225001

T.A.P.G VENTURE NO. 5

SCAMANDER AREA, TASMANIA

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6. Air Photograph, St Helens Area

AMG REFERENCE POINTS ADDED

66-4114
225002

T.A.P.G. VENTURE NO.5

SCAMANDER AREA, TASMANIA

Area File SK 55.4

Progress Report for period 1 April - 30 June, 1965

MICROFILMED

Dated at Melbourne
7 July, 1965

Prepared by
Chapman, Wood, Griswold & Evans Pty.Ltd.

225003

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T.A.P.G. VENTURE N0.5

SCAMANDER AREA, TASMANIA

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Introduction

On the basis of geologic environment, indications of known mineralization, availability of mining tenament, location and anticipated expenditure, an area of approximately 100 square miles, near St.Helens, North Eastern Tasmania is designated as being amenable to a "Chapwold" exploration program.

Discussion with Tasmanian Mine's Department staff and preliminary ground reconnaissance was undertaken during May and June, 1965.

The subject area was "marked out" and the required notice was lodged with the St.Helens Mining Recorder on 21 June, the necessary public announcement was advertised on 26 June and an application for an Exploration Licence will be forwarded to the Director of Mines, Tasmania on 10 July.

The proposed exploration program is:-

Stage 1. Acquisition of an Exploration Licence for 97.75 square miles and determination of targets by air photo study and study of published data.

Estimated Cost $ U.S. 4,000
£ Aust. 1,900

Estimated Time from 1 July, 1965 - 11 weeks.

Stage 2. Field study of targets, principally by geochemical techniques.

Estimated Cost $ U.S. 8,500
£ Aust. 3,800

Estimated Time 8 weeks.

Stage 3 Detailed study of targets proven to warrant Stage 3 attention.

Estimated Cost per target $ U.S. 24,000
£ Aust. 10,700

Estimated Time per target 16 weeks.

Location

The 97.75 sq.mile area lies westerly from the coastal town St.Helens and the coastal hamlet Scamander, North Eastern Tasmania, embracing the northern watershed of the Scamander River and the southern watershed of the George River.

The terrain is steep with relief varying from 800 ft. to zero feet above sea level resulting from the action of young streams.

Tree cover is moderate to dense throughout the area. Except for alluvium in the major streams, soil cover is shallow say less than 1-2 ft.

Access to the area is via the Tasmanian East Coast Tasman Highway approximately 100 road miles from Launceston - 2½ hour drive from Launceston. Within the area old logging roads passable by 4 wheel drive vehicles allow reasonable access.

Good field crew accommodation is available in the towns of St.Helens and St.Mary's and the hamlet of Scamander say ½ - 1 hour drive from the area.

Climatically the area is agreeable - 30 inch annual rainfall-yearly temperature range say 35° - 90° F.

Geologic Considerations

Discussion with Tasmanian Mine's Department staff, study of published literature, and preliminary field examination show several mineral prospects - Sn, WO_3, Mo, Cu, Pb & Zn exist in the area.

The region has not been geologically mapped adequately, air photo coverage is available. A McPhar airborne E.M and Magnetometer survey over the area yielded two minor geophysical anomolies of low order significance.

Devonian granitic intrusives virtually surround the area to the South, West and North. The rock assemblage within the area are Mathinna Group (Silurian?) slates, sandstones and quartzite and outcrops of generally N.S. trending granitic intrusives. The sediments are presumed to represent a shallow roof pendant in an extensive intrusive mass.

Occurrences of mineralization known to C.W.G & E within the area are:-

Sn - Pyramid Hill - Cassiterite in quartzite requires study.

WO_3 - Wolfram Creek area - sporadic fissure vein occurrences - probably below economic significance.

WO_3 & MoS_2 - Constable Creek - at contact of quartzite and granite - warrants geochemical investigation.

Cu - Orieco Mine - fissure vein mined above water table some 50 years ago - probably below economic significance.

Pb, Zn (Sn?) - Scamander Tier - new discovery - possibly fissure vein with off shoots in quartzite near granite - Gossan traceable over 1,000 ft. strike length - warrants investigation.

The Sn prospect on Pyramid Hill is held by others in a 2 sq.mile Special Prospecting Lease. Until recently this lease was optioned to Broken Hill Proprietary Limited. B.H.P relinquished its option following some 2,000 - 5,000 ft. of surface percussion drilling - the results of this drilling are presently unknown to C.W.G & E. Verbal agreement has been reached with the holders of this lease, that Austminex will take

an option on the property, provided the surrounding Special Exploration Licence is granted. The proposed terms of the option are 12 months free examination followed by an outright purchase for £10,000 at the end of this period.

The operating Sn, WO_3 underground fissure vein mining operations of Aberfoyle Tin Limited at Rossarden and Storey's Creek are some 20 miles south westerly from the area and occur in a geologic setting identical to that of the subject area.

Exploration Program

Outline

The proposed program is in accord with the group's Canadian exploration practice:-

Stage 1

(a) Study all available geologic data.

(b) Conduct a photo geologic study to select field targets within the area.

Stage 2

(a) Carry out a field reconn aissance of the area with geochemical assessment of the selected field targets.

(b) Study the field reconnaissance data and geochemical results to determine the approach and extent of detailed examination of specific targets.

Stage 3

Targets determined to warrant follow up will be subjected to the following procedures, depending on the logistics of the particular target:

(a) Close grid soil and/or rock sampling.

(b) Detailed geological mapping.

(c) Geophysical surveys.

(d) Road building.

(e) Trenching and blasting.

(f) Sampling and assaying.

(g) Exploratory sub surface drilling.

Summary of Estimates of Expenditure & Time Schedule

Stage 1	$ U.S	£ Aust.	Time Weeks
Determination of Targets, assume 4 targets determined.	4,000	1,900	11
Stage 2 Field Check & Assessment of 4 targets	8,500	3,800	8
Total Stages 1 & 2	12,500	5,700	19
Stage 3 Detailed examination per target	24,000	10,700	16

Estimate of Expenditures and Time Schedule

Stage 1 Item	Amount $ U.S.	
Preliminary investigation & cost of S.P.L.		
Field expense & travel	400	
S.P.L.Application	100	
Services of C.W.G & E (covered by retainer)	1,800	
Initial purchase of Air Photos 120 sq.miles @ 50 ¢ /sq.mile	60	
Identification of Air Photo Targets 3 weeks @ $400/wk (covered by C.W.G & E retainer)	1,200	
Contingencies @ 15%	440	
Total Estimated Cost Stage 1	$ 4,000	£Aust. 1,900

Time Required from 1st July.

Issuance of S.P.L	4 weeks
Receipt of Air Photos	3 weeks
Photo Interpretation	4 weeks
Total Time Stage 1	11 weeks

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Stage 2

Based on assumption that 4 targets are selected for study.

Item		Amount $ U.S.		
Field Preparation				
Photo Kits 4 @ $50		200		
Geologist 2 weeks		400		
Geochem technician 2 weeks		250	850	
Field Program				
4 targets @ 5 days per target = 20 days @ $140/crew day		2,800		
Labour	$70/day			
Board	$20			
Rentals:				
Vehicles	$30			
Geochem	$10			
Mix Supplies	$10	$140		
Prospector 6 weeks @ £25/wk		350	3,150	
Office Assessment				
10 days @ $80/day			800	
Supervision (covered by C.W.G & E retainer)			2,000	
Travel Expense			500	
Contingencies @ 15% (approx)			1,200	
Total Estimated Cost Stage 2			$ 8,500	£Aust. 3,800

Time Required Stage 2:

Preparation of photo kits each target) Preparation of geochem kits)	2 weeks
Field Work	4 weeks
Office Assessment of data	2 weeks
Total Estimated Time Stage 2	8 weeks

010

Stage 3

Estimated cost per target which proves up to warrant follow up.

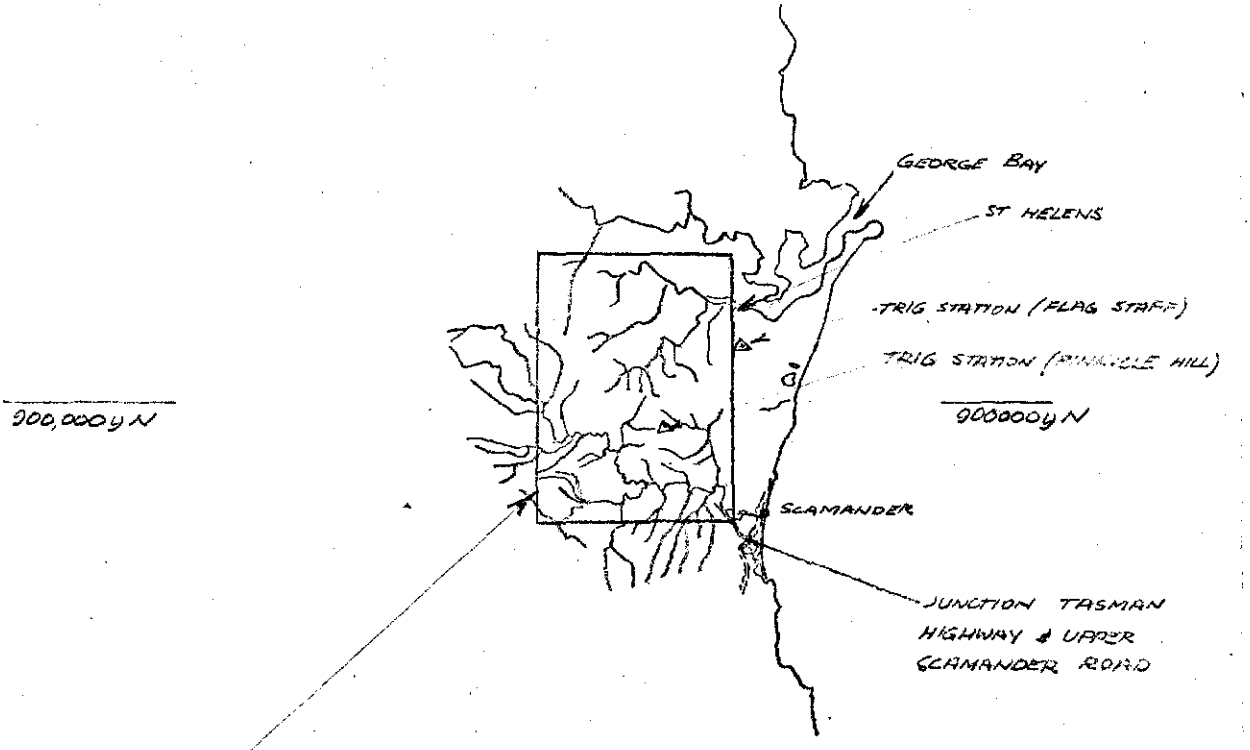
Item		Amount $ U.S	
Detailed field geology and geochem 3 man crew for 4 weeks @ $140/crew day		2,800	
Field geophysics 1 week		3,200	
Road building by contractor 1 week		1,000	
Trenching & Blasting= 2 weeks			
Labour 2 men @ $16/day	384		
Supplies @ $10/day	120		
Drill @ $10/day	120		
Bulldozing $ 150/day	1,800	2,400	
Sampling & Assaying		400	
Sub surface drilling equiv.to percussion drilling 2,000 ft. @ $2.50/ft		5,000	
Travel & Communications		1,500	
Office Assessment 4 weeks @ $80/day		1,600	
Supervision(covered by C.W.G & E retainer) 1/3rd 8 weeks		3,000	
Contingencies @ 15%		3,100	
Total Estimated cost per Stage 3 Target		$24,000	£Aust.10,700

Time Required per Target Stage 3	
Detailed field geology & geochem	4 weeks
Geophysics	1 week
Road Building	1 week
Trenching & Blasting	2 weeks
Drilling	4 weeks
Office Assessment	4 weeks
Time per target	16 weeks

225013

011

600,000y E



REQUIRED EXPLORATION LICENCE - AREA 97·75 SQ. MILES

STH. EAST CORNER ON EAST SIDE OF UPPER SCAMANDER ROAD, ONE ROAD MILE FROM JUNCTION UPPER SCAMANDER ROAD AND TASMAN HIGHWAY

STH. WEST CNR 8·5 MILES DUE WEST FROM STH EAST CNR

NTH. WEST CNR. 11·5 MILES DUE NORTH FROM STH. WEST CNR.

NTH EAST CNR 8·5 MILES DUE EAST FROM NTH WEST CNR.

600,000y E

LOCATION MAP TAPS VENTURE No5.

