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A tabulated presentation of metallic mine and prospect data for the Pine Creek Geosyncline, N.T.

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CONTENTS

ABSTRACT

Information describing 563 metallic mineral occurrences in the Pine Creek Geosyncline is given in tabulated form. The information was gathered as a base for a regional analysis of the province's mineralisation with emphasis on distribution controls. In other tables, metal production, reserves and resources (expressed as dollars) are ranked in relation to the various elements and mineral fields; mineral fields and host formations are ranked in order of average mine/deposit value; and host formations are ranked in value per km^2. The abundance and value of the different genetic groups of mines and deposits are also listed.

Uranium dominates the statistics; out of 16 metals it accounts for 92% of production and reserves and resources value, and its abudance int he northeast of the province is reflected by the 91% share of the total value contained in the Alligator Rivers Uranium Field. The average mine/deposit size is also greatest in this field, again indicating the dominance of uranium in the statistics. Most of the uranium of the province is in the Cahill Formation of the Alligator Rivers Uranium Field, and this Formation has a demonstrated value 12 times greater than its nearest rival, and has the largest average mine/deposit value by a factor of five.

Eight major genetic groups of mineral deposits are defined. Seventy percent of the mines and deposits are hydrothermal but account for only 1% of total value. The metamorphic hydrothermal/epigenetic, and modified syngenetic U $\pm$ Au $\pm$ Cu, Pb + Zn + Ag $\pm$ Cu of the Alligator Rivers and Rum Jungle Uranium Fields make up 17% of the total number of mines and deposits, but account for 92% of the total value.

INTRODUCTION

In a regional analysis of the Pine Creek Geosyncline metalliferous province Needham (1981) described the geology, geophysics and evolution of the province, discussed the distribution and classification of metallic mineral occurrences, and estimated the mineral potential of some elements. The analysis was largely based on a tabulated lisitng of 563 metallic mineral occurrence descriptions. The data base is included in this Record as an Appendix.

Where known, the name, production statistics, geometry, ore character, host lithologies and formation, metamorphic grade and apparent mineralisation controls are given for each entry and a genetic classification attempted. The location of the sites is shown in Figure 1. The main data source is Crohn (1968). Additional information was gained from company reports held by the Northern Territory Department of Mines and Energy, and published company reports.

The occurrences include 410 mines (recorded production) or deposits (published reserve or resource, no production) with an aggregate recorded production + published reserve resource value of $21 650 million as at 31 December 1980. Sixteen metals have been mined, uranium accounting for 92%, lead 3.4%, gold 1.4%, and all other metals $<1\%$. 91% of the value is shared by only nine mines and deposits (uranium and minor gold) in the Alligator Rivers Uranium Field (A in Figure 1); the Rum Jungle Uranium Field accounts for 6.6%, the Cullen Mineral Field 1.3%, and all other areas less than one percent.

