123'-2" - 125'-10" Barren.
125'-10" - 128'-8" Barren. Tr Mo at 126'-4" - 127'-4".
128'-8" - 131'-6" " Tr SnO_2 near 130'.
131'-6" - 134'-0 SnO_2 Tr-p over first 1'-6". Last 1'-6" Tr-Mo.
134'-6" - 137'-4" Tr SnO_2. Tr Mo from 136'-0"
137'-4" - 139'-9" " " Tr Mo. Tr Fluorite over last 1'-6"
139'-9" - 142'-5" Tr SnO_2. Rare in parts. Tr Mo at 142'-3".
142'-5" - 145'-3" Tr SnO_2 " " "
145'-3" - 148'-0" " " " " " Cpy Tr. Fluorite very common interstitial from 147'-6".
148'-0" - 150'-10" Tr SnO_2. Fl v-common over first 6" p-rare elsewhere
150'-10" - 153'-10" Tr SnO_2 & cpy. Fl Tr-rare over last 6". Tr Mo
153'-10" - 156'-6" Tr Mo. Fl-p. SnO_2 Tr-absent.
156'-6" - 159'-5" Fl rare over last 6" first 6"
159'-5" - 162'-3" Tr SnO_2 at 160'-5". Tr Mo & Cpy. Darker around 161'. Tr Fl.
162'-3" - 165'-1" whiter Tr Mo.
165'-1" - 168'-1" Tr SnO_2 in first 6".
168'-1" - 171'-0" Tr Mo. Tr cpy at 169'-170'.
171'-0" - 174'-0" Tr Cpy at 169-170'. 172'-6"
174'-0" - 176'-11" Barren.
NB. From 175'-6" - 186'-6" Lost 2'-8" core. Lost in last few feet
176'-11" - 179'-6" Barren
179'-6" - 182'-6" Broken. Tr SnO_2, vr in parts. Tr Mo at 181'.
182'-6" - 186'-6" Tr Mo & Cpy. SnO_2-Tr-Vr. Lost 2'-8" Recovered 1'-4". (See above).

186'-6"-195'-6". Lost 5' of core. Broken. Tr Mo & Cpy. SnO_2 Tr-vr. Most core lost near 186'-6".
195'-6"-198'-6" Barren
198'-6"-201'-6" " Odd Tr of SnO_2
201'-6"-204'-6" " V.r. Cpy at 203'-6"
204'-6"-207'-2" Becomes darker towards 207'. Odd trace of SnO_2
207'-2"-209'-11" Whitens again at 208'. SnO_2 Tr in darker material. Tr-vr in lighter. Tr Mo & Py around 208'.
209'-11-212'-5" Barren
212'-5"-215'-6" " Tr cpy or py? Tr Mo at 214'-6"
215'-6"-217'-6" Barren. Tr Mo & Cpy. Lost final 6" core. Hole ends 218'.
N.B. 216-218'. Lost 6" of core.

226029 028

DIAMOND DRILL CORE RECORD

Hole Number 15 (L) | Date Commenced 13-10-65 Completed 3-11-65 | Collar R.L. 1096'-0"
Area of Operation Blue Tier | Geological Logging by R.G. Taylor | Bearing of Hole -
Location Anchor Open Cut | Core Recovery 85.8% Below 50'-98.0% | Angle of Hole -90°
Co-ordinates of Collar 5600N, 25,000E | Drilled by A.D.D. | Final Depth 400'-0" Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type.		Mineralisation. Sno, Cpy Bo	SAMPLE DATA	ASSAY % Sn.
0	50'-0"					Core Recovered.	No core				
50'-0"	50'-7"		7"			7'	1. Coarse granite + 6. White quartz vein			50'-0"-55'-0" (4'-9" core) NB. First 4'-3" is B.X.	Tr.
50'-7"	62'-0"		11'-5"			11'-2"	3. Fine grained granite/greissen - 6. Qtz-felspar rock.			55'-0" - 60'-0"	Tr
62'-0"	64'-0"		2'-0"			2'-0"	4. Greissen	c-vc	p-Tr	60'-0" - 65'-0"	0.11
64'-0"	66'-3"		2'-3"			2'-3"	3. F.g.g./greissen	Tr			
66'-3"	74'-6"		8'-3"			7'-6"	4 Greissen.	Tr-vc	p-vr Mo Tr. Some Py?	65'-0" - 70'-0" (4'-3" core)	0.29
74'-6"	116'-9"		42'-3"			41'-3"	3. Fine grained g./greissen	p-Tr	p-Tr Mo Tr-r. " " ?	70'-0" - 75'-0"	1.45
116'-9"	122'-3"		5'-6"		c.45°	5'-6"	4 Greissen.	p-Tr	fl-vr-Tr.	75'-0" - 80'-0"	0.46
										80'-0" - 85'-0"	0.21
										85'-0" - 90'-0" (4'-6" core)	0.11
										90'-0" - 95'-0"	Nil
										95'-0" - 100'-0"	Nil
										100'-0" - 105'-0"	Nil

No. 15 L

029

226030

Hole No. 15 (2)

FOOTAGE: From 105'-0" To 195'-0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION			SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type.	Mineralisation.			
					Horizontal	Core Recovered		SiO_2 Cy. Bo.		105'-0" - 110'-0"	Nil
										110'-0" - 115'-0" (4'-6" core).	Nil
116'-9"	122'-3"		5'-6"		∠45°	5'-6"	4. Greissen.	r-Tr	Fl, vr-Tr.	115'-0" - 120'-0"	Tr
122'-3"	198'-0"		75'-9"		∠30°	71'-8"	3. F.g.g. / greissen.	r-Tr Tr	Mo-tr.	120'-0" - 125'-0" (4'-0" core).	Tr
										125'-0" - 130'-0"	Tr
										130'-0" - 135'-0"	Tr
										135'-0" - 140'-0"	Tr
										140'-0" - 145'-0" (4'-2" core).	Tr
										145'-0" - 150'-0" (4'-1" core).	Tr
										150'-0" - 155'-0"	Tr
										155'-0" - 160'-0"	Tr
										160'-0" - 165'-0"	Tr
										165'-0" - 170'-0" (3'-8" core)	Nil
										170'-0" - 175'-0"	Tr
										175'-0" - 180'-0"	Tr
										180'-0" - 185'-0"	Tr
										185'-0" - 190'-0"	0.14
										190'-0" - 195'-0"	Tr

030

226031

Hole No. 15 (L)

FOOTAGE: From 195'-0" To 285'-0"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Recovery, Angle To Core Axis	DESCRIPTION Rock Type	Sno, Cry, Tr?	Mineralisation.	SAMPLE DATA	ASSAY
198'-0"	201'-3"		3'-3"			3'-3"	4. Greissen.			195'-0" - 200'-0"	Tr
201'-3"	294'-6"		93'-3"			92'-3"	3. Fine gr/gr/greissen.	·	· Mo r-trace	200-0" - 205'-0" (4'-0" core)	Tr
									FL r-trace	205'-0" - 210'-0"	Tr
										210'-0" - 215'-0"	Tr
										215'-0" - 220'-0"	Nil
										220'-0" - 225'-0"	Nil
										225'-0" - 230'-0"	Nil
										230'-0" - 235'-0"	Tr
										235'-0" - 240'-0"	Tr
										240'-0" - 245'-0"	Tr
										245'-0" - 250'-0"	Tr
										250'-0" - 255'-0"	Tr
										255'-0" - 260'-0"	Tr
										260'-0" - 265'-0"	Tr
										265'-0" - 270'-0"	Nil
										270'-0" - 275'-0"	Tr
										275'-0" - 280'-0"	Nil
										280'-0" - 285'-0"	Tr

226032 031

Hole No. 15 (L) FOOTAGE: From 285'0" To 375'0"

Ex. 67417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type	DESCRIPTION Mineralisation	SAMPLE DATA	ASSAY
									285'0"-290'0"	Nil
294'6"	295'6"		1'0"			1'0"	4 Gneissen,	Barren.	290'0"-295'0"	Nil
295'6"	400'0"		104'6"			104'6"	3 Fine gr, gr, /gneissen	"	295'0"-300'0"	Nil
									300'0"-305'0"	Nil
									305'0"-310'0"	Nil
									310'0"-315'0"	Nil
									315'0"-320'0"	Nil
									320'0"-325'0"	Nil
									325'0"-330'0"	Nil
									330'0"-335'0"	Nil
									335'0"-340'0"	Nil
									340'0"-345'0"	Nil
									345'0"-350'0"	Nil
									350'0"-355'0"	Nil
									355'0"-360'0"	Nil
									360'0"-365'0"	Nil
									365'0"-370'0"	Nil
									370'0"-375'0"	Tr

226033 032

Hole No. 15(L)

FOOTAGE: From 375'-0" To 400'-0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING Recovery	DESCRIPTION	SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis			
							3 Fine gr/gr./gneissen (cont').	375'-0" - 380'-0"	Nil.
								380'-0" - 385'-0"	Tr.
								385'-0" - 390'-0"	Nil.
								390'-0" - 395'-0"	Nil.
								395'-0" - 400'-0"	Nil.
							Standing water Level:- 139' below the collar.		

033

226034

DIAMOND DRILL CORE RECORD.

Detailed Log.

Hole No 15 (L). Blue Tier Anchor, Open Cut.
Co-ordinates. 5600 N, 25000 E
Commenced. 13-10-65. Completed 3-11-65.
Recovery 85·8%. Below 50'- 98·0%.
Collar R.L. 1096·0'. Angle -90°
Final Depth 400·0'. Core Size. BX & AXT.

0'- 50'·0" No core

50'·0"-50'·7" 1. Coarse granite + Qtz vein.
½-1" Rotten, iron-stained coarse granite
6" Badly broken-quartz-grey clean

50'·7'-62'·0' 3. Fine grained granite fg gneissen
50'·7"-54'·6". Quite coarse, white, barren. Variable-sometimes near coarse granite, sometimes near qtz-felspar rock. At 52'·9". is 3" fine grained darker area-near gneissen. Top junction not seen. Lower 45-50° to core axis.
* N.B 50'-54'·6" BX Core. 4-3". Lost 3".
54'·6"-60'·0". White-white grey-barren.
60'·0-62'·0" Darkens and merges into gneissen

62'·0'-64'·0" 62'-0"-64'·0" 4 Gneissen.
Grey. SnO_2 c-v.common to 63'. Dies away over last 5". Cpy p-tr in first 1'.

64'·0-66'·3 3 Fine grained granite gneissen.
Grey-near 4 gneissen. Junction not seen-sharp?. Coarser than 3 f.g.g. gneissen above. Barren. Tr SnO_2 in last 1'. Yellow clay mineral visible on all joints.

66'·3"-74'·6" 4 Gneissen.
Sharp graditional junction. SnO_2-p-c over first 6"-1' then absent (66'·3-69'·9") Cpy-py. p-vr throughout Tr Mo in final 2"
* NB. 64'-69'·9"-Lost 9"-from 69'-69'·9".
69'·9"-70'·1". Unusual patch of dark green mica + quartz, SnO_2 v.common, coarse, aggregates up to ½"
70'·4"-71'·1" Gneissen. SnO_2 p-Tr. Cpy v.r. Junction with above is diffuse
71'·1"-71'·7" Exceptionally rich SnO_2, 25-50% SnO_2. Cpy-p-r.
71'·7"-72'·3 SnO_2 p-r. Cpy increases c-p.
72'·3"-74'·6" SnO_2 c-r Cpy p-r. Grades into

74'·6"-116'·9". 3. Fine grained granite/gneissen.
SnO_2 common in first 6". Cpy p-c.
75'-77'·9". Grey-near gneissen, whiter over last 6". Sharp transition grey-white, sub horizontal SnO_2 p-vr. Cpy-py. p-vr. In lighter material SnO_2-r.
77'·9"-79'·6" White-grey. SnO_2 p-r. Cpy-py. p-r. Tr Mo at 78'.
79'·6"-82'·2" SnO_2 over final 6"-p. first 6"-p. Tr over Last 6" Cpy r-Tr.
82'·2"-85'·4" SnO_2 p-r. Tr Cpy. Tr Mo
85'·4"-about 88'·6" SnO_2 p-r in first 6" then absent. Cpy Tr-vr (Rare over last 6". Tr Mo.
+ N.B. 87'·3"-94'·9" Lost 6" (probably in first 6")
c 88'·6"-91'·4' Barren. Odd Tr Cpy
c 91'·4"-94'·2" " Mo rare over Last 6".

034

226035

94'-2" - 94'-9" Darker. Cpy rare.
94'-9" - 97'-0" First 1' darker, grading whiter. Barren
97'-0" - 99'-10" Last 1' becoming darker. Tr Mo over final 6".
99'-10" - 102'-8" Tr Mo. Tr Cpy over final 1'-6".
102'-8" - 105'-8" Mo rare over first 1'. Barren.
105'-8" - 108'-6" Barren - white grey
108'-6" - 111'-4" " . Trace Cpy at 109'-6". Tr Mo
114'-7" - 116'-9" Barren. Whiter & crisper at 116'-2"
* NB. 103'-11" - 113'-11". Lost 6"

116'-9" - 122'-3" 4. Greissen - Grey.
Junction very sharp and defined. 45° to core axis SnO_2 r-v. rare, to 117'-5"
117'-5" - 120'-2". Some remnant felspar. SnO_2 vr - in first 6"
Fluorite vr-Tr over first 1'.
120'-2" - 123'-3". Tr SnO_2 in last 3". Tr Fl in first 1'.

122'-3" - 198'-0" 3. Fine grained granite/greissen.
* NB. 113'-11" - 125'-3" Lost 1'. Junction sharp ∠30° to core axis
123'-125'-3' Lost the 1' above. Odd Tr SnO_2
125'-3" - 126'-10". Barren. Minute Tr SnO_2 & Cpy in last 3"
126'-10" - 129'-10" Tr SnO_2 & Mo. Tr Cpy in first 6"
129'-10 - 132'-8 SnO_2 vr-r. Tr cpy. Mo over last 6"
132'-8" - 135'-6" SnO_2 Tr-vr. Tr Cpy over first 6"
135'-6" - 138'-4" Grey white. SnO_2 r-vr in first 1'-6", then Tr
138'-4" - 141'-10" fl. SnO_2 in first 8". Tr Mo.
* N.B. 125'-3 - 141'-10". Lost 10"
141'-10 - 143'-8" Tr SnO_2. Tr Mo & Cpy in last 6".
143'-8" - 146'-4" (147'-3") Tr - vr SnO_2. Odd Tr Mo.
* NB 141'-10" - 147'-3" - Lost 11". Was Last 11".
147'-3" - 150'-1". Tr SnO_2
150'-1" - 153'-0 Odd Tr SnO_2
153'-0" - 155'-8" " "
155'-8" - 158'-6" " "
158'-6" - 161'-4" Tr SnO_2
161'-4" - 164'-2" " Tr Mo over last 2".
164'-2" - 166'-8" (168'-4") Tr SnO_2 & Mo
* 164 - 168'-4". Lost 1'-4". Probably the last 1'-4".
168'-4" - 170'-6". Tr over 1st 1'.
170'-6" - 172'-7" Tr SnO_2. Kaolinised & broken over last 1".
172'-7" - 175'-5" Odd Tr SnO_2 & Mo.
175'-5" - 178'-2" Tr SnO_2
178'-2" - 180'-11" Tr SnO_2. Odd Tr Mo.
180'-11" - 183'-8" Odd Tr SnO_2
183'-8" - 186'-8" " " " & Mo. Shade whiter
186'-8" - 189'-8" Tr SnO_2 - vr in parts.
189'-8 - 192'-4" " " " "
192'-4" - 195'-0 White Fgg / greissen. Broken. Tr SnO_2
195'-0 - 195'-4" Lost 3". Very broken. Not examined.
195'-4" - 198'-0" Almost Greissen over last 6". All very broken
No mineralisation seen. White grey. Kaolin seams prominent

198'-0" - 201'-3 4. Greissen
198'-0 - 201'-3" Grey. No visible mineralisation. Possibly Tr SnO_2. Whiter over last 3". Junction areas very broken.

201'-3" - 204'-6" 3 Fine grained granite / greissen.
201'-3 - 202'-6" Very broken. White
* 202'-6" - 204'-3" Only 9" core ∴ Lost 1'. White
204'-3" - 206'-6" White. Possible greissen in first 1', very broken
206'-6" - 219'-1" White. Barren.

035

226036

219'-1" - 225'-4" White. Odd Tr Mo
225'-4" - 228'-4" Whiter. Rare-v.r. Mo
228'-4" - 231'-2" White Tr Mo
231'-2" - 234'-0" " . Odd Tr Mo.
234'-0 - 236'-1" Very broken 235'-6"-235'-9". Barren White grey
236'-1" - 247'-8" Becoming whiter barren. Last 2' is white F.g.g/greissen. Junction not seen.
247'-8" - 256'-5" White grey. Barren.
256'-5" - 259'-4" Odd Tr Mo in first 6"
259'-4" - 262'-3" White, grey
262'-3" - 265'-0" Tr Fl' or wood stain?
265'-0" - 271'-0" White grey
271'-0" - 274'-0" After first 2"-becomes darker, near Greissen.
274'-0" - 276'-6" Becoming whiter in last 1'. All Barren.
276'-6" - 279'-3" White.
279'-3" - 282'-1" Rare interstitial Fl - mauve?
282'-1" - 283'-0" White. " " ?
283'-0" - 288'-0" Tr Mo at 287'.
288'-0" - 291'-0" Whiter
291'-0" - 294'-6" At 292' becomes grey white. Near greissen Barren.
294'-0 - 295'-8"
294'-6" - 295'-6" 4. Greissen. Grey
295'-6" - 400'-0" 3. Fine grained granite/greissen.
295'-6" - 299'-8" Grey. Near greissen. Barren
299'-8" - 302'-8" " merging into white near 301'.
302'-8" - 305'-6" White. Grey over last 6"
305'-6" - 308'-4" White grey. Whiter over last 6".
308'-4" - 314'-0" " " . Barren.
314'-0 - 314'-3" " " "
- 314'-3" - 322'-3" Abrupt change to white Fg.g/q. Near to fine grained granite. No dark mica - green-brown sericitic material. Junction not seen (comes at core block. Felspar white and only v. slightly altered.
- 322'-3" - 324'-3" Change to White fg.g./q. Biotite reappears. Junction sharp, diffuse in detail. Sub horizontal.
324'-3" - 331'-9" White. Barren. Fg.g./greissen
331'-9" - 361'-3" White. Barren.
361'-3" - 386'-3" " " . Often with yellow sericite talc on the joints. Core very broken 371'-381'-0.
386'-3" - 400'-0" White. Barren.