SCAMANDER AREA

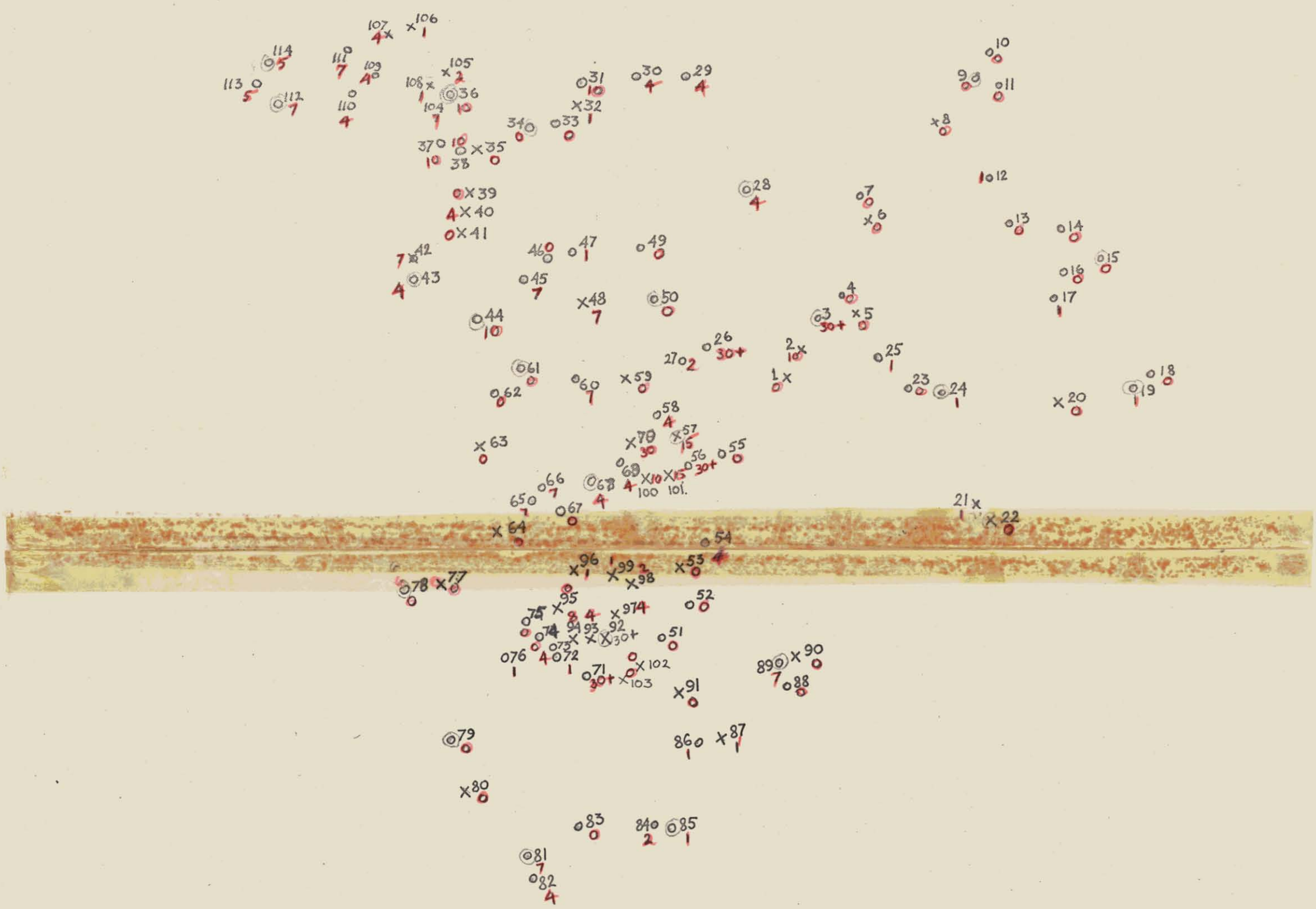
TASMANIA

SCALE 1:500,000

J.S.- 6 JULY 65

5 cm

012



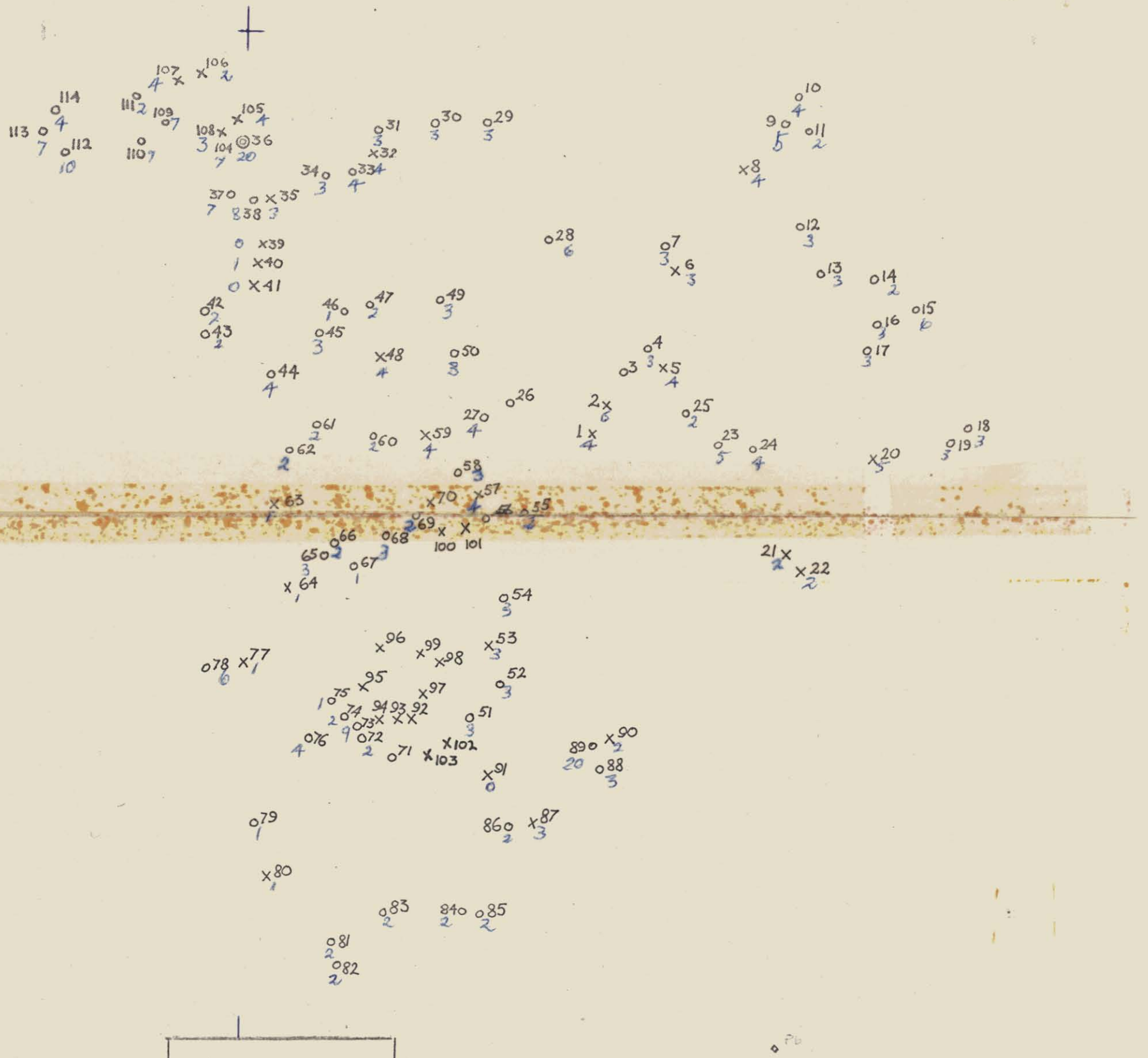
225014 66-414

1. Cx BIQUINOLINE Cu ASSAYS

CRAMPS CREEK PHOTO TARGET

PHOTO - TAS - 25794 RUN 6.

104



225015 66-414

2. THM DITHIZONE ASSAYS

TAS 25794 RUN 6

66-414

225016

AUSTMINEX 613

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project ARGONAUT TARGET

Method data CxTHM, CxZn, CxCu Bigwin., Mo(Carb fusion) Analyst B. TREGELLAS Date: 4-11-'65

Sample No.	Remarks	Soil	Drain Sediment Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm.	Sn	Ni	Hg	
A 1		✓						2	0								
A 2			✓					2	0								
A 3		✓						3	0				<1				
A 4		✓						3	0								
A 5		✓						3	0								
A 6		✓						3	0								
A 7		✓						2	0								
A 8			✓					2	0				2				
A 9			✓					2	0								
A 10		✓						2	0								
A 11			✓					2	0								
A 12			✓					2	0								
A 13		✓						2	0								
A 14		✓						3	0								
A 15		✓						2	0								
A 16		✓						3	0								
A 17		✓							4		2						
A 18			✓						0		3						
A 19		✓							0		2						
A 20			✓						1		2						
A 21			✓						0		2						
A 22		✓							0		2						
A 23			✓						1		2						

1.

225017

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

014

Samples submitted by J ERDMANIS. Project ARGONAUT.

Method data Cu THM, Zn, Cu Bignin; Mo (Carb. fusion) Analyst B TREGELLAS Date: 4-11-65.

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
A 24			✓						0		2						
A 25			✓						0		2						
A 26			✓						0		2						
A 27			✓						1		2						
A 28			✓						0		2						
A 29			✓						0		3						
A 30		✓							0		1						
A 31			✓						0		3						
A 32		✓							1		2		<1				
A 33			✓						0		2						
A 34			✓						0		3						
A 35			✓						0		3						
A 36		✓							0		1						
A 37		✓							0		2						
A 38		✓							0		2						
~~A 39~~																	
~~A 40~~																	

2

225018

015

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J ERDMANIS. Project ARM CK TARGET

Method data Cx Cu Biquin Cx THM. Mo(Carb fusion) Analyst B. TREGELLAS. Date: 10-11-65

Sample No.	Remarks	Soil	Drain. Silt Simple	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
Ac 1			✓					7	15								
Ac 2		✓						7	5								
Ac 3			✓					5	4								
Ac 4			✓					5	4								
Ac 5			✓					5	7								
Ac 6			✓					3	7								
Ac 7			✓					3	0								
Ac 8		✓						6	2								
Ac 9		✓						5	2								
Ac 10			✓					7	15								
Ac 11		✓						4	2								
Ac 12			✓					3	0								
Ac 13		✓						4	0								
Ac 14			✓					3	1								
Ac 15			✓					10	2				<1				
Ac 16			✓					3	10								
Ac 17			✓					7	20								
Ac 18		✓						4	15								
Ac 19		✓						3	0								
Ac 20			✓					4	0								
Ac 21		✓						4	0								
Ac 22			✓					4	0								
Ac 23			✓					3	0								

3

225019

016

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project ARM Ck. TARGET.

Method data Cx Cu Bigum., Cx THM, Mo(Carb fusion). Analyst B. TREGELLAS. Date: 10-11-65.

Sample No.	Remarks	Soil	Drain. Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
Ac 24			✓					7	0								
Ac 25		✓						7	0								
Ac 26			✓					3	0								
Ac 27		✓						3	0								
Ac 28		✓						3	0								
Ac 29		✓						4	0								
Ac 30			✓					3	0								
Ac 31			✓					3	0								
Ac 32		✓						3	0								
Ac 33		✓						4	0								
Ac 34		✓						3	0								
Ac 35			✓					64	0								
Ac 36		✓						10	0								
Ac 37			✓					4	0								
Ac 38		✓						30	1								
Ac 39		✓	✓					4	1								
Ac 40			✓					4	4								
Ac 41		✓						3	0								
Ac 42			✓					20	1				2				
Ac 43			✓					5	0								
Ac 44			✓					3	0								
Ac 45			✓					7	0								
Ac 46			✓					6	0								

4

225020 017

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project ARM CK. TARGET

Method data Cx Cu Bignell. Cx THM Mo (Carb-fusion) Analyst B. TREGELLAS. Date: 10-11-65.

Sample No.	Remarks	Soil	Dam Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm.	Sn	Ni	Hg	
Ac 47			✓					4	0								
Ac 48		✓						7	2				3				
Ac 49			✓					3	0								
Ac 50		✓						7	0								
Ac 51			✓					5	7								
Ac 52			✓					4	7								
Ac 53			✓					18	5								
Ac 54		✓						3	15								
Ac 55		✓						3	0								
Ac 56		✓						2	0								
Ac 57		✓						3	0								
Ac 58		✓						4	0								
Ac 59		✓						2	1								
Ac 60		✓						2	0								
~~Ac 61~~		—	—					—	—								
Ac 62			✓					2	1								
Ac 63			✓					4	4								
Ac 64			✓					3	2								
Ac 65			✓					7	7								
Ac 66			✓					3	7								
Ac 67			✓					7	7								
Ac 68			✓					20	20+								
Ac 69		✓						7	20								

5

225021 018

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project ARM. CK. TARGET

Method data Cx Cu. Bigwin. Cx THM. Analyst B. TREGALLAS Date: 30 - 11 - 6s

Sample No.	Remarks	Soil	Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
AC 70		✓						20	7								
AC 71			✓					7	7								
AC 72			✓					3	1								
AC 73			✓					2	0								
AC 74			✓					4	7								
AC 75		✓						3	0								
AC 76			✓					5	20+								
AC 77			✓					3	7								
AC 78	CHECK OUT SAMPLES		✓					3	4								
AC 79	↓	✓						5	1								
AC 80		✓						3	1								
AC 81		✓						4	2								
AC 82		✓						2	0								
AC 83		✓						1	1								
AC 84		✓						2	0								
AC 85		✓						10	4								
AC 86		✓						3	2								
AC 87		✓						2	1								
AC 88		✓						1	2								
AC 89		✓						2	0								
AC 90			✓					4	4								
AC 91			✓					4	0								
AC 92			✓					3	0								

6

225022

019

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project ARM. CK. TARGET.

Method data Cx Cu. Bqmin, Cx THM. Analyst B. TREGELLAS. Date: 30-11-65

Sample No.	Remarks	Soil	Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
AC 93			/					4	0								
AC 94			/					3	1								
AC 95			/					10	5								
AC 96			/					6	2								
AC 97			/					10	2								
AC 98			/					6	7								
AC 99			/					20	4								
AC 100			/					7	2								
AC 101			/					2	0								
AC 102			/					4.	—								

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225023

020

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project AVENUE TARGET

Method data Cx Cu Biquin., CxZn., (Mo Carb. fusion) Analyst B. TREGANNIS. Date: 4-11-'65

Sample No.	Remarks	Soil	Silt (Drain Sample)	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
Av 1			✓						0		3						
Av 2			✓						0		3						
Av 3			✓						0		2						
Av 4			✓						0		2						
Av 5		✓							0		2						
Av 6			✓						0		2						
Av 7			✓						0		3						
Av 8			✓						0		12		<1				
Av 9		✓							0		3						
Av 10		✓							0		2						
Av 11			✓						0		3		<1				
Av 12			✓						0		6						
Av 13			✓						0		2						
Av 14		✓							2		3						
Av 15		✓	✓						4		3						
Av 16			✓						0		3						
Av 17			✓						0		3						
Av 18			✓						0		3						
Av 19		✓							0		3						
Av 20			✓						0		2						
Av 21			✓						0		6						
Av 22			✓						0		2						
Av 23			✓						0		2						

8

225024 021

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project AVENUE TARGET

Method data Cx Cu Bravin Mo(Carb fusion) Cx Zn. Analyst B. TREGARIS Date: 4-11-65

Sample No.	Remarks	Soil	Drainage Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
AV 24		✓							0		3						
AV 25			✓						0		3						
AV 26			✓						0		2						
AV 27		✓							0		2						

9

225025 022

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project CONSTABLE TARGET

Method data CxCu Bignin Mo(Carbfusion) CxZn. Analyst B. TREGALLIS. Date: 9-11-65

Sample No.	Remarks	Soil	Drain, Silt, Simple	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm.	Sn	Ni	Hg	
C 1			✓						0		2						
C 2		✓							0		3						
C 3			✓						0		2						
C 4			✓						0		3						
C 5		✓							0		2						
C 6			✓						0		4						
C 7			✓						0		4		<1				
C 8			✓						0		3						
C 9		✓							0		3						
C 10			✓						0		1						
C 11			✓						0		3						
C 12		✓							0		2						
C 13		✓							0		3						
C 14			✓						0		2						
C 15		✓							0		2						
C 16			✓						0		2						
C 17			✓						5		3						
C 18			✓						20+		4						
C 19			✓						0		6						
C 20			✓						0		2						
C 21			✓						0		2						
C 22			✓						0		2						
C 23			✓						0		2		1				

10

225026

023

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J ERDMANIS. Project CONSTABLE TARGET

Required data Cu Zn. Cu Cu. Bquin, Mo(Carb fusion) Analyst B. TREGALLIS. Date: 9-11-'65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm.	Sn	Ni	Hg	
C 24			✓						0		2						
C 25			✓						0		2						
C 26		✓							0		2						
C 27			✓						0		2						
C 28		✓							0		2						
C 29			✓						0		2						
C 20			✓						0		3						
C 31			✓						0		3						
C 32			✓						0		3		3				
C 33		✓							0		2						
C 34			✓						2		4						
C 35			✓						0		2		1				
C 36			✓						0		2						
C 37			✓						0		2						
C 38			✓						0		2						
C 39			✓						0		2						
C 40			✓						0		2						
C 41			✓						0		3						
C 42			✓						0		2						
C 43			✓						0		3						
C 44	CHECK OUT SAMPLES		✓						20		4						
C 45	FOR. No 18		✓						60+		6						
C 46		✓	✓						2		3.						

11

225027 024

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project CONSTABLE.

Method data C x C. Bqnin., C x Zn. Analyst B. TREGARIS. Date: 9-11-'65

Sample No.	Remarks	Soil	Silt	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
C 47		/							1		2						
C 48		/							0		3						
C 49		/							1		2						
C 50		/							1		2						
C 51		/							2		3						
C 52		/							0		4						
C 53		/							0		2						
C 54			/						0		3						
C 55			/						0		3						

12

225028

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

025

Samples submitted by J. ERDMANIS. Project CRAMPS CK. TARGET.

Method data C x Cu. Biquin., C x THM. Analyst B. TREGALLIS. Date: 19-11-1965

Sample No.	Remarks	Soil	Drain Sediment Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
BK. 1		✓						4	0								
Ck 2		✓						6	10								
Ck 3			✓						30+								
Ck 4			✓					3	0								
Ck 5		✓						4	0								
Ck 6		✓						3	0								
Ck 7			✓					3	0								
Ck 8		✓						4	0								
Ck 9			✓					5	0								
Ck 10			✓					4	0								
Ck 11		✓						2	0								
Ck 12		✓						3	1								
Ck 13		✓						3	0								
Ck 14		✓						2	0								
Ck 15			✓					6	0								
Ck 16			✓					3	0								
Ck 17			✓					3	1								
Ck 18			✓					3	0								
Ck 19			✓					3	1								
Ck 20		✓						5	0								
Ck 21		✓						2	1								
Ck 22		✓						2	0								
Ck 23			✓					5	0								

13

225029026

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project CRAMPS CK TARGET

Method data Cx Cu Biquin., Cx THM. Analyst B. TREGELLAS Date: 19-11-65

Sample No.	Remarks	Soil	Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
CK 24			✓					4	1								
CK 25			✓					2	1								
CK 26			✓						30+								
CK 27			✓					4	2								
CK 28			✓					6	4								
CK 29			✓					3	4								
CK 30			✓					3	4								
CK 31			✓					3	10								
CK 32		✓						4	1								
CK 33			✓					4	0								
CK 34			✓					3	0								
CK 35		✓						3	0								
CK 36			✓					20	10								
CK 37			✓					7	10								
CK 38			✓					8	10								
CK 39		✓						0	0								
CK 40		✓						1	4								
CK 41		✓						0	0								
CK 42			✓					2	7								
CK 43			✓					2	4								
CK 44			✓					4	10								
CK 45			✓					3	7								
CK 46			✓					1	0								

225030 027

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS — Project CRAMPS CK TARGET

Method data Cx Cu Bigwin, Cx THY — Analyst B. Tregellas. — Date: 19-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
Ck 47			✓					2	1								
Ck 48			✓					4	7								
Ck 49		✓						3	0								
Ck 50			✓					3	0								
Ck 51			✓					3	0								
Ck 52			✓					3	0								
Ck 53		✓						3	0								
Ck 54			✓					3	4								
Ck 55			✓					2	0								
Ck 56			✓						30+								
Ck 57	Red Soil.	✓						4	15								
Ck 58			✓					3	4								
Ck 59		✓						4	0								
Ck 60			✓					2	7								
Ck 61			✓					2	0								
Ck 62			✓					2	0								
Ck 63		✓						1	0								
Ck 64		✓						1	0								
Ck 65			✓					3	7								
Ck 66			✓					2	7								
Ck 67			✓					1	0								
Ck 68			✓					3	4								
Ck 69	Duplicate Sample.		✓					2	4								

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225031 028

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project CRAMPS Ck TARGET

Method data Ck Cu. Bignin, Ck THM. Analyst B Tregellas Date: 19-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
Ck 70		✓							30								
Ck 71			✓						30+								
Ck 72		✓						2	1								
Ck 73			✓					9	4								
Ck 74		✓						2	0								
Ck 75		✓						1	0								
Ck 76			✓					4	1								
Ck 77			✓					1	0								
Ck 78			✓					6	0								
Ck 79			✓					1	0								
Ck 80		✓						1	0								
Ck 81			✓					2	7								
Ck 82			✓					2	4								
Ck 83			✓					2	0								
Ck 84			✓					2	2								
Ck 85			✓					2	1								
Ck 86			✓					2	1								
Ck 87		✓						3	1								
Ck 88		✓						3		*							
Ck 89			✓					20	7								
Ck 80		✓						2	0								
Ck 91			✓					0	0								
Ck 92									30+								

16

225032

029

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project CRAMPS CK TARGET.

Method data Cx Cu Bismin. Analyst B TREGELLAS. Date: 19-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
Ck 93		✓							4								
Ck 94		✓							8								
Ck 95			✓						0								
Ck 96			✓						1								
Ck 97		✓							4								
Ck 98		✓							2								
Ck 99			✓						1								
Ck 100			✓						10								
Ck 101		✓							15								
Ck 102		✓							0								
Ck 103		✓							0								
Ck 104			✓					7	7								
Ck 105			✓					4	2								
Ck 106			✓					2	1								
Ck 107			✓					4	4								
Ck 108		✓						3	1								
Ck 109			✓					7	4								
Ck 110		✓						4	7								
Ck 111		✓						2	4								
Ck 112			✓					10	7								
Ck 113			✓					4	5								
Ck 114			✓					7	5								
Ck																	

17

225033

083.