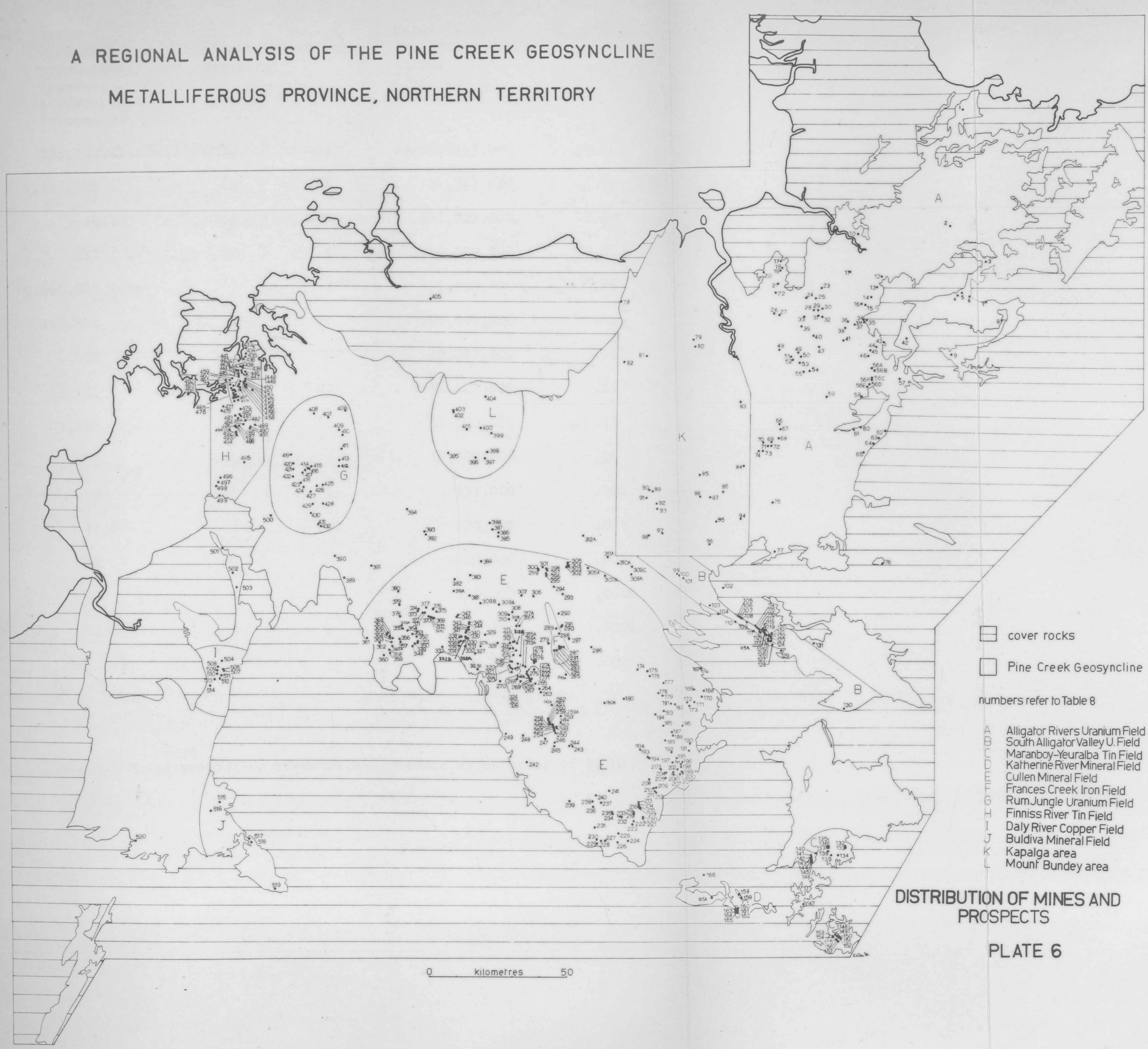
Tables 1-4 indicate the tonnage, value, and number of mines/prospects for each metal and each mineral field; rank the mineral fields in order of average mine/deposit value; and rank the host formations in order of average mine/deposit value and average value per km^2. Table 5 ranks genetic groups in terms of value, and records the number of mines/deposits for each category.

REFERENCES

CROHN, P.W., 1968 - The mines and mineral deposits of the Katherine Darwin region. Bureau of Mineral Reources, Australia, Bulletin 82, 171-282.

NEEDHAM, R.S., 1981 - A regional analysis of the Pine Creek Geosyncline Metalliferous Province, Northern Territory. MSc. Thesis, James Cook University of North Queensland.

A REGIONAL ANALYSIS OF THE PINE CREEK GEOSYNCLINE METALLIFEROUS PROVINCE, NORTHERN TERRITORY



cover rocks

Pine Creek Geosyncline

numbers refer to Table 8

A Alligator Rivers Uranium Field
B South Alligator Valley U. Field
C Maranboy-Yeuralba Tin Field
D Katherine River Mineral Field
E Cullen Mineral Field
F Frances Creek Iron Field
G Rum Jungle Uranium Field
H Finniss River Tin Field
I Daly River Copper Field
J Buldiva Mineral Field
K Kapalga area
L Mount Bundey area