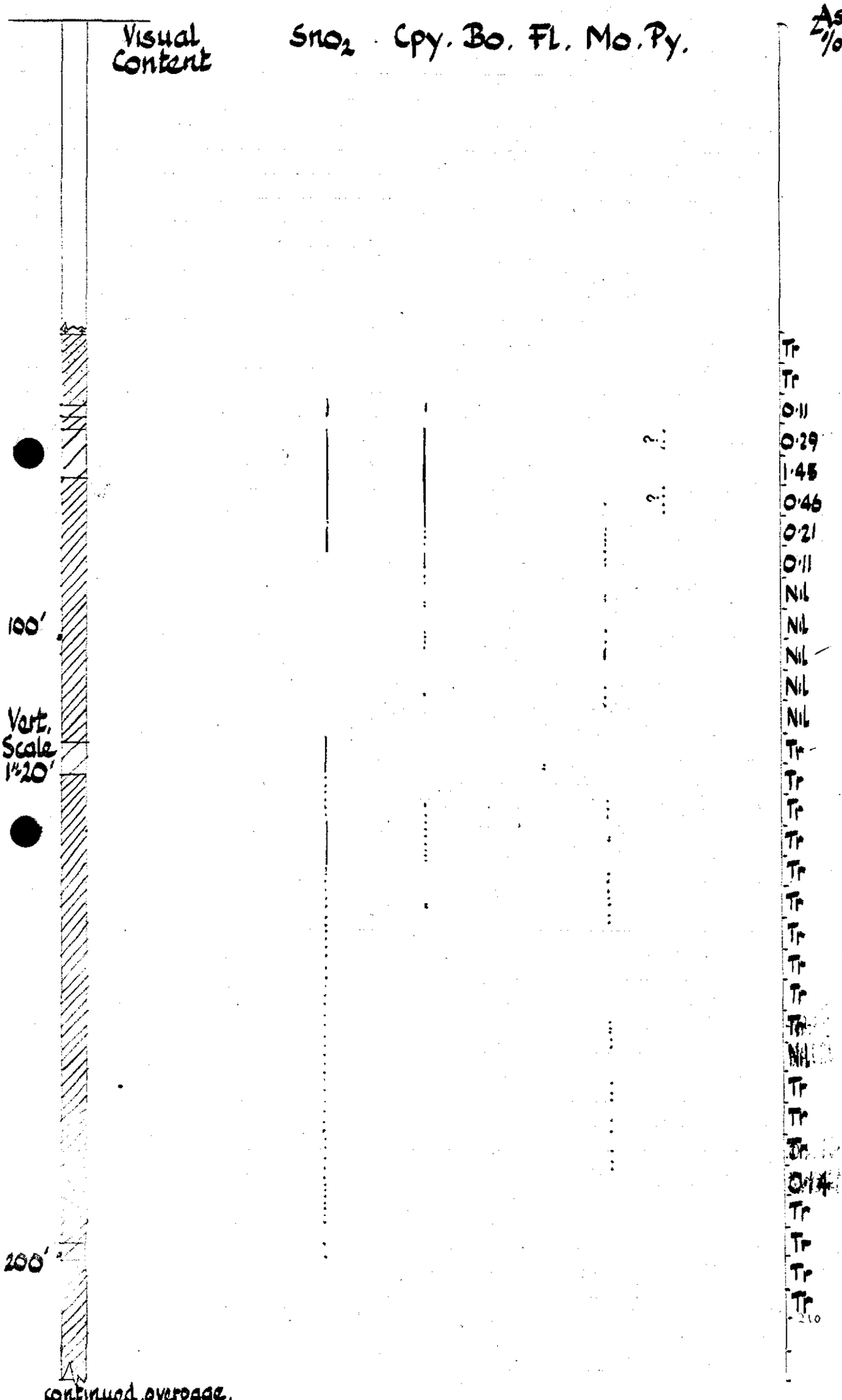
036

226037

Blue Tier, Anchor Area.

Diamond Drill Hole. No 15 (L). -0-210°.

1096·0'



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Continued.

Diamond Drill Hole No15(L)

210'-400'

SnO_2	Cpy	Bo.	Fl.	Mo	Py.	Assay % Sn.
						Tr
						Nil.
						Nil.
						Nil.
						Tr.
						Tr.
						Tr.
						Tr.
						Tr.
						Tr.
						Tr.
						Tr.
						Nil.
						Tr.
						Nil.
						Tr.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Nil.
						Tr.
						Nil.
						Tr.
						Nil.
						Nil.
						Nil.

Key. = 3. Fine grained granite/greissen. = 4. Greissen + 1. Coarse grained granite

= 3. Fine grained granite/greissen - 6. Quartz-felspar intermisture.
: greissenised patches.

226039 038

DIAMOND DRILL CORE RECORD

1131:00'

Hole Number 16 T. | Date Commenced 18·10·65 Completed 25·10·65. | Collar R.L. [redacted]
Area of Operation Blue Tier. | Geological Logging by R G Taylor. | Bearing of Hole .
Location Anchor, Open Cut. | Core Recovery 68·4% Below 60' 96·1% | Angle of Hole Vertical.
Co-ordinates of Collar 5800N 25100E. | Drilled by A.D.D. | Final Depth 205'·0 Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis / Recovery	DESCRIPTION Rock Type, Mineralisation SnO₂ Qty.	SAMPLE DATA	ASSAY
0	47'·6"								
47'·6"	60'·0"	12.	12'·6"			1'	1. Coarse granite		
60'·0"	60'·1"		1"			1"	6. Aplite		
60'·1"	67'·9'		7'·8"			6'·7"	1. Coarse granite		
67'·9'	67'·10"		1"		15°	1"	6 Aplitic - quartz felspar.		
67'·10"	68'·3"		5"			5"	5. Pegmatite	Not sampled.	
68'·3"	68·6"		3"		13·20°	3"	6 Aplitic - quartz felspar		
68'·6"	68'·7½"		1½"		"	1½"	1. Coarse granite		
68'·7½"	68'·8½"		1'		"	1"	6 Aplitic + qtz.		
68'·8½"	69'·1½		5'			5'	1. Coarse granite		
69'·1½"	69'·2"		½"		30°	½"	6. Aplite.		
69'·2"	72'·0"		1'·10"			1'·10"	1. Coarse granite		
(70'·7"	70'·11½)		4½"	½"	85°	4½"	6. Aplo-qtz. veinlet		
72'·0'	72'·7"		7"		15·20°	7"	6. Quartzose-aplite × aplite.		

226040 039

Hole No. 16 T. FOOTAGE: From 165'-0" To 205'-0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION	SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis			Sn%
							(cont) F.g.g. / greissen.	165'-0" - 170'-0"	Nil
								170'-0" - 175'-0"	Nil
								175'-0" - 180'-0"	Tr
								180'-0" - 185'-0"	Tr
								185'-0" - 190'-0"	Tr
								190'-0" - 195'-0"	Tr
								195'-0" - 200'-0"	Tr
								200'-0" - 205'-0"	Tr
							Standing water level, 50'-8" below collar R.L.		

226041 040

Hole No. 16 T. FOOTAGE: From 72'-7" To 160'-0"

Ex. 62417 (D)

L FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis (Horizontal)	Recovery / BEDDING Angle To Core Axis	DESCRIPTION Rock Type,	Mineralisation,	SAMPLE DATA	ASSAY Sn %
79'-4"		6'-9"		15-20°	6'-9"	1. Coarse granite	SnO_2 Cpy Bo	75'0 - 80'-0"	Nil
80'-10"		1'-6"			1'-6"	6. Fine grained, quartz felspar		80'-0"- 85'-9" (3'-9" core)	Nil
82'-9"		c 1'-11"			c 1'-11"	5. Pegmatite.		85'-9"- 90'-0" (4'-3" core)	Tr
107'-4"		c 24'-7"			c 20'-10"	3. Fine grained granite/greissen c-Tr p-Tr	Tr py, Tr Mo Fl c-Tr.	90'-0"- 95'-0" (4'-1" core)	0.16
								95'-0"- 100'-0"	0.46
								100'-0"- 105'-0" (4'-2" core)	0.33
107'-7"		3"			3"	4. Greissen.	vc	105'-0"- 110'-0"	0.36
205'-5"		97'-5"			96'-6"	3. F.g.gr./ greissen.	c-Tr vr-Tr Mo vr-Tr, Fl. c-Tr	110'-0"- 115'-0"	0.16
								115'-0"- 120'-0" (4'-5" core)	Nil
								120'-0"- 125'-0" (4'-8" core)	Nil
								125'-0'-130'-0"	Nil
								130'-0"- 135'-0"	Tr
								135'-0"- 140'-0"	Nil
								140'-0"- 145'-0"	Nil
								145'-0"- 150'-0"	Nil
								150'-0"- 155'-0"	Nil
								155'-0"- 160'-0"	Nil
								160'-0"- 165'-0"	Nil

041

226042

DIAMOND DRILL CORE RECORD.

Detailed Log.

Hole. No16 (T).
Co-ordinates. 58,00N, 25100E.
Commenced 18-10-65. Completed 25-10-65.
Recovery 68·4%. Below 60' - 96·1%.
Collar R.L. 1131·00. Angle -90°
Final Depth 205·0. Core Size. BX & AXT.

0' - 47'6" No core.

47'6' - 60'0' 1. Coarse Granite
Floater only. 1' Core'. Rotten-iron stained

60'0" - c60·1" 6. Aplite
60'1" 2. Coarse Granite
+60'1" - 61'4". Lost 4". Pink.
61'4" - 64'2" White-yellow.
c 64'2" - 67'9" White. One felspar 2" long. Pinked for
*6" around 66'. Lost 9"

c 6. 9" - 67'10" 6. Aplitic area.
White pink. Qtz-felspar with a greenish quartzose band. Sharp junction, 15° to core axis (horizontal).

67'10" - 68'.3" 5. Pegmatite.
Quartz-felspar. Rare biotite at base. Some green quartzose-mica.

68'3' - 68'6" 6. Aplite (as above). Junction 13-20° to horizontal core axis
68'6" - 68'7½" 1. Coarse grained granite. " " " " " " Pink.
68'7½' - 68'8½ 6 Aplite green quartzose material. Junction as above.
68'8½" - 69'1½" 1. Coarse grained granite. Pink
69'1½" - 69'2" 6. Aplite. Junction 30° to core axis.
69'2" - 72'0*" 1. Coarse grained granite - red.
70'7' - 70'11½" 6½" Aplo-quartz vein - greenish. 85° to horizontal core axis.
72'0 - 72'7" 6 Aplite - quartzo-aplite. Upper junction 15-20° to horizontal core axis. Junction between aplite, which is greenish, and aplo quartzo-aplite is sharp irregular and subhorizontal. Lower junction of quartzo-aplite is similar.

72'7" - 79'4" 1 Coarse Granite.
72'7" - 73'4" Pink cg.g.
73'4" - 76'2" White
76'2" - 78'9" Pink-white
78'9" - 79'4"

79'4" - 80'10" 6. Fine grained quartz-felspar + green sericitic material. Biotite common in upper 2", Coarse for 1" at 78'9". Slightly coarser in depth. Pinker. Merges into

80'10" - c82'9" 5. Pegmatite
80'10" - c 82'9" Quartz-Felspar + green quartzose material. Grades into

c 82'9" - 107'4" 3 Fine grained granite gneissen.
- 85'9" Barren pink-white
* N.B 81'9" - 85'9" Lost 2'
85'9" - 86'5" Pink white
86'5" - 89'4" White. Odd Tr SnO_2
89'4" - 92'2" White. SnO_2 r-vr. Present for 3" at 89'8"
* 92'2" - 95'9" Lost 11". SnO_2 r-tr. Tr py in broken gneissenised patch in lost core area
95'9" - 98'5" SnO_2 p-Tr. Common over last 6". Tr Mo in last 6".

042

98'5"-101'3" SnO_2 c-r. White.
* 98'9"-101'3" Lost 10'
101'3"-104'11" SnO_2 p-v.rare. Patchy. Cpy p-vr around 103-104'. First 11" greissenised, remainder white grey. Fl-r @103'
104'11"-107'4" Slightly greissenised darker. Fl p-c. Trace Cpy in first 1'. No SnO_2.
107'4"-107'7" 4 Greissen.
Grey. Junctions diffuse sharply graded. SnO_2 v.common coarse ⅛" blebs.
107'7"-205'0" 3 Fine grained granite/greissen
107'7"-110'5" White grey. SnO_2 p-v.c. Very common over 3" at 108'10". Fluorite also common. mauve. Tr Mo
110'5"-112'9" Very broken to 111'3". Whiter. Tr Mo
112'9"-115'9" White for first 4". Then white grey greissenised. SnO_2 v.c for 2" at 113'9". Tr Mo. Tr cpy in last 6"
115'9"-118'7" White grey. Greissenised. Mo vr-tr. Cpy tr. SnO_2 present over last 2" only.
* 118'7"-121'3" Last 7" Tr. cpy. Tr Mo. Grey white greissenised. Fl pr interstitial.
* 121'3"-122'7" Last 4" Tr cpy. Fl pr. mauve
122'7"-124'11" Whiter. Tr cpy & Mo. Fl p-tr.
124'11"-127'11" White. SnO_2 vr-Tr. Cpy, Mo, Fl-Tr.
127'11"-130'8" Tr-Mo, SnO_2, Cpy & Fl.
130'8"-133'6" White. Mo r-vr in parts.
133'6"-136'4" " Mo r-p SnO_2, Cpy, Fl, Mo vr-Tr.
136'4"-139'4" Tr Mo, Cpy Fl. No SnO_2. Mineralisation Less.
139'4"-142'4" Tr Mo. White, slightly greissenised.
142'4"-145'0" Odd Tr Mo, Cpy & Fl.
145'0"-147'10" Odd Tr Mo, Cpy & Fl.
147'10"-150'8" White grey-greissenised. Tr Mo. Odd Tr SnO_2 in last 6". Tr cpy.
150'8"-153'7" Tr cpy. Mo-r-vr.
153'7"-156'7" White. Tr-Mo.
156'7"-159'5" " Tr Cpy over last 3".
159'5"-162'3" Odd Tr Cpy & SnO_2. R-Tr Mo.
162'3"-165'1" Odd Tr Mo. Fl pr over last 6'. Broken in parts
165'1"-168'1" Mo Tr-vr. Fl pr-Tr. Tr cpy. White
168'1"-171'0" " Fl p-tr.
171'0"-173'10" Tr SnO_2 in last 6". Cpy Tr-vr. Mo-Tr. Fl-p-Tr. Crystals of dark mineral in last 6"-may be very dark Fl.
173'10"-176'10" Tr Mo & SnO_2 & black mineral-scratches brown-but dosnt look like wolframite.
176'10"-179'9" White. Tr SnO_2. Fl p-vc. Interstitial mauve
179'9"-182'4" " Tr " Fl & Mo Tr in first 1'.
182'4"-185'3" " Tr SnO_2.
185'3"-188'2" " " " vr. in parts.
188'2"-191'0" " " "
191'0"-194'0" Odd Tr SnO_2
194'0"-196'10" " " "
196'10"-199'4" " " " to 98'. Becoming grey. SnO_2 vr.
199'4"-201'10" SnO_2 Tr-vr. Grey. Fl-Tr.
201'10"-205'0" " " Whiter over last 1'.

043

226044

Blue Tier, Anchor Area.

Diamond Drill Hole No 16 T.

1132'0".

Visual Content.	SnO_2	Cpy	Bo.	Fl	Mo.	Py.	Assay %Sn.
173'4", 176'10" Tr. unknown black mineral ?							
200 ft							
Floater							
							Not sampled.
							Nil
							Nil
							Tr
							0·16
							0·46
100'							0·33
							0·36
							0·16
Vert Scale 1" = 100'							Nil
							Nil
							Nil
							Tr
							Nil
							Nil
							Nil
							Nil
							Nil
							Nil
							Nil
							Nil
							Nil
							Tr
							Tr
							Tr
							Tr
							Tr
							Tr
							Tr
1205'.							

Key + + + Coarse grained granite with aplitic, & quartz-aplitic bands 1-6.
IIII 5. Pegmatite. /// 3. Fine grained granite/greissen. // 4. Greissen.

226045 044

DIAMOND DRILL CORE RECORD

Hole Number 17 (S). Date Commenced 28:10:65 Completed 11:11:65 Collar R.L. 1204:00'
Area of Operation Blue Tier. Geological Logging by R.G. Taylor. Bearing of Hole -
Location Anchor Open Cut. Core Recovery 78·9% Below 83'3": 99·1% Angle of Hole Vertical
Co-ordinates of Collar 5800 N. 25300 E. Drilled by A.D.D. Final Depth 275' Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	-To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type, Mineralisation,	SAMPLE DATA	ASSAY
0'0"	83'3"				∠ to Horizontal.	Core Recovery.	Floaters & Bedrock Floaters,		
0'0"	83'3"		83'3"		2	26'11"	Cg.g intruded by, aplite, aplite qtz, qtz-felspar etc Greissenised in small patches.	0 – 140' not sampled.	
83'3"	84'11"		1'8"			1'8"	1. Coarse grained granite.		
84'11"	86'6"		1'7"		c 45°	1'7"	6 Mixture 2 f.g.g, 6 Qtz-felspar x 3 f.g.g/greissen		
86'6"	106'5"		19'11"			19'5"	1. Coarse grained granite		
					75°		98'6" ½" Greissen vein		
					0°		100'. ½" Grey qtz vein		
106'5"	107'11"		1'4"		20°	1'4"	6. Aplitic		
107'11"	129'3"		21'4"			21'4"	1. Coarse grained granite + aplitic, x quartzose bands (see detailed log.).		
129'3"	130'1"		10"			6"	5. Pegmatite Tr. Mo.		

Hole No. 17 (5) FOOTAGE: From 130'-1" To 162'-8"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	Recovery	DESCRIPTION Rock Type.	Mineralisation	SAMPLE DATA	% ASSAY Sn.
130'-1"	131'-0"		11"			11"		1. Coarse granite + aplitic qtz - latter 130'-5"-131'-0"	Sno, Cpy Bo		
					65°						
131'-0"	139'-0"		8'-0"		40-55°	8'-0"		6. Quartz-felspar-coarse 136' ½" greissen vein			
					50°						
139'-0"	142'-4"		3'-4"			3'-4"		6. Quartzo-aplite - quartz felspar		140'-0"-145'-0"	Tr
142'-4"	147'-5"		5'-1"			5'-1"		6. Quartz felspar, coarse, greenish alteration		145'-0"-150'-0"	Tr
147'-5"	150'-2"		2'-9"			2'-9"		6. Dark green, Qtz-felspar-biotite,	Tr Fl		
150'-2"	152'-0"		1'-10"			1'-10"		6. Felspar Porphyry.		150'-0"-155'-0"	Tr
152'-0"	155'-8"		3'-8"			3'-8"		6. Green. Qtz-felspar biotite 154'-7" Greissen patch	c		
155'-8"	156'-2"		6"			6"		6. Qtz-felspar + 3f.g.g/greissen		155'-0"-160'-0"	Tr Tr
156'-2"	158'-2"		2'-0"			2'-0"		6. Qtz-felspar + aplite + c.g. granite			
158'-2"	160'-0"		1'-10"			1'-10"		6/4 Coarse greissen + felspar patches	r		
160'-0"	161'-0"		1'-0"			1'-0"		3 Coarse fine g.gr./greissen	p.	160'-0"-165'-0"	0·17, 0
161'-0"	161'-3"		3"			3"		4 Coarse greissen	p-c		
161'-3"	161'-9"		6"			6"		4/3 " + coarse f.g.g/greissen	vr		
161'-9"	162'-8"		11"			11"		6. Qtz-felspar + Qtz-felspar-biotite			

TRANSITION ZONE

226047 046

Hole No. 17 (5)

FOOTAGE: From 162'-8" To 235'-0"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Recovery / Angle To Core Axis	DESCRIPTION Rock Type	Mineralisation.	SAMPLE DATA	% ASSAY Sn	% ASSAY C
162'-8"	163'-0"		4"		TRANSITION ZONE	4"	6. Qtz-felspar patch-coarse,	SnO_2 Cpy Bo. vc			
163'-0"	163'-6"		6"			6"	3/1. Coarse f.g.g./greissen	p p-c Tr			
163'-6"	164'-3"		9"			9"	4. V.fine grained greissen	c-Tr c-Tr Mo p-Tr			
164'-3	171'-8"		7'-5"		c. 0°	7'-5"	3. Fine g.gr./greissen	r-Tr Tr Mo Tr	165'-0"- 170'-0"	0·11	Tr
171'-8"	179'-5"		7'-9"			7'-9"	4. Greissen	p-Tr p-Tr p-Tr Mo Tr	170'-0"- 175'-0"	0·11	0·3
179'-5"	182'-9"		3'-4"			3'-4"	3. Fine g.gr/greissen	Tr Mo Tr	175'-0"- 180'-0"	0·12	0·1
182'-9"	183'-4"		7"			7"	4. Greissen	p.	180'-0"- 185'-0"	Tr	0·
183'-4"	185'-1"		1'-9"		c 50°	1'-9"	6. Qtz-felspar rock	p-c			
185'-1"	194'-0"		8'-11"			8'-11"	4. Greissen	r-Tr r-Tr r-Tr Mo-Tr.	185'-0"- 190'-0"	Tr	Tr
									190'-0"- 195'-0"	0·20	Tr
194'-0"	199'-6"		5'-6"			5'-6"	3. Fine gr gr/greissen	Tr	195'-0"- 200'-0"	Tr	Tr
199'-6"	215'-11"		16'-5"			16'-0"	4. Greissen	c-Tr occ Mo r-Tr + unknown	200'-0"- 205'-0"	0·16	0·2
								grey sulphide - might	205'-0"- 210'-0"	0·14	0·1
								be Mo or Chalcolite?	210'-0"- 215'-0"	0·28	0·1
215'-11"	243'-1"		27'-2"			27'-2"	3. Fine g.g./greissen	p-Tr Tr Mo Tr	215'-0"- 220'-0"	0·14	Tr
									220'-0"- 225'-0"	0·23	
									225'-0"- 230'-0"	0·26	
									230'-0"- 235'-0	0·37	

226048 047

Hole No 17(5) FOOTAGE: From 235'-0" To 275'-0"

Ex. 62417 (D)

Recovery.

FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Angle To Core Axis	DESCRIPTION Rock Type	Mineralisation Sna, Cpy Bo	SAMPLE DATA	% ASSAY Sn
								235'-0" - 240'-0"	0.45
								240'-0" - 245'-0"	0.24
" 249'-2"		6'-1"			6'-1"	4. Greissen	p-Tr p-Tr Tr Mo vr-Tr.	245'-0" - 250'-0"	0.12
" 275'-0"		25'-10"			25'-10"	3 F.g.g. /greissen	Tr Tr Mo-Tr	250'-0" - 255'-0"	0.11
								255'-0" - 260'-0"	0.26
								260'-0" - 265'-0"	0.31
								265'-0" - 270'-0"	Tr
								270'-0" - 275'-0"	Tr
						Standing water level not measured, - drillers estimate 90-100' from collar.			

048

226049

DIAMOND DRILL CORE RECORD.

Hole No 17(S) Blue Tier Anchor, Open Cut.
Coordinates 5800N, 25300E.
Commenced 28-10-65. Completed. 11-11-65
Recovery, 78·9% Below 83'3" 99·1%
Collar R.L. 1204·00'. Angle -90°
Final Depth Core Size BX & AXT.

0 - 7'3" Floater. F.g granite/greissen - white, only 5' core. Pinking in depth and becoming nearer quartz-felspar rock.

7'3"-10'3" Floaters. 3' Core. As above over 1st 1' + coarser greisenised patches. Grades into coarse greissen, junction 75° to horizontal core axis, composed of quartz, biotite, sericite with pink felspar in parts. Biotite seems to develop at the expense of the felspar. Rock continues as coarse granite-greissen mixture to 10'-3"

10'-3"-13'-0" " 3" Coarse granite, pink.
6" Fine grained granite, 10° junction (from horizontal) sharp. Rock pink. Lower junction, sharp, 4° to h.c. axis.
11'-12'-8". Coarse fine grained granite (ie medium grained) slight biotite increase at upper junction.
12'-8"-12'-11" Aplite-fine grained granite, vein. Junctions sharp 10-15° to horizontal core axis
12'-11"-13'-0" Pink coarse grained granite

13'0"-15'-0' Floaters. Only 1'-9" core.
6". Coarse grained granite pink.
5" Aplite-fine grained granite dyke. Sharp junctions Upper 10-15°, Lower 45° (from horizontal.).
10" Mixture of Fg granite/aplite with coarse pink granite. Former seems to replace it, ie. tounges & veins into it.

15'0" 6'3" Floater. Only 10" core - probably last 10".
Coarse, Qtz, Felspar ± muscovite & biotite
ie Coarse grained granite.

58'3"-59'1" Floater. Only 3" core
Coarse Qtz Felspar rock

59'1" - 61'9" Floater. Only 5" core
Diffuse coarse and fine grained quartz-felspar. Muzzy, texture. Pink grey.

61'9" - 64'9" No core.

64'9" - 71'3" Floater Only 3'3" of core.
Mixture of coarse pink granite, greissenised grey in patches. Patches of apatite-felspar apatite, greenish pink sometimes as ½-1" subvertical veinlets with sharp boundaries. Other junction areas are diffuse, & the 'aplite' seems to intrude and replace coarse granite. One ¼" Qtz veinlet - sub vertical. Where the vein cuts a felspar it becomes felspathic.

71'3" - 72'3" Broken 1' core. As above

72'3" - 74'0" Floater. 1'2" core. Broken coarse granite - flesh pink. Greissenised in parts. Felspathic blebs near 74'.

74'0" - 75'10" Floater 10" Fine grained quartz-felspar. Pink. Upper junction diffuse. Lower diffuse to sharp, 30° to horizontal core axis
74'10" - 75'10". Coarse granite pink.

75'-10"- 77'-10' No core 2'.

77'-10"- 89'-3" Bedrock floater
6. Fine grained granite-quartz felspar rock. Pink-white
No boundaries visible.

81'-3" -84'-11" 1. Coarse grained granite, v
Very felspathic pink. Junction 50° to h.core axis.
* 81'-7" - 83'-3" Lost 1'-8".
83'-3'- 84'-11" Pink

84'-11"-86'-6" 6. Fine grained granite-f.g.g. / greissen - quartz felspar
Junction - diffuse, 45°. Biotite present. White pink-speckled black. Around 86'. Qtz-felspar

86'-6"-106'-5" 1. Coarse grained granite
Pink. Junction not seen. Some intermixing seen just prior to junction. Greissenised in parts. Occasional aplitic blobs.
At 98'-6", ½" greissenised area, 75° to h. core axis. Small qtz vein occupies the central area. Around 100'
* ½" sub horizontal grey quartzose vein. 86'-0"-90'-6" Los 1"
100'-6"-106'-5" C. granite - pink. Odd joint controlled greissen patches

106'-5'- 107'-11" 6. Aplitic
Hard fine grained - buff white. Upper junction sharp, diffuse in detail. 20° to horizontal. Lower junction diffuse intermixed zone.

107'-11"- 129'-3' 1. Coarse grained granite + aplitic areas.
Pink, rare quartzose bands & patches, ie 113'-6". 3" vein, 20° to h. core axis. Also at 119'-6"- 1" Quartz aplite band. Sharp junction, 30° to h. core axis
No biotite in the granite for 1" on either side of the vein. Biotite is similarly lacking from the quartzose patch areas.
128'-10" 2" aplitic material - vein-like with quartz edges Upper junction 60° to h. core axis. Lower one diffuse
129'-0" 3" patch of mixed Aplite-quartz & coarse grained granite, merging into pegmatite.

129'-3"-130'-1" 5 Pegmatite.
Qtz-Felspar muscovite. Tr Mo.
* 124'-4"- 134'-4". Lost 1'
Last 1" contains ½" Qtz vein. Sharp contact, 26° h.c.axis.

130'-1"- 131'-0' 1. Coarse grained granite. + aplitic material.
130'-5"- 131'-0" Aplite-Quartzo-aplite. Upper junction 65° sharp. Lower diffuse 40-30° to h. c. axis

131'-0"- 139'-0" 6. Quartz-felspar rock - pink
Derived from pink c.c. granite. No biotite & v. little sericite
134'-4"-136'-6" As above - felspar greenish-altered.
½' greissenised veinlet at 136'. 50° to h. core axis.

139'-0"- 142'-4" 6. Quartzo-aplite
Quartz felspar mixed - sugary texture in parts. Pink-white. Lower junction diffuse quartzose. Associated with development of biotite. 45° to h.c.a. Grades into quartz-felspar rock.

142'-4"- 147'-5" 6. Quartz-felspar rock
Grassy green alteration of felspar. Very green 145'-0-145'-6". Biotite development ½" at 147'-4½". Followed by ½" Qtz vein.

050

226051

147'5"-150'2" 6, Greenish Quartz-Felspar rock.
Addition of green material. dark green micaceous. Junction vein is 15° to h.c.axis. Rock is streaky vertically.
After first 6" dark content increases. Streaky. Mineral is green black biotite, white mica also present. At 149' grades into granitic textured rock, ie the streaky effect vanishes. Similar to ccgranite.
Pink, spotted dark green.
150' Fluorite smear on joint - purple. Grades into

150'2"-152'0 6, Porpyritic granite - fine grained matrix + felspar crystals
Unusual rock. Large pink felspars. 1" crystals set in fine equigranular granitic matrix. At 151' loose most of the phenocrysts.

152'0"-155'8" 6, Greenish Quartz-Felspar rock
Sharp grade into it. Streaky. Streaks horizontal
152'10"-155'8" Very dark, Qtz, felspar, biotite rock, not streaked. Small greissenised patch at 154'7". Coarse SnO_2 crystals ¼".

TRANSITION ZONE

15[illegible]'-156'2" 6, Quartz felspar + f.g.g/greissen mixture. 6"
15[illegible]"-158'2" 6, Quartz felspar + Aplite + Coarse granite 2'
158'2"-160'0" 6 Coarse greissen + felspar patches. Grey. Cpy r. Some large green biotite laths ¼" associated with felspars. Cpy.p.
160'0"-161'0" 3 Coarse fine g.granite/greissen. Large biotites. 1' Cpy-p.
161'0"-161'3" 4 Coarse greissen grey, Cpy p-c
161'3"-161'9" 3/4 Coarse greissen + coarse f.g.g./greissen. Dark. cpy vr.
161'9"-162'8" 6, Qtz felspar + Qtz felspar biotite. Pink white
162'8"-163'0" At 162'8" Qtz felspar patch + coarse v rich SnO_2 ¼" crystals. Unusual.
163'0"-163'6" 3/1 Coarse f.g.g/greissen
SnO_2-p. Cpy-p-c Tr Bo
163'6"-164'3" 4, Greissen - fine grained
Cpy-c. Bo-c. Mo-p-c. Small ¼" Qtz vein at 164'.
164'0-164'3" No cpy. Tr Mo. Subhorizontal junction with
[illegible]'3"-171'8" 3 Fine grained granite/greissen
164'3"-164'10" Dark.
164'10"-167'0" Lighter SnO_2 Tr-vr
167'0 - 169'6" Darker. Cpy & Mo Tr in first 1'. SnO_2 Tr-vr.
169'6' - 170'0' SnO_2 Tr-vr.
170'0"-171'8" Lighter, becoming darker. SnO_2 r-p Tr Mo.
171'8"-179'5" 4 Greissen
171'8"-172'9" Dark. SnO_2 r-p.
172'9"-175'9" 1st 1'6" SnO_2 Tr-vr. Last 1'6" - Flp-c. Bap-c SnO_2 - vr. Cpy - vr-Tr.
175'9"-178'9" 1st 6" Bo, Cpy, SnO_2 p-vr. Mo Tr. Rest SnO_2 Tr.
178'9"-179'5". SnO_2 vr.
179'5"-182'9" 3. Fine grained granite/greissen.
179'5"-181'3" SnO_2 Tr over 1st 1'. Tr Mo.
181'3"-182'9" Barren. Grades to
182'9"-183'4" 4 Greissen. Cpy-p.
183'4"-185'1" 6 Quartz-Felspar rock. Junction 50° diffuse. Rare biotite Cpy p-c.
185'1"-194'0" 4 Greissen
Junction, sharp, diffuse in detail
185'1"-187'0" Cpy, Bo r. No SnO_2. Mo Tr.
187'0"-190'0" Tr Mo & Bo. Iron stained at 190'.
190'0"-190'2" SnO_2 r
190'2"-194'0" SnO_2 Tr over last 6". Tr Cpy. Tr Mo

051

226052

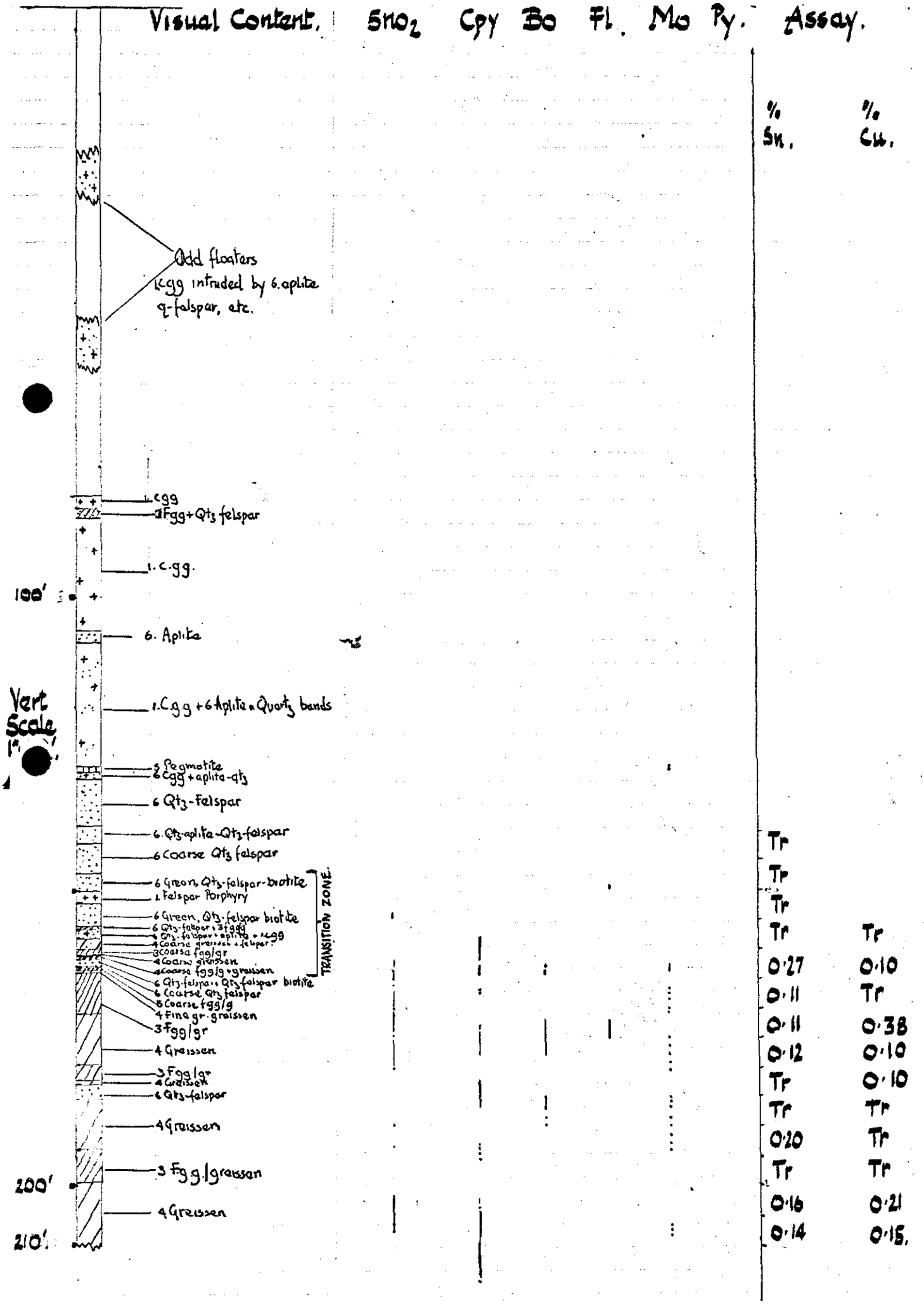
194'0" - 199'6" 3 Fine grained granite/greissen
194'0-196'6" Tr cpy.
196'6"-199'6' Barren
199'6" - 215'11" 4 Greissen.
199'6"-202'6" Barren. Lighter over last 4" where SnO_2 is r.
202'6"-204'9" cpy r-tr. SnO_2 vr-p.
204'9"-207'9" First 2'. SnO_2 p-r. cpy r-vr.
Last 1'. Near f.g.g./g. SnO_2 vr. cpy r.
207'9"-209'11" Near f.g.g./g. cpy-2. Mo Tr + unknown grey metallic mineral (Mo?) (Chalcopyritecite?). Associated with cpy.
209'1"-209'9" Grey greissen. cpy. c. Tr Mo. Unknown p-vr
209'9"-210'7" Near f.g.g./g. cpy c-p. Unknown r.
210'7'-213'11" Greissen, often near f.g.g/g. cpy c-p.
Bo. Tr in Last 1'. SnO_2 c-p. Mo r-Tr. Unknown. Tr.
" 203'9"-211'4" Lost 5"
213'11"-215'11" Greissen. SnO_2 p. cpy-p. Mo Tr. Unknown-Tr.
215'11" - 243'-1" 3. Fine grained granite/greissen
215'11"-216'11" White. Sharply graded junction. 'Horizonta''
SnO_2 Tr-r. cpy-Tr.
216'11"-219'11" Darker over last 6". SnO_2 Tr-vr. Mo. Tr.
219'11"-222'8" Grey white. SnO_2 r-vr. Mo Tr.
228'8"-225'8" SnO_2 vr. Tr cpy.
225'8"-228'4" " vr.
228'4"-331'4" " p-vr
231'4"-234'4" " vr. Tr cpy.
234'4"-237'0" Grey white. SnO_2-p
335'11"-338'0". 1" Greissen. Diffuse graded margins
SnO_2 p. cpy. vr. Grey.
237'0"-240'0" SnO_2 vr-r. Greissenised in parts.
240'0"-242'10" SnO_2 vr " " "
242'10"-245'10" SnO_2 p. Tr cpy & Mo.
243'1"-249'2" 4 Greissen
243'1"-245'10" SnO_2 r-Tr. Tr cpy & Mo. Bo-Tr.
245'10"-248'6" SnO_2 p-Tr. cpy p-vr. Bo Tr. Mo vr-Tr.
248'6"-249'2" As above
249'-2" 3. Fine grained granite/greissen.
249'2"-251'1". Tr SnO_2, cpy, and Mo. Junction sharply graded, but diffuse.
251'1"-254'1" White. Tr cpy & Mo
254'1"-257'0" " " " " & SnO_2
257'0"-260'0" Tr SnO_2. Tr Mo
260'0"-263'0" Barren. Oad Tr SnO_2
263'0"-266'-0" Barren
266'0"-268'10" Darker over last foot. Tr SnO_2
268'10"-275'0" Barren.

052

Blue Tier, Anchor Area.

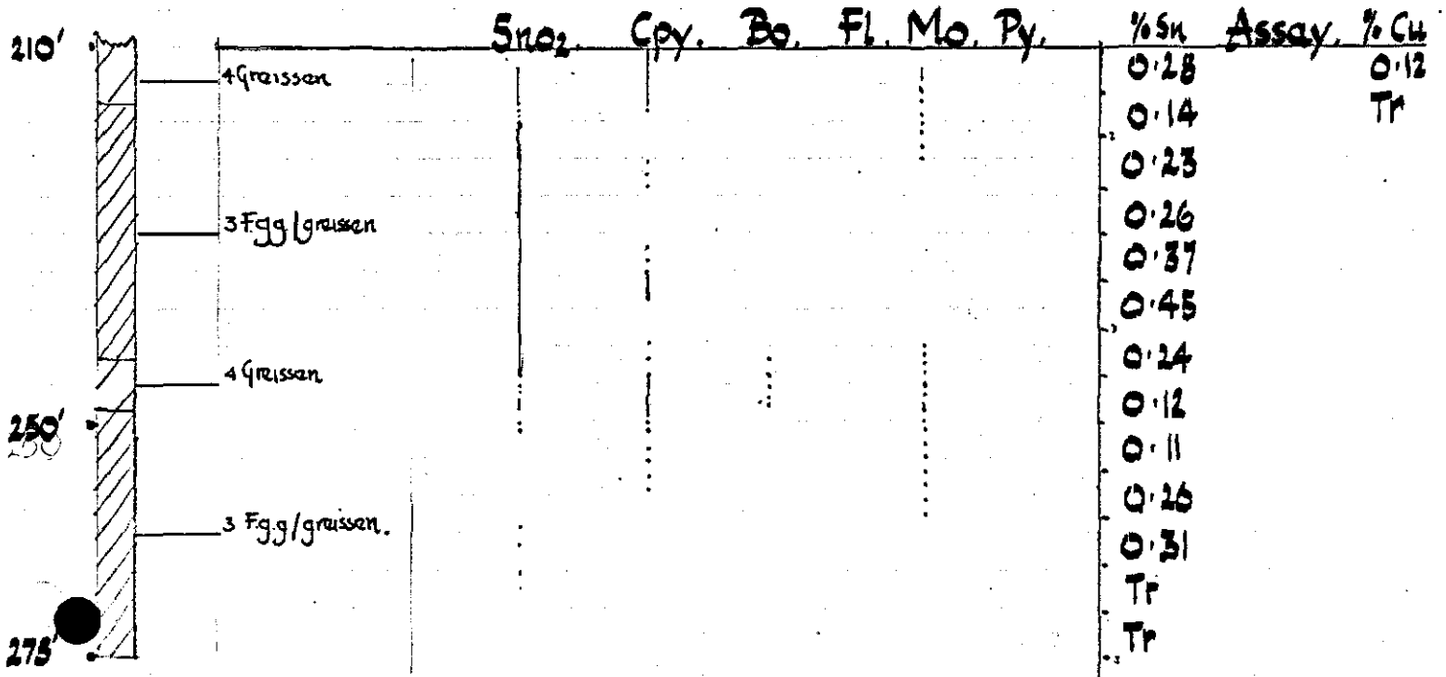
226053

Diamond Drill Hole No 17 (5). 0-200'.