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REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: J. ERDMANIS. Project: ECHO TARGET.

Method data: CX Cu BIQUINOLINE. Analyst: B. TREGELLAS. Date: 28-11-65.

Sample No.	Remarks	Soil	Drainage Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
E 1		✓						3	0								
E 2		✓						1	0								
E 3		✓						1	0								
E 4	SAMPLE FROM TRENCH	✓						4	0								
E 5			✓					7	5								
E 6		✓						7	4								
E 7		✓						2	0								
E 8	GOSSAN SAMPLE.							1	0								
E 9		✓						3	0								
E 10		✓						5	0								
E 11		✓						15	0								
E 12		✓						5	0								
E 13		✓						4	0								
E 14		✓						1	0								
E 16			✓					2	0								
E 17			✓					2	4								
E 18			✓					4	4								
E 19		✓						1	0								
E 20		✓						1	0								
E 21		✓						2	0								
E 22			✓					3	2								
E 23			✓					4	30+								

18

225034 082

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project ECHO FARGET

Method data CX Cu BOVIN, CX THM. Analyst B. TREGELLAS Date: 28-NOV 1965

Sample No.	Remarks	Soil	Drainage Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
E 24			✓					10	4								
E 25			✓					4	4								
E 26			✓					4	7								
E 27			✓					4	4								
E 28		✓						1	2								
E 29		✓						2	7								
E 30		✓						2	1								
E 31		✓						7	0								
E 32		✓						2	15								
E 33		✓						15	10								
E 34		✓						2	7								
E 35		✓						1	0								
E 36			✓					7	7								
E 37			✓					7	7								
E 38			✓					3	4								
E 39		✓						2	2								
E 40			✓					4	2								
E 41			✓					4	0								
E 42		✓						3	7								
E 43			✓					2	4								
E 44			✓					7	30+								

19

225035

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project ECHO TARGET

Method data Cx Cu Bignin Cx THM. Analyst B. Tregellas. Date: 3 - 12 - 65

Sample No.	Remarks	Soil	Rock Sample	Water	exMe	Me		HM ppm	Cu ppm.	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
E 1		✓						3	0								
E 2		✓						4	0								
E 3		✓						1	0								
E 4		✓						4	0								
E 5			✓					7	5								
E 6			✓					7	4								
E 7		✓						2	0								
E 8	Gossan Sample.							1	0								
E 9		✓						3	0								
E 10		✓						5	0								
E 11		✓						15	0								
E 12			✓					5	0								
E 13		✓						4	0								
E 14			✓					1	0								
E	No Sample.																
E 16			✓					2	0								
E 17			✓					2	4								
E 18			✓					4	4								
E 19		✓						1	0								
E 20		✓						1	0								
E 21		✓	✓					2	0								
E 22			✓					3	2								
E 23			✓					4	30+								

225036031

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REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project ECHO TARGET

Method data Cx Cu Bisquin, Cx THM. Analyst B. Tregellas. Date: 3-12-65

Sample No.	Remarks	Soil	Silt	Rock Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
E 24				✓					10	4								
E 25			✓						4	4								
E 26			✓						4	7								
E 27			✓						4	4								
E 28		✓							1	2								
E 29		✓							2	7								
E 30		✓							2	1								
E 31		✓							7	0								
E 32		✓							2	15								
E 33		✓							15	10								
E 34		✓							2	7								
E 35		✓							1	0								
E 36			✓						7	7								
E 37			✓						7	7								
E 38			✓						3	4								
E 39		✓							2	2								
E 40			✓						4	2								
E 41			✓						4	0								
E 42		✓							3	7								
E 43			✓						2	4								
E 44			✓						7	20+								

21

225037 032

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS, D. TONKIN Project KIRWAN TARGET.

Method data CX CU. (BIQUINOLINE) Analyst B. TREGELLAS. Date: 15-11-65.

CX T.H.M. (DITHIZONE), MOLYBDENUM (Carbonate fusion)

Sample No.	Remarks	Soil	Drill Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm.	Sn	Ni	Hg	
K 1			✓					2	0								
K 2			✓					10	0								
K 3			✓					2	0								
K 4			✓					2	0								
K 5			✓					5	0								
K 6		✓						0	0								
K 7			✓					5	0								
K 8			✓					3	0								
K 9		✓						1	0								
K 10			✓					9	0								
K 11			✓					6	0								
K 12			✓					6	0				2.				
K 13		✓						1	0								
K 14		✓						2	0								
K 15			✓					3	0								
K 16			✓					6	0				1				
K 17			✓					4	0								
K 18			✓					4	0								
K 19		✓						0	0								
K 20			✓					1	0								
K 21			✓					1	0								
K 22			✓					6	0								
K 23			✓					6	0								

22

225038 033

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. D. TOWKIN. Project KIRWAN TARGET.

Method data Cx Cu BROMIN', CxTHM, Mo. (Carb fusion) Analyst B. TREGELLAS Date: 15 - 11 - 65

Sample No.	Remarks	Soil	Drain' Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
K 24			✓					10	0								
K 25			✓					9	0								
K 26			✓					7	0								
K 27			✓					1	0								
K 28			✓					7	0								
K 29			✓					3	0								
K 30			✓					4	0				<1				
K 31			✓					1	0								
K 32			✓					1	0								
K 33			✓					1	0								
K 34			✓					3	0								
K 35		✓						0	0								
K 36			✓					0	0								
K 37			✓					0	0								
K 38			✓					3	0								
K 39		✓						1	0								
K 40			✓					4	0								
K 41			✓					3	0								
K 42			✓					6	0								
K 43			✓					9	7								
K 44		✓						0	0								
K 45		✓						1	0								
K 46			✓					7	0								

23

225039 034

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS, D. TONKIN. Project KIRWAN TARGET

Method data Cx Cu Bigin, CxTHM, Mo (Carb. fusion) Analyst B. TREGELLAS. Date: 15-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
K47			✓					2	4								
K48		✓						0	0								
K49		✓						0	0								
K50		✓						0	0								
K51		✓						0	1								
K52		✓						0	0								
K53		✓						0	0								
K54		✓	✓					7	4								
K	Nos 55 to 60 Not Used.																
K61		✓						0	0								
K62			✓					4	0								
K63			✓					0	0								
K64			✓					1	0								
K65			✓					3	0								
K66			✓					1	0								
K67			✓					0	1								
K68			✓					3	0				<1				
K69		✓						0	0								
K70			✓					1	0								
K71			✓					6	0								
K72			✓					7	1								
K73			✓					4	0								
K74			✓					7	0								

24

225040 035

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS D. TONKIN Project KIRWAN. TARGET.

Method data CxCu. Bigwin', CxTHM, Mo. (Carb. fusion) Analyst B. Tregellas Date: 15 - 11 - 65

Sample No.	Remarks	Soil	Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
K 75			✓					4	0								
K 76			✓					3	0								
K 77			✓					3	0				<1				
K 78		✓						2	0								
K 79			✓					4	1								
K 80			✓					7	0								
K 81			✓					1	0								
K 82			✓					4	2								
K 83		✓						2	0								
K 84			✓					2	0								
K 85			✓					1	0								
K 86			✓					6	10				1				
K 87			✓					0	1			~~0~~					
K 88		✓						1	0								
K 89			✓					2	0								
K 90		✓						0	0								
K 91			✓					3	1								
K 92			✓					4	0								
K 93			✓					4	0								
K 94		✓	✓					1	0								
K 95	(Gossan Sample)		✓					5	7				<1				
K 95A	←		✓					0	30+								
K 96			✓					0	0								

25

225041 036

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. D. TONKIN Project KIRWAN TARGET

Method data Cx Cu Bquin, Cx THM, Mo (Carb. fusion) Analyst B. TREGELLAS. Date: 15 - 11 - 65.

Sample No.	Remarks	Soil	Silt / Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
K97			✓					6	0								
K98			✓					1	1								
K99		✓						2	0								

26

225042 037

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project LONG GULLY TARGET.

Method data Cx Cu Biquin., Mo (Carb fusion) Analyst B. TREGELLAS Date: 5-11-'65

Sample No.	Remarks	Soil	Drain' Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
L 1			✓						0								
L 2		✓							0								
L 3		✓							0								
L 4		✓							0								
L 5			✓						0								
L 6			✓						0								
L 7			✓						0								
L 8		✓							0								
L 9			✓						0								
L 10			✓						0				<1				
L 11			✓						0								
L 12			✓						0								
L 13		✓							0								
L 14		✓							0								
L 15			✓						4								
L 16			✓						4								
L 17			✓						4				<1				
L 18			✓						2								
L 19			✓						0								
L 20			✓						0								
L 21			✓						0								
L 22			✓						0								
L 23			✓						0								

27

225043 038

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project LONG GULLY TARGET

Method data Cx Cu Bigwin., Mo(Carb.fusion.) Analyst B. TREGELLAS Date: 5-11-65

Sample No.	Remarks	Soil	Silt Drum Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
L24			✓						1								
L25			✓						1								
L26		✓							0								
L27		✓							1								
L28			✓						0								
L29			✓						0				1				
L30		✓							0								
L31		✓							0								
L32			✓						1								
L33			✓						0				<1				
L34			✓						0								
L35			✓						0								
L36			✓						0								
L37		✓							0								
L38		✓							0								
L39		✓							0								
L40			✓						1								
L41		✓							1				<1				

28

225044 039

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project PYRAMID TARGET

Method data THM Cx off. Analyst B. TREGELLAS. Date: 30-11-65

Sample No.	Remarks	Soil	Soil Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
P 1			✓					2									
P 2			✓					2									
P 3		✓						2									
P 4			✓					2									
P 5			✓					3									
P 6			✓					2									
P 7			✓					3									
P 8			✓					4									
P 9			✓					2									
P 10			✓					2									
P 11			✓					3									
P 12			✓					2									
P 13			✓					3									
P 14			✓					7									
P 15			✓					4									
P 16			✓					7									
P 17			✓					6									
P 18		✓						5									
P 19		✓						2									
P 20			✓					3									
P 21			✓					4									
P 22			✓					4									
P 23		✓						2									

225045 040

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project PYRAMID TARGET

Method data CTHM. Analyst B. TREGELLAS. Date: 30-11-65

Sample No.	Remarks	Soil	Silt (Drum Sample)	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
P 24		✓						2									
P 25			✓					18									
P 26			✓					1									
P 27			✓					20									
P 28			✓					1									
P 29			✓					2									
P 30			✓					3									
P 31			✓					4									
P 32		✓						1									
P 33		✓						3									
P 34			✓					60+									
P 35			✓					18									
P 36			✓					3									
P 37		✓						2									
P 38			✓					3									
P 39		✓						3									
P 40			✓					5									
P 41			✓					4									
P 42			✓					5									
P 43		✓						3									
P 44			✓					4									
P 45			✓					5									
P 46		✓						2									

30

225046 041

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project PYRAMID TARGET

Method data CxTHM. Analyst B. TREGELLAS. Date: 30-11-1965.

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
P47		✓						3									
P48			✓					2									
P49			✓					4									
P50			✓					60+									
P51		✓						4									
P52			✓					4									
P53			✓					3									
P54			✓					2									
P55			✓					35									

31

225047

042

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project SAXELBY TARGET

Required data CU THM, Mo Carb fusion. Analyst B. TREGELLAS. Date: 30-11-65

Sample No.	Remarks	Soil	Drain Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
Sx 1			✓					4					<1				
Sx 2		✓						3									
Sx 3		✓						4									
Sx 4			✓					6									
Sx 5			✓					6									
Sx 6			✓					4									
Sx 7		✓						3									
Sx 8			✓					4									
Sx 9			✓					4									
Sx 10			✓					4									
Sx 11		✓						3									
Sx 12			✓					7									
Sx 13		✓						10									
Sx 14			✓					7									
Sx 15			✓					20									
Sx 16			✓					7									
Sx 17			✓					10									
Sx 18		✓						6									
Sx 19			✓					4									
Sx 20			✓					4					<1				
Sx 21			✓					5									
Sx 22			✓					4									
Sx 23		✓						5									

32

225048 043

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project SAXELBY TARGET

Method data Cx THM. Mo (Carb fusion.) Analyst Date: 30-11-65

Sample No.	Remarks	Soil	Drainage Silt Sample	Water	exMo	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
Sx 24		✓						5									
Sx 25		✓						3									
Sx 26			✓					2									
Sx 27		✓						4									
Sx 28			✓					4									
Sx 29		✓						3									
Sx 30			✓					3									
Sx 31			✓					2									
Sx 32			✓					4									
Sx 33		✓						2									
Sx 34		✓						3									
Sx 35		✓						3									
Sx 36			✓					3									
Sx 37		✓						1									
Sx 38			✓					3									
Sx 39			✓					2									
Sx 40			✓					3									
Sx 41			✓					2									
Sx 42			✓					7									
Sx 43		✓						3									
Sx 44			✓					3									
Sx 45			✓					3									
Sx 46		✓						2									
Sx 47			✓					2									33

225049 044

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project SCHANDER TARGET

Method data Cx THM., Cx Zinc, Cx Cu (Bigwin), Mo (Cub fusion) Analyst B. TREGALLIS Date: 2-11-65

Sample No.	Remarks	Soil	Silt	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
S 1		✓	Pigeon Simple					12	10		4						
S 2		✓						10	5		3						
S 3		✓						10	5		3		<1.				
S 4		✓						3	0		3						
S 5		✓						4	0		4						
S 6		✓						6	1		2						
S 7		✓						9	2		2						
S 8		✓						4	6		2						
S 9		✓							0		3						
S 0		✓							4		3						
S 11			✓						4		3						
S 12		✓							4		2						
S 13			-						0		2						
S 14			✓						4		2						
S 15		✓							4.		3						
S 16		✓							0		3						
S 17		✓							2		2						
S 18			✓						0		3						
S 19			✓						0		2						
S 20		✓							0		2						
S 21			✓						1		3						
S 22			✓						1		2						
S 23		✓							0		2						

34

225050 045

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project SCAMANDER TARGET.

Method data CxCu Bgnin CxZn. Mo Carb fusion. Analyst B. TREGALLIS. Date: 2-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
S 24		✓							0		2						
S 25			✓						4		2						
S 26		✓							4		4						
S 27		✓							20		9						
S 28		✓							0		2						
S 29		✓							0		2						
S 30		✓							0		9						
S 31		✓							0		2						
S 32		✓							2		3						
S 33		✓							7		3						
S 34		✓							0		3						
S 35		✓							0		3						
S 36		✓							1		2						
S 37		✓							0		2						
S 38		✓							0		3						
S 39		✓							0		3						
S 40		✓							0		2						
S 41		✓							0		2						
S 42		✓							0		2						
S 43		✓							0		1						
S 44		✓							0		2						
S 45		✓							0		2						
S 46		✓							0		2						

35

225051 046

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS, Project SCAMANDER. TARGET

Method data Cx Cu Bignia., Cx Zn, Mo (Carb fusion) Analyst B. TREGELLAS. Date: 3-11-65

Sample No.	Remarks	Soil	Drain Sediment Sample	Water	exMe	Mo		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
S 47		✓							0		2						
S 48		✓							4		2						
S 49		✓							0		2						
S 50		✓							0		2						
S 51		✓							0		2						
S 52		✓							0		2						
S 53			✓						0		2						
S 54			✓						2		2						
S 55		✓							2		2						
S 56			✓						0		2						
S 57			✓						0		1		<1				
S 58			✓						0		3						
S 59			✓						0		2						
S 60			✓						0		2						
S 61			✓						0		0						
S 62		✓							0		0						
S 63			✓						0		1						
S 64		✓							7		2						
S 65			✓						15								
S 66		✓							7								
S 67		✓							0								
S 68		✓							0								
S 69		✓							0								

225052 047

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project SCAMANDER TARGET

Method data Cu Cu Bigwin. Cu THM. Mo (Carb fusion) Analyst B. TREGARTHEN. Date: 5-11-65.

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
S 70		✓							0								
S 71		✓							1								
S 72			✓						1								
S 73		✓							1								
S 74			✓						2								
S 75		✓							0								
S 76			✓						1								
S 77			✓						5								
S 78		✓							4								

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225053 048

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by D. TONKIN Project TERRYVALE TARGET

Method data Cx THM, Mo (carb fusion) Analyst B. TREGELLAS. Date: 27-11-65

Sample No.	Remarks	Soil	Drain Silt Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
1			✓					7					<1				
2			✓					3									
3			✓					10									
4			✓					110+									
5			✓					7									
6		✓						7									
7			✓					7									
8			✓					7									
9			✓					20									
10		✓						3									
11		✓						4									
12			✓					4									
13			✓					4									
14			✓					5									
15			✓					6									
16			✓					4									
17			✓					4									
18			✓					4									
19			✓					3									
20			✓					4									
21			✓					4									
22			✓					4									
23			✓					4									

225054

049

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by D TONKIN. Project TERRYVALE TARGET.

Method data CxTHM., Mo (Carb. fusion) Analyst B Tregellas. Date: 27-11-65

Sample No.	Remarks	Soil	Drain Sediment Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo ppm	Sn	Ni	Hg	
T 24			✓					6									
T 25		✓						5									
T 26		✓						4									
T 27			✓					5									
T 28			✓					4									
T 29			✓					3					<1				
T 30		✓						3									
T 31		✓						4									
T 32			✓					3									
T 33		✓						3									
T 34			✓					4									
T 35			✓					4					1				
T 36			✓					5									
T 37			✓					3									
T 38			✓					4									
T 39		✓						3									
T 40		✓						3									
T 41			✓					3									
T 42			✓														
T 43		✓						2									
T 44			✓					4									
T 45			✓					3									
T 46			✓					3									

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225055 050

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by P. TONKIN. Project TERRYVALE TARGET.