DISTRIBUTION OF MINES AND PROSPECTS

PLATE 6

Metal	Total recorded production, reserves & resources (tonnes)	No. of mines & deposits	No. of prospects	Value $A (as at 31 Dec. (1980)	% of total value
U_3O_8	335,781.75	30	131	19,945,447,000	92.13
Pb	1,129,820	25	36	734,362,400	3.39
Au	10.1	120	17	312,626,900	1.44
Ag	357	19	4	182,959,200	.85
Fe	10,600,000 (ore)	7	5	169,900,000	.78
Zn	198,860	4	16	142,346,000	.66
Sn	4,500	153	6	59,587,200	.28
Cu	31,525	32	47	53,687,600	.25
Co	1,550	1	1	33,300,000	.15
W	600	10	1	14,300,000	.06
Ta	9	2	1	957,000	.004
Cd	47.5	1	-	223,000	.001
As	36	1	-	220,000	.001
Mn	300	2	-	200,000	.0009
Bi	43	1	2	167,700	.0008
Mo	.13	2	-	6,300	.00003

Table 1. Metal production reserves and resourc es in order of value.

Mineral field	Metals in order of value (minor amounts in parentheses)	No. of mines & deposits	No. of prospects	Value $A (as at 31 Dec1980)	% total value
Alligator Rivers	U, Au (Sn)	9	68	19,681,529,000	90.9
Rum Jungle	U, Pb, Ag, Zn, Cu (Co, Au)			1,419,217,900	6.56
Cullen	Au, Ag, Sn, Pb, Zn, Cu, W (As, Bi, Cd, Mn, Mo, U)	184	56	287,343,700	1.33
Frances Creek	Fe (Au, Ag)	6	2	160,000,000	.74
South Alligator Valley	U, Au (Ag, Pb)	14	18	57,272,600	.26
Maranboy-Yeuralba	Sn, W (Cu)	24	2	14,268,800	.066
Mount Bundey	Fe, Au	2	8	9,600,000	.044
Finniss River	Sn (Ta, Au)	69	2	6,548,100	.030
Daly River	Cu	6	4	2,184,000	.010
Buldiva	Au, Sn	4	1	1,926,700	.0089
Katherine River	Au, Cu	8	1	356,000	.0016
Kapalga area	(Au)	1	20	115,000	.0005
isolated mines	Au, U (Sn, Pb)	15	4	10,055,000	.046
				21,650,413,000	

Table 2. Relative value of production + reserves + resources between the mineral fields, sharing metals in order of value for each field.

1	Alligator Rivers average value ($m):	2 186.8	U, Au
2	Rum Jungle	141.9	U, Pb, Ag, Zn, Cu
3	Frances Creek	26.7	Fe
4	Mount Bundey	4.8	Fe
5	South Alligator Valley	4.1	U, Au
6	Cullen	1.6	Au, Ag, Sn, Pb, Zn, Cu, W
7	isolated mines	.7	Au, U
8	Maranboy-Yeuralba	.6	Sn, W
9	Buldiva	.5	Au, Sn
10	Daly River	.4	Cu
11	Kapalga	.1	Au
12	Finniss River	.1	Sn, Ta
13	Katherine River	.05	Au, Cu

Table 3: Mineral fields ranked in order of average mine/deposit value.

Value per km^2 ($ million)			Average mine/deposit value ($ million)	
1.	Cahill Formation	12.1	1. Cahill Formation	3185.7
2.	Masson Formation	1.1	2. Myra Falls Metamorphics	567.3
3.	Myra Falls Metamorphics	0.6	3. Masson Formation	177.4
4.	Wildman Siltstone	0.07	4. Wildman Siltstone	14.9
5.	Kapalga Formation	0.06	5. Edith River Volcanics	4.6
6.	Koolpin Formation	0.05	6. Koolpin Formation	3.8
7.	Burrell Creek Formation	0.02	7. Kapalga Formation	2.6
8.	Gerowie Tuff	0.015	8. Gerowie Tuff	1.2
9.	Edith River Volcanics	0.01	9. Burrell Creek Formation	0.9
10.	Dorothy Creek Volcanics	0.01	10. Carpentarian Granites	0.5
11.	Carpentarian granites	0.002	11. Mundogie Sandstone	0.07
12.	Mundogie Sandstone	0.0004	12. Dorothy Creek Volcanics	0.03
13.	Crater Formation	0.00007	13. Zamu Dolerite	0.007
14.	Zamu Dolerite	0.000006	14. Crater Formation	0.006

Table 4: Host formations ranked in orer of value per km^2 and average mine/deposit value.