053

226054



Note. Unknown grey black S'd in small amounts from 207'9"-215'11". May be chalcocite? or a form of Molybdenite?, (soft).

226055 054

DIAMOND DRILL CORE RECORD - General Log.

Hole Number 18 (U)
Area of Operation Blue Tier Anchor
Location Anchor Open Cut
Co-ordinates of Collar 58.00 N. 25000 E.

Date Commenced 8:11:65 Completed 18:11:65.
Geological Logging by R.G Taylor
Core Recovery 74.3% (Below 50' - 97.4%)
Drilled by A.D.D.

Collar R.L. 1100.50'
Bearing of Hole •
Angle of Hole Vertical
Final Depth 200' Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Recovery Angle To Core Axis	DESCRIPTION Rock Type	Mineralisation. SnO2	Cpy	Bo		SAMPLE DATA	ASSAY
0'-0"	46'-3"						No core						% Sn
46'-3"	67'-10"		21'-7"			20'-7"	1. Coarse grained granite. Greissenised in parts.					60'-0" - 65'-0"	Tr
												65'-0" - 70'-0"	Tr
67'-10"	70'-8"		2'-10"			2'-6"	: Transition zone, merging of c.g.g / & f.g.g / greissen				Fl v.c, in parts		
70'-8"	200'-0"		129'-4"			125'-4"	3. F.g.g / greissen					70'-0" - 75'-0"	0.18
							70'-8" - 77'-0"	c-Tr	Tr		Fl, Mo, Py-Tr,	75'-0" - 80'-0"	0.18
							77'-0" - 123'-0"	Tr			Tr Py & Mo,	80'-0" - 85'-0"	Tr
											Fl-r-Tr.	85'-0" - 90'-0"	Nil
							123'-0" - 200'-0"	-	Tr		Py, Mo, Tr, Fl-Tr	90'-0" - 95'-0"	Tr
											Barren from 150'	95'-0" - 100'-0"	Tr
												100'-0" - 105'-0"	Nil
												105'-0" - 110'-0"	Nil
												110'-0" - 115'-0"	Nil
												115'-0" - 120'-0"	Tr

226056 055

Hole No. 18 (11) FOOTAGE: From 120'-0" To 200'-0

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING	DESCRIPTION	SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis			% Sn
							3. F.g.g. / grussen, (continued).	120'-0"- 125'-0"	Tr
								125'-0"- 130'-0"	Nil
								130'-0"- 135'-0"	Tr
								135'-0"- 140'-0"	Nil
								140'-0"- 145'-0"	Tr
								145'-0"- 150'-0"	Tr
								150'-0"- 155'-0"	Tr
								155'-0"- 160'-0"	Nil
								160'-0"- 165'-0"	Tr
								165'-0"- 170'-0"	Tr
								170'-0"- 175'-0"	Nil
								175'-0"- 180'-0"	Nil
								180'-0"- 185'-0"	Tr
								185'-0"- 190'-0"	Nil
								190'-0"- 195'-0"	Nil
							Standing water level, 20' down.	195'-0"- 200'-0"	Tr

056

226057

DIAMOND DRILL CORE RECORD.

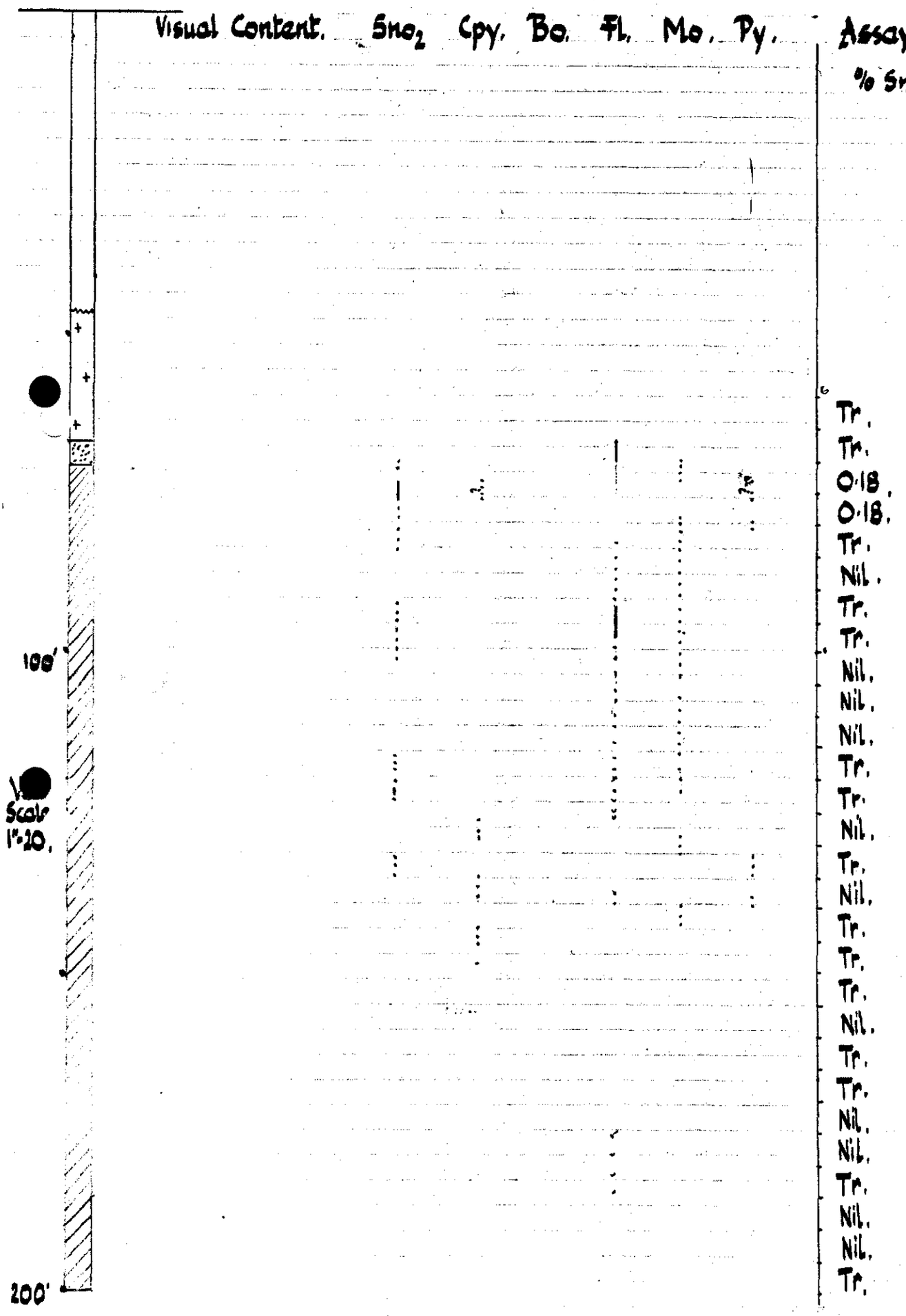
Detailed log.

Hole No 18 (LL), Blue Tier Anchor, Open Cut.
Co-ordinates 5800N, 25000E
Commenced 8.11.65 Completed 18-11-65.
Recovery 74·3%. Below 50' - 97.4%.
Collar R.L. 1100·50. Angle -90°
Final Depth 200' Core Size. A.X.T.

0' 0" - 46' 3" No core.
46' 3" - 67' 10" 1. Coarse grained granite
46' 3" - 49' 3" Iron stained, biotite content fluctuates.
* 49' 3" - 55' 8" Lost 1'. Pink white. Last 6" greissenised - diffuse junctions.
55' 8" - 58' 6" Pink white
58' 6" - 67' 4" 10" " " - silicified and greissenised in patchs.
67' 0" - 70' 8" Transition zone.
Felspars of c.gr. granite / greissen go white, & the rock merges to f.g.g / greissen. Broken, FL
* v. common in parts - mauve 67' 4" : 71' 2" Lost 4"
70' 8" - 200' 0" 3 Fine grained granite / greissen
70' 8" - 71' 2". White. Mo ≈ SnO_2 Tr
71' 2" - 73' 5". First 1' 6" Grey. Near to 4 greissen. Sharp graded junctions - subhorizontal. Barren
Last 9" White, SnO_2 - r - p. Mo Tr
73' 5" - 76' 3" White SnO_2, Cwr, Tr Py. Cpy? SnO_2 v. fine grained.
76' 3" - 79' 3" White. Mostly barren. V. odd Tr SnO_2
79' 3" - 81' 11" grey white diffuse. Minute Tr SnO_2, Py ≈ Mo.
81' 11" - 84' 11" " " " "
* 84' 11" - 91' 0" Lost 2'. White grey. V. broken. Tr. Mo + FL (mauve).
91' 0" - 92' 10" White. Tr Fl. Barren Tr Mo
92' 10" - 95' 10" " . Tr SnO_2. R-Fl. Tr Mo.
95' 10" - 98' 10" " " " "
98' 10" - 101' 10" " " R-Tr Fl, " "
101' 10" - 104' 10" " Tr Fl, Tr Mo
104' 10" - 107' 10" " Tr Fl.
107' 10" - 116' 0" White. Tr Mo. Tr Fl purple. Tr SnO_2
116' 0" - 118' 6" " Tr Py? Tr FL. Tr-SnO_2
118' 6" - 120' 7" " " " Vrare Tr. SnO_2. Tr Mo.
120' 7" - 123' 5" " Barren - Odd Tr FL
123' 5" - 126' 5" " Odd Tr Cpy.
126' 5" - 129' 5" " Odd Tr Mo.
129' 5" - 132' 2" " Odd Tr SnO_2 ≈ Py.
132' 2" - 135' 3" " Tr cPy
135' 3" - 138' 0" " Tr FL / Tr Py.
138' 0" - 140' 10" " Tr Py ≈ Mo
140' 10" - 143' 8" " Tr Cpy. Often near F.gg. ↑.
143' 8" - 146' 6" " Minute Tr. cpy.
146' 6" - 149' 6" " Barren. Often near f.gg. Several
149' 6" - 164' 6" " Kaolinised joints - c 80° to horizontal core axis
Barren, Kaolinised joints 70-80°. up to ¼" wide
164' 6" - 176' 4" White. " " , Odd Tr FL, on joints.
174' 4" - 185' 4" " " Lost 2" to 190'. V. little kaolin. Broken over last 6"
* 185' 4" - 188' 0" " Barren. Often near F.g.g.
190' 0" - 200' 0" "

057

Blue Tier, Anchor Area.
Diamond Drill Hole No 18 (U).



Key + 1. Coarse grained granite ⁘ 6. Transition zone. 1.c.g.g + 4 Greisen + 3. fg.g/greissen

// 3 Fine grained granite/greissen.

226059

058.

DIAMOND DRILL CORE RECORD

Hole Number 19(R) | Date Commenced 15.11.65 Completed 19.11.65 | Collar R.L. 1245.0'
Area of Operation Blue Tier | Geological Logging by R.G. Taylor | Bearing of Hole "
Location Anchor Open Cut | Core Recovery 80.9% (Below 33'.97.7%) | Angle of Hole Vertical
Co-ordinates of Collar 5800 N. 25,500 E. | Drilled by A.D.D. | Final Depth 102'.0" Core Size AXT.

62417 (D)

DRILL FOOTAGE From	To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Recovery Angle To Core Axis	DESCRIPTION Rock Type.	Mineralisation.	SAMPLE DATA	ASSAY
0"	20'.7"						No core.	Sng, Cpy Bo		
'.7'	33'.0"		12'.5"			1'.2"	Floater 3.Fg.g./greissen + 6. felspathic areas			
0"	45'.8"		12'.8"			12'.2'	3.Fg.g./gr + 6 felspar areas · near 6. Qtz-felspar in parts.		40-45'.0" (4'.6" core)	Nil
									45'.0"-50'.0"	Tr
8"	89'.0"		43'.4"			42'.11"	3.Fg.g./greissen	Tr Tr.Fl,Py,& Mo.	50'.0"-55'.0"	Tr
									55'.0"-60'.0"	Tr
				80° from horizontal			53'.2"-54'.2', ¼" qtz vein + ½" greissenised selvedge	vc r	60'.0"-65'.0"	Nil
									65'.0"-70'.0"	Tr
									70'.0"-75'.0"	0.33
				77° "			At 70'.8", ½ Qtz greissen veinlet	vc Tr?	75'.0"-80'.0" (4'.7" core).	Tr
							" 72'.7', ¼ " " " "	c	80'.0-85'.0'	Tr
							" 80'.0" ⅛ " " " "	c		
0"	91'.0"					2'.0"	4. Greissen.	Tr.py-cpy?	85'.0"-90'.0"	Nil
0"	102'.0"					11'.0"	3 Fg.g./greissen	"	90'.0"-95'.0"	Nil

226060

Hole No. No 19 (R)

FOOTAGE: From 95'0" To 182'0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING Recovery	DESCRIPTION		SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis (∠ to horizontal)	Angle To Core Axis	Rock Types.	Mineralisation. SnO_2 30 Cpy		
									95'0"-100'0"	Nil
102'0"	102'2"		0'2"		60°	0'2"	4. Greissen.		100'0"-105'0"	Tr
102'2"	127'6"		25'4"			24'2"	3 Fgg./greissen		105'0"-110'0"	Nil
							+ minor Qtz-felspar, ∝ Qtz veinlets		110'0"-115'0" (3'10" core).	Tr
									115'0"-120'0"	Nil
									120'0"-125'0"	Nil
127'6"	128'3"		0'9"		45°	0'9"	6. Quartz-felspar rock		125'0"-130'0"	Nil.
128'3"	182'0"		53'9"			52'5"	3 Fine grained gr/greissen	Tr Mo, Fl-	130'0"-135'0" (3'8" core).	Nil.
							+ minor aplitic-greissen-quartz	vc-Tr	135'0"-140'0"	Nil.
							veinlets.		140'0"-145'0"	Nil.
									145'0"-150'0"	Tr
									150'0"-155'0"	Tr
									155'0"-160'0"	Tr
									160'0"-165'0"	Tr
									165'0"-170'0"	Nil
							Standing water level		170'0"-175'0"	Nil
							59'3" from collar.		175'0"-180'0"	Nil
									180'0"-182'0"	Tr.

090

226061

DIAMOND DRILL CORE RECORD.

Detailed Log.

Hole 19 (R)	Blue Tier Anchor Open Cut.
Coordinates	5800 N 25500 E.
Commenced	15-11-65. Completed 19-11-65.
Recovery.	80.9%. (Below 33' - 97.7%).
Collar R.L.	1245.0' Angle. Vertical
Final Depth	182' Core Size. AXT. (BX to 5557'.7").

0'.0"-20'.7" No core

20'.7"-33'.0" " Floater. Mixed 2 f.g.g /3 f.g. greissen + felspar crystals +1, C.g. granite. Only 1'2"

33'.0"-45'.8" 1/3. Mixture as above, basically white 3. Fine grained granite greissen + felspar areas, Fe stained. Pinkish colour 33'.0"-36'.9".
36'.9"-38'.9" Broken. As above, - 6 Qtz-felspar in pc s.
" 38'.9"-44'.0" Lost 6". Felspar crystals often over 1" long - usually ragged & diffuse outlines. f.g.g/greissen matrix is diffuse, greissenised in places. Tr Mo.
44'.0' Hybrid rock continues, felspar patches become less frequent. Around each felspar crystal is a grey sub-greissen halo - reaction rim?, preferential replacement. Around 45'.8" grades to white/pink f.g.g /greissen.

45'.8"-89'.0" 3 Fine grained granite/greissen.
45'.8"-49'.6" White pink Tr Fl. One crystal of cpy.
49'.6"-52'.2" " " " ". felspar remnant 51'.6"
52'.2"-55'.2" "

Note from 53'.2"-54'.2" ¼" quartzose vein, 80° to horizontal core axis. Rock for ¼" on each side greissenised & contains v.c. cassiterite + R. cpy.
55'.2"-57'.7" End of BX core. Grey. Tr Fl
57'.7"-60'.7" Grey. Tr Mo, & py-cpy?
60'.7"-63'.7" " . Buff over last 1'. Tr py. Tr Mo
63'.7"-67'.7" Grey-white, Tr Py?. Tr Mo. Broken
67'.7"-70'.7" " Barren.
70'.7"-76'.7" "

Note At 70'.8". ½" Qtz-Greissen veinlet, 77° to horizontal core axis. SnO_2 v-c coarse. Also some py-cpy
At 72'.7" Similar vein, ¼" SnO_2 c.
" 657'.7"-77'.7" Lost 5'.
76'.6"-79'.7" White grey. Tr Mo. At 79'½' Qtz-greissen vein, 60-65° to horizontal core axis. No mineralisation.
79'.7"-82'.6" Grey white. Mo Tr.
At 80' ⅜" Qtz vein + greissen. SnO_2 common.
82'.6"-85'.5" Grey white barren.
82'.6"-89' "

89'.0"-91'.0" 4 Greissen.

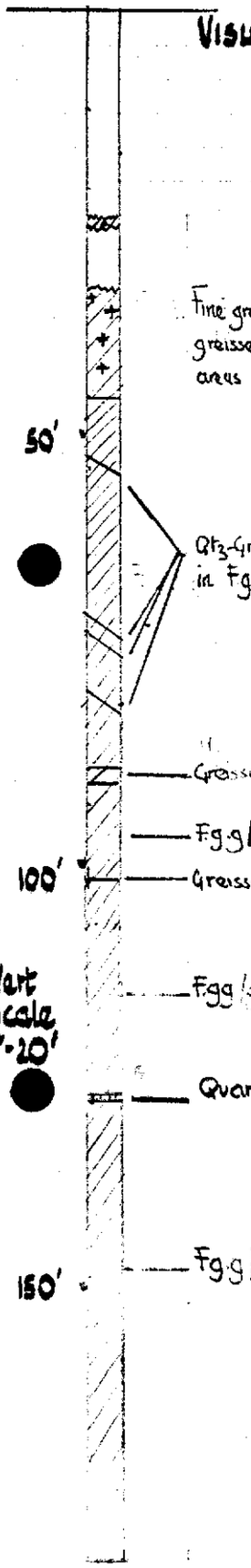
91'.0"-102'.0" 3 Fine grained granite/greissen.
91'.0"-97'.3" Buff - white grey. Barren. Oddspec Py-Cpy?
97'.3"-102'.0" "

102'.0"-102'.2" 4 Greissen. 60° to h. core axis. Quartzose in part. Barren

102'.2"-127'.6" 3 F.g.g. / greissen
102'.2"-106' Pink white. Barren. Diffuse grains. Near f.g.g.
106'.0"-111' Slight grade to finer material. More felspathic. Aplitic in parts. Odd ¼" felspar & felspar-biotite bands 20°. Also

odd felspar patches. last 6" pink white fgg/greissen.
* 111'-6"-115'-8". Lost 1'-2" probably at 111'-6". F.gg. greissen
+ 3" Qtz-felspar area, 50° to core axis
115'-8"-117'-0" At 115'-8". 1" Qtz-felspar vein
At 116'-6" 4" Qtz vein, 30° to h' core axis,
followed by 3½' white, Qtz-felspar area. 1" of qtz in the
upper 3" of the vein. Tr Mo. The remainder is f.gg/ greissen
with more biotite than usual, ∴ darker
117'-0"-118'-4" White buff barren
118'-4"-120'-10" " ". In the first 6' are 2 // ½" felspathic
veins, one with a minute qtz centre. 55° to h. core axis.
Several minute veinlets seen in next 1'.
120'-10"-123'-8" White-buff.
At 122'-2" ¼" veinlet, Greissenised, 75° to h. c axis
At 122'-10" ½ Qtz-vein. 20° to h.c. axis.
123'-8"-126'-5" White. 3-4 Minute, Fe stained, qtz veinlets, 20° (h/a)
126'-5"-127'-6" Grey,
127'-6"-128'-3" 6 Qtz-Felspar Rock.
Graded diffuse 45° junction with the above.
Centre quartzose + dark 45° greissen patch.
128'-3"-182'-0" 3. Fine grained granite / greissen.
128'-3"-129'-3" Grey. Tr Mo.
* 129'-3"-132'-10". Lost last 6". Grey. Broken at 130'-9" where
a qtz felspar fragment is seen. Upper junction 45°, lower
not seen
* 132'-10"-135'-4" Lost first 10". White. Crisp out lines of
mineral grains
135'-4"-138'-4" White-pink, barren.
138'-4"-142'-0" Pink-white. Near fgg.
At 139'-2" ½" Qtz vein 41°, Qtz Felspar selvedge.
142'-0"-145'-0" White. Tr FL on 50° joints (to horizontal)
145'-0"-151'-0" White.
At 153'-2" ¼" Greissen-aplite vein
At 150'-0" ½" Qtz-vein-some FL. 35° to h. core axis.
151'-0"-154'-0" White-buff. Red spots-Fe.
154'-0"-159'-0" " Tr FL on joints & interstitial.
159'-0"-162'-0" Grey-buff. At 159'-6" ½" dark greissen vein.
162'-0"-167'-9" White grey.
167'-9"-170'-7" " Greissenised over 1st 6".
At 169'-2"-3" Aplitic vein 45° diffuse edges.
170'-7"-173'-7" Grey white. Pinking over last 6". Fe from
altered biotite. FL in last 6".
173'-7"-176'-7" Pink. Felspar pinking. FL-vc on joints.
176'-7"-179'-6" Over 1st 1" - altered, several bands of
greissen/qtz/aplite 10-30° to core. Then pink white fgg/greissen
179'-6"-182'-0" Pink-white. fgg/greissen. Tr FL.