Method date CxTHM. Analyst B. Tregellas Date: 27-11-65.

Sample No.	Remarks	Soil	Drum Sample Silt	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
T 47		✓						1									
T 48			✓					2									
T 49			✓					3									
T 50			✓					4									
T 51			✓					3									
T 52			✓					8									
T 53			✓					9									
T 54			✓					2									
T 55			✓					3									
T 56			✓					3									
T 57			✓					3									
T 58			✓														
T 59			✓					4									
T 60			✓					4									
T 61			✓					3									
T 62			✓					3									
T 63			✓					3									
T 64			✓					2									
T 65			✓					2									
T 66			✓					3									
T 67			✓					4									
T 68	CHECK OUT. SAMPLES.							3									
T 69								3									

40

225056 051

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by D. TONKIN Project TERRY VALE TARGET

Method data CxTHM. Analyst B. Tregellas Date: 27-11-65

Sample No.	Remarks	Soil	Silt	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
T 70	CHECK OUT SAMPLES	✓						3									
T 71		↓						2									
T 72								3									
T 73								3									
T 74								1									
T 75								1									
T 76								3									
T 77								1									
T 78								2									
T 79								1									
T 80								1									
T 81								10									
T 82								1									
T 83								2									
T 84								1									
T 85								1									
T 86								2									
T 87								2									
T 88								1									
T 89								3									
T 90								1									
T 91		✓						1									
T 92		✓						1									

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225057 052

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by D. TONKIN Project TERRY VALE TARGET

Method data CX THM Analyst B. Tregellas Date: 27-11-'65

Sample No.	Remarks	Soil	Drill Sample	Water	exMe	Me		HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg	
T93		✓						3									
T94		✓						2									
T95		✓						4									
T96			✓					3									
T97								1									
T98								1									
T99								1									

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225058

053

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project T.A.P.G V5.

Method data Halide volatilization - Tin. Analyst G Lorenczi Date: Jan-27-1966.

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn ppm	Ni	Hg
A-3	ARGONAUT.						✓							25		
8							✓							20		
16							✓							5		
17							✓							10		
31							✓							25		
Ac-1	ARM CREEK		✓											<3		
14			✓											5		
15			✓											<3		
18							✓							<3		
20	Qtz veins.						✓							15		
29							✓							10		
42	Granite stock to						✓							25		
48	North of locations						✓							15		
Av-2	AVENUE.						✓							10		
7							✓							5		
8							✓							5		
11			✓											15		
19							✓							<3		
25	Avenue River Granite	Contact.					✓							70		
26							✓							<3		

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225059 054

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J ERDMANIS. Project T.A.P.G. V5

Method data Halide Volatilization - Tin. Analyst G. Lorinczi Date: JAN 27 1966.

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn ppm	Ni	Hg	
C-4	CONSTABLE.		✓											40			
5	Down stream from	✓												30			
6	Alluvial tin workings		✓											48			
7	& test pits.		✓											150			
8														4			
11							✓							10			
16							✓							5			
23	Sampling pits & bores						✓							30			
35	Granite contact						✓							110			
40	up stream.						✓							5			
42.							✓							10			
CR.-3	CRAMPS CREEK.		✓											5			
9							✓							<3			
19							✓							<3			
28							✓							<3			
34							✓							15			
36							✓							25			
44							✓							10			
60							✓							20			
61							✓							260			
62							✓							15			
63							✓							5			

225060

055

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project TAPG V5.

Method data Halide Volatilization Tin. Analyst G. Lorinczi Date: Jan 27 1966.

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn ppm	Ni	Hg	
Ck-78	CRAMPS CREEK		✓											50			
81							✓							30			
89							✓							<3			
E-2	ECHO	✓												10			
5							✓							<3			
16							✓							5			
27							✓							<3			
F-1	PYRAMID						✓							<3			
7							✓							<3			
15							✓							<3			
22							✓							<3			
27	Drainage from West Pak Sn Prospect)						✓							90			
30							✓							5			
31		✓												12			
34	(Drainage from						✓							480			
35	(Great Pyramid Tin						✓							250			
36	Mine						✓							360			
37	Fractured quartzites.	✓					✗							60			
49							✓							40			
50							✓							15			
51		✓												4			

225061 056

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project V5

Method data Halide Volatilization Tin Analyst G. Lorenzi Date: Jan. 27-1966

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn PPm	Ni	Hg	
P 52	PYRAMID.						✓							600			
54	Drainage from Great Pyramid Tin Mine.						✓							50			
Sx 1	SAXELBY (Drainage from Swamp.)						✓							120			
3							✓							<3			
5							✓							<3			
10							✓							<3			
14							✓							<3			
15							✓							<3			
20							✓							<3			
27							✓							<3			
31							✓							10			
44		✓												<3			
S 3	SCAMANDER.						✓							<3			
14							✓							<3			
17							✓							<3			
26							✓							<3			
31		✓												<3			
35							✓							<3			
39							✓							<3			
53							✓							<3			
57	Granite contact upstream.						✓							10			
64	Wolfram Creek.		✓											20			

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225062 057

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS. Project V5.

Method data Halide Volatilization Tin. Analyst G. Lorinczi Date: Jan. 27 - 1966.

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn ppm	Ni	Hg	
T- 1	TERRYVALE.						✓							15			
5							✓							10			
7							✓							45			
17			✓											20			
24			✓											20			
29							✓							10			
35							✓							15			
52			✓											<3			
56							✓							35			
57	Sampled below Sn. Alluvial workings						✓							400			
58							✓							<3			
63							✓							40			
L-6	LONG GULLY						✓							5			
9							✓							5			
10							✓							5			
17							✓							5			
24							✓							5			
26							✓							5			
29			✓											10			
32			✓											10			
33			✓											10			
41							✓							15			

225063

058

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project V5

Method data Halide Volatilization Analyst G. Lorinczi Date Jan. 27-1966

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn ppm	Ni	Hg
K-6	KIRWAN						✓							15		
12							✓							5		
16							✓							15		
24							✓							10		
34	Granite.		✓											10		
38			✓											5		
62			✓											5		
68			✓											10		
74							✓							5		
82			✓											15		
86							✓							10		
93	Alluvium tin workings - sample pits						✓							380		
94	Contact to granite						✓							3		
95	to the East.						✓							3		
PR-1	Special Reconnaissance		✓ (DDH site)											4500		
2	Samples round known		✓ (Adit + dump)											900		
3	tin workings.						✓							60		
4							✓							1000		

225064

059

CHAPMAN, WOOD, GRISWOLD & EVANS PTY. LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by J. ERDMANIS Project V5

Method data Halide Volatilization - Tin Analyst G. Lorincz Date Jun. 27. 1966

Sample No.	Remarks	Soil	Silt	Water	exMe	Me	Drainage Sample	HM ppm	Cu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Hg
TT 1	"Tassie Tin (Prospect)													2500		
3	(Quality of discovered			Pan Concentrates										4000		
4	high grade tin ore float)			± Reduced to 1/20 of original										4000		
6				quantity of creek gravel.										3500		
13														5000		
15														250		
27		✓												10		
16							✓							5		
17							✓							5		
18							✓							7		
19							✓							52		
25		✓												25		
26		✓												4		
28		✓												4		
29		✓												23		

225065

090

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

VENTURE No 5.

DATE 10th Nov 1965.

PROPERTY ARGONAUT [redacted] TARGET.

Drilling: D.H. **Footage**

INTRODUCTION & GENERAL.

[redacted]

Sampling: Two half field days were spent by the field crew in the area and a total of 33 soil and silt samples collected. Samples were taken from locations when combined covered the selected area effectively. The field crew comprised J. Erdmanis and D Tonkin. P Irving carried out some reconnaissance work in the contact area to the East as well as some tin prospecting in alluvial workings to the West along Argonaut Rd. B. Tregellas ran the geochem' assaying over three, half day periods.

Surveying:

ACCESS AND TOPOGRAPHY.

Geologic Mapping: The Argonaut [redacted] target of about 3 square miles in area is located 3 miles West of ST HELENS Township. The target is bounded by Argonaut Road to the North and West, Trafalger Rd to the East whilst Launceston Creek is the boundary to the South.

Geophysical: A low range of hills surrounding a low marshy area draining to the North into the Golden Fleece Rivulet features the topography. Open Eucalyptus forest covers the hills whilst low Ti-tree scrub with Sward grass grow thick in the low marshy areas of undefined water-courses.

Geology.

General: Coarse Biotite Granite predeminates over the target area. Areas of biotite hornblende granite were encountered near to more intensly fractured areas. Some alteration and greissenisation within areas of more intense fracturing was also noted. Aplite dykes were a common feature.

Remarks: Minerals noted in altered zones were epidote, tourmaline, chlorite and quartz stringers. Cassiterite was not observed although a sharp lookout was kept in vicinity of alluvial workings and greissenised zones in the granite.

Alluvial tin prospecting by P Irving revealed heavy minerals in wash but no determinations were made to assay tin content.

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081

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Daily Progress Report

DATE.....

PROPERTY

Drilling: D.H. Footage

Fracturing in the area could not be well determined as spheroidal weathering ie exfoliation was so well developed and marred original fractures when traversing the area.

Sampling: GEOCHEMISTRY.

Soil and silt samples were originaly assayed by the Cu Biquinoline Cu method which gave very dissapointing results. One sample only obsayed above background valve of 0 to 1 ppm Cu. Sample A17 - 4 ppm.

When a THM buffer was available samples A1 to A16 were assayed for THM. Results were dissapointing but on the other hand each sample gave a THM reading which was above zero ppm. A more satisfactory background valve was obtained and the anomalous values could be more easily determined. No anomalous values were obtained using the THM DITHIZONE method.

Surveying:

Geologic Mapping:

CONCLUSION

No further work is recommended on the target area. before the geochem results have been assessed.

15th NOV 1965.

Geophysical: Samples A 17 to A 38 were assayed for Zn with the Cu Zn Dithizone method. Values plotted gave no anomalous readings. Values obtained gave a similar back ground valve as THM values

General:

Remarks:

PROJECT ENGINEER

062

ARGONAUT ROAD

Pipe

Pipe

Quartz veins & Epidote

GRANITE

TRAFALGAR ROAD

ARGONAUT H

TARGET

TAPG Venture 5

5 cm

225067

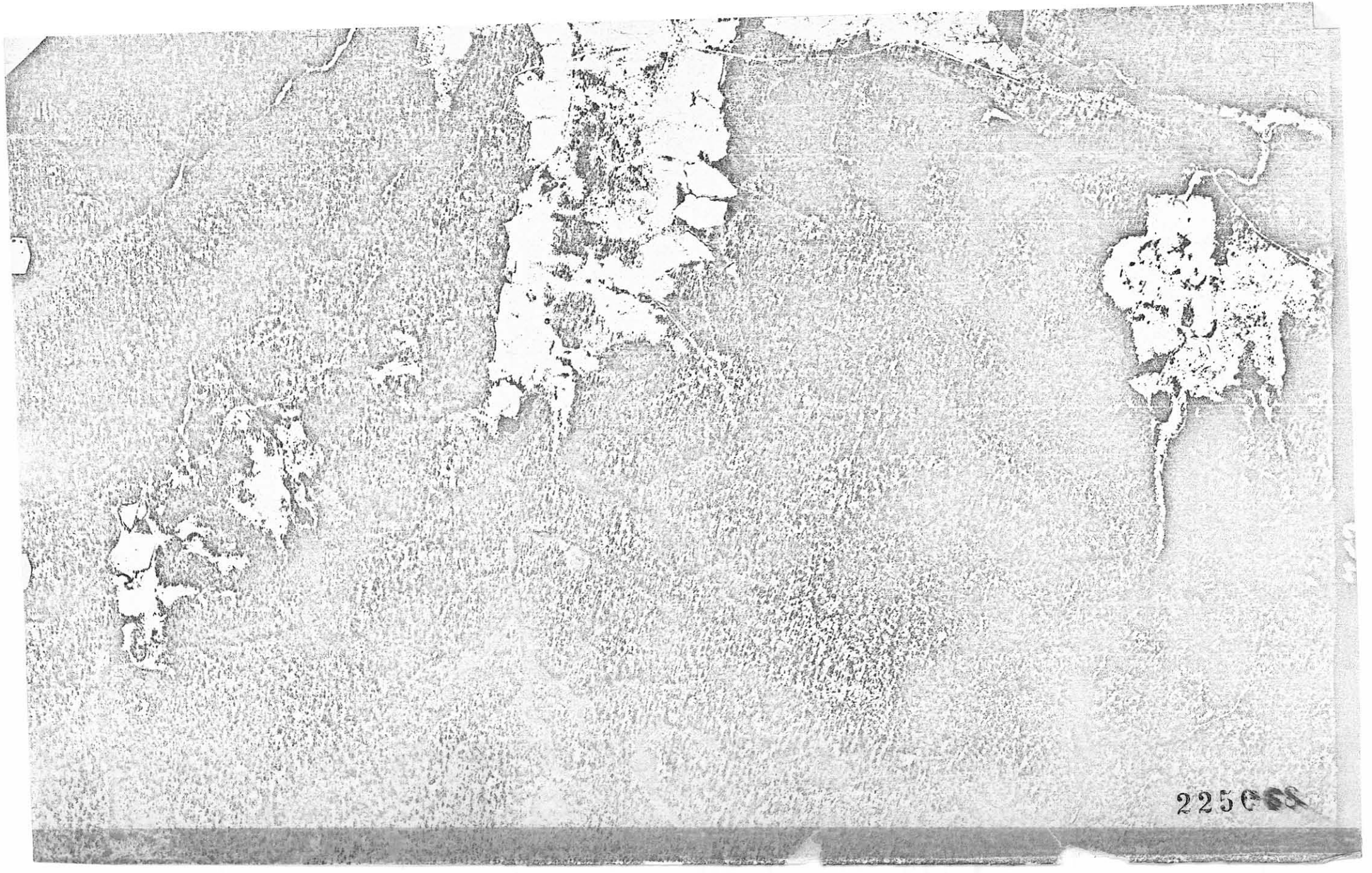
Soil sample – x
Silt sample – o
Zn in ppm
THM ppm
Cu ppm
(CX Biquinoline)

ASSAYS – B TREGELLAS

SCALE – 1" ≏ 990'

PHOTO : RUN 4
TAS. 25753

J ERDMANIS D TONKIN
NOV 1965


225

225069 66-414

090

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

VENTURE 5.

DATE Nov. 1965.

PROPERTY ARM CREEK [redacted] TARGET.

Drilling: D.H. Footage

GENERAL.

Field days spent in the target area numbered five. Field crew comprised; J. Erdmanis, D Tonkin & P. Williams. B. Tregellas processed the total of 102 soil and silt samples from the area assaying them for both Cx THM Dithizone and Cx Cu. Diquinoline.

Sampling:

LOCALITY & ACCESS.

The target is located three miles North of Upper Scamander and one mile West of the East boundary of the lisence area. A newly formed forestry road along the Loila Tier circles the target giving good access.

Surveying:

The topography in the area is very rugged. Deep gullies draining the tier run off into the Arm creek which flows South into the Scamander River.

Although most of the target area has been cleared of undergrowth by fires the gullies are thick with lush vegitation and traversing is made difficult.

Geologic Mapping:

GEOLOGY

This target area revealed interesting geology. Sediments metamorphosed by granite to the East and West of the target area as well as by a small stock of porphyritic granite, located in the Central North of the target. Narrow granitic dykes have been intruded in several areas, suggesting that the granite lies just a short distance below surface.

Geophysical:

General: Meta-sediments noted were, quartzites, spotted shales phyllites thin laminated siltstones and shales. Metamorphic alteration in these rocks varied considerably. Near the granite contact the more shearing and fracturing was noted.

Sediments generally dip steeply to the West but erratic localised dips were noted in several localities. In the vicinity of samples 13-14. minor drag folds and anticline-syncline structures were noted pitching South.

Remarks:

A 20 ft wide basic dyke with pyrite was noted at samples 8, 11 and 12. This dyke could be traced for a considerable distance striking N-S approx by surface floaters.

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066

225070

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

ARM CREEK CONT.

PROPERTY

DATE Nov 1965.

Drilling:

D.H. Footage

Geology:

In the bed of "Big Creek" in the target area quartzites carrying pyrite along hairline fractures. Minor chalcopyrite and galena associated with the pyrite are probably the cause of anomalous geochem values in the area.

Sampling:

Upstream from sample 35. a small lode was found carrying small amounts of galena & chalcopyrite in a Quartz arsenopyrite complex. ~~gangue~~. lode rock. Anomalous values in this area have been assigned to this small lode.

Surveying:

Fracturing in the area was found to be good with zones showing quartz filled fractures and sheared states chloritised.

Due to superior resistance to weathering of quartzite a narrow and rugged ridge has been formed in the West of the target. Dip slope of the Quartzite forms the West

Geologic Mapping:

side of the ridge whist cliff faces are common on the East. a narrow quartz vein carrying pyrite wolframite and hematite was seen. Possible associated minerals caused anomalous readings in the creeks to the East.

Porphyritic granite forms a small stock in the north of

Geophysical:

the target. The colour of the rock is greenish with large felspar phenocrysts. This type of granite was noted on other targets in vicinity of sediment/granite contacts.

General:

GEOCHEMISTRY.

The soil and silt samples were initially assayed for Ox Cu Bipyridine. Several anomalous values were obtained in the Western part of the target. These were followed up and checked out with the above results (see geology)

Remarks:

The samples were then assayed for Ox THM Dithone. The results ~~from this~~ using this method Confirmed the previous assay values as well as giving further anomalous values in the North of the target. These values were checked out ~~by~~ and although insignificant economic mineralisation was found.