Group	No. of mines & deposits	% No.	Value $ million	% value
metamorphic hydrothermal/ epigenetic	27	13.4	19681.52	91.7
modified syngenetic	21	4.0	1264.05	5.9
hydrothermal	360	67.9	234.86	1.1
supergene	40	7.6	169.8	0.8
epigenetic	19	3.6	57.27	0.3
exhalative	14	2.6	30.97	0.1
metasomatic	1	0.2	19.14	0.1
syngenetic	4	0.8	-	-

Table 5. Genetic groups of mines and deposits - abundance and value.

APPENDIX 1: Data base, mines and prospects of the Pine Creek Geosyncline

(1) uranium as U_3O_8, iron as lump ore

(2) London Metal Bulletin, 31/12/80, as $A; mostly calculated as refined metal prices. U as U_3O_8, Fe as 65% lump ore

Name	Reference no. Plate 7	Mineral Field (ref. Plate 7)	Metals	Production (reserves) tonnes metal (1)	Grade	Value $million (2)	Geometry	Ore character	Host lithologies	Host formation	Metamorphic grade	Controls	Classification
Black Rock	1	A	U	prospect			disseminated irregular, offset by faulting	disseminated uraninite	chlorite & mica quartz schist	Bxn	retrograded m. amphibolite	unconformity; ?fault ?chlorite alteration	metamorphic hydrothermal ± epigenetic; uncf. related?
Tadpole	2	A	U	prospect			irregular to planar, thin	uraninite in pegmatite	quartz mica schist + quartzite	Bxm	m. amphibolite	pegmatite	hydrothermal
Nabarlek	3	A	U	9,550 U_3O_8	1.84% U_3O_8	567.27	steep tabular to shallow cigar	massive and disseminated pitchblende, near-surface oxidised halo	chlorite mica quartz schist, nearby graphite schist	Bxm	retrograded m. amphibolite	shear zone ?unconformity, ?chlorite alteration	metamorphic hydrothermal uncf. related, ?stratabound (relict)
	4	A	U	prospect			tabular $\sim 60^\circ$	secondary near surface	quartz mica schist and graphite schist	Bc			
Gurrigarri	5	A	U	prospect			tabular $\sim 60^\circ$	secondary near surface	quartz mica schist and graphite schist	Bc	m. amphibolite	stratabound; quartz stockwork breccia	stratabound, metamorphic hydrothermal, ± epigenetic; uncf. related?
Gorrunghur	6	A	U	prospect				secondary near surface	quartz mica schist	Bc			
Myra Falls	7	A	Sn	0.4		.0053	alluvial	cassiterite		Cz	-		alluvial (reworked Mesozoic?)
Caramal	8	A	U	prospect			arcuate band $\sim 70^\circ$	sooty pitchblende in breccia veins	hematitic chlorite quartz schist	Bxm	retrograded m. amphibolite	unconformity, ?stratabound (relict), chlorite alteration?	stratabound?, metamorphic hydrothermal ± epigenetic; uncf. related?
Beatrice	9	A	U	prospect			irregular to planar steep	minute dissemination and vein-filling films of sooty pitchblende; secondaries in weathered zone	sericite hematite mica chlorite quartz schist	Bxn	"	shear zone breccias, unconformity	metamorphic hydrothermal ± epigenetic; uncf. related?
Arrara	10	A	U	prospect			tabular shallow	secondary, at base of pre-Kombolgie weathering profile	chlorite quartz sericite schist	Bsk?	"	pre-Kombolgie weathering zone, ?stratabound ?fault	stratabound uncf. related ?epigenetic
Magela 2	11	A	U	prospect			disseminated low-order radiometrics	-	garnet graphite biotite amphibole feldspar magnetite quartz schist	Bsk?	m. amphibolite	stratabound	stratabound, metamorphic hydrothermal
Ranger 49	12	A	U	prospect						Bo?	"		
Ranger 34	13	A	Cu, U	prospect						Bsk?	"	fault?, stratabound?	
Ranger 35	14	A	U	prospect						Bsk?	"		
Magela 1	15	A	U	prospect			disseminated low-order radiometrics	-	garnet graphite biotite amphibole feldspar magnetite quartz schist	Bc	"	stratabound	stratabound, metamorphic hydrothermal
Ranger 44	16	A	U	prospect						Bc	"	stratabound?	
Ranger 30	17	A	U	prospect						ABn	"		
Ranger 29	18	A	U	prospect									
Ranger 45	19	A	U	prospect						ABn	"		
Ranger 50	20	A	U	prospect						ABn	"		
Ranger 26	21	A	U	prospect						ABn	"		
Ranger 25	22	A	U	prospect						ABn	"		
Ranger 32	23	A	U	prospect						ABn	"		
Ranger 59	24	A	U	prospect						ABn	"		
Ranger 60	25	A	U	prospect						ABn	"		