Blue Tier, Anchor Area,
Diamond Drill Hole. No 19 (R).



Visual Content	SnO_2	Cpy.	Bo.	Fl.	Mo.	Py.	Assay.
Fine grained granite/ greisser + felspathic areas 1+3?							Nil.
							Tr.
							Tr.
							Tr.
Qtz-Greissen, SnO_2 veinlets in Fgg/greisser 3							Nil.
							Tr.
							0·33.
							Tr.
							Tr.
Greissen 4							Nil.
Fg.g/greisser 3							Nil.
Greissen 4							Nil.
							Tr.
							Nil.
Fgg/greissen 3							Tr.
							Nil.
							Nil.
Quartz-felspar. 6.							Nil.
							Nil.
							Nil.
							Nil.
Fg.g/greissen 3.							Tr.
							Tr.
							Tr.
							Tr.
							Nil.
							Nil.
							Nil.
							Tr.

Note. No cassiterite seen in the f.g.g./greissen or greissen. In this hole it is confined to a few Fl. veinlets.

226064 063

DIAMOND DRILL CORE RECORD · General Log.

Hole Number: 20 (C).
Area of Operation: Blue Tier.
Location: Anchor Open Cut.
Co-ordinates of Collar: 5400 N. 25300 E.

Date Commenced: 22·11·65 Completed: 2·12·65.
Geological Logging by: R.G. Taylor.
Core Recovery: 66.6% Below 77'6" · 97%.
Drilled by: A.D.D.

Collar R.L.: 1134·00.
Bearing of Hole: –
Angle of Hole: Vertical.
Final Depth: 222'·4" Core Size: AXT.

Ex. 62417 (D)

Drill Footage From	Drill Footage To	Vein or Other Intersections: Depth	Length	True Width	Angle To Core Axis	Bedding / Recovery. (Angle To Core Axis)	Description: Rock Type	Mineralisation: SnO_2	Cy	Bo	Mineralisation	Sample Data	Assay % Sn.
0'·0"	?						No core						
?	54'·0"						Floaters. 3 Fgg / 6 Qtz-felspar + Cgg with 4 Greissen patches						
54'·0"	64'·0"		10'·0"			3'·2"	Floater. 1. Cgg + 2 areas of 3 Fgg / 6 Qtz-Felspar.						
64'·0"	76'·0"		12'·0"			1'·10"	Floater. 1. Cgg + 6 aplite / qtz-felspar patches.						
76'·0"	77'·6"		1'·6"			1'·0"	Bedrock Floater. 1. Cgg + 3 Fgg / greissen patch.						
77'·6"	85'·8"		8'·2"			7'·8"	1. Cgg · near 6 Qtz-F. in part						
85'·8"	86'·6"		10"	80° from horizontal axis		10"	6. Qtz-F / 3 F.g.g.					85'·0"–90'·0"	Nil
86'·6"	92'·3"		5'·9"			5'·3"	1. C.gg.					90'·0"–95'·0"	0·15
92'·3"	93'·2"		11"			11"	4. Greissen	c			One ¼" XL Mo	95'·0"–100'·0"	Tr
93'·2"	103'·0"		9'·10"			9'·10"	3. F.g.g / greissen + 4 Greissen patches · felspathic in parts.					100'·0"–105'·0"	Tr

226065 064

Hole No. 20(C) FOOTAGE: From 105'0" To 185'0"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING Recovery	DESCRIPTION			SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type.	Mineralisation.			% Sn
103'0"	109'0"		6'0"			6'0"	4 Greissen, nears.Fgg in parts	Sno, Cpy. Bo.		105'0"-110'0"	Nil.
109'0"	110'6"		1'6"			1'6"	3 F.g.g/greissen			110'0"-115'0"	0.20
110'6"	119'9"		9'3"			9'3"	3 F.g.g/greissen + porphyritic r Tr.p biotite crystals			115'0"-120'0"	Tr
119'9"	139'3"		19'6"			18'6"	3 F.g.g./greissen		Mo p at 220'	120'0"-125'0"	Nil
										125'0"-130'0"	Nil
										130'0"-135'0"	Nil
										135'0"-140'0"	Tr.
139'3"	140'3"		1'0"			1'0"	4. Greissen.	p-c p r		140'0"-145'0"	0.40
140'3"	148'3"		8'0"			8'0"	3. F.gg/greissen	p-Tr r-Tr		145'0"-150'0"	Nil
148'3"	151'7"		3'4"			3'4"	6. Qtz-Felspar			150'0"-155'0"	Nil
151'7"	173'0"		21'5"			21'2"	3 F.g.g/greissen	vr-Tr w-Tr	Tr Mo	155'0"-160'0"	Nil
										160'0"-165'0"	Nil
										165'0"-170'0"	Nil
										170'0"-175'0"	Nil
173'0"	175'8"		2'8"			2'8"	4. Greissen	p-Tr p	Fl-p-r. interstitial	175'0"-180'0"	Tr
175'8"	179'8"		4'0"			4'0"	3. F.g.g./greissen	p-Tr Tr		180'0"-185'0"	0.40
179'8"	180'8"		1'0"			1'0"	4. Greissen.	w-Tr			

226066

065

Hole No. 20 (C)

FOOTAGE: From 185'-0" To 222'-4"

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING / FOLIATION Angle To Core Axis	DESCRIPTION Rock Type.	Mineralisation. SnO_2	Cpy	Bo		SAMPLE DATA	ASSAY % Sn.
180'-8"	182'-8"		2'-0"			1'-2½"	3 F.g.g./greissen.	p-r					
182'-8"	203'-0"		10'-4"			9'-6½"	4. Greissen.	p-Tr	Tr		Fl-Tr-c. Mo-Tr.	185'-0"-190'-0"	0.35
												190'-0"-195'-0"	Tr
												195'-0"-200'-0"	Tr
203'-0"	206'-3"		3'-3"			3'-3"	3. F.g.g./greissen					200'-0"-205'-0"	0.25
206'-3	211'-9"		5'-6"			5'-6"	4. Greissen		Tr			205'-0"-210'-0"	Nil.
211'-9"	222'-4"		10'-7			10'-0"	3. F.g.g/greissen.					210'-0"-215'-0"	Nil.
												215'-0"-220'-0"	Nil.
												220'-0"-222'-4"	Nil.
							Standing water Level 92'-8" below collar.						

066

DIAMOND DRILL CORE RECORD.

Hole No. 20(C). Blue Tier, Anchor, Open Cut.
Coordinates 5400 N, 25300 E.
Commenced 22·11·65 Completed 2-12-65
Recovery, 66·6% Below 77'6" - 97%.
Collar R.L. 1134·00 Angle - 90°
Final Depth 222·4" Core Size. BX & AXT.

Detailed Log.

0-? ' No core
?'- 54·0' Floater(s) Rock very mixed, commences as a cross between 3.fg.g. & 6 Qtz felspar, & moves into 1 C.g.g, with 4. Greissen patches - felspathic in parts towards 54' becomes intermingled fine-medium grained granite, + qtz-felspar + aplite.
52?

54'0"-64'0" Floater(s). Only 3'2" core. 1. Pink. Cg granite + two areas of 2.fgg/6.Qtz felspar - bds from 54'0-54'6" and is basically 2.F.g.g, with a sharp but irregular junction with the Cg.g The others is a 2" patch with diffuse margins & is nearer 6 Qtz-felspar.

64'0"-76'-0" Floater(s). Only 1'10" core. 1 C.g.g pink, Fe stained as are all the above. Occasional b aplite/qtz felspar patches often with sharp marginal relationships, but irregular in general outline.

76'0"-77'6" Bedrock floater. Only 1' core. As above, with a 3" patch of 3 Fg.g/greissen with diffuse margins.

edrock → 77'6'-85'8" 1. Coarse grained granite.
To 80·3" containing patches and veinlets of Fg.g/gr.
Veinlets at 77'7", 2" wide, lower margin 80° to horizontal core axis. Also another at 79'11", 2" wide, margins 46° to h.c. axis, diffuse in detail.

* 80·3"-83·3" Lost 6". Pink. Around 83'3" is a 6. Qtz-felspar/Quartzose area whose marginal relationships are not visible.
83·3'-86·8". Pink.

85'8"-86'6" 6. Qtz felspar/3. Fg.g rock.
Both junctions 80° to h.c. axis. Diffuse in detail

86'6"-92'3" 1. Coarse grained granite
86'6"-89'3" Pink
* 89'3'-91'9" " Diffuse grains over final 3", lost final 6"

92'3"-93'2" 4. Greissen
92'3"-92'6" Quartz area, coarse grained + very large crystal of molybdenite - ½-½" diameter.
92'6"-92'9" Grades into fine siliceous dark green greissen. SnO_2 common and coarse near qtz/greissen interface. Greissen grades - quartzose area + greissen patches - SnO_2 r. in the greissen patches. Some pale yellow clay mineral present
92'9"-93'2' Greissen - dark.

93'2"-103·0' 3. Fine grained granite/greissen.
93'2"-95'5" Much biotite. Dark greissen + pegmatitic patches - all very irregular.
95'5"-97'0" As above, becoming green white in depth.
97'0"-100·0". Green-grey. Iron stained in parts. Two small ¼" Qtz-biotite veinlets. 20-30° to h.c.a. Also greissen patches.

067

100'-103'0". Green-grey. Pinking towards 102'. At 100'6" is a ¾' greissen veinlet, 35° to h.c.axis + SnO_2.
103'0"-105'0" Green grey, becoming felspathic, & grading into:-
103'0"-109'0" 4 Greissen.
105'0"-109'0" Grey-white. Near F.g.g/greissen in parts.
109'0"-110'6" 3 F.g.g/greissen.
109'0"-109'3" White grey. Bo.r.
109'3"-109'7" Increase in biotite. Dark.
109'7"-109'11" Decrease in biotite Pink
109'11"-110'2" Increase in biotite Dark.
110'2"-110'6" Decrease in biotite. Pink-white
110'6"-119'9" 3. F.g.g/greissen + porphyritic biotite crystals.
110'6" Medium grained. Qtz-felspar + large biotite crystals up to ¾" in diameter. Semi pegmatitic. Greissenised & quartzose in parts. One small siliceous patch at 111'8" contains coarse SnO_2. Rock texture shows a hieroglyphic effect.
At 114'0" is 2" patch with SnO_2 v.c, Cpy r. Other patches of r SnO_2, vr-r Cpy seen from 112'-115'0"
115'0"-117'9" SnO_2 common near greissen/Qtz patch at 115'4". Also cpy-p. Remainder has SnO_2 r-p vr. Becoma finer grained, with biotite less porphyritic and for 3" from 117'6" is normal F.g.g/greissen.
117'9"-119'9" Medium grained - broken
119'9"-139'3" 3 F.g.g/greissen.
119'9"-121'3" White-buff. At 220', is a 3" qtzose vein with a biotitic selvedge. Mo-p-c
121'3"-123'2" Buff white. Barren
123'2"-126'2" " "
126'2"-129'2" White buff. "
129'2"-135'0" " . Broken near 130"
* 135'0"-138'9" White. Lost 1', probably over last 1'.
138'9"-139'3" Slightly greissenised.
139'3"-140'3" 4 Greissen.
Dark. SnO_2 p-c. Cpy-p. Bo.r
140'3"-148'3" 3. F.g.g/greissen.
140'3"-141'9". Near greissen. SnO_2 p. Cpy-r.
141'9"-144'7" First 4" dark with coarse SnO_2 patch, ¾" sq. Cpy-r. Remainder is white buff. SnO_2 vr in a greissenised patch at 142'11" Cpy Vr.
144'7"-148'3" Near greissen at 146'. Near Qtz-felspar rock at 145'. due to loss of biotite. Grades to:-
148'3"-151'7" 5 Quartz-felspar rock.
148'3"-150'1" Occassional muscovite.
150'1"-153'7" Grades into
151'7"-173'0" 3. F.g.g/greissen.
151'7"-153'0" Often near greissen. SnO_2 Tr-vr. Cpy Tr-vr.
153'0"-155'10" Near Qtz-felspar for 2" at 154'3". Grades to 6" almost greisen with SnO_2, Tr-vr. Mo-Tr. Rest is white F.g.g/gr.
155'10"-158'10" White grey. Near Greissen over last 3"
158'10"-161'10" Tr cpy at 160'. White grey.
161'10"-164'10" White grey.
164'10"-167'8" Three ⅛" Qtz-biotite veinlets, 20° to h.c axis
* 155'10"-165'0" Lost 3'. probably at 155'10"
167'8"-170'8" White + greisen patches.
170'8"-173'0" Pink white, sharp grade? to
173'0"-175'8" 4 Greissen.

173'0"-173'8" Quartzose at 173'2" with SnO_2 p.
173'8"-175'8" Cpy-p.-common in parts where it often appears to pseudomorph biotite. FL-p-rare interstitial.

175'8"-179'8" 3. Fine grained granite/greissen
Pink. Gradational junction.
176'8"-179'8" White. SnO_2 p for 1" at 178'. Odd Tr cpy. Last 6" dark.

179'8"-180'8" 4 Greissen.
Trace SnO_2. Last 2" quartzose with v. common SnO_2

180'8"-182'8" 3. F.g.g./greissen
180'8"-182'8" With greissen patches. SnO_2 p-r in these patches. Suspect core loss at 182'6". Last 2" darker

182'8"-203'0" 4 Greissen.
* 182'8"-185'4" SnO_2 p-r. Tr MO. Dark.
185'4"-188'4" SnO_2 p. Grey white
* 188'4"-191'4" 2" grey white greissen, then break with suspected core loss. Followed by dark green-grey greissen. Green-buff mica. SnO_2 Tr-r. FL-Tr, purple. Some clay minerals-white. Junction of the two greissens is not visible.
191'4"-193'9" Grey-green greissen to 192'7". FL vc. in parts. Tr SnO_2. Then grads into grey white greisen as above. The last 2" of the green-grey rock is much finer grained, and grades sharply but irregularly into the grey white greissen. The latter has darker greissen patches. Tr-FL.
* At 193'9", the core block reads 195'4". Core blocks are absent from 165'- (or incorrect). Therefore 1'7" of core were lost between 165' & 195'4". Most likely points of loss are at 182'6" & 188'6", say 9" at each.
195'4"-198'0" Normal grey-greissen. Tr-cpy.
198'0"-201'0" Coarser, nearing grey-green. Tr SnO_2 < Cpy < FL.
201'0"-203'0" Grey. Merges to white f.g.g./gr. SnO_2 v.r.p. Cpy Tr.

203'0"-206'3" 3. Fine grained granite/greissen.
203'-203'3". White to 206'3". grades sharply, into subhorizontal junction.

206'3"-211'9" 4. Greissen
206'3"-207'8" Grey. Tr Cpy
207'8"-208'8" Dark green grey. Upper junction subhorizontal. Lower-30° approx to h.c axis-quartzose
208'8"-211'9" Grey. Barren. Diffuse graded 6" junction.

211'9"-222'4" 3. F.g.g./greissen
211'9"-213'6" With greissen patches.
213'6"-222'4" White, barren.
* 213'4"-222'4" Lost 7" core.

069

226070

Blue Tier, Anchor Area.

Diamond Drill Hole. No 20 C.

1134·00'

Visual Content SnO_2. Cpy. Bo. Fl. Mo. Py.

Assay. % Sn.

50'

Floaters see log.

100'

Vert Scale 1" = 20'

150'

220'

	Assay. % Sn.
	Nil.
	0·15.
	Tr.
	Tr.
	Nil.
	0·20.
	Tr.
	Nil.
	Nil.
	Nil.
	Tr.
	0·40.
	Nil.
	Nil.
	Nil.
	Nil.
	Nil.
	Nil.
	Tr.
	0·40.
	0·35.
	Tr.
	Tr.
	0·25.
	Nil.
	Nil.
	Nil.
	Nil.

1. Coarse grained granite. 6A. Qtz-Felspar/Fine grained granite. 6. Qtz-Felspar. 3. Fine grained granite/greisen. 4 Greisen.

226071 070

DIAMOND DRILL CORE RECORD

Hole Number No 21 (Q). Date Commenced ..... Completed ..... Collar R.L. 1197·50.
Area of Operation Blue Tier. Geological Logging by R.G. Taylor. Bearing of Hole .....
Location Anchor Open Cut. Core Recovery 78·7% (Below 41'-98·7%). Angle of Hole Vertical.
Co-ordinates of Collar 5200 N. - 25100 E.? Drilled by A.D.D. Final Depth 185'-2" Core Size AXT.

Ex. 62417 (D)

DRILL FOOTAGE From	DRILL FOOTAGE To	VEIN OR OTHER INTERSECTIONS Depth	Length	True Width	Angle To Core Axis	BEDDING Recovery Angle To Core Axis	DESCRIPTION Rock Type.	Mineralisation.	SAMPLE DATA	ASSAY %Sn.
								Sng, Cpy Bo.		
0'-0"	?						No core			
?	35'-6"		?			2'-10"	Floater. 1, Cgg/g.			
35'-6"	39'-0"		3'-6"			6"	Floater 1. Cgg/g.		not sampled.	
39'-0"	41'-0"		2'-0"			1'-1"	Bedrock Floater. 1. Cgg.			
41'-0"	113'-6"		72'-6"			71'-5"	1. Coarse grained granite	Tr Mo at 71'-7"	100'-0"- 105'-0"	Nil.
							± greisen patches & veinlets		105'-0"- 110'-0"	Nil.
							± Aplitic veinlets.		110'-0"- 115'-0"	Nil.
113'-6"	178-7"		65'-1"			64'-3"	3/2/6 Hybrid - varies from		115'-0"- 120'-0"	Nil.
							2Fgg/3Fg.g/g./6 Qtz-Felspar	Tr Fl at 140'	120'-0"- 125'-0"	Nil.
							± Greisen patches.		125'-0"- 130'-0"	Nil.
									130'-0"- 135'-0"	Nil.
									135'-0"- 140'-0"	Nil.
									140'-0"- 145'-0"	Nil.
									145'-0"- 150'-0"	Nil.
									150'-0"- 155'-0"	Nil.

226072

071

Hole No. 21 (Q).

FOOTAGE: From 155'-0" To 185'-2"

Ex. 62417 (D)

DRILL FOOTAGE		VEIN OR OTHER INTERSECTIONS				BEDDING Lavery.	DESCRIPTION	SAMPLE DATA	ASSAY
From	To	Depth	Length	True Width	Angle To Core Axis	Angle To Core Axis	Rock Type Mineralisation.		
								155'-0"- 160'-0"	Nil
								160'-0"- 165'-0"	Nil.
								165'-0"- 170'-0"	Nil.
								170'-0"- 175'-0"	Nil.
178'-7"	179'-6"		11"			11"		175'-0"- 180'-0"	Nil.
179'-6"	185'-2"		5'-8"			5'-8"		180'-0"- 185'-2".	Nil.
								185'-0"- 190'-0"	
								Ic	
							Standing water level 48'-2" below collar.		

