

ZEEHAN TIN DEPOSITS, WESTERN TASMANIA
PETROLOGICAL DESCRIPTIONS IN ABBREVIATED & TABULATED FORM

1984 - 1986

INDEX

<u>Page</u>	
1	TITLE PAGE & INDEX
ii	EXPLANATORY EXAMPLE SHEET
iii	ABBREVIATIONS
	<u>SURFACE SAMPLES</u> (39 polished thin sections, 2 thin sections)
1	Poverty Point
2	Williams & Queen N° 5 Dumps
3	Oonah/Comstock
4	Taylor's/Clarke's (adits & stopes)
5	Stormsdown
6	Queen Hill Bench/ZQ1 & Golf Course Opencut
	<u>DRILL HOLE SAMPLES</u>
	Holes, for which samples are described, are arranged sequentially for each deposit. Sample numbers are listed sequentially for each hole.
	<u>QUEEN HILL DRILL HOLES</u> (190 PTS, 49 TS, 16 PS)
8-64	Drill holes (prefix ZQ) 3, 4, 5, 6, 13, 18, 45, 46, 47, 48, 49, 50, 51, 52, 53, 55, 57, 58, 60, 62, 63, 66, 71.
	<u>MONTANA DRILL HOLES</u> (51 PTS, 44 TS)
65-85	Drill holes (prefix ZM) 20, 27, 37, 67, 78, 86, 88.
	<u>SEVERN DRILL HOLES</u> (217 PTS, 69 TS, 8 PS)
86-143	Drill holes (prefix ZS) 39, 40, 41, 43, 65, 69, 72, 73, 74, 75, 77, 80, 82, 87.

ABBREVIATIONS continued

prob. probable	St stannite	vn. vein	NB. <u>Grainsize approximations</u>
prox. proximal	stalact. stalactitic	volc. volcanic	fg. (fine-grained) = <100microns
Py pyrite	stockw. stockwork	vs vesuvianite	mg. (medium-grained) = 100u-1mm
Py. pyritic	subang. subangular	vs. versus	cg. (coarse-grained) = >1mm
Py' pyrite after pyrrhotite	subeq. subequant		
	subeq. "	wh. white	
qz quartz	subh. subhedral	wk. weak	
qzite. quartzite	subrd. subrounded	wkly. weakly	
qzose. quartzose	syn. syngenetic		
	T trace	x twinning	
rdd. rounded	t'out throughout	X-cut. cross-cuts	
reg. regular	tab. tabular	xd. crossed	
repl. replaces	tc talc	xstal. crystal	
rexst. recrystallised	Te tetrahedrite	xstall. crystallised	
rt rutile	text. texture		
	tp topaz	yell. yellow	
s/w stockwork	tp. topazised		
scatt. scattered	tr tourmaline	zr zircon	
sd siderite	tr. tourmalinised	<u>ADDENDUM</u>	
sd. sideritised	TS thin section	adj. adjacent	
se sellaite	tuff. tuffaceous	acc. accessory	
sed. sedimentary		ca calcite	
sh. shale	u microns	exsol. exsolution	
shr. sheared	U+ uniaxial positive		
silic. silicified	U- uniaxial negative	gen. generally	
sim. similar	ui. unidentified	pseudo. pseudomorph	
slt. siltstone			
sm. small	var. variable		
Sp sphalerite	vfg. very fine-grained	sde. sulphide	
spher. spheroidal	vi vivianite	ser sericite	
sr sericite	vlt. veinlet		
sr. sericitised			
est. sandstone			

ABBREVIATIONS

→ indicates, altered to, followed by	brecc. brecciated	dom. dominant	Jm jamesonite
x twinning	bt magnetite	ellip. elliptical	l+ length slow
c̄ with	C common	equ. equant	l- " fast
cin within	'C' kerogen	espec. especially	lam. laminated
// parallels	C carbonaceous material	eh. euhedral	lge. large
# cleavage	C. carbonaceous	evap. evaporitic	lc leucoxene
= equal amounts	C.A. core axis	fd feldspar	lent. lenticular
=. equivalent	cb carbonate	feld. "	leuc. leucocratic
⊥ perpendicular to	CCF Crimson Creek Formation	fg. fine-grained	lith. lithological
.. up to .. (grainsize)	cent. central	FI fluid inclusions	lx leucoxene
A abundant	cg. coarse-grained	fl fluorite	mass. massive
abt. "	ch chert	fol. foliated	mat. material
acic. acicular	chalc. chalcedonic	fract. fractured	Mc marcasite
alt. altered	cl chlorite	frag. fragment	med. medium
amt. amount	cless. colourless	fram. framboïd(al)	mg. medium-grained
amyg. amygduloidal	clr. clear	glom. glomerophyric	min. mineralisation, -ed
ang. angular	coalesc. "	gm. groundmass	ms muscovite
anh. anhedral	coalesc. "	Gn galena	mt magnetite
anis. anisotropic	conc. concentrate	gr. green	o'grown overgrown
ank. ankeritic	cong. conglomeratic	gran. granular	o'print overprinted
arg. argillic	congl. "	granobl. granoblastic	occ. occasional
ap apatite	cont. continuous	gy. grey	oct. octahedral
As arsenopyrite	Cp chalcopyrite	GYP. gypsumiferous	oth. other
assoc. associated	corrod. corroded	hm hematite	PA paragenesis
	cren. crenulated	hyd. hydrothermal	pl phlogopite
	cs cassiterite		plag plagioclase
	cub. cubic		pleo. pleochroic
			PH (photographic) feature
B+ biaxial positive	det. detrital	incl. inclusions	pheno(s). phenocryst(s)
B- " negative	detr. "	interbdd. interbedded	Po pyrrhotite (Poh- hexagonal;
biog. biogenic	diag. diagenetic	interlam. interlaminated	poik. poikilitic Pom- monoclinic)
biref. birefractance	discont. discontinuous	interstit. interstitial	poss. possible
birefl. birefractance	diss. disseminated	ir ilmenorutile	pref. preferably
Bl boulangierite	dissem. "	IR internal	princ. principle
BM base metal	dk. dark	reflections	prism. prismatic (continued)
br. brown	do dolomite	irreg. irregular	
	do dolomitic	isotr. isotropic	