Ranger 24	26	A	U	prospect							ABn	m. amphibolite		
Ranger 23	27	A	U	prospect							ABn	"		
Ranger 58	28	A	U	prospect							ABn	"		
Ranger 2	29	A	U	prospect							ABn	"		
Ranger 31	30	A	U	prospect							Bc	"	stratabound	
Ranger 61	31	A	U	prospect							ABn	"		
Ranger 17	32	A	U	prospect							Bc	"	stratabound	
Ranger 9	33	A	U	prospect							ABn	"		
Jabiluka 1	34	A	U	(3,484 U_3O_8)	0.25% U_3O_8	206.95	folded layers and lenses 0-70°, in 4 main stratiform ore-bearing horizons	disseminated & vein-filling pitchblende, & selvages to chlorite & alteration zones Minor coffinite and brannerite	quartz sericite chlorite ± graphite schist	Bc	retrograded m. amphibolite	stratiform, unconformity, chlorite alteration, brecciation	stratabound, metamorphic hydrothermal & epigenetic; uncf. related?
Jabiluka 2	35	A	U, Au	(8.1 Au) (203,800 U_3O_8)	15.3gm/T Au 0.39% U_3O_8	130.98 12,105.70				Bc	"		
Jabiluka 3	35A	A	U	prospect				similar to Jabiluka 1 & 2	similar to Jabiluka 1 & 2	Bc	"		
Ranger 5	36	A	U	prospect						Bc	m. amphibolite	stratabound?	
Ranger 68	37	A	U	prospect	'medium grade', significant and unclosed body		irregular breccia pipe	Sooty & colloform pitchblende. Minor secondaries	chloritised breccia & pegmatoid, quartz sericite chlorite schist; nearby carbonate	Bc	retrograded m. amphibolite	chlorite alteration & brecciation at ABn/Bmc contact	stratabound & metamorphic hydrothermal + epigenetic, uncf. related?
Ranger 4	38	A	U	prospect	'medium to low grade' small body		irregular to tabular		chloritic pegmatoid breccia in dolomite	Bc	"	"	"
Ranger 27	39	A	U	prospect						ABn	m. amphibolite		
Urralugoorwa	40	A	U	prospect						ABn	"		
Ranger 57	41	A	U	prospect						ABn	"		
Algodo	42	A	U	prospect						Bxm	"		
7J	43	A	U,Au	prospect				disseminated pitchblende, near-surface secondaries	chlorite + graphite schist, hematitic near surface	Bc	retrograded m. amphibolite	stratabound, chlorite alteration unconformity	stratabound + metamorphic hydrothermal + epigenetic, uncf. related?
Hades Flat	44	A	U	deposit				pitchblende in fractures & breccia zones, minor thucolite, near-surface secondaries	chlorite schist, chloritic breccia	Bc	"	chlorite alteration and brecciation at ABn/Bc contact, unconformity	"
Ranger 63	45	A	U	prospect						ABn/Bc	m. amphibolite	stratabound	
Ranger 19	46	A	U	prospect						ABn/Bc	"	"	
Ranger 55	47	A	U	prospect						ABn	"		
Ranger 28	48	A	U	prospect						Bc	"	stratabound	
Austatom 1	49	A	U	deposit	confidential			disseminated pitchblende in schist below Km	Lower Cahill schists	Bc	"	"	
Ranger 37	50	A	U	prospect						Bc	"	"	
Ranger 10	51	A	U, Cu	prospect						Bc	"	"	
Ranger 54	52	A	U	prospect						Bc	"	"	
Ranger 53	53	A	U	prospect						Bc	"	"	
Ranger 14E	54	A	U	prospect						Bc	"	"	
Ranger 14W	55	A	U	prospect						Bc	"	"	