226073

072

DIAMOND DRILL CORE RECORD.

Hole No. 21 (Q). Blue Tier Anchor Open Cut.
Co-ordinates:- 5800 N. 2570 0 N.
Commenced:- 23-11-65. Completed:- 1-12-65.
Recovery 78.7% (Below 41' 98.7%)
Collar R.L. ? Angle -90°
Final Depth 185'2" Core size BX & AXT.

Detailed Log.

0'0" - ? No core.
" ? - 35'6" Floater. 1. Coarse grained granite. BX. Fe stained in parts. Only 2'10" core.
" 35'6" - 39'0" Floater. Only 6" core 1. C.gg.
" 39'0" - 41'0" Bedrock Floater. Only 1ft core. 1. Cg.g + ¼" Aplo. qtz band - horizontal.
41'0" - 143'6" 1. Cg.g.
41'0" - 45'0" White - Fe stained. AX at 43'6". Rare greissenised joints
45'0" - 48'0" Fe stained, broken over 1st 6". White.
48'0" - 54'5" Greissen joints. At 50'8" 2½" & 2 - 1" aplite veins - one 60° to h.c.a, & one flat. White.
54'5" - 57'9" At 55'9" ¼" Quartzose veinlet, 3° to h.c.a
57'9" - 60'1" At 59'3" 2" Greissen - dark - slight pinking of felspars on each side. 45° to h.c.a.
At 59'8" 5" Aplite - felspathic selvedge. 45° margins.
" 60'1" - 64'2" Lost 4". Pink for 6". Then 2-3" Greissen patch. Then white. Pinking over last 6".
" 64'2" - 68'2" Lost 3". Pinking heavily. At 65'2" Greissen joint. Pinking fades by 68'2". Soft.
68'2" - 72'2" At 69'10" 3" aplite. Greissenised over 1st 1", 30-35° to h.c. axis. Upper margin diffuse, lower sharp.
At 70'6" 3" Greissen. Diffuse margins 40-45°
At 71'7" 7" Greissen. Tr Mo. Qtz vein at centre ¼". 40° to h.c.a. All margins diffuse.
Rest is all pink 1. c.g.g.
72'2" - 75'4" First 2" pink - then white, pinks 2" from 73'8". At latter 3" Greissen. At 73'11" is 4" Greissen, both 30-40° - altered joints. Rest is pink c.g.g.
75'4" - 77'11" first 6" pink, then white.
77'11" - 86'3" white c.g.g.
At 81'6" ¼" Aplo-greissen 50° to horizontal core axis.
At 82'6" Greissen patch. } NB - No pinking of
At 85'3" " } granite wall rock.?
86'3" - 89'3" White
89'3" - 95'4" " Kaolinised on joints.
" 95'4" - 99'0" Lost 3". White. At 98'6". 3'5" aplite - upper junction 45° to h.c.a. Granite pinks 6" prior to aplite.
99'0" - 101'6" Pink. At 101'. 1½" Greissen band
At 101'5" Aplite 60° h.c.a., continues till 102'.
102'0" - 107'6" Pink 1. cg.g.
" Note 99'0" - 109'0" Lost 3"
107'6" - 113'6" Pink cg.g. At 108'6" 1" Greissen, 45° to h.c.a.

113'-6"-178'-7" Hybrid. 2 Fgg/3 Fgg/gr/6 Qtz-Felspar ± Greissen patches. Hybrid rock. Unusual. Junction not seen. Very fine & diffuse grained. 3 Fgg/6 Q-felspar/6 Aplite intermixture. Often has sub aplitic texture. Pinkish
116'-3"-119'-3" Biotite rare in parts
119'-3"-122'-3" Same rock. basically Qtz-felspar muscovite ± altered biotite. Occassional green talcose patches. Pink. Best defined as: Fgg/3 Fgg/greissen/6 Qtz-felspar, + Greissenised patches & veinlets. Crystal outlines diffuse
122'-3"-125'-3" Pink. At 123'-9". ½" Greissen vein, pink selvedge 20° to h.c.a.
125'-3"-128'-0" Pink. At 125'-4" ½" Greisen, 70° to h.c.a.
128'-0-130'-0 " + Minor Greissen patches & veinlets. Near 130' is near Qtz-felspar
130'-0-133'-0" Pink. Minor greissen veinlets 70°. Q.felspar in parts.
133'-0"-135'-6" " . Mostly Q.felspar ± Greissen patches.
135'-6"-138'-6" "
138'-6"-141'-2" " 6 Q.Felspar/2 Fgg/3 Fgg/greissen. Tr-Fl on joint at 140'
141'-2"-147'-1" Pink 6 Q-Felspar + greenish talc + sericite: Greisen
147'-1"-150'-0" Basically pink Fgg/greissen/6 Q.felspar ± biotite ± Greissen patches. Near 6 Q-felspar in parts.
150'-0"-155'-0" As above. Several ½" Qtz-veinlets.
155'-0-167'-6" " . Shading white over last 1'.
167'-6"-173'-0" Lost 10". White Fgg/greissen + ½" sub horizontal greissen veins
173'-0"-176'-0" Pinking.
176'-0"-178'-0" Pink Fgg/gr + greissen patches, At 176'-0' ½" Q-vein + dark greissen selvedge. Last
178'-7"-179'-6" 4. Greissen
Junction not seen.
178'-7"-179'-6". Dark grey greissen, becoming white green. Grades around 179'-6" into
179'-6"-185'-2" 5 Fgg/greissen.
179'-6"-181'-6" White - pinks over last 6"
181'-6"-185'-2" Pink. ± biotite ± greissen patches.

226075

074

Blue Tier, Anchor Area.

Diamond Drill Hole No 21 (Q).

1197.5'.

Visual Content. SnO_2 Cpy Bo Fl Mo.

Assay % Sn.

Floaters.

50'.

100'.

Vert

50

Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.
Nil.

+ 1. Coarse grained granite // Hybrid. 2. Fgg/3. Fgg/gr/6 Qtz-Felspar + greissen fetches. 5 = Fine grained granite/greissen. = 4 Greissen.

075

APPENDIX 3

IMMEDIATE FUTURE PROGRAMME

				Approx. Footage
1.	Reorientation to allow exploration of the N.E. ore extension -			
	A. Original Holes:			
	(1) Complete deepening of Hole No. 19R			80'
	(2) Deepening of Hole No. 23D			120'
	(3) Deepening of Hole No. 21Q			120'
	(4) Drill Hole P			250'
	(5) Possibly Drill Hole E (depending upon results of the above)			250'
	B. New Holes:	Approx. Coords.		
	(6) Drill Hole GG	6100N	25700E	300'
	(7) Drill Hole HH	6100N	25500E	300'
	(8) Drill Hole II	6100N	25900E	300'
2.	Scout holes looking for additional orebodies:			
	(9) Drill DD relocated	5400N	24200E	200'
	(10) Drill EE relocated	5400N	23800E	200'
	(11) Drill BB (old grid)			150'
3.	Holes under completion on the original grid drilling pattern:			
	(12) Complete Hole No. 30W			150'
	(13) Complete Hole No. 31I			150'
(All Holes vertical)		Total		2,570'
	Plus footage to date			4,100'
	Total Programme Footage		Approx.	6,670'

Total footage estimate for original grid drilling programme (Mason and Morton, Blue Tier Rep. No. 3, 1965) -

7,200' + 1,000' Exigencies 8,200'

The above programme is to be regarded as flexible and will be kept under constant review by the supervising geologist.

R. G. TAYLOR,

2nd February, 1966.

9155

5 cm

100 50 0 100 200 300 400

SCALE OF FEET

Q33/0 66-423 / 66-413

226077

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

GEOLOGICAL PLAN ANCHOR OPEN CUT

LEGEND

Granite

Greisen

Geological contact

Ore as defined by drilling

Channel sample

Diamond Drill Hole

Bore Hole

Amended Nov. 1967

Prepared by: L.M. CORDNER of R. HARE AND ASSOCIATES

Drafting by: GEODRAFTING SERVICES

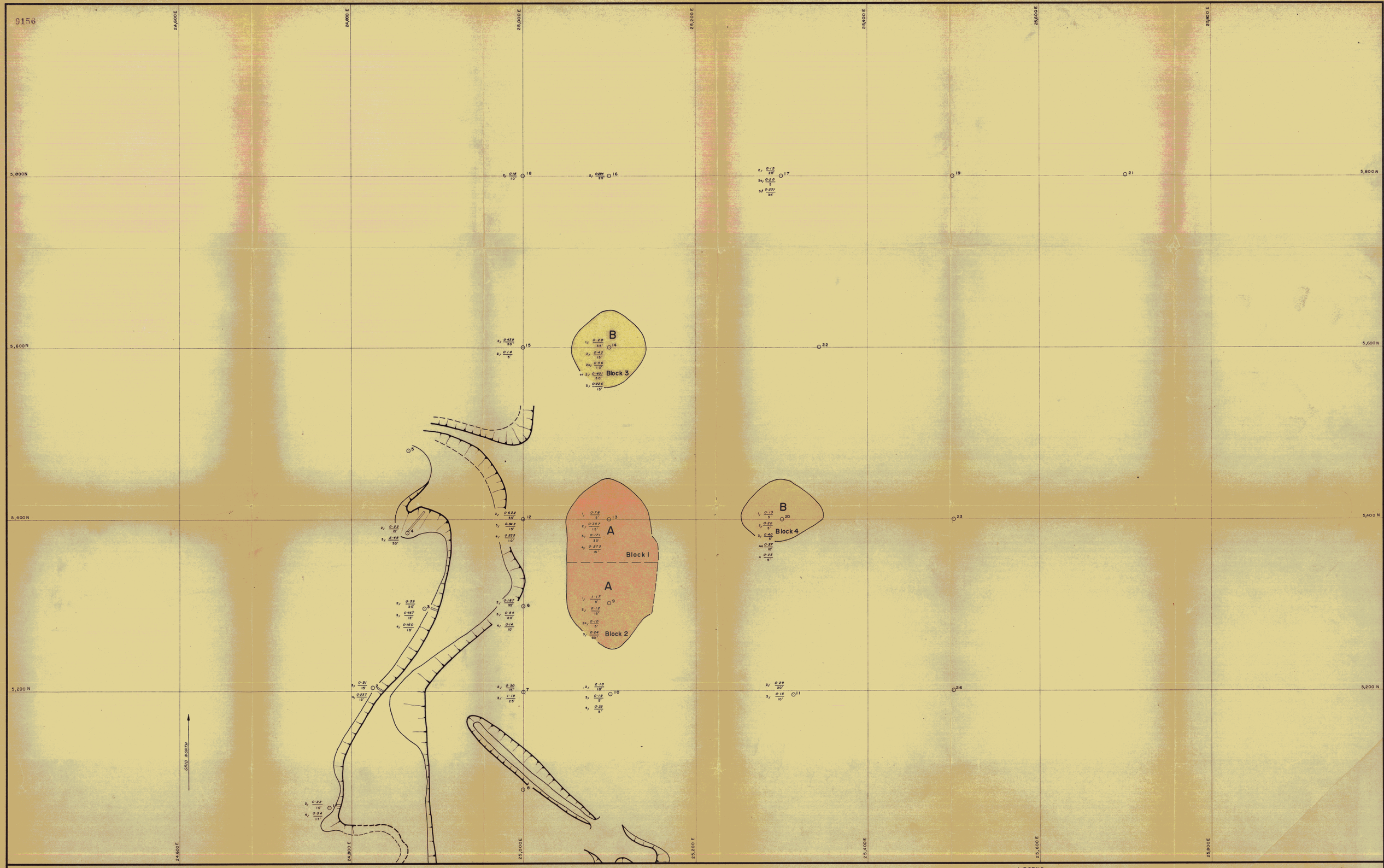
Date: June, 1965

4107

DRG No. A.137 — BT-001-G

66-413 + 66-423

9156



40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

PLAN OF ORE ZONE No I.

LEGEND

- 0.167 / 35' — 35' Averaged 0.167% Sn
- ⊙12 — Diamond drill holes
- Ore zone limits — unclosed along dotted line
- Ore zones: A — High grade block > 0.4% Sn; B — Low grade block < 0.4% Sn

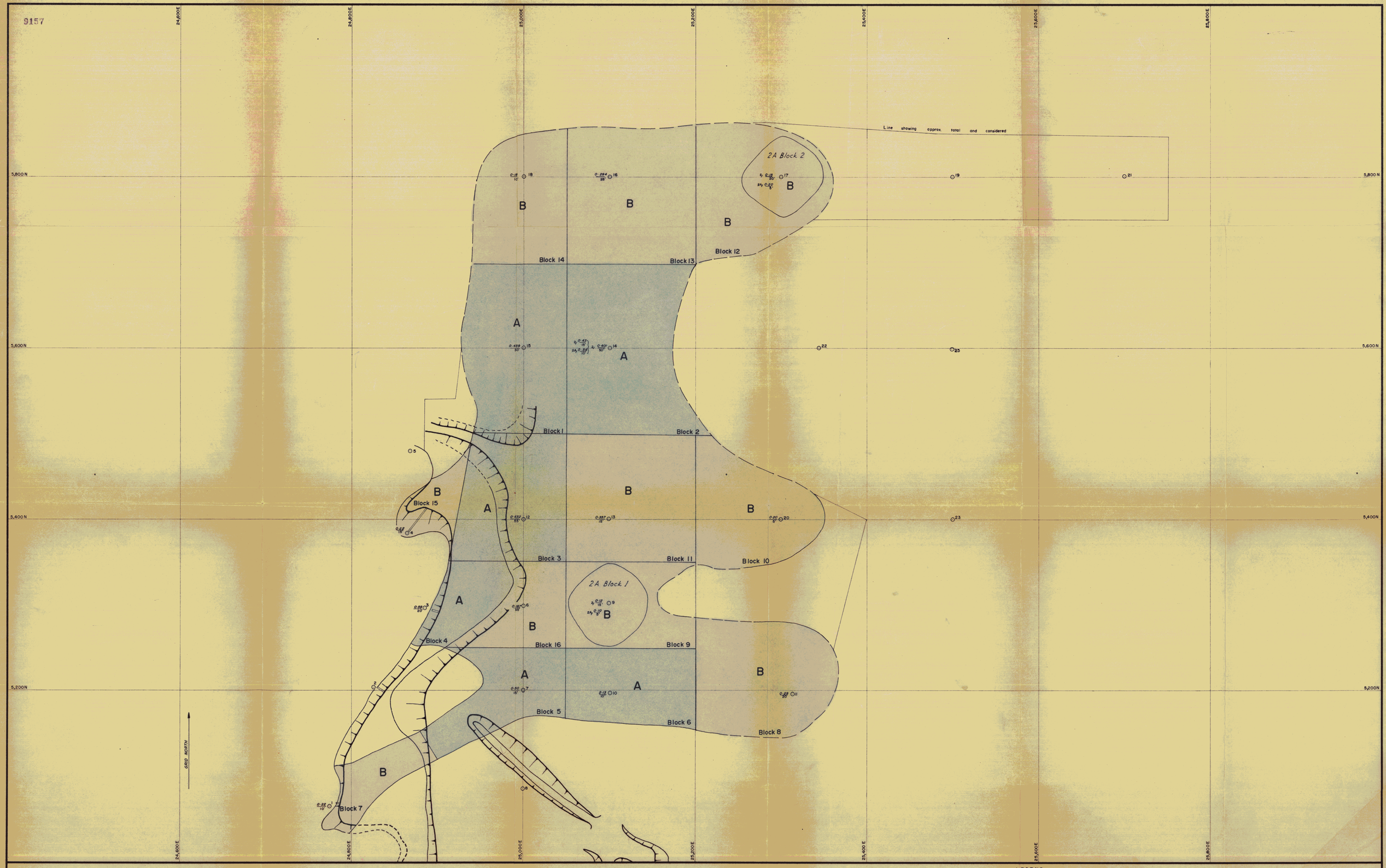
226075

SURVEY	–		– / /
GEOLOGY	–	R.G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	R.G. Taylor	– 10 / 1 / 66
TRACED	–	Geodrafting	– / /
REFERENCE	–	Report No 4.	10 / 1 / 66
PRINT No.	–		

DRAWING No. – BT-050-G

DRAWER: 033/D 66-423/66-413

9157



40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

PLAN OF ORE ZONE No.2

LEGEND

- 0.167 / 35' Averaged 0.167% Sn
- ○12 Diamond drill holes
- Ore zone limits — unclosed along dotted line
- Ore zones: A — High grade block > 0.4% Sn; B — Low grade block < 0.4% Sn

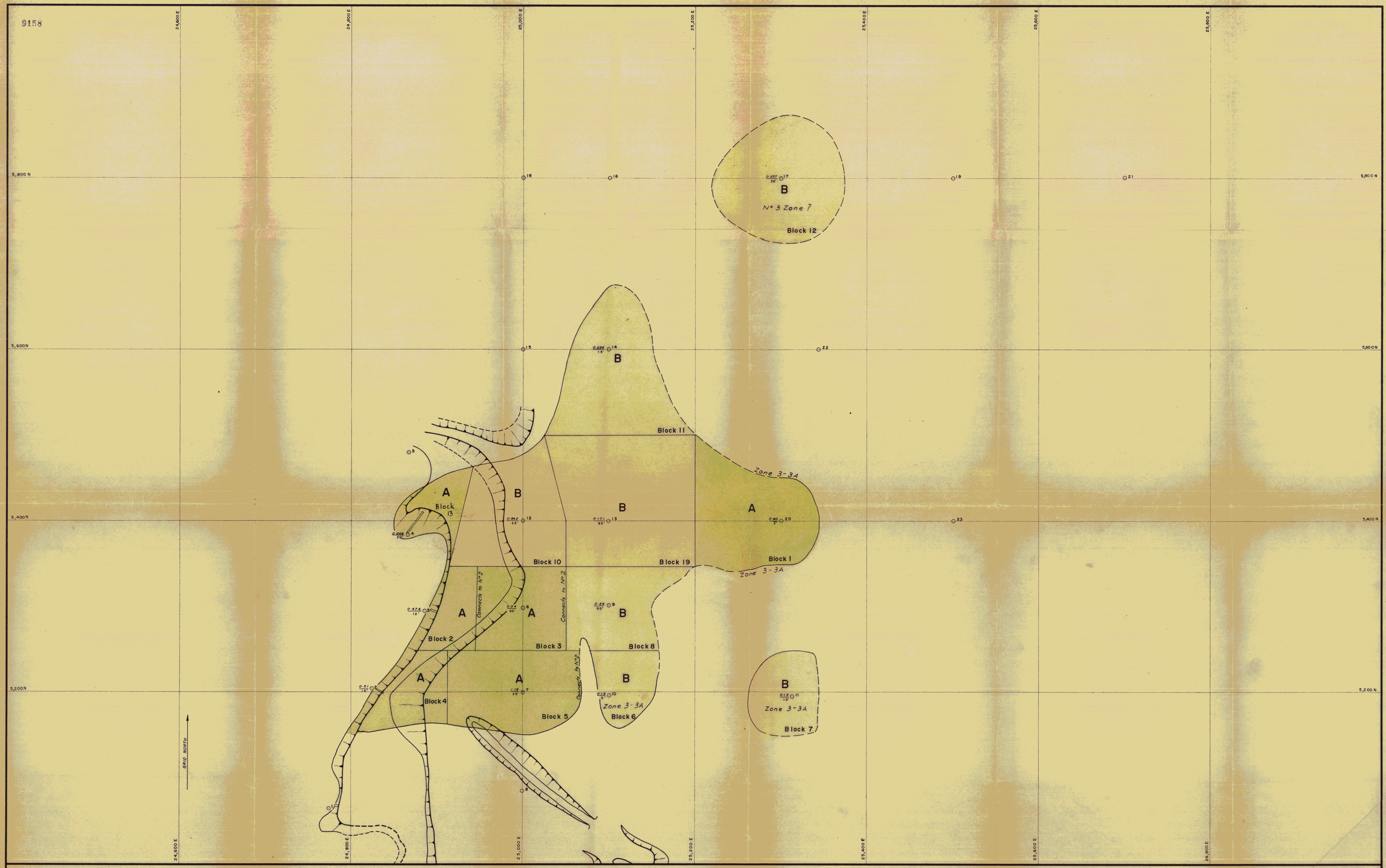
226679

SURVEY	–		– / /
GEOLOGY	–	R.G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	R.G. Taylor	– 12 / 1 /66
TRACED	–	Geodrafting	– / /
REFERENCE	–	Report No. 4	10 / 1 /66
PRINT No.	–		

DRAWING No.– BT - 051 - G

DRAWER: 66-413 + 66-423

9158



40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

PLAN OF ORE ZONE No3

LEGEND

- 0·167 / 35' — 35' Averaged 0·167% Sn
- ⊙12 — Diamond drill holes
- Ore zone limits — unclosed along dotted line
- Ore zones: A — High grade block > 0·4% Sn
- Ore zones: B — Low grade block < 0·4% Sn

226080

SURVEY	–	– / /
GEOLOGY	– R.G. Taylor	– 10 / 1 / 66
ENGINEERING	–	– / /
DRAWN	– R.G. Taylor	– 12 / 1 / 66
TRACED	– Geodrafting	– / /
REFERENCE	–	
PRINT No.	–	

DRAWING No. – BT-052-G

DRAWER: 66-413 × 66-423

24,600E 24,800E 25,000E 25,200E 25,400E 25,600E 25,800E

5,800N 5,600N 5,400N 5,200N

Block 9 — B
Block 7 — B
Block 8 — A
Block 4 — B
Block 5 — B
Block 1 — B
Block 6 — B
Block 3 — B
Block 2 — A
Block 10+11 — B

GRID NORTH

SCALE OF FEET: 40 0 40 80

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

PLAN OF ORE ZONE No.4

226681

LEGEND

- 0.167 / 35' Averaged 0.167% Sn.
- 12 Diamond drill holes
- Ore zone limits — unclosed along dotted line
- Ore zones: A — High grade block > 0.4% Sn.; B — Low grade block < 0.4% Sn.