PETROGRAPHIC SUMMARIES - ZEEHAN SURFACE- OONAH/COMSTOCK Page 1/1										page 3														
SAMPLE No.	LOCATION	TEXTURE	QZ	CB	SD	MS	CL	PL	TR	FL	SE	TP	PO	PY	MC	AS	CS	ST	TE	BM	OTH.	FI	PA	PH
264839 (239)	Oonah West dump	roughly banded Bl Cp trails in St; euh.cs trails in Cp & St; subh.cg. As & Gn in mg.gran.qz; St vn. in euh.qz & As; anh.cg Py cut by As	C											A	A	A	C				A-	A-Bl?	** **	needle tin
264841 (240)	N-end Bradshaws opencut	subh.mg.Py o'-printing mg.subh.hyd. qz c interstit.sp; Cp interstit.to Py & qz; Py vlt.in Cp; anh.As in fract.in Py; ang.'C' fragments & fram.Py in sed.frag.; colloform Sp	C-			A-								C	A		T?				C-	A-'C'	*	
264849 (247)	Comstock dump	fg. anh.qz gm.; euh.mg.Py at Sp boundaries & corroded by Sp & Gn c Gn cores/incl.; anh.Sp Gn intergrown; As qz repl.Py; Cp incl.in Sp; rdd. Gn incl. in Sp	C-											A	A			(red)			C-	Sp,		
272069 (313)	Comstock dump	f-mg. anh.qz gm.; masses of euh.-subh.fg.Mc c lamellar text. c Sp & Py intergrowths; Sp surrounds corroded tab.Py grains												C							A-	Gn	?	
264838 (238)	Queen No.2 dump	mg.intergran. subh.qz sd; spherulitic qz corrod. sd; blebby St & Te incl.-2Ou in Gn; corrod.subh.m-cg.Sp; rare-5u Py Pd incl.in Sp; Gn vlt.cut sd	C		C									T	A			T? T			A-	Sp,	* *	Te & St incl.in Gn

PETROGRAPHIC SUMMARIES - ZEEHAN SURFACE- TAYLORS/CLARKES Page 1/1										page 4														
SAMPLE No.	LOCATION	TEXTURE	QZ	CB	SD	MS	CL	PL	TR	FL	SE	TP	PO	PY	MC	AS	CS	ST	TE	BM	OTH.	FI	PA	PH
264125 (110)	Taylor's main opencut	breccia- cg. stressed qz & anh.Py in fg. anh.qz & Py gm.; some Py frag. have gross lam. structure -> ex-Py. sediment	C			A-								C										
264129 (113)	Clarkes Lode- No.2 Adit	roughly banded Py St; anh.Py qz cut by Gn; qz band c fg.subh.oct.Py anh.As in fract.in Py	C			A-		pl/er?						C	A	A	C				A-	Gn,	** **	cs in St
264126 (111)	Clarkes Lode- S end main bench	mass. anh.-subh. Py- fract.& in-filled c qz; anh subh.As in qz-filled overall ang.breccia of Py frags. in qz	C											C	A						A-	Sp	?	* qz sm.
264131 (114)	Splay off Clarkes -main bench	mass.PyI; cut by thin qz pl? vn.; cut by qz PyII vn. (PyII euh.oct.); Sp sr qz ex-sed. areas	A			A		A?						C							T-	Sp	?	
272075A (319)	Clarkes Lode- stope now in-filled in floor of main bench	sd Gn tc, C.Py. shale, sd, Gn, Py, Gn Py. ang. frags.-5um in f-mg. anh.-euh. qz gm.	C		A									A							A-	T-te		
272075B (320)	"	euh.-subh.mg.qz c ang. sd & C shale frag.; interstit. Sp o'prints qz; qz vn. cut Sp; colloform sd domains c euh. qz	C			C		(stained)						A							C-	Gn,	?	
272075C (321)	"	Gn vlt.in Sp	C		A									T	C						A-	Sp,	*	