Ranger 1	No. 4 Anomaly	56A	A	U	prospect	'thin, low grade mineralization'					Bc	retrograded m. amphibolite	
	No. 3 Orebody	56B	A	U	(50,000 U_3O_8)	<0.3% U_3O_8	2,970.00	shallow-dipping tabular to lensoid body with conformable base and down-dip & blind lenses.	massive, disseminated and filmy pitchblende mainly in chlorite rock and chlorite schist, and carbonaceous schist, particularly in brecciated zones	chlorite schist & microgneiss, silicified carbonate, massive chlorite, graphite schist	Bc	"	
	No. 1 Orebody	56C	A	U	(50,000 U_3O_8)	0.3% U_3O_8	2,970.00	inverse cone with down-dip conformable lenses			Bc, ABn	"	stratabound, brecciation, chlorite alteration, silicification, unconformity
	No. 2 Anomaly	56D	A	U	prospect	'significant primary & secondary mineralisation'					Bc	"	stratabound + ?metamorphic hydrothermal + epigenetic - probably carbonate solution. Uncf. related?
	No. 9 Anomaly	56E	A	U	prospect	'medium grade secondary mineralisation' (no deeper drilling)					Bc	"	
	No. 5 Anomaly	56F	A	U	prospect						Bc	"	
		57	A	U	prospect						Bo	m. amphibolite	
Copper Knob		58	A	Cu	prospect				near-surface secondary copper minerals	carbonate	Bc	"	
Anomaly Q		59	A	U	prospect						ABn	"	
Anomaly A		60	A	U	prospect					brecciated chlorite quartz schist, quartzite	Bc	m. amphibolite	stratabound to stratiform chlorite alteration, brecciation; ?faulting, ?unconformity
Koongarra		61	A	U	(12,300 U_3O_8)	0.346% U_3O_8	730.62	coalesced stratiform lenses form elongate wedge, dip 55°	disseminated pitchblende; secondary tail near surface	quartz chlorite & graphite schists, garnet quartz muscovite chlorite schist	Bc	retrograded m. amphibolite	stratabound + metamorphic hydrothermal + epigenetic, uncf. related?
AS2		62	A	U	prospect						Bo	m. amphibolite	
AS3		63	A	U	prospect						Bo	"	unconformity, ?stratabound ?faulting
AS4		64	A	U	prospect						Bo	"	?metamorphic hydrothermal or epigenetic
AS5		65	A	U	prospect						Bo	"	
		66	A	Cu,Pb,Zn	prospect			tabular steep	minor sulphide films in quartz breccia, oxidised near surface	quartz breccia in gneiss	ABn	"	faulting hydrothermal
		67	A	Cu,Pb,Zn	prospect						ABn	"	" "
		68	A	Cu	prospect						ABn	"	" "
Cooinda area		69	A	U	prospect						Bc	"	stratabound?
"		70	A	U	prospect						Bc	"	"
"		71	A	U	prospect						Bc	"	"
"		72	A	U	prospect						Bc	"	"
"		73	A	U	prospect						Bc	"	"
"		74	A	U	prospect						Bc	"	"
Ten Mile Creek		75	A	Pb, Cu	prospect			tabular steep subparallel lodes	secondary minerals (mainly boudantite) in oxidised zone	quartz breccia zones in phyllite	Bc	u. greenschist	faulting (axial plane) hydrothermal
Five Sisters		76	A	U	prospect				no visible uranium minerals	carbonaceous phyllite	Bo	"	carbon, unconformity
Graveside		77	A	U	prospect			tabular steep lodes	minor secondary minerals	breccia zones in phyllite, nearby metadolerite	Bo	m. greenschist	breccia, ?unconformity ?epigenetic
Crusader 6		78	K	Th	prospect			tabular steep conformable	thorium in detritals	sandstone, conglomerate	Bpm	l. greenschist	stratiform syngenetic
Kapalga		79	K	Fe	prospect			"	ilmenitic siltstone	siltstone	Bpm	"	" "
Crusader 2		80	K	Th	prospect			"	thorium in detritals	sandstone, conglomerate	Bpm	"	" "
Crusader 4		81	K	Th	prospect			"	"	"	Bpm	"	" "
		82	K	U	prospect						Bnm?	"	
Red Lily		83	K	U	prospect				no visible uranium minerals	carbonaceous shale	Bsk	m. greenschist	stratabound? epigenetic?