Geochemical methods proved success for ~~in~~ locating ~~economic~~ mineralisation in this province. Target

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CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

ARM CREEK CONT

DATE Nov 1965

PROPERTY

Drilling: D.H. Footage

CONCLUSION

Sampling: Using geochemistry employing the Cu Co Bgnin. and CX T.HM. Dithizone methods economic mineralisation was located on this target. follow up and check geology revealed that mineralisation is minor and no further work is recommended in the target area.

Surveying:

Geologic Mapping:

Geophysical:

General:

Remarks:

PROJECT ENGINEER

063

225072

ARM CREEK TARGET

VENTURE No5.

12-11-1965

SCALE - 1 INCH = 990 FEET

PHOTO - RUN 5

TAS-25765

Soil Samples ×
Silt Samples ○
Cx Bisquinoline Cu in ppm & THM in ppm ○
Fracture directions

5 cm

N

"TASSIE TIN PROSPECT"

Gossanous lode With Arsenopyrite

Pop Williams "René Dawn" (Breccia + Gossan) Sn, FeAsS + PbS

Gossanous Rock.

Quartzite Ridge

Slickenside plane.

Red Qtzite

Siltstones

"TIER"

To Coast

Qtz veins in fractured sandstone with epidote.

Iron stain in pool of H_2O.

GRANITE (Porphyritic)?

Float

Pb + Cu Mineralisation in Hornfels Float

Thin banded Siltstones

Banded silt Sandstones

Highly contorted beds + breccia.

Breccia float

Sandstones

Shale

Highly fractured

Drag folding

Prospecting trench in brecciated siliceous sandstone.

Qtz Vein with Sulphides.

Basic dyke with FeS.

Quartzites with pyrite in ck.

Quartzite With Qtz Carrying FeS

Granite Float.

Siltstones.

Inflection in strata

FORESTRY ROAD

ARM CK.

SILT STONES

QUARTZITES

SILT STONES

To UPPER SPARTINDER

225073 66-414

068

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

VENTURE 5.

DATE Dec 1965.

PROPERTY — PYRAMID [redacted] TARGET. —

Drilling: D.H. Footage

GENERAL.

One field day was required to complete geochemical soil and silt sampling on this target area. Field comprised J. Erdmanis D. Tonkin and Pop. Williams. The reconnaissance magnetometer survey carried out by D Tonkin and B. Tregellas required a half a day.

Sampling: A total of 55 soil and silt samples were taken and geochemically assayed for Cx THM. Four samples taken North of the Pyramid Tin mine during reconnaissance and orientation, were assayed for Cx Cu Biquinoline. The Pyramid tin mine held under lease privatly was visited to note nature of

Surveying: ore, alteration and structures.

B Tregellas processed all samples retrieved ~~and assayed~~ in the field-lab at ST Helens.

ACCESS and TOPOGRAPHY

Geologic Mapping: The target area is located in the vicinity of the Pyramid Tin Mine at Upper Scamander. The two miles E-W, One and a half miles N-S dimentioned target takes in the mine in its Northern part.

Geophysical: Access is by road from Upper Scamander by traveling North for about one mile to the center of the target. A branch road to the West Pinnacle services the western part of the target.

The topography is featured by a semicircular line of ridges along the Northern boundary and flat undulating area in the central part. The Scamander River flood flats form the Southern boundary

General: Undergrowth has been burnt in the area by recent fires giving good access at the time of investigations.

GEOLOGY.

Remarks: Undifferentiated Silurian - Ordovician sediments outcrop in all parts of the [redacted] target area. Sedimentary rock types include - siltstones shales slates felspathic sandstones and quartzites. Alteration in these sediments was noted ~~with~~ with varied intensity in different localities. In the Pyramid,

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225074

069

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Daily Progress Report

DATE Dec 1965

PROPERTY Pyramid [redacted] Target Cont.--

Drilling: Geology Cont:-

D.H. Footage

Sampling: tin mine area alterations to chlorite in some strata was noted as well as intense fracturing in the quartzites which in places have been mineralised to form tin ore. In the South Eastern part of the target quartzites and felspathic sandstones have undergone considerable alteration more so than in any other part of the target although fracturing was not well developed. At locality of soil sample 45. gossanous material was found as float. This material originated from three small cuts made to uncover a small quartz chlorite lode carrying small amounts of sphalerite, pyrite and arsenopyrite. Length of small lode is approximatly 120 ft with an average width of 2-4".

Surveying:

Geologic Mapping: In several localities in creeks emerging from the Great Pyramid mine area lafferitic conglomerates have formed by cementing of creek gravels and scree with iron (limonite).

The Western half of the target contains similar rock types striking N-S and dipping steeply Westwards. Areas in this region are well fractured but alteration is very limited. Some narrow quartzites contained leached cavities.

Geophysical: In the main creek flowing South East some small alluvial tin workings were noted. Tin mineral possibly orginating from the West Pinnacle and Pyramid Prospects. On the higher flat areas in the South of the target very low grade alluvial tin areas are known and tested with pits.

General:

GEOCHEMISTRY

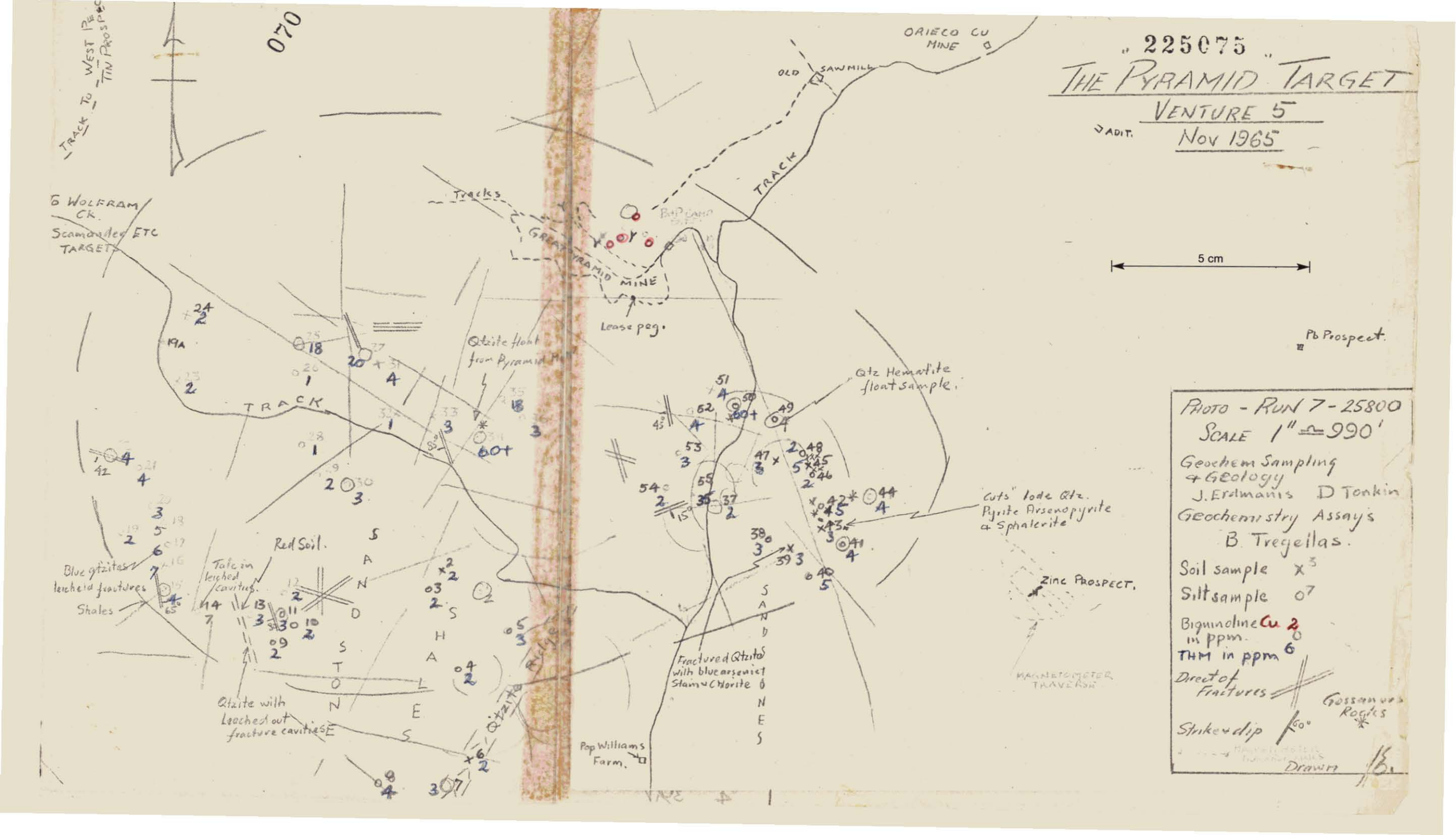
Geochemical results proved very dissapointing in this target area. Although some anomalous values were obtained in creeks eminating from areas of Pinnacle and Pyramid tin prospects their assay values were relatively low w.r.to CK THM. Values obtained are probably due to contamination by miners and prospectors. In mine area assorted metal refuse can be seen.

Remarks:

In Conclusion No further field work is recommended in this area until samples have been assayed for Sn and results assessed.

PROJECT ENGINEER

[signature]


225075
THE PYRAMID TARGET
VENTURE 5
ADIT.
NOV 1965
ORIECO CU MINE
OLD SAWMILL
TRACK TO WEST PEAK TIN PROSPECT
070
TRACK
TRACKS
GREAT PYRAMID MINE
Lease peg.
B&P CAMP SITE
TRACK
5 cm
Pb Prospect
6 WOLFRAM CK.
Scamander ETC TARGET
Qtzite Hont from Pyramid Mine
Qtz Hematite float sample.
"cuts" lode Qtz. Pyrite Arsenopyrite & Sphalerite
Zinc PROSPECT.
MAGNETOMETER TRAVERSE
Blue qtzites leached fractures
Shales
Talc in leached cavities.
Red Soil.
SANDSTONE
Qtzite with Leached out fracture cavities
Qtzite
Fractured Qtzite with blue arsenic Stain & Chlorite
SANDSTONES
Pop Williams Farm.
PHOTO - RUN 7 - 25800
SCALE 1" = 990'
Geochem Sampling & Geology
J. Erdmanis D Tonkin
Geochemistry Assays
B. Tregellas.
Soil sample x
Silt sample o
Biguinoline Cu in ppm.
THM in ppm
Direct of Fractures
Gossan or Rocks
Strike & dip
Drawn

225076

071 E 225077 66-414

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Daily Progress Report

VENTURE No 5.

DATE 9th Nov 1965

PROPERTY AVENUE [redacted] TARGET.

Drilling: D.H. **Footage**

INTRODUCTION & GENERAL.

On Nov 3rd one full day was spent by the field crew to sample and prospect the Avenue [redacted] target. Eight soil and 19 silt samples effectively covered the target area. The field crew consisted of J. Erdmanis D. Tonkin and Pep Williams, geology and orientation; sampling; prospecting ~~tasks~~ were carried out respectively. The geochem lab was used on three seperate days to process samples from the target. Cx Bigumeline Co, & Dithizone Zn assays were completed whilst several attempts ~~were not~~ were made to run samples for THM.

Sampling:

Surveying: Stereo coverage of the area is by Photos ST HELENS sheet RUN 7 No TAS-25802-3,

ACCESS & TOPOGRAPHY.

The target of about two square miles in area is located some two miles upstream from the junction of Avenue R and Scamander R along the Avenue R.

Geologic Mapping:

Access is by a bulldozed track which leads South West from Mason's farm property at the end of the Upper Scamander road. The track leads over a range of hills to a flat clearing locally called Tommy's Flat at the junction of Cotes Rivulet and Avenue R. This location is ~~the~~ central in the target.

Geophysical:

The topography of the area is in part rugged with steep sided gullies cut into sediments. Open Eucalyptus forest covers the entire area with little undergrowth in narrow gullies.

General: GEOLOGY.

A ratio of about 9 to 1 of sediments to granite cover the target area. The sediment granite contact strikes approximatly 120° Mag. in the South-Western part of the target. Undifferentiated sediments of Silurian Ordovician age strike North West in the area and ~~strike~~ dip Westwards.

Remarks: In the vicinity of the contact to the granite shales sandstones and siltstones of the sedimentary series have been metamorphosed to phyllitic shales and quartzites and in some cases hornfels of various textures. Strikes and dips of the metamorphosed strata is erratic. In the vicinity of sample No 13 a small anticline probably a drag fold is exposed on the bank of the Avenue R. Fracturing in this area is somewhat more noticeable and

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225078

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 9th Nov 1965

PROPERTY

Drilling: Avenue [redacted] Target Geology cont. **D.H.** **Footage**

quartz veinlets fill fractures. Fracture directions 30°/90°. ~~Hwg~~

No economic mineralisation was noted although samples of muscovite quartzite in the vicinity of the granite contact contained leached cavities of pyrite.

Sampling: Granite in the area was a porphyritic phase of biotite granite with minor hornblende. Very little alteration was seen in the granite.

Zones of fractures were marked on the target overlay which were found to be preferential weathering of strata when traversing the area.

Surveying:

GEOCHEMISTRY

Sampling in the area called for ~~a~~ majority of dry silt samples to be taken as numerous outcrops made prospecting easy and assessment of mineral content of the rocks traversed easy.

Geologic Mapping: Assay of samples was carried out by B. Tregellas in the ST HELENS LAB. Cx of Biquinoline Cu and Cx of Zn Dithizone methods were used to evaluate samples retrieved. Due to difficulty ~~of~~ with preparing THM buffer the samples were not assayed with this method.

Cx Biquinoline Cu method gave a background value of Zero whilst only two values gave higher than zero assays. Samples No 14 + 15 gave values of 2 + 4 ppm Cu respectively.

Geophysical: CxZn Dithizone method gave a background value in the area of 2-3 ppm Zn. Three values were recorded above the background value Samples. Nos 8, 12 & 21 gave 12, 6, 6 ppm Zn respectively,

No correlation between Cu + Zn assays ~~were noted~~ evolved.

General:

CONCLUSIONS.

No further work is recommended in the field on this target however samples obtained should be assayed for all specifics using the Biquinoline + Dithizone methods to evaluate indicator ~~mineral~~ metal for the area. This will greatly help to assess the whole area ~~of~~ and other target results.

Remarks:

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073

225079

AVENUE TARGET

VENTURE 5.

Soil Sample – X 20

Silt Sample – O 21

(X Diffuse Zn)
cx Biquinoine Cu in ppm – O 3 / O 2

ASSAYS - B. TREGELLAS.

SCALE - 1" ≏ 990'

JERDMANIS D. TONKIN.

PHOTO RUN 7

TAS 25803

5 cm

N

Fractures in rocks

SEDIMENTS

Sandstones

AVENUE RIVER

GRANITE

Granite float.

Contact

Slaty cleavage

Siliceous Sandstone

Tommy's Flat.

Track From Masons Farm

Black siltstone lmek. float of granite


225080

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225081

66-414

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

VENTURE 5

CONSTABLE [redacted] TARGET.

DATE 19 - NOV 1965

PROPERTY

Drilling: **D.H.** **Footage**

GENERAL.

Sampling: The [redacted] target area was geochemically sampled and geologically assessed by the field crew. J. Erdmanis D Tonkin traversed the area whilst B. Tregellas processed the samples in the geochem-lab. One and a half days were spent on initial sampling in the area and a half day was spent by D Tonkin on follow up work round sample C18 which assayed 20+ppm. Cu Biquinoline.

ACCESS & TOPOGRAPHY.

Surveying: The target area has a low central wampy area surrounded by ridges on all sides. Access is available to the centre of the target by a good lorry track which branches off the Trafalgar road some Nine miles South West of ST HELENS. The target is about five square miles in area with granite being the main rock type.

Geologic Mapping: Eucalyptus trees is the main vegetation type in the hills whilst in the swampy areas ti-tree scrub and razor grass is found. Swampy areas within the target are drained by the Constable Ck draining North-east.

GEOLOGY

Geophysical: The area traversed contained almost entirely all of granite outcrops. Texture of the granite varied from location to location although no great change in mineral content was noted. In the vicinity of granite contact in the South of the area the texture of the biotite granite was aplitic At the contact itself the granite changes to a greeny colour due to its finer texture and larger proportion of mafic minerals. Very little alteration was noted.

General: Sedimentary rock types included shales, sandstones and mudstones. These sediments were only once encountered on the Southern traverse.

Fracturing in the granite was good and on traversing the area these features were noted.

Remarks: Numerous areas within the granite zone alluvial tin workings were found as well as evidence of test pits and auger holes.

Several pans of dirt were washed recovering a concentrate of heavy minerals no tin was identified in

In the vicinity of anomalous sample C18 alteration in the granite was noted. Granite showed some greissenisation as well as alteration to chlorite. Main fracture is noted in this area.

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225082

075

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE.....

PROPERTY

Drilling: D.H. Footage

Sampling:

GEOCHEMISTRY.

A total of 55 samples were assayed with the Cx Cu Biquin method. Samples comprised of 17 soil and 38 silt.

One anomalous value was obtained giving 20+ ppm Cu. This sample was followed up and a series of samples to locate the source of mineralisation. Sample taken from the same spot assayed 20 ppm Cu and samples taken 200' upstream in small draw assayed 60+ ppm. Samples taken on either side of draw and further upstream gave no anomalous values. As area of anomalous values is very small no further work will be done

Surveying:

All samples taken from the area were assayed for CxZn Dithizone results giving no anomalous values.

CONCLUSIONS.