SURVEY	–		– / /
GEOLOGY	–	R.G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	R.G. Taylor	– 13 / 1 / 66
TRACED	–	Geodrafting	– / /
REFERENCE	–	Report No. 4	10 / 1 / 66
PRINT No.	–		

DRAWING No.– BT – 053–G

DRAWER:

9160

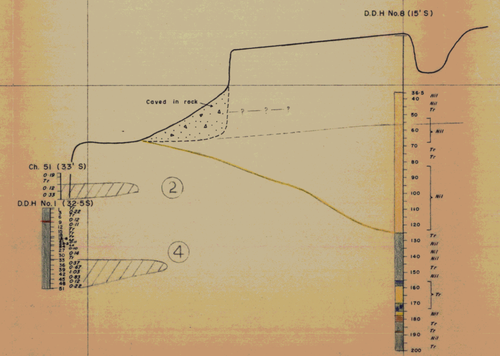
24,400E 24,600E 24,800E 25,000E 25,200E 25,400E 25,600E

RL 1200

RL 1000

RL 800

RL 600



226682

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5100 N – ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

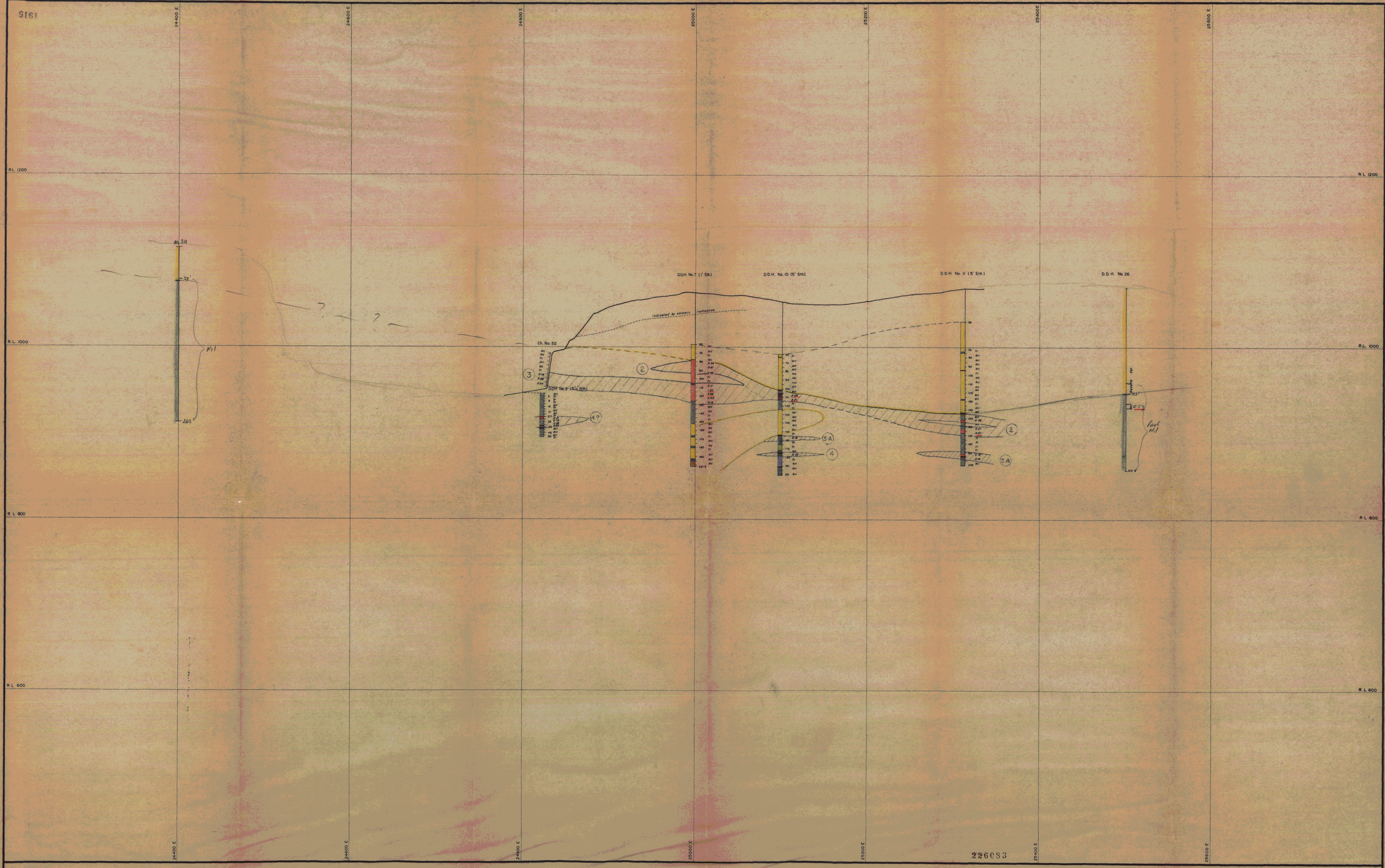
- Coarse granite
- Fine grained granite/greisenised
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- o/o % Sn

SURVEY	–	–	/ /
GEOLOGY	– R.G.Taylor	–	/ /
ENGINEERING	– R.G.Taylor &	–	/ /
DRAWN	– P.Van Amstel	–	22/2/65,2/1/66
TRACED	– Geodrafting	–	24/2/66
REFERENCE	– Report No.4		10/1/66
PRINT No.	–		

DRAWING No.– BT-32-G

DRAWER:

9161



226683

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5200 N – ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

- Coarse granite
- Fine grained granite / greisen
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- 0.18 % Sn

SURVEY	–	– / /
GEOLOGY	– R.G. Taylor	– / /
ENGINEERING	–	– / /
DRAWN	– R.G. Taylor	– 12 / 1 / 66
TRACED	– Geodrafting	– 18 / 2 / 66
REFERENCE	– Report No. 4	– 10 / 1 / 66
PRINT No.	–	

DRAWING No. – BT-33-G

DRAWER:

9162

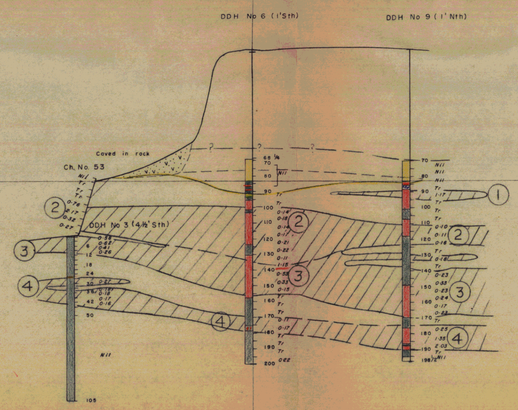
24,400 E | 24,600 E | 24,800 E | 25,000 E | 25,200 E | 25,400 E | 25,600 E

R.L. 1200

R.L. 1000

R.L. 800

R.L. 600



226084

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5300 N - ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

- Coarse granite
- Fine grained granite / greisen
- Greisen
- Pegmatite
- Quartz, Felspar or aplite
- % Su

40 0 40 80
SCALE OF FEET

5 cm

SURVEY	–	– / /
GEOLOGY	–	– / /
ENGINEERING	–	– / /
DRAWN	– P Van Amstel & R.G. Taylor	– 22/12/65
TRACED	–	– 7 / 1 / 66
REFERENCE	–	Geodrafting – 24 / 2 / 66
PRINT No.	–	

DRAWING No. – BT-34-G

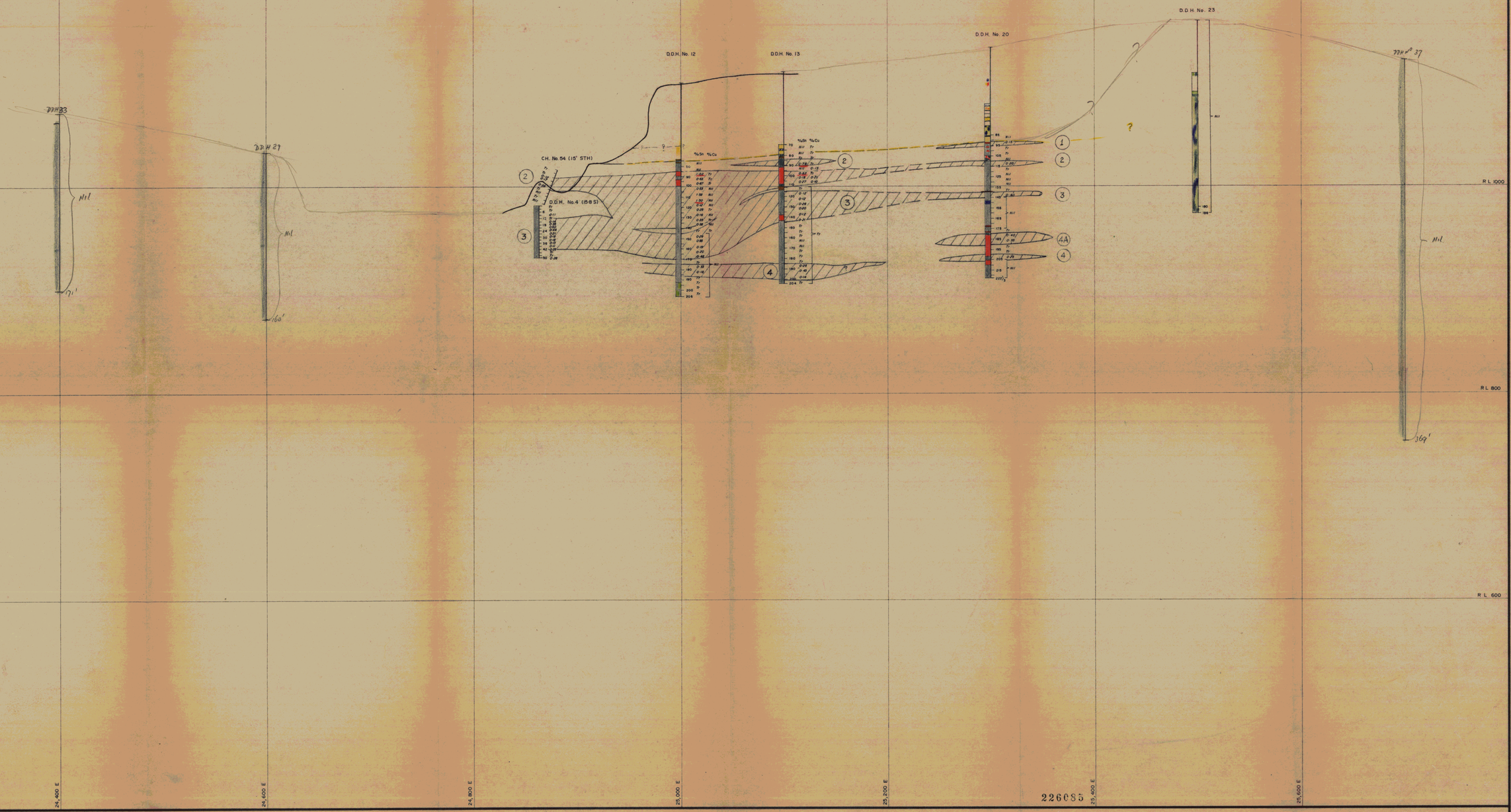
DRAWER:

Q3310 66-423 × 66-413

9163

24,400 E | 24,600 E | 24,800 E | 25,000 E | 25,200 E | 25,400 E | 25,600 E

R L 1200 | R L 1000 | R L 800 | R L 600



226085

SCALE OF FEET: 40 0 40 80 — 5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5400 N – ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

- Coarse granite
- Fine grained granite / greisen
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- %Sn
- %Cu

SURVEY	–	– / /
GEOLOGY	– R G Taylor	– / /
ENGINEERING	– R.G. Taylor &	– / /
DRAWN	– P. Van Amstel	– 8 / 1 / 66
TRACED	– Geodrafting	– 24 / 2 / 66
REFERENCE	– Report No. 4	– 10 / 1 / 66
PRINT No.	–	

DRAWING No.- BT-35-G

DRAWER:

9164

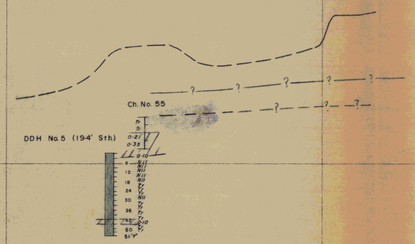
24,400 E | 24,600 E | 24,800 E | 25,000 E | 25,200 E | 25,400 E | 25,600 E

R.L. 1200

R.L. 1000

R.L. 800

R.L. 600



226686

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5500 N - ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

Fine grained granite/greisen

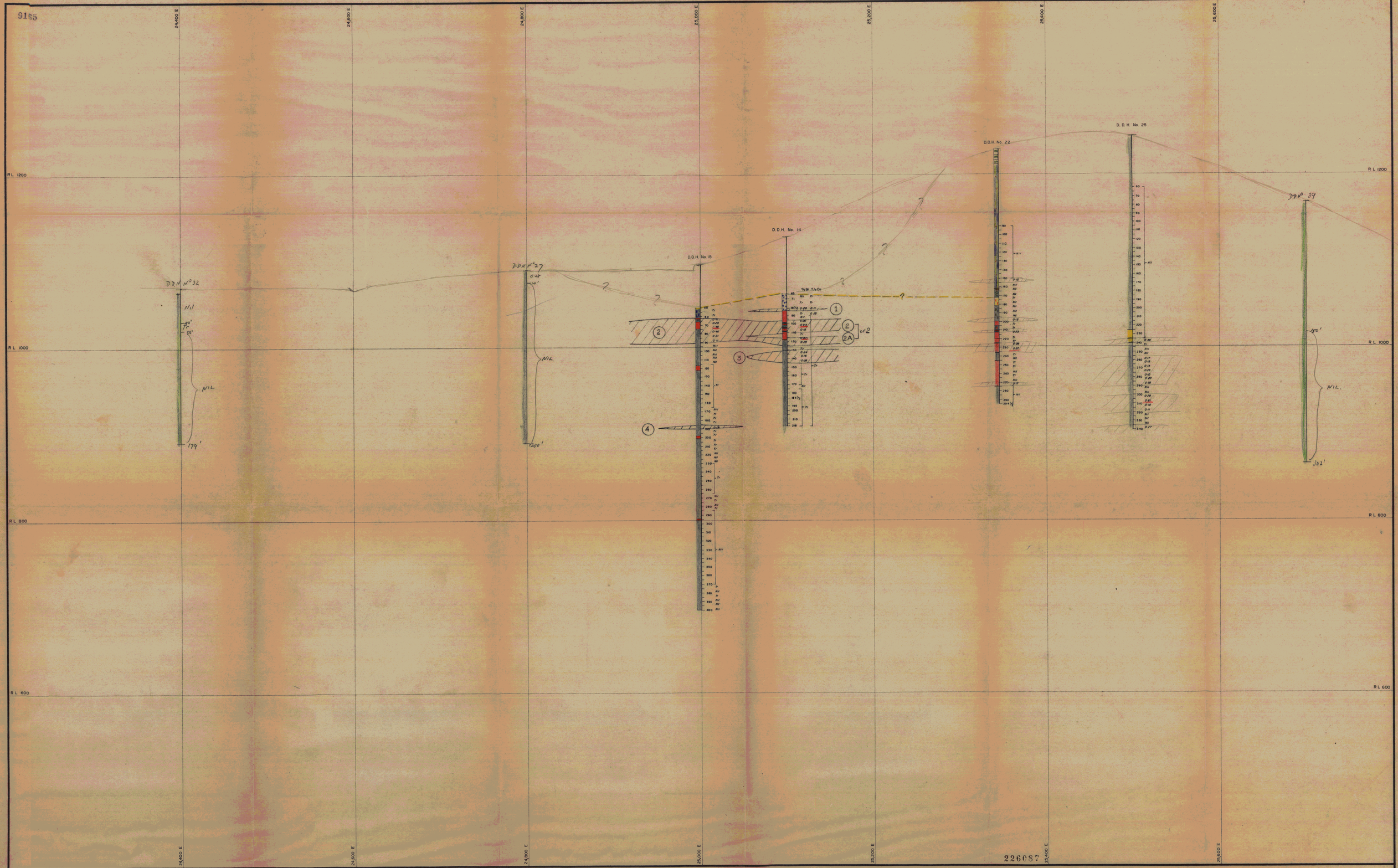
% Sn

SURVEY	–	– / /
GEOLOGY	–	– / /
ENGINEERING	–	– / /
DRAWN	– P Van Amstel	– 22/12/65
TRACED	– Geodrafting	– 24/2/66
REFERENCE	– Report No. 4.	
PRINT No.	–	

DRAWING No.– BT-36-G

DRAWER:

9165



226687

SCALE OF FEET: 40 0 40 80

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5600 N – ANCHOR OPEN CUT

LEGEND

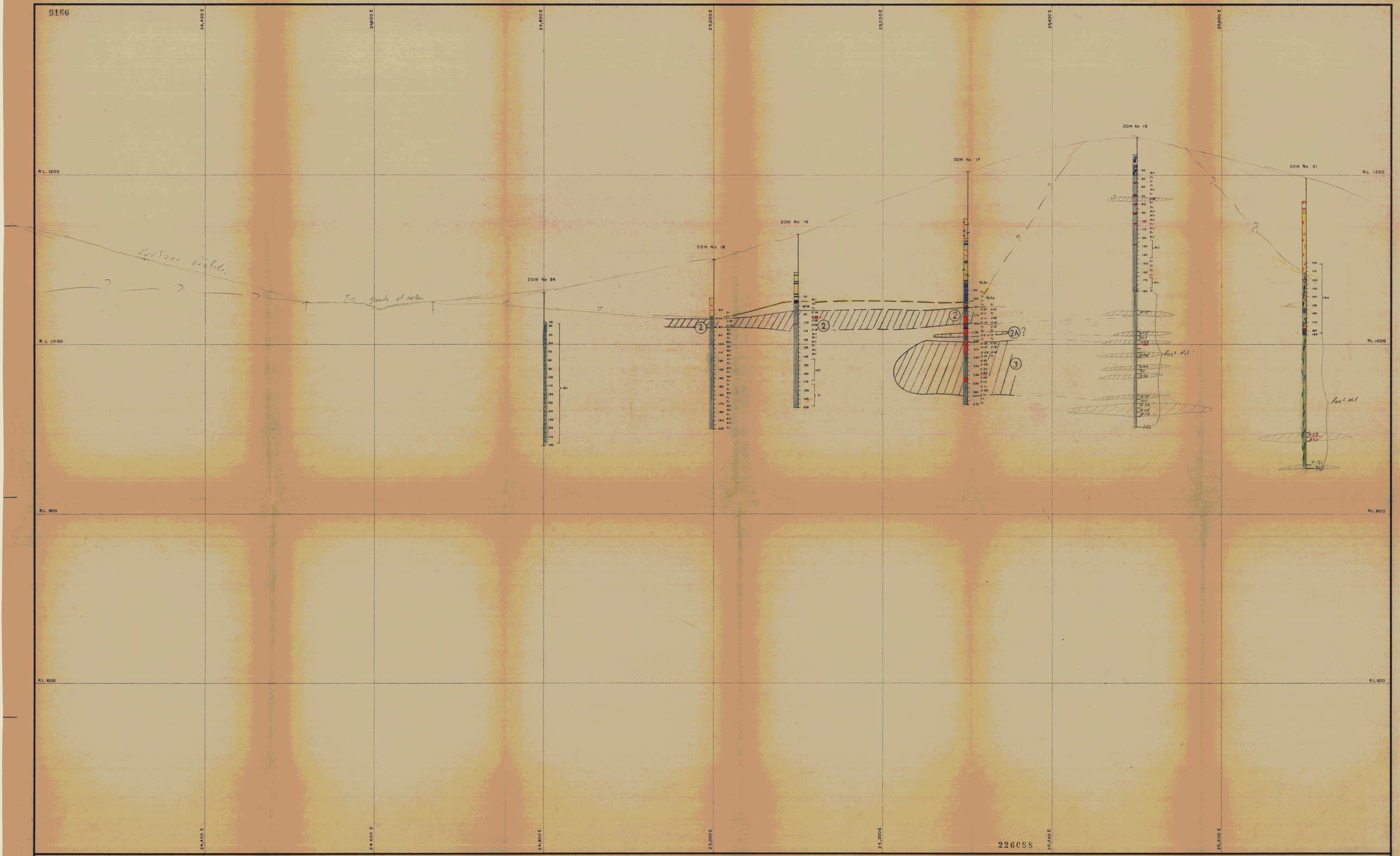
- Coarse granite
- Fine grained granite / greisen
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- % Sn
- % Cu