Spring Peak	84	K	Sn	prospect			tabular steep sub-parallel lodes	minor disseminated cassiterite	quartz veins in sandstone	Bpm	m. greenschist	quartz reefs	hydrothermal
South Alligator	85	K	U	prospect	<7.2% Pb over 2m; As <5000 ppm, Au <30 ppm				siliceous breccia zone in carbonaceous siltstone	Bsk	"	breccia zone	hydrothermal
Barramundie	86	K	U	prospect					carbonaceous siltstone & carbonate	Bnm	"	?stratabound	
	87	K		prospect						Bvs	"	?stratabound	
Mundogie Hill	88	K	Au	mine			tabular steep	native gold	quartz breccias in phyllite + arkose	Bpm	"	quartz breccia reefs	hydrothermal
Anomaly 5a	89	K	U	prospect					laterite	Cz	l. greenschist		supergene
Anomaly 5A	90	K	U	prospect					"	Cz	"		"
Anomaly 5C	91	K	U	prospect					"	Cz	"		"
Anomaly 5073	92	K	U	prospect						Cz	l. greenschist		"
Anomaly 5087	93	K	U	prospect						Cz	"		"
Yemelba	94	K	Au	.0071		.115	several tabular steep bodies + alluvial	native gold, minor copper	quartz reefs in quartzite	Bpm, Cz	u. greenschist	quartz reefs	hydrothermal
Anomaly 5P	95	K	U	prospect						Bnm	m. greenschist		
Anomalies 5218, 5219	96	K	U	prospects						Cz	"		supergene
Coirwong	97	K	Cu	prospect						Bdz	l. greenschist		
Coirwong Gorge	98	K	U	prospect				near-surface radiometric anomaly	chert-banded hematitic siltstone	Bsk	"		supergene
Gerowie No. 1	99	B	U	prospect				radon anomalies; no significant mineralisation	sandstone, siltstone	Bpw	"		
Gerowie No. 2	100	B	U	prospect				"	"	Bpw	"		
Gerowie No. 3	101	B	U	prospect				"	"	Bpw	"		
Waterfall Creek	102	B	U	prospect				"	"	Bu	"	faulting	
Anomaly 2J	103	B	U	prospect	0.98% U_3O_8			'yellow-green micaceous uranyl phosphate'	weathered tuffaceous shale & basalt	Bvs	"	faulting, ?stratabound	syngenetic/supergene
Sandstone (north)	104	B	U	prospect	<300 ppm U_3O_8 (<14 ppm U_3O_8 at depth)	4850ppm Th		no visible mineralisation	andesite, sandstone lenses	Bhp	unmetamorphosed	stratabound	supergene
Teagues	105	B	U, Au				linear near-surface	patchy secondaries along faulted sst/altst contact & in fractures	carbonaceous siltstone, sandstone	Bsk, Bhe	l. greenschist	faulting, carbonaceous shale, nearby acid volcanics, unconformity	epigenetic
Rockhole	106	B	U, Au	152 U_3O_8	1.1% U_3O_8	9.03	several irregular tabular steep bodies along reverse fault	patchy pitchblende, near-surface secondaries	"	Bsk, Bhe	"	"	"
O'Dwyers	107	B	U,Au	Au figures included under El Sherana			"	"	"	Bsk, Bhe	"	"	"
Sherrets	108	B	U, Au				"	"	"	Bsk, Bhe	"	"	"
Airstrip	109	B	U	prospect			near-surface x4 radioactivity	no visible mineralisation	"	Bsk	"	"	"
Sandstone (south)	110	B	U	prospect	<300 ppm U_3O_8, (<14 ppm U_3O_8 at depth)	4850 ppm Th.		"	andesite, sandstone lenses	Bhp	unmetamorphosed	stratabound	supergene
Alligator Fault	111	B	U	prospect			near-surface radioactivity	"		Bhr	l. greenschist		supergene
Boundary (or Stockpile)	112	B	U	prospect				fine-grained pitchblende, yellow powdery secondaries	aphanitic rhyolite	Bhe	"		"
Flying Fox	113	B	U	prospect			near-surface radioactivity	"		Bhe	unmetamorphosed		"
El Sherana West	114	B	U, Au, Ag	.007 Ag 185 U_3O_8 .33 Au	0.8% U_3O_8 0.5% U_3O_8	.0036 11.0 5.34	irregular to carrot-shaped bodies aligned along strike	patches, veins & disseminations of pitchblende, mainly in fractures. Near surface secondaries. Minor Au, Pb	cherty ferruginous siltstone, carbonaceous siltstone, sandstone	Bsk, Bhe	l. greenschist	carbonaceous shale, nearby acid volcanics, ?faulting, unconformity	epigenetic
El Sherana	115	B	U,Au	226 U_3O_8		13.42							
	116	B	U	prospect			near-surface radioactivity		ferruginous siltstone	Bsk	"	"	supergene
Chavat's Line	117	B	U	prospect					rhyolite	Bhe	unmetamorphosed	"	"
Monolith	118	B	U	prospect						Bsk	l. greenschist	"	
Orchid Gully	119	B	U	prospect						Bhe	unmetamorphosed	"	supergene