Geologic Mapping:

The area of anomalous values was checked out and mineral indicated Cu was not noted in the area however alteration along a major fracture is believed to cause the anomalous value. The area is too small to be of further intrest.

As in the target area numerous tin workings were found Geochemistry for tin should be run on the samples.

Geophysical:

V

DFI

General:

Remarks:

PROJECT ENGINEER

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E D

CONSTABLE TARGE.

VENTURE No 5.

10-11-1965.

Alluvial tin workings

TRAFALGAR ROAD

TRACK

Old Hut.

Alluvial test holes + pits.

Distinct fracture.

Basic Diorite dyke Float.

Sn Workings

Old alluvial Tin Workings

Drain

Dam

Drain

H2O

Swamp

Swamp

Coarse Granite

GRANITE

Seds

Sediments

Fine grained Granite

Quartz blow with Sulphides.

PHOTO - RUN 5
TAS 25767.

SCALE 1" = 990'

Geochem Sampling & Geol
D. TONKIN & J. ERDMAN.

Geochem Assays
B. TREGELLAS

Soil sample x24
SILT sample o30
Assay Cu in ppm. o3 2
Zn in ppm

5 cm

225084

225085 66-414 From Report Q41/8

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

T.ARG. VENTURE 5.

DATE Dec 1965

PROPERTY CRAMPS CREEK [redacted] TARGET.

Drilling: D.H. Footage

GENERAL.

Sampling: Including time for magnetometer traverse, reconnaissance investigations, initial geochemical sampling, checking out values and geological assessment four field days were spent on this target. Initial samples numbered 91, follow up 10 and previous reconnaissance 13 totaling 114 soil and silt samples.

Surveying: Field crew. - J. Erdmanis. D. Tonkin - Pop Williams
Geochem Technician. B. Tregellas.

Geologic Mapping: Mineral prospects in this area were located, investigated and assessed.
Weather conditions were favourable on all field days.

ACCESS AND TOPOGRAPHY.

Geophysical: The target area is located about two miles N of Upper Scamander and five miles inland ie W. of Scamander. Access is by a track leading to the Orieco Copper Mine, on the Southern boundary, thence joining the Leila Tier road at the N. boundary of the target.
The topography is partly undulating and party rugged on which Open Eucalyptus bush grows. Undergrowth is sparse as bush fires have cleared the area.
Cramps Ck, Eastern Ck join Arm ck. which flows South into the Scamander forming the drainage pattern.

General:

GEOLOGY

Remarks: Meta - sediments in the area have a general strike of N-S. and a dip of approximatly 60° West. Areas of erratic strikes and dips were noted in the East of the target, where granite float in creeks indicates the contact to granite to the East. Actual distance from East boundary of target is a quarter of a mile. Some strata with unusually flat dip 10°E. striking 07° outcrops South West of the Orieco Copper mine.
Several fractures strike at 150° across the target

PROJECT ENGINEER

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CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE Dec 1965

PROPERTY

Drilling: D.H. Footage

area. These, in places, carry small lodes comprising of quartz arsenopyrite gangue with small amounts of pyrite, chalcopyrite sphalerite and wolframite. The width of these lodes are very limited and only

Sampling: in places where the gossan capping or their width appears economic they have been prospected by trenches shafts or adits.

All workings in the area were inspected, including the Orieco Copper mine. These proved interesting but

Surveying: not of economic potential interest to warrent further prospecting (Workings in the whole Savander field including ones on this target have been discribed by W.H. Twelvetrees in the Tas. Gov. Mines Dept. Geol Survey Bulletin No 9 1911.)

The Eastern part of the target reveals several

Geologic Mapping: horizons of Quartzite interbedded with felspathic Sandstone. Quartzites in vicinity of Samples 15 to 18 carry pyrite cubes. Some narrow highly fractured shales show alteration to chlorite and contain cubes of pyrite with 1/2" edge dimentions

Fracture trends apart from major fractures

Geophysical: trend to 90°/30° strikes with vertical dips.

In the West of the target sediment show little alteration although the larger fractures carry narrow mineralised lodes. Numerous areas of haematitic iron stained float was noted as well as gossans.

General: Geochemical results gave no encouraging values to indicate base metal minerals.

CONCLUSIONS

Remarks: Although several small showings of As, Cu & Pb mineralisation were noted in the target area, it is the authors belief that geochemical work completed in this area has eliminated possibilities of large mineralised areas being present.

No further field work is recommended on this target. Random samples should be assayed for Mo and Sn before completely rejecting the target.

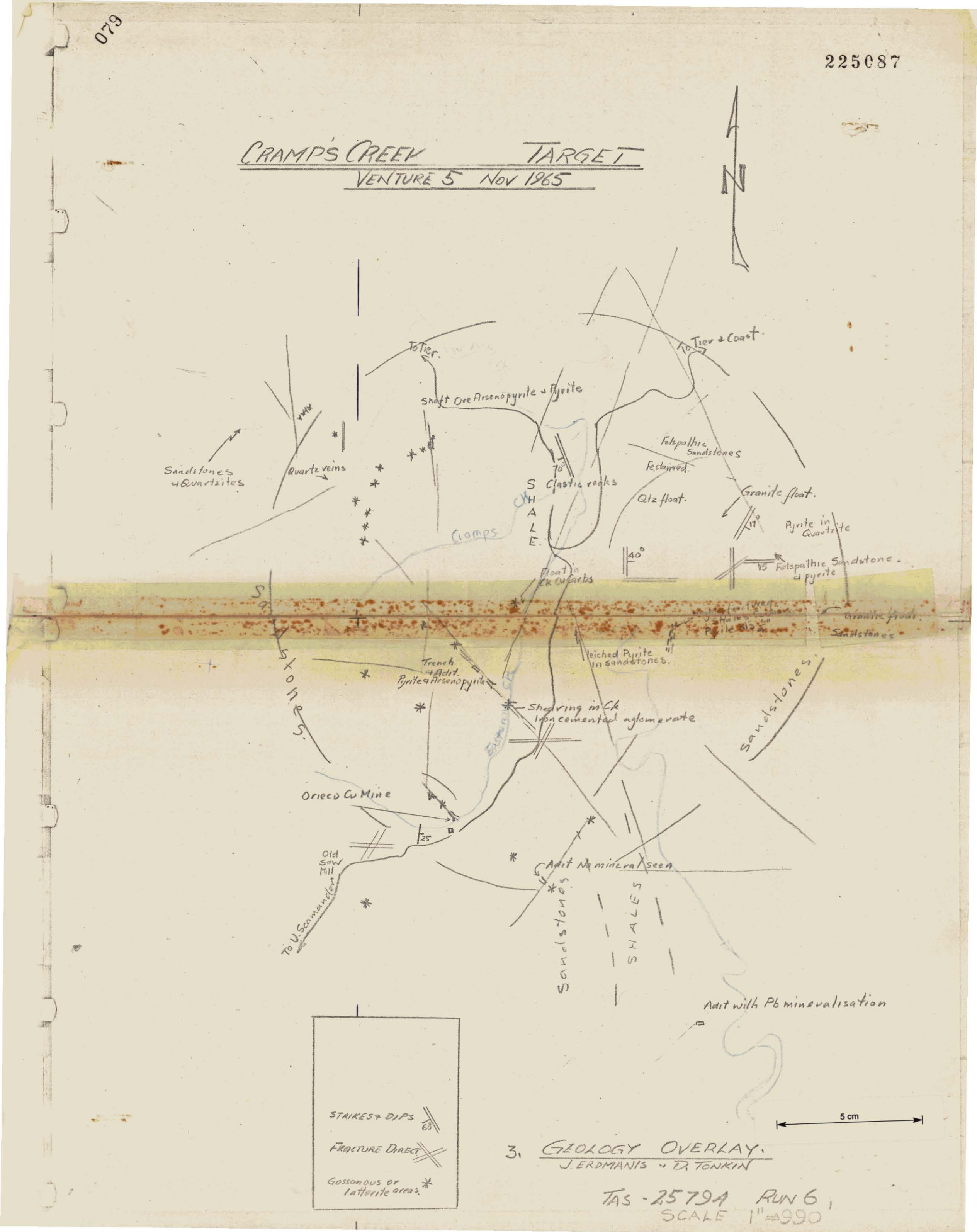
PROJECT ENGINEER

079

225087

CRAMP'S CREEK TARGET I

VENTURE 5 NOV 1965



3. GEOLOGY OVERLAY.

J. ERDMANIS & D. TONKIN

TAS-25791 RUN 6,

SCALE 1" = 990'

225088

225089 66-414

080

F.

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 27 Nov 1965

PROPERTY ECHO TARGET.
TA DG. VENTURE 5.

Drilling: D.H. Footage

GENERAL.

Two mineral prospects were known to be located in this target area. (a) The Echo Molybdenum and Wolfram Prospect (b) A Copper Prospect.

Sampling: The eastern part of the target was traversed when a visit was made to the Echo prospect. D. Irving, J. Erdmanis and D. Tonkin comprised the field crew on this occasion.

The South-western corner of the target was traversed by

Surveying: D. Irving whilst on reconnaissance work in the area. J. Erdmanis and D. Tonkin traversed the remainder of the target and located the copper prospect.

Both the Echo and Copper Prospects were classed as of no further interest.

Geologic Mapping: B. Tregellas prepared and assayed the 43 soil, silt and drainage samples taken from the area.

Geophysical:

LOCALITY & ACCESS.

The target of 1.2 sq mls in area is some 2.5 miles West of St Helens, South of the Medeas Cove. Trafalgar road to the West and Constable Creek to the East and South form the respective boundaries of the target

General: Access is by traversing East from the Trafalgar Rd or along rough jeep tracks leading South from the road on the South shore of Medeas Cove.

Constable and Lancaster creeks to the West and South East boundaries drain the outward slopes of the target

Remarks: whilst North flowing Nephele ck drains the central area. All drainage flows into the Medeas Cove to the North.

GEOLOGY

Metamorphism in the sediments is quite marked due to the close proximity of granite to the West and South East

PROJECT ENGINEER

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081

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Daily Progress Report

2.

DATE.....

PROPERTY (Geology Cont)

Drilling: D.H. Footage

of the area. Epidote & chlorite minerals were noted in the various rock types found. Qtz veins fill highly fractured zones in quartzites and felspathic sandstones. Some minor sulphide mineralisation was noted associated with the quartz veins.

Sampling:

Rock types encountered were - Quartzites, felspathic sandstones, sandstones, hornfels and mudstones. The general strike of the strata is North South although local variations were noted in strike as well as dip.

Surveying:

The copper prospect in the centre of the target was found by following a trail of gossan creek ~~float~~ wash. Workings were full of water and a thorough examination was not possible. Extent of lode formation was limited and copper mineralisation limited. ~ 1% Cu in massive pyrrhotite with pyrite. Massive pyrrhotite pyrite lode 30" to water level measured is associated with a quartz blow dipping approximatly 35° West.

Geologic Mapping:

Two shafts of unknown depth and an adit 30 ft in length are the workings in the area.

Geophysical:

Discription of Echo mine may be read in the Geol. Survey Bulletin No 9.

GEOCHEMISTRY.

A total of 43 samples were taken from the area. These samples were assayed for a Cu (Biquinoline) and a THM. (Dithizone.).

General:

A small anomalous area was noted in the vicinity of the Copper prospect and along Nephele ck eminating from this area.

Remarks:

No further work is recommended in this target area.

PROJECT ENGINEER

2250 91 034

N

Ancestor Creek

TRAFALGAR ROAD.

Napoleon M.

Aplite

Gossan Sample
×8.
1

Creek.

ECHO TARGET.

TAPG V5
Dec 1965

Geology J. Erdmanis
D. Tonkin

Geochem B Tregellas.

Prospect. Qtz lode
with massive sulphides
pyrrhotite, pyrite + Chalcopyrite.

ECHO.

Sediments.

Granite

Constable

'Echo' Mos+(Mn Fe)WO4 Mine.

Granite.

Cu Biquinoline	o3
CuTHM	o7
Drainage Sample	o29
Soil Sample	×14.

Scale. 1" = 990' ft

5 cm

RUN 4. 75

225092

225093 66-414

035

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE.....

PROPERTY VENTURE 5

Drilling: LONG GULLY [redacted] TARGET D.H. Footage

Sampling:

GENERAL.

Two days were spent by the field crew in the area. On the first day field crew comprised J. Erdmanis, I. Tonkin and Pop Williams On the second day Pop Williams did not take part in the traverse. Good weather for field work was experienced on both days. Geochem-lab took two half days to process samples from the area.

Surveying:

ACCESS & TOPOGRAPHY

No track lead into the area the field crew hiked into the area. Closest point to the area which can be reached by rover is the junction of Wolfram & Fitzgerald cks on the Scamander Target area. Some two mile hike westwards from from this point is required before the Long gully target area is reached.

Geologic Mapping:

Topography of the area is variable from typical swamp plain with mainly granite underfoot to deeply dissected terrain in the sedimentary strata to the South west of the area.

GEOLOGY

Geophysical:

General:

Within the area of the [redacted] target a strip of granite about half a mile wide intrudes the sediments. In the vicinity of the contact sediments have been metamorphosed to phyllitic slate types and in some cases hornfels was noted. Spotted sandstones and quartzites are other types noted. On traverse the contact was crossed not less than five times and this was mapped as shown on the overlay

Apart for local variations near the contacts sediments in the area strike 350° with westerly dips ranging from 45° to 80°

Remarks:

Geological features noted in the granite were quartz blows. These were inspected and checked for mineralisation. Fracturing. 85°/163° noted.

In the sedimentary strata silicified sandstone beds quartzites were well fractured 70° 90° containing quartz filling fractures. No economic minerals were noted in these veins but low values ~~Shoulder~~ in the vicinity indicate mineral present.

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225094

980.

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Daily Progress Report

DATE.....

PROPERTY

Drilling: **D.H.** **Footage**

GEOCHEMISTRY.

Sampling: A total of forty one soil and silt samples were taken from the area. Ex Cu Biquinoline method was used to assess them for anomalous values but none was obtained.

Surveying: [redacted] TARGET.

Geologic Mapping: Reason for long sweeping valleys of Long Gully creek is preferential weathering of soft shales react to hard sandstones forming ridge.

Fracturing in the target area was generally good although in the vicinity of granite-sediment contacts more was expected.

Geophysical: CONCLUSIONS.

No further work is recommended on this target.

V

DFT

General:

Remarks:

PROJECT ENGINEER

B. 225095

LONG GULLY TARGET
VENTURE No 5.

Soil sample - x
Silt sample - o
& Biquinoline Cu - 05 in ppm.
ASSAYS - B. TREGELLAS.
Sampling + Geology
J. ERDMANIS D TONKIN

SCALE - 1" = 990'
PHOTO RUN - 7
TAS - 25804.

5 cm

098

N

Swampy Ck

Poison Ck

Sediments

Granite

Granite

Sediments

SHALES.

Long Gully

HOP Gully

SHALES

Quartz blow.

Aplite.

Hornfels.

Bonanza

Silicious

QUARTZITE.

AVENUE

RIVER

Seds

Granite.

225096

N

Photo
Run 7
Tas 25804

225097 66-414

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 24 November 1965

PROPERTY KIRWAN [redacted] TARGET

Drilling: D.H. Footage

Sampling:

LOCATION & ACCESS

The Kirwan [redacted] Target & Reconnaissance Area covers an area of approximately 6 square miles & lies about 10 miles west of St. Helens, on the Argonaut Road. Vehicular access to the area is good - by Argonaut Road to the north, Kirwan Link Road & Hogans Road to east & along Carters Road & Beahrs Road in the southern part of the area.

Surveying:

HISTORY OF FIELD WORK

Geologic Mapping: Two days were spent on initial sampling & geology, plus one half-day for follow-up work.

12th November: J. Erdmanis & D. Tonkin traversed the area north of the Kirwan Siphon. Sunny & hot. Traversing hindered by thickly scrub & reed-covered swamp lying in the centre of the area.

Geophysical:

17th November: J. Erdmanis traversed the southern portion of the area (south & west of Carters Road), whilst D. Tonkin covered the central part, between Siphon & Carters Road. Fine & warm day.

General:

20th November, p.m.: J. Erdmanis & D. Tonkin took twelve samples to check out anomalous value for K 95 & K. 95A. Day was sunny & very hot.

Remarks:

PROJECT ENGINEER

225098

050

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Daily Progress Report

DATE 24 - 11 - 75

PROPERTY KIRWAN (P. 6)

Drilling: D.H. Footage

Sampling:

TOPOGRAPHY & DRAINAGE

In the north of the area a swampy central lowland is flanked to the east & west by steep ridges. To the south the country is hilly & wooded.

Drainage flows south via Treloggen Creek, a tributary of the Scamander River.

Surveying:

GEOLOGY

Geologic Mapping:

The target area covers a biotite-granite intrusive which pinches out to the south, where it is flanked by sediments to east & west. Some variation was seen in the granite, but little alteration. Hornblende bearing sodic granite outcrops in small areas between K37 & K3 on the eastern ridge. Fine-grained granites & aplite dykes are common. On the east side of the target, west of Hogans road, the intrusive is melanocratic, having a dark-coloured ground mass, with light feldspars.

Geophysical:

Hornfelsed sediments, which are schistose & mica-bearing, form a sharp ridge on the western edge of the target.

General:

There is little alteration in the igneous rocks. At K37 the feldspar phenocrysts are kaolinised. Areas of quartz (vein-type) float occur, especially at K6, between Hogans road & K95 & near K89. At the second locality acicular, radiating crystals of tourmaline are associated with the quartz.

Remarks:

The sedimentary rocks to the east of the area are greywackes, sandstones & shales.