SURVEY	–		– / /
GEOLOGY	–	R.G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	P. Van Amstel	– 22 / 12 / 65
TRACED	–	Geodrafting	– 23 / 2 / 66
REFERENCE	–	Report No. 4	– 10 / 1 66
PRINT No.	–		

DRAWING No. – BT – 37 – G

DRAWER:

9166



40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

CROSS SECTION AT 5800 N-ANCHOR OPEN CUT

LOOKING NORTH

LEGEND

- Coarse granite
- Fine grained granite/greisenised
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- a-11 % Sn
- a-18 % Cu

SURVEY	–	– / /
GEOLOGY	–	– / /
ENGINEERING	–	– / /
DRAWN	– P. Van Amstel	– 7 / 1 / '66
TRACED	– R.G Taylor. Geodrafting	– / /
REFERENCE	–	
PRINT No.	–	

DRAWING No.- BT-38-G

DRAWER:

226088

9167

6200N 6000N 5800N 5600N 5400N 5200N 5000N

RL 1200

RL 1000

RL 800

RL 600

D.D.H No.24

D.D.H No.27

0.28

N71

D.D.H. No.2 (25·2'E)

D.D.H. No.1 (24½'W)

226089

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 24800 E — ANCHOR OPEN CUT

LOOKING EAST

LEGEND

Fine grained granite / greisen

Greisen

0·40 % Sn

SURVEY	—	— / /
GEOLOGY	— R.G. Taylor	— / /
ENGINEERING	— R.G. Taylor and	— / /
DRAWN	— P Van Amstel	— 6 / 1 / 66
TRACED	— Geodrafting	— 23 / 2 / 66
REFERENCE	— Report No.4	10 / 1 / 66
PRINT No.	—	

DRAWING No.— BT — 42 — G

DRAWER:

9168

6200 N | 6000 N | 5800 N | 5600 N | 5400 N | 5200 N | 5000 N

R L 1200

R L 1000

R L 800

R L 600

D.D.H. No.5 (31·8' W)

Not taken into account for ore reserves

D.D.H. No. 4 (35·2' W)

D.D.H. No.3 (13·8' W)

3

4

6200 N | 6000 N | 5800 N | 5600 N | 5400 | 5200 N | 5000 N

226090

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 24900 E — ANCHOR OPEN CUT

LOOKING EAST

LEGEND

- Fine grained granite / greisen
- Greisen
- o-o % Sn

SURVEY	–	–	/ /
GEOLOGY	– R. G. Taylor	–	/ /
ENGINEERING	– R. G. Taylor & P. Van Amstel	–	/ /
DRAWN	–	–	/ /
TRACED	– Geodrafting	–	23 / 2 / 66
REFERENCE	– Report No. 4		10 / 1 / 66
PRINT No.	–		

DRAWING No. – BT – 43 – G

Q33/0 66-423 + 66-413

DRAWER:

9169

6200 N | 6000 N | 5800 N | 5600 N | 5400 N | 5200 N | 5000 N

RL 1200

RL 1000

RL 800

RL 600

AM 30

D.D.H. No.18

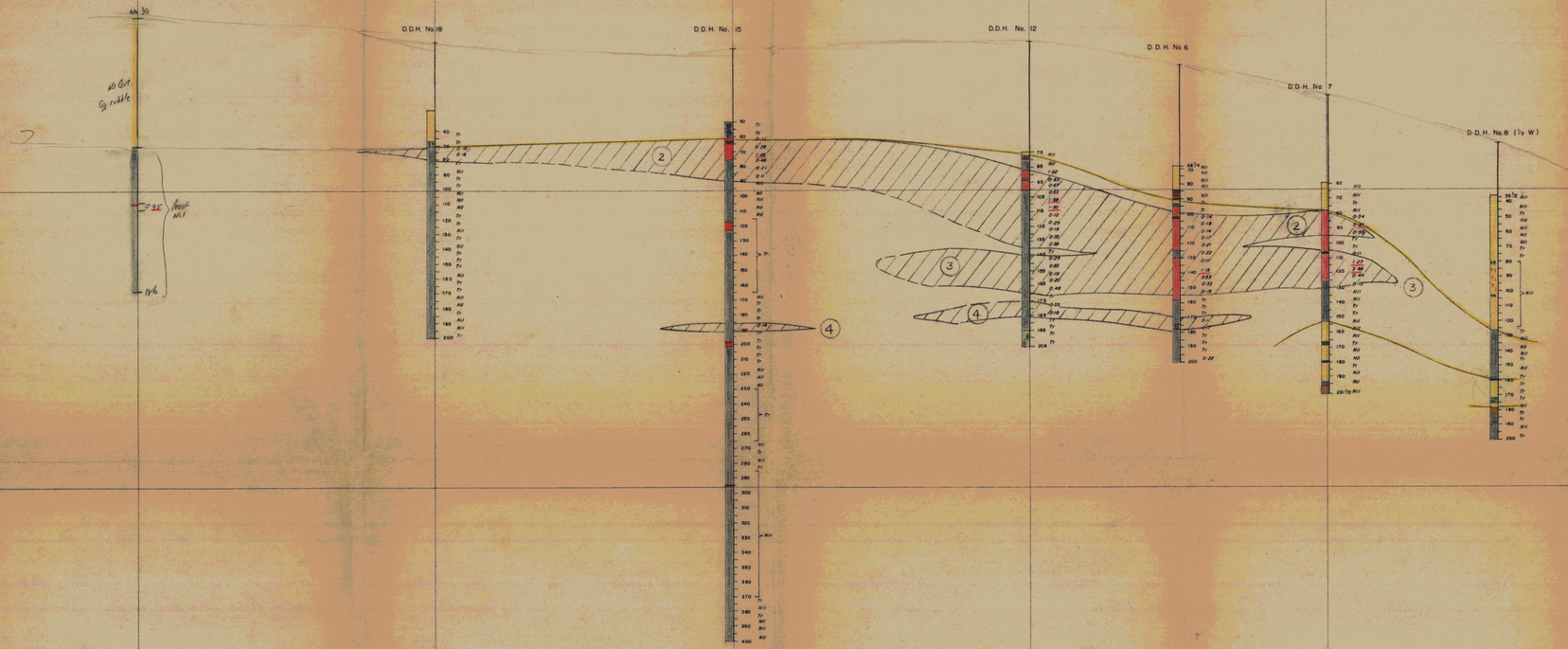
D.D.H. No. 15

D.D.H. No. 12

D.D.H. No. 6

D.D.H. No. 7

D.D.H. No.8 (1½ W)



226691

SCALE OF FEET

40 0 40 80

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 25000 E – ANCHOR OPEN CUT

LOOKING EAST

LEGEND

- Coarse biotite granite
- Quartz felspar – aplite
- Fine grained granite / greisen
- Greisen
- Pegmatite

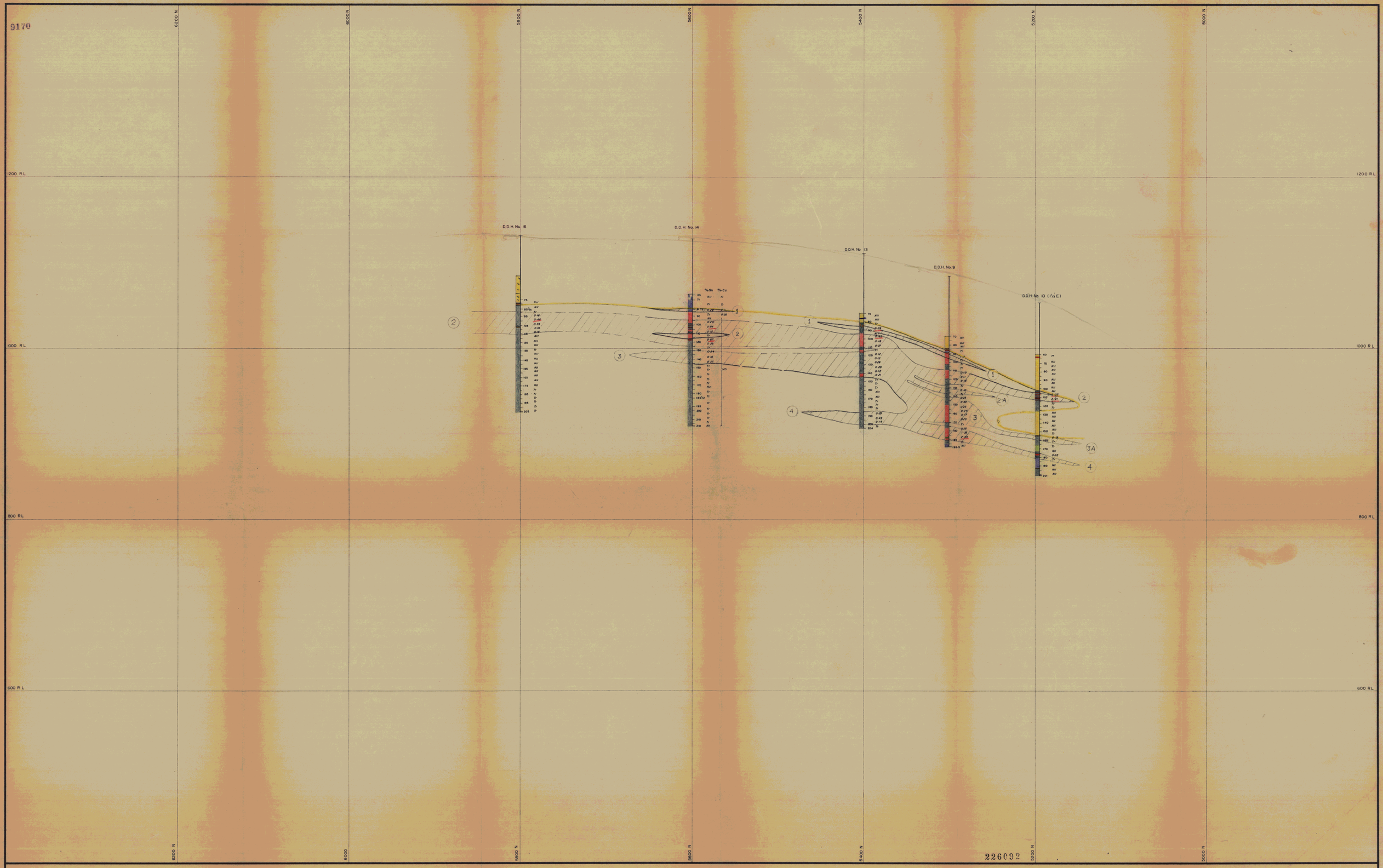
0·xx % Sn

SURVEY	–	– / /
GEOLOGY	– R. G. Taylor	– / /
ENGINEERING	–	– / /
DRAWN	– R.G. Taylor & P. Van Amstel	– 6 / 1 / 66
TRACED	– Geodrafting	– 22 / 2 / 66
REFERENCE	– Report No 4	10 / 1 / 66
PRINT No.	–	

DRAWING No. – BT – 44 – G

DRAWER:

9170



40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 25100 E – ANCHOR OPEN CUT

LOOKING EAST

LEGEND

- Coarse granite
- Fine grained granite /greisen
- Fine grained granite
- Greisen
- Pegmatite
- Quartz, felspar or aplite
- 0.00 % Sn
- 0.00 % Cu

226092

SURVEY	–		– / /
GEOLOGY	–	R. G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	R G Taylor & P Van Amstel	– 6 / 1 / 66
TRACED	–	Geodrafting	– 21 / 2 / 66
REFERENCE	–	Report No. 4	10 / 1 / 66
PRINT No.	–		

DRAWING No.– BT–45–G

DRAWER:

226093

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 25300E – ANCHOR OPEN CUT

LOOKING EAST

L E G E N D

[colour box]	Coarse granite	[colour box]	Pegmatite
[colour box]	Fine grained granite / greisen	[colour box]	Quartz, felspar or aplite
[colour box]	Fine grained granite	0·16	% Sn
[colour box]	Greisen	0·21	% Cu.

SURVEY	–	– / /
GEOLOGY	– R.G. Taylor	– / /
ENGINEERING	–	– / /
DRAWN	– R.G. Taylor & P. Van Amstel	– 6 / 1 /66
TRACED	– Geodrafting	– 23/ 2 /66
REFERENCE	– Report No. 4	10/ 1 /66
PRINT No.	–	

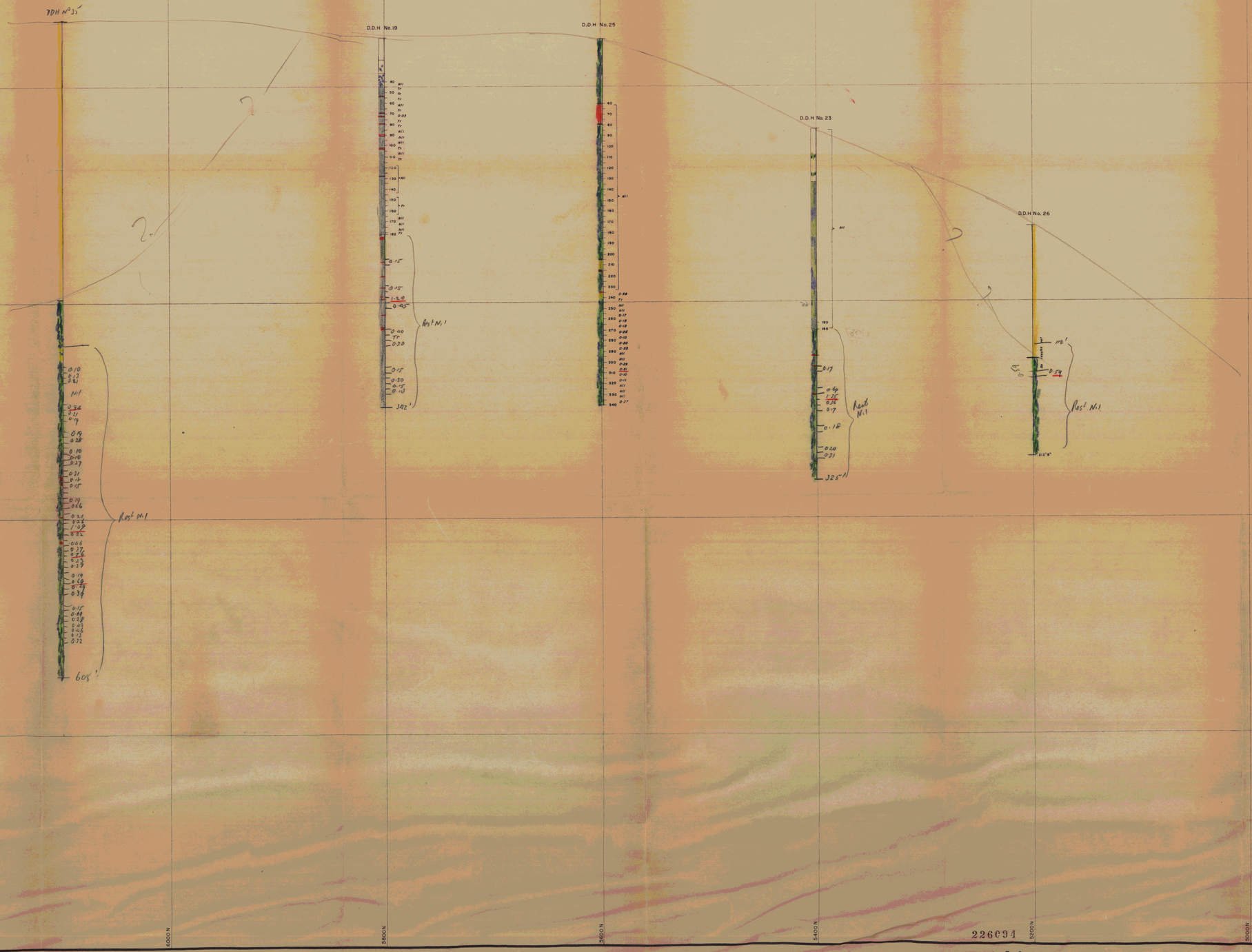
DRAWING No.– BT-46-G

DRAWER: Q33/10 66-423 + 66.413

9172

6200N 6000N 5800N 5600N 5400N 5200N 5000N

RL 1200 RL 1000 RL 800 RL 600



226694

L E G E N D

- Quarts, felspar rock and aplite
- Fine grained granite
- Fine grained granite/greisen
- Greisen

Mixed hybrid rock in D.D.H. 23

0.22 % Sn

40 0 40 80
SCALE OF FEET

5 cm

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL SECTION AT 25500E - ANCHOR OPEN CUT

LOOKING EAST

SURVEY	–		– / /
GEOLOGY	–	R.G. Taylor	– / /
ENGINEERING	–		– / /
DRAWN	–	R.G. Taylor & P. Van Amstel	– 6 / 1 / 66
TRACED	–	Geodrafting	– 24 / 2 / 66
REFERENCE	–	Report No.4	– 10 / 1 / 66
PRINT No.	–		

DRAWING No.- BT - 47 - G

DRAWER:

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

LONGITUDINAL CROSS SECTION AT 25700 E—ANCHOR OPEN CUT

LOOKING EAST

40 0 40 80
SCALE OF FEET

5 cm

LEGEND

- Coarse granite
- Hybrid rock { Fine grained granite greisen, Quartz, Felspar
- Greisen

SURVEY	–		– / /
GEOLOGY	–		– / /
ENGINEERING	–		– / /
DRAWN	–	P Van Amstel & R.G.Taylor	– 7 / 1 /'66
TRACED	–	Geodrafting	– 24 / 2 /'66
REFERENCE	–		
PRINT No.	–		

DRAWING No.– BT-48-G

Q33/10 66-423 + 66.413

DRAWER:

9174

226096

ABERFOYLE TIN DEVELOPMENT PARTNERSHIP

BLUE TIER TIN PROSPECT

SUBSURFACE CONTOUR PLAN OF CONTACT

BETWEEN COARSE GRAINED GRANITE & MINERALISED GREISEN

TOP CONTACT ONLY

40 0 40 80
SCALE OF FEET

5 cm

LEGEND

1030' — Contour Line

946' Spot Height R.L.

● 20 Drill Hole

SURVEY –		– / /
GEOLOGY –	R G Taylor	– / /
ENGINEERING –		– / /
DRAWN –	R.G Taylor	– 18 / 1 / 64
TRACED –	Geodrafting	– 17 / 2 / 66
REFERENCE –	Report No 4,	10 / 1 / 66
PRINT No. –		

DRAWING No.- BT-049-G

DRAWER. Q33/10 66-423 + 66-413