Between K94 & K95 there is float of gossanous iron-bearing material. A sample of crushed gossan was

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089

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Daily Progress Report

DATE 24 — 11 — 65

PROPERTY KIRWAN (P.3)

Drilling: D.H. Footage

run for CX Bigvinoline Copper & gave 30+ ppm.

GEOCHEMISTRY & SUMMARY

Sampling: A total of 94 silt & soil samples were taken & assay for Cu by Cold Extraction (HCl) with Bigvinoline. Besides the sample of gossan, only one sample, K,95, gave any value above 1 ppm. (It ran 7 ppm).

Surveying: This value was checked out with twelve soil & silt samples. The original value was duplicated, but no other sample gave a reading above 4 ppm Cu. Stray pieces of gossan were found on the hillside above. It seems likely that this anomaly was caused by

Geologic Mapping: very minor vein mineralisation. No further work is recommended on this target.

DIEI ✓

Geophysical:

General:

Remarks:

D G Larkin

PROJECT ENGINEER

KIRWAN TARGET

225100

T.A.P.G. VENTURE 5.

NOVEMBER 1965.

Alluvial Tin Workings (Abandoned)

Kinwans Link

Trafalgar Road To St. Helens

IMPASSABLE AT NEXT TIN WORKINGS

Quartz

Argonaut Road

GRANITE

Sediments Granite

Vehicle Track

SIPHON

KIRWAN

Hogans Road

Meland Creek

Granite

Test Pits

SEDIMENTS Granite.

Carters Rd

Granite Sediments

Schistose Seds.

Aplite dyke

Inlier of Seds.

Gossan Sample X95A 30 + Bleached

Sediments Granite

Beahrs Rd.

GRANITE

Gossan Scree.

Quartz

Seds

100'

LEGEND

Soil sample x⁹

Silt sample o⁵

C X Cu Biquinoline ppm. o¹

CXTHM - 3

Geochemistry - B. Tregellas

Geology - J Erdmanis, D. Tonkin

Photos: TAS 25769

TAS 25788

5 cm

090

225101 C 66-414

091

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Daily Progress Report

T.A.P.G. VENTURE 5.

DATE 30 — 11 -65

PROPERTY THE SAXELBY [redacted] TARGET.

Drilling: D.H. Footage

GENERAL.

Two-man-days were spent on traversing the area. J. Erdmanis carried out traversing and geological investigations collecting 47 soil and silt samples. Sunny warm weather was experienced on both days. B. Tregellas - processed the samples in the geochem-lab.

Sampling: ACCESS and TOPOGRAPHY.

The target area is approximatly 2 square miles in area, located in the North of the Austmmex Lisence area.

The Tasman Highway North, Terry vale Rd West and the Argonaut Rd to the South-East ring the area. North of the

Surveying: target is approximatly five miles West from St Helens along the Tasman Highway.

Access to the target area is good due to the area being encircled by the above mentioned roads as well as numerous tracks leading from these to service gravel pits and alluvial tin workings.

Geologic Mapping: A central peak dominates the topography with radiating ridges to all sides cover a large portion of the remaining area. Between the weathering granite ridges narrow swampy areas have developed where ti-tree scrub grows thickly. Open Eucalyptus forest covers the ridges.

Geophysical:

GEOLOGY

The area is situated entirely on granite. Although coarse Biotite granite predominates areas of other differentiates were noted. Areas of the target have abundent outcrop whilst in some parts

General: ie to the North East the granite is deeply weathered and granitic soil predominates. In the south central part large areas of flat outcrop were noted and difficulty in obtaining soil samples was experienced.

Traverse in the South of the area was manotonous geologicaly, very

Remarks: little alteration was seen. In the area round sample 20 a deep gully has been worked for alluvial tin. Granite in the gully has little to no alteration and very poor fracturing. Tin workings revealed vareous types of decomposed greissen float but outcrops of this rock type were not encountered not on any part of the target.

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225102

260

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Daily Progress Report

V5

DATE 30 - 11 - 65

PROPERTY (GEOLOGY CONT.) SAKELBY [redacted] TARGET.

Drilling: D.H. Footage

Sampling: The area in the North of the target geologicaly holds more intrest. Variations in granite texture was noted as well as pegmatite, aplite and mineralised quartz float was seen. Biotite tourmaline granite outcrops South of Sx 34+40 localities.

A quartz vein mineralised with pyrite arsenopyrite + tourmaline needles sheads float in locality of Sx 39. The vein is of insignificant size.

Surveying: Alluvial tin workings near locality of silt sample Sx 40 are limited. Granite outcropping in the floor of the pit showed no alteration. Rounded boulders of greenish greisen type rock were noted in the wash. Cassiderite was not detected.

Geologic Mapping: Granite in the vicinity of Sx 44 is deeply weathered and just South of this locality a trench has been dug on a shear. Some minor alteration was noted in felspars, to epidote. but tin mineralisation was not seen in either trench or mullock stacked on the side of the track which I obviously has come from the pit.

GEOCHEMISTRY.

Geophysical: Geochemistry of soil and silt samples taken from the target area did not give any anomalous values.

CONCLUSION.

No further work is recommended in this area prior assaying soil and silt samples for. Tin and Molybdenum.

General: NIL

Remarks:

PROJECT ENGINEER

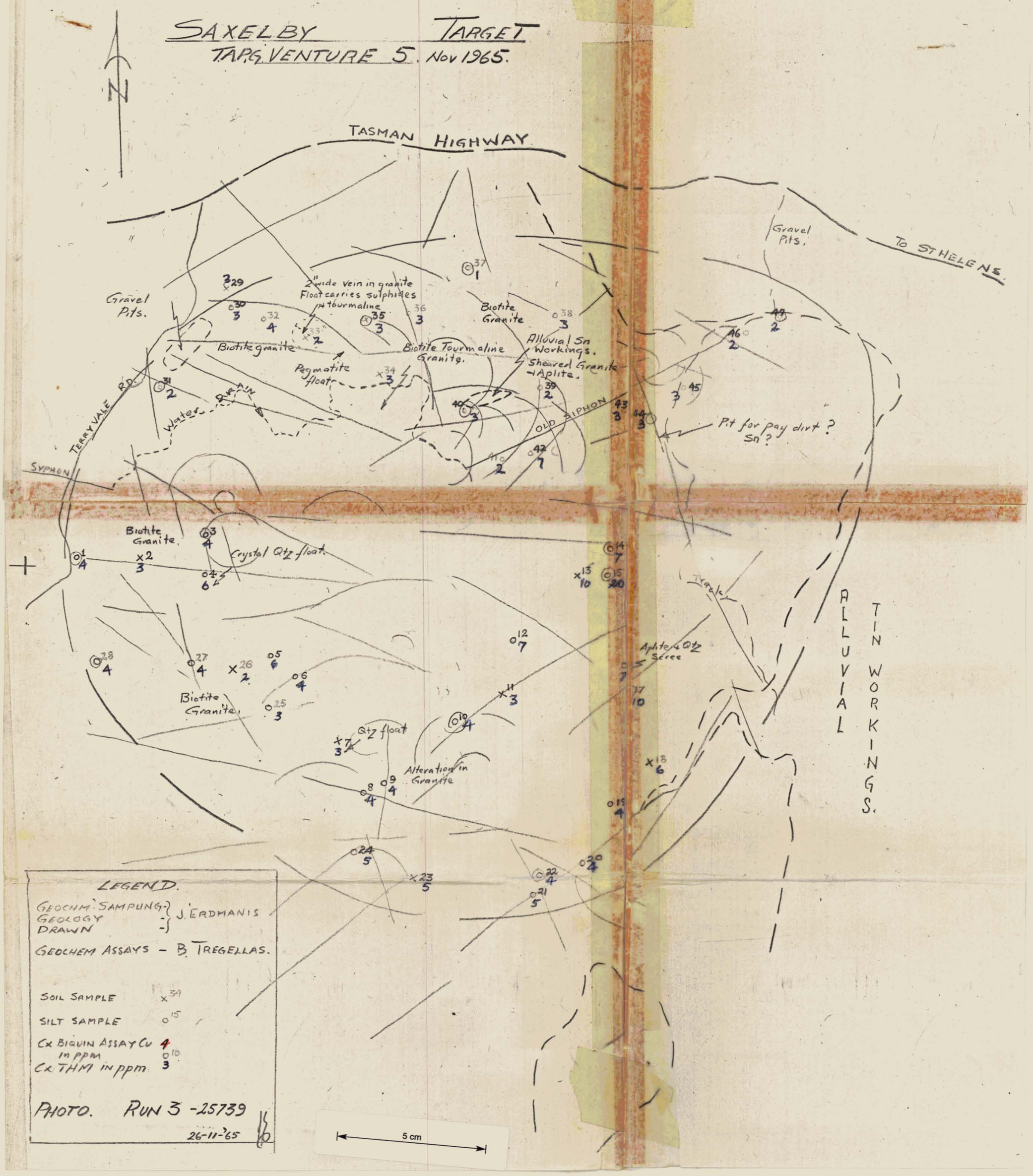
093

225103

C

SAXELBY TARGET

T.A.P.G. VENTURE 5. Nov 1965.



LEGEND.

GEOCHM SAMPLING - J. ERDMANIS
GEOLOGY -
DRAWN -

GEOCHEM ASSAYS - B. TREGELLAS.

SOIL SAMPLE x
SILT SAMPLE o
Cx BIQUIN ASSAY Cu IN ppm
Cx THM IN ppm

PHOTO. RUN 3 - 25739
26-11-'65

225104

094

225105

66-414

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

VENTURE 5.

DATE 22 - NOV - 65

PROPERTY SCAMANDER [redacted] TARGET.

Drilling: D.H. Footage

Sampling:

GENERAL.

Work on this particular target was devious with respect to field days worked on the target and assay results available. Difficulties associated with preparation of chemical solutions in the field-lab was the main cause.

D. Irving J. Erdmanis D Tonkin carried out traverses on the area aswell as assisted with preparations in the geochem-field-lab. Pop Williams assisted on traverses and carried out general prospecting in the area.

B. Ingellas carried out assays in the geochem lab.

Surveying: ACCESS & TOPOGRAPHY

Geologic Mapping:

A bulldozed track originating some 500 yds North of Pop Williams farm in Upper Scamander gives Vehicle access to the area. The target area is some 3 miles West from U. Scamander. here the vehicle track becomes impassable due to damaged bridges over the Fitzgerald ck. The target area stretches some two miles Southward along both banks of the Scamander River.

Topography of the target is varied, deep and steeply dissected country to the East to undulating open Eucalyptus bush country to the West.

Geophysical: GEOLOGY

General:

The target area is entirely located in undifferentiated Silurian, Ordovician Sedimentary rock strata.

Wester part of target was traversed by D. Irving. Sandy siltstones, Sandstones and phyllites were noted. Bedding showed general strikes of 330° dipping Westwards at steep angles. Erratic dips were also mapped probably caused due to inflections of strata on limbs of anticlines or synclines of major structure.

Remarks:

Mine workings of a minor nature were noted. A trench in the vicinity of sample 31 was mapped. Quartz float in the area revealed a small speck of chalcopyrite. Test pits and trenches on alluvium flats were noted in vicinity of samples 61AT61.

Contact of sediments and granite was not ~~found~~ crossed on traverse though minor float of granite in far South West of target, was seen in the creek.

The Eastern portion of the target was traversed by J. Erdmanis

PROJECT ENGINEER

225106

095 B

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Daily Progress Report

DATE Nov '65

(GEOLOGY CONT.)

PROPERTY

Drilling: D.H. Footage

noting that the geology was somewhat similar to that of the West. Pinkish weathering siltstones encountered on most part of the traverse gave little indication of strikes and dips. Small gossanous areas were encountered. These appear to be formed by iron rich residues from shales and sandstones. Crusts of this material were found on ridges and as float in creeks. Geochem assays were not anomalous in areas where laterite was found.

Sampling: On return to the area to check out some samples an adit in the North bank of Fitzgerald Ck was inspected. Sample 78 was at this location taken. Adit driven in sand and siltstones on a main fracture direction of 80° showed at the face a small quartz vein, 2" wide carrying pyrite, arsenopyrite and a dark brown mineral identified as wolframite. Lode is of insignificant size and mineralisation poor.

Surveying: Outcrops of silicified sandstones in vicinity of junction of Fitzgerald and wolfram creek showed good fracturing filled with numerous quartz veins. Although on inspection no sulphide mineralisation was found it is believed that minor Pb Zn + Cu minerals are associated with the quartz to give the low anomalous values in the area.

Geologic Mapping:

GEOCHEMISTRY

Geophysical: B Tregellas carried out geochem work.

Samples collected were originally assayed for Cu Bygrave Ltd. Two samples No 51 and 527 assayed above Cu 10 ppm which were checked out. Although 10 ppm of Cu were not regarded as good anomalous values follow-up work in the immediate area of samples was necessary for reconnaissance and orientation purposes.

General: Low anomalous values were caused by minor mineralisation in quartz filled fractured quartzites as above described.

Samples were further tested for Cu Zn and some samples for Cu THM. Low values were obtained on most of the target area except where mineralisation was expected as indicated by previous Cu assays.

Remarks:

CONCLUSIONS

It was found that the area lent itself more to dry silt sampling rather than soil sampling as the area has a very light soil cover.

Samples submitted will be assayed for THM. In the case of anomalous results are obtained no further

PROJECT ENGINEER

225107

PHOTO: RUN 7
25803.

SCAMANDER
TARGET
(TAPG - V5)
1" = 990'
CxZn DITHIZONE
OVERLAY
CxZn in ppm

5 cm

225108 B

PHOTO: RUN 7
25803

0.06

To Constable Creek and St. Helens

Fitzgerald

Adit with FeS ZnS. Creek

sandstone Silicified

Trench

Bedding (?) 76°

qtze; rusty with qtz veins

Phyllite 85°

qtz float

very minor chalco.

Creek

qtze

Wolfram

qtz float

Track Passable

To Upper Scamander

phyllite

cleavage

Holloway Creek

Rusty, alt rock

Greenish Shales.

Siltstone to qtze

Dirty qtze

Rock

Water

62°

Numerous trenches

Sandy siltstone with occassional shale

qtz veins

70°

50°

65°

70°

Minor granite porphyry float

Feldspathic sandstone

SCAMANDER RIVER

Soil sample - x 55
Stream sed - 058

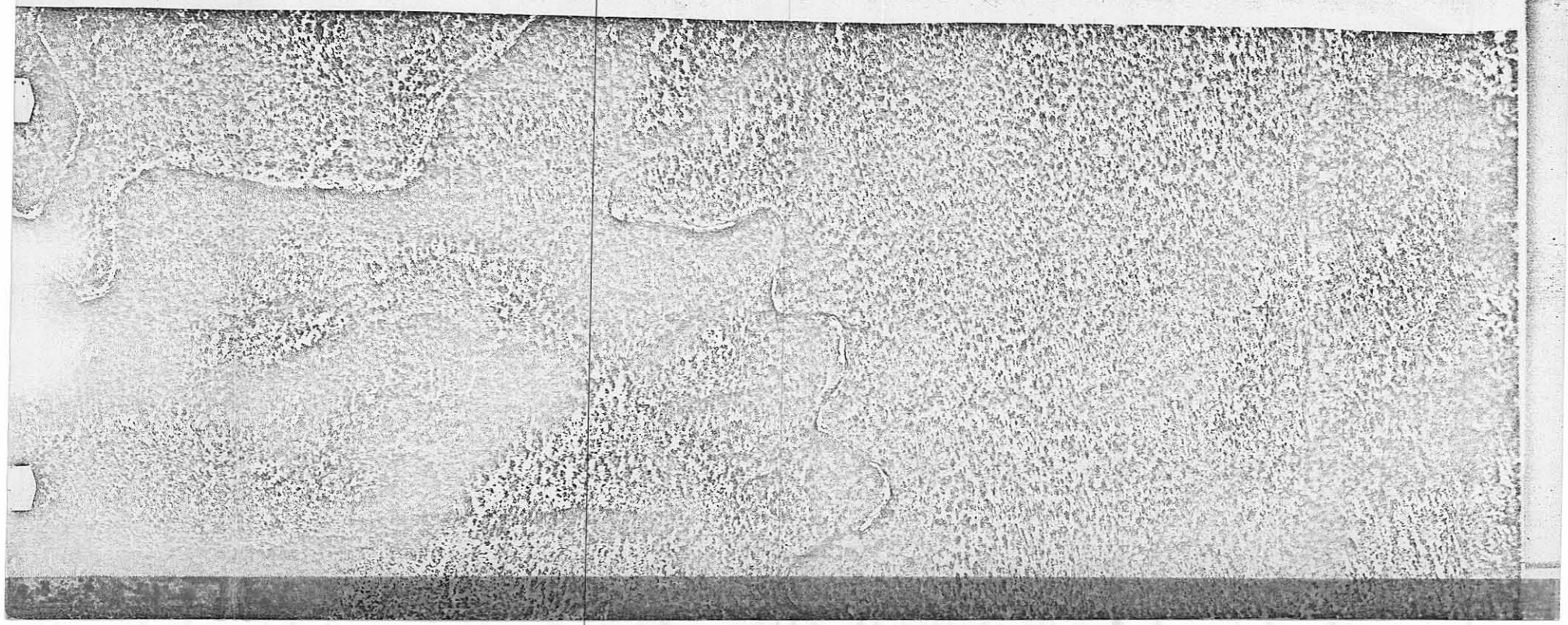
ex. Biguinoline Cu in ppm 3x3
THMetals 4
ex Zn in ppm
Assays - B. Tregellis

5 cm

SCAMANDER TARGET
(TARG - V5)
1" = 990'
Nov 2, 1965
J. Erdmanis, D. Tonkin
D. Irving
Photo - Run 7
Tas 25803

AVENUE RIVER

225109



099

225110

66-414

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 24 NOVEMBER 1965

PROPERTY TERRYVALE [redacted] TARGET

Drilling: **D.H.** **Footage**

Sampling:

LOCATION & ACCESS

The target covers an area of approximately 1/2 square miles and lies about 9 miles west of St. Helens, on the Argonaut Road. The Argonaut Road, Ericksen Link Road and Terry vale Road encircle the target to the south, east and north, whilst there is reasonable access to the western side of the target along a logging road.

Surveying:

HISTORY OF FIELD WORK

Two and a half man-days were spent in the field initially, by D. Tonkin, as follows:

Geologic Mapping: Saturday 20th November:

Fine & warm to hot.

Silt & soil sampling at north end of target.

Morning only spent on Terry vale.

Monday 22nd November:

Geophysical:

Sunny & hot.

Sampling on south-west portion of target

Tuesday 23rd November:

Sunny & hot

General:

Sampling on west & south-east portion.

TOPOGRAPHY & DRAINAGE

Remarks:

The area is hilly and timbered, but there is generally no undergrowth on the hill slopes. Whilst there is ample outcrop, there are no extensive areas of rock outcropping.

Drainage is all to the north, via two well-fed streams. All streams are generally poorly defined and

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225111

100

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 24 – 11 – 65

PROPERTY TERRYVALE (p. 8).

Drilling: **D.H.** **Footage**

flow through broad marshland areas. Sometimes the stream itself is defined by a narrow belt of dense tea-tree scrub.

Sampling:

FORMER MINING ACTIVITY.

The only past mineral exploitation has been at the north of the target area, where alluvial tin has been worked.

Surveying:

GEOLOGY

Geologic Mapping:

Although only igneous rocks outcrop, the Terryvale [redacted] Target is by no means monotonous petrologically. The intrusive is generally a coarse-grained, often porphyritic, unaltered biotite-granite, but there is a great diversity of differentiates. On the western side of the area, especially near sample T.2, there is a great deal of variation in the nature of the granite. Here, more sodic varieties occur and a

Geophysical:

hornblende-bearing granodiorite was noted, as well as a less saturated igneous rock, possibly a biotite-diorite. On the hill N.E. of sample T.60, a small area of quartz-syenite was encountered.

General:

The only alteration seen was in the S.E. corner of the area, between the junction of Argonaut Road with Kirwan Link Road + sample T.41. Here there is quartz veining, with associated iron oxide, epidote, tourmaline + minor kaolinisation.

Remarks:

Basic dykes, possibly dolerite, were found at sample site T.30 + between T.30 + T.99. Two parallel dykes, striking 300° + each 10 to 15 feet

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225112

101

CHAPMAN. WOOD. GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 22 – 11 – 65

PROPERTY TERRYVALE (P. 5)

Drilling: **D.H.** **Footage**

wide, do not out crop, but can be traced as narrow bands of red clayey soil.

No out crop of sedimentary rock was seen, but

Sampling: the granitic – sedimentary rock contact must be close to the ~~time of sip~~ steep ridge flanking the western edge of the target. Near sample T.4, pieces of contact hornfels were found held in the roots of an overturned tree, but outcropping rocks nearby are granite. Further

Surveying: floaters of hornfels were found on the slope below the road S.E. of T.5. However out crop on the hill due west of here is granite, so perhaps this metamorphic float represents a small inlier of sediment.

Geologic Mapping: Where out crop is good, fracturing can be seen readily in the granites. Near T.49 fracturing has given rise to prismatic granite tors. The principal fracture directions were noted at the following localities:

Geophysical:

T.48 : 025° & 090°

T.49 : 015° & 110° (stronger direction)

T.55 : 360°

T.60 : 045°

T.63 : 350°

General:

GEOCHEMISTRY

A total of 67 silt + soil samples were collected initially, followed by 32 check-out samples. Three

Remarks: of the original samples gave anomalous values for T.H.M. (determined with cold), these being T9 (20 ppm), T.4 (110 ppm) & T.3 (15 ppm). The follow-up samples failed to find anomalous values. The hillside above T.4 is a densely overgrown former

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102

CHAPMAN, WOOD, GRISWOLD AND EVANS PTY. LTD.

Daily Progress Report

DATE 6 - 12 - 65

PROPERTY TERRYVALE (Cont.)

Drilling: D.H. Footage

Sampling: site for lumbering activities & therefore likely to contain contamination. The stream 50 feet upstream from T4 has a rusty slick on the surface of the water. A soil sample from this spot gave only a background value for T.H.M.

Surveying: N.B. GEOLOGY.

The float material on the hillside below & between T.3 & T.4, which was originally referred to as hornfelsed sediment, has now been identified, from outcrop & field relations, as foliated fine-grained intrusive rock.

Geologic Mapping: Reconnaissance along Terryvale Road, to the west of the Terryvale [redacted] Target, showed the granite,-sediment contact to be about ½ mile west of the western edge of the [redacted] Target.

Geophysical: SUMMARY

The Terryvale [redacted] Target is an area of well-fractured, generally unaltered, much differentiated granitic intrusive. Only very minor basic hypabyssal intrusives occur.

General: Silt & soil sampling revealed no geochemical anomalies, except for three isolated values, which can be explained as erratics or as being due to human contamination.

Remarks:

D. G. Larkin

PROJECT ENGINEER

103

TERRYVALE

225114

G.

TARGET

T.A.P.G. VENTURE 5

NOVEMBER 1965

Terry vale Road

Vehicle Track

Porphyritic Granite
Granodiorite
Biotite diorite

Fine-grained granite

Foliated Fine-grained intrusive

Granite

Float

Alluvial Tin -Workings (Abandoned)

Erickson Link

Granite

Granite

Granite

Granite

Granite

Doleritic Dykes

Syenite

Derwent Road

Quartz Veining & Minor Kaolinisation

Argonaut

Kirwan Link

KIRWAN

To ST HELENS

← 100' →

Follow-up Samples

	Hm ppm		Hm ppm
68	3	85	1
69	3	86	2
70	3	87	2
71	2	88	1
72	3	89	3
73	3	90	1
74	1	91	1
75		92	1
76	3	93	3
77	1	94	2
78	2	95	4
79	1	96	3
80	1	97	1
81	10	98	1
82	1	99	1
83	2		
84	1		

Soil Sample : X

Silt Sample : O

T.H.M. CX Dithizone in p.p.m. :

Cu CX (Acid) Biquinoline in p.p.m. :

Major Fractures :

Geochemistry Analysis - B Tregellas

Geology & sampling - D. Tonkin

Kirwan Photo Target Sample : KO

5 cm

PHOTO : TAS - Run 4 - 25752

Scale = 1 inch : 990 ft.

225115

N

MAG. 13°30'

TASMAN

GEORGE RIVER.

HIGHWAY

SAXELBY

TERRYVALE

ERICKSONS ROAD

GOLDEN FLEECE

RIVULET

ST. HELENS

MEDEAS COVE

ARGONAUT LINK

ARGONAUT ROAD

TERRYVALE

ARGONAUT

ECHO

CREEK

TRAFALGAR

KIRWANS LINK ROAD

CONSTABLE

PELIAS CK.

KIRWAN

HOGANS

LOILA TIER

ARM CK.

RYANS CK.

SCAMANDER

CRAMPS CK.

EASTERN CREEK

LONG GULLY

SCAMANDER

PYRAMID

LONG GULLY CREEK

RIVER

AVENUE

E.L. 16/65.

LOCATION PLG

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —— ·· —— —— ·· —— Interpreted.
- ?—?— —— ·· —— —— ·· —— Inferred.
- o DRAINAGE SAMPLE SITE.
- × SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM CK. TARGET AREAS.

AUSTMINEX VENTURE No.5

SCAMANDER AREA TASMANIA

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

66-414

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles 1 1½ 2

C.W.G.S.E. Dwg. No

5 cm

225116

4257

N

MAG 12°30'

TASMAN HIGHWAY

GEORGE RIVER

SAXELBY

Tourmaline Granite.

Cut in altered granite possible mineralisation.

TERRYVALE

Obs.

ELDORADO ROAD

GOLDEN FLEECE

RIVULET

AMG 603950mE 5394476mN

ST. HELENS

MEDEAS COVE

Foliated fine grained intrusive

FINK ARGONAUT ROAD

Deep weathered granite

Alteration in Biotite granite (Epidote)

ARGONAUT

TERRYVALE

Diorite dykes

TRAFALGAR ROAD

ECHO

Quartz lode with massive pyrrhotite some pyrite and chalcopyrite Adit + shafts.

Echo Wolfram, molybdenum Prospect. Cuts.

ECHO CREEK

PELIAS CK.

KIRWAN

KIRWANS FINK ROAD

Alluvium test pits + auger holes

CONSTABLE

Prospecting pits

Dam.

HOGANS ROAD

Quartz blow - Arsenopyrite pyrite and hematite

Micro Granite

Prospect. Narrow lode with Arsenopyrite Galena chalco pyrite & Fe Sn

Locality where rich cassiterite ore stream found by R. Williams

BRECCIATED ZONE

LOLLA TIER

Porphyritic Diorite stock

ARM CK.

Quartz vein 2" with FeAsS, FeS, Fe(Mn)WO4

Pitching anticline.

Prospecting Trench

Diorite dyke.

Minor gashlodes in fractures of quartzite

RYANS Ck.

Wolfram Prospect. (Fe Mn) WO4 with minor MoS in quartz.

SCAMANDER

Trench

WOLFRAM CK.

PIPERS ROAD

Adit on Quartz vein, FeAsS, FeS & (Fe Mn)WO4.

Test pits

CRAMPS CK.

Shaft. FeAsS.

Prospect. FeS FeAsS Adit Old + Shaft

EASTERN CREEK

Orieco Copper Mine

Adit on chloritic lode (Mn ?)

SCAMANDER

LONG GULLY

Trenches.

Great Pyramid Tin Mine SnO_2 in fractured Quartzite hornfels.

PYRAMID

Adit. Chloritic lode Galena + Pyrite.

Narrow quartz vein with arsenopyrite & sphalerite.

Alluvium test pits

Zinc Prospect. ZnS, FeS in Magnetite Adit and shafts.

AMG 597,342mE 5411,630mN

LONG GULLY

TIGER CREEK

RIVER

AVENUE

Beulah = Scamander Bell Silver Prospect AgCl. FeS.

E.L. 16/65.

LOCATION PEG

To Scamander

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- Interpreted.
- Inferred.
- STRIKE & DIP.
- FRACTURE DIRECTIONS.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM. CK. TARGET AREAS.
- Cu. PROSPECT.
- LODE FORMATION.

AUSTMINEX VENTURE No 5

SCAMANDER AREA TASMANIA

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

66-414

GEOLOGICAL MAP

COMPILED BY J. ERDMANIS — JAN. 1966.

0 ½ Miles. 1 1½ 2

C.W.G.&E. Dwg. No 7.

5 cm

AMG REFERENCE POINTS ADDED

225117

4258

N

MAG 12°30'

TASMAN HIGHWAY

GEORGE RIVER

SAXELBY

TERRYVALE

ERICKSONS LINK

GOLDEN FLEECE ROAD

RIVULET

ST. HELENS

MEDEAS COVE CREEK

ARGONAUT LINK

ARGONAUT ROAD

TERRYVALE

ARGONAUT

ECHO

TRAFALGAR ROAD

PEJAS CK.

KIRWAN

HOGANS ROAD

TIERANS LINK

CONSTABLE

LOILA TIER

ARM CK.

RYANS CK.

SCAMANDER

WOLFRAM CK.

PITCHBLENDE CK.

EASTERN CREEK

CRAMPS CK.

LONG GULLY

LONG GULLY CREEK

SCAMANDER

PYRAMID

RIVER

AVENUE

AVENUE RIVER

E.L. 16/65.

LOCATION PEG

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —— ·· —— —— ·· —— Interpreted.
- —?—?— —— ·· —— —— ·· —— Inferred.
- ⊙7 DRAINAGE SAMPLE SITE.
- ×2 SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM. CK. TARGET AREAS.

AUSTMINEX VENTURE No.5

SCAMANDER AREA TASMANIA

66-414

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

HEAVY METALS GEOCHEMICAL MAP

Values are in ppm. cold extractable Total Heavy Metals.

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles. 1 1½ 2

C.W.G.aE. Dwg. No 8

5 cm

225118

4259

N

MAG 13°30'

TASMAN

HIGHWAY

GEORGE

RIVER

SAXELBY

TERRYVALE

ERICKSONS

ROAD

GOLDEN

FLEECE

RIVULET

ST. HELENS

MEDEAS COVE

LINK

ARGONAUT

TERRYVALE

ARGONAUT

ROAD

ECHO

CREEK

TRAFALGAR

KIRWAN

KIRWANS

LINK

HOGANS ROAD

CONSTABLE

ELIAS CK.

LOILA

TIER

ARM CK.

CRAMPS CK.

CREEK

RYANS CK.

SCAMANDER

WOLFRAM CK.

BITTERWOOD CK.

EASTERN

LONG GULLY

LONG GULLY CREEK

SCAMANDER

PYRAMID

RIVER

AVENUE

RIVER

AVENUE

E.L. 16/65.

LOCATION PEG

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —— ·· —— ·· —— Interpreted.
- —?—?— —— ·· —— ·· —— Inferred.
- o3 DRAINAGE SAMPLE SITE.
- x5 SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM CK. TARGET AREAS.

AUSTMINEX VENTURE No.5

SCAMANDER AREA TASMANIA

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

66-414

COPPER GEOCHEMICAL MAP

values are in ppm. cold extractable biquinoline Copper

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles 1 1½ 2

C.W.G.S.E. Dwg. No 9.

5 cm

225119

4260



LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —··— —··— Interpreted.
- ?—?— —··— —··— Inferred.
- o2 DRAINAGE SAMPLE SITE.
- x <1 SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM. CK. TARGET AREAS.

AUSTMINEX VENTURE No.5

SCAMANDER AREA TASMANIA

66-414

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

MOLYBDENUM GEOCHEMICAL MAP

Values are in ppm Molybdenum (carbonate fusion)

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles 1 1½ 2

C.W.G.&E. Dwg. No 11

5 cm

225120

4202

N

MAG. 12°30'

TASMAN HIGHWAY

GEORGE RIVER

SALTWATER RIVER

TERRYVALE

ERICKSONS ROAD

GOLDEN FLEECE RIVULET

FINK ARGONAUT ROAD

TRAFALGAR ROAD

KIRWANS ROAD

CONSTABLE ROAD

ST. HELENS

MEDEAS COVE

ELIAS CK.

LOILA TIER

RYANS CK.

SCAMANDER RIVER

LONG GULLY CREEK

AVENUE RIVER

SALTWATER CREEK

EASTERN CREEK

MILLSRAM CK.

PIPERS LAGOON

SALTWATER

TERRYVALE

ARGONAUT

ECHO

KIRWAN

CONSTABLE

ARM CK.

CRAMPS CK.

SCAMANDER

LONG GULLY

PYRAMID

AVENUE

E.L. 16/65.

LOCATION PEG

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —··— —··— Interpreted.
- ?—?— —··— —··— Inferred.
- o4 DRAINAGE SAMPLE SITE.
- ×7 SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM CK. TARGET AREAS.

AUSTMINEX VENTURE No5

SCAMANDER AREA TASMANIA

66-414

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

ZINC GEOCHEMICAL MAP

Values are in ppm cold extractable Zinc

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles 1 1½ 2

C.W.G.&E. Dwg. No10

5 cm

225121

4261

N

MAG 13°30'

TASMAN HIGHWAY

GEORGE RIVER

ST HELENS

MEDEAS COVE

SAXELBY

TERRYVALE

ERICKSONS LINK

GOLDEN FLEECE ROAD

RIVULET

ARGONAUT

TERRYVALE

ARGONAUT ROAD

ECHO

CREEK

TRAFALGAR

KIRWAN

KIRWANS LINK

CONSTABLE

PELAS CK.

LOILA TIER

ARM CK.

RYANS CK.

SCAMANDER

WOLFRAM CK.

BITTERN RD

CRAMPS CK.

EASTERN CREEK

LONG GULLY

SCAMANDER

PYRAMID

LONG GULLY CREEK

RIVER

AVENUE

AVENUE RIVER

E.L. 16/65.

LOCATION PEG

LEGEND

- INTRUSIVE. Granite Devonian
- SEDIMENTS. Undifferentiated
- GEOLOGICAL CONTACTS.
- —— ·· —— —— ·· —— Interpreted.
- ?—?— —— ·· —— —— ·· —— Inferred.
- DRAINAGE SAMPLE SITE.
- SOIL SAMPLE SITE.
- ROADS.
- TRACKS.
- ALLUVIAL TIN WORKINGS.
- ARM. CK. TARGET AREAS.

AUSTMINEX VENTURE No5

SCAMANDER AREA TASMANIA

66-414

S·K·55·4

Map control by photo mosaic St. HELENS 7(T)-41.

TIN GEOCHEMICAL MAP

values are in ppm. Halide volatilization Tin.

COMPILED BY J.ERDMANIS — JAN. 1966.

0 ½ Miles. 1 1½ 2

C.W.G.&E. Dwg. No 13.

5 cm

4263

5 cm

ST. HELENS 7 (T) - 41

APPROXIMATE SCALE 1 INCH TO ½ MILE

PREPARED BY DIVISION OF NATIONAL MAPPING, DEPT OF NATIONAL DEVELOPMENT 1957



AIR PHOTOGRAPHY 1950 1952

NMP/57/002

ST. HELENS 7 (T) - 41

66-414

225123