Koolpin	119A	B	U	3 U_3O_8	0.12% U_3O_8	.178		sooty & massive pitchblende in fractures	carbonaceous shale	Bsk	l. greenschist	?faulting, unconformity	epigenetic
Scinto 6	120	B	U	3 U_3O_8	0.15% U_3O_8	.178		secondary mineralisation	sheared and jointed ?volcanics	Bdz/Bhe?	"	"	epigenetic supergene?
Cliff Face	121	B	U	prospect						Bsk, Bhe	"	"	"
Palette	122	B	U, Au	Au incl.under El Sherana 124 U_3O_8	2.5% U_3O_8	7.37	pipe inclined ~45°, cuts across Bsk/Bhe contact	vein & massive nodular pitchblende, veins native gold, minor secondaries	carbonaceous shale, sandstone	Bsk, Bhe	"	"	epigenetic
Skull	123	B	U_3O_8	3 U_3O_8	0.5% U_3O_8	.178	irregular	pitchblende nodules in shears	carbonaceous shale	Bsk	unmetamorphosed	"	"
Saddle Ridge	124	B	U	78 U_3O_8	0.2% U_3O_8	4.63	steep tabular	secondaries, mainly metatorbernite, minor sooty pitchblende below orebody	bleached carbonaceous shale, rhyolite & tuff	Bsk, Bhe	l. greenschist	carbonaceous shale, nearby acid volcanics, fault, unconformity	epigenetic
Scinto 5	125	B	U	22 U_3O_8	0.4% U_3O_8	1.307	irregular	secondaries, minor pitchblende	bleached white & red ferruginous shale	Bsk	unmetamorphosed	"	supergene?
Palm	126	B	U	prospect						Bhe	"	"	"
Clear Springs	127	B	U	prospect						Bhe	"	"	"
BMR No. 1	128	B	U	prospect						Bhe	l. greenschist	"	epigenetic
Coronation Hill	129	B	U, Au	75 U_3O_8	0.3% U_3O_8	4.46	several ore shoots in volcanic breccia pipe	sooty pitchblende, disseminated & patchy; native gold	altered fragmentary volcanics & carbonaceous schist	Bhe, Bsk	"	carbonaceous shale, brecciation, unconformity	"
Sleisbeck	130	B	U	3 U_3O_8	0.4% U_3O_8	.178	irregular near-surface in breccia	pitchblende, secondaries, with phosphate and minor Cu, Ni, Co, As	chloritic carbonaceous schist, quartzite, mudstone	Bsk	"		?epigenetic
Zamu Creek	131		Pb	mine	'20 TAg-Pb ore'	.0065	several subparallel veins	argentiferous galena	dolerite	Bdz	"		
	132		Cu, Pb	prospect			narrow steep tabular lodes, enechelon within 330° shear zone	near surface copper oxides	diorite	Bdz	"		
Ludan	133		Cu Pb	prospect						Bdz	"	Quartz stringers & blows in shear zone, diorite	supergene
Yeuralba King	134	C	Sn				steep tabular lode	quartz-tourmaline-cassiterite lode	pelitic hornfels, sandstone	Bu	low grade hornfels	nearby Yeuralba Granite	hydrothermal
	135	C	Sn				alluvial			Cz		"	
	136	C	Sn				"			Cz	"	"	
Sandy Creek	137	C	Sn				"			Cz	"	"	
Zimmons	138	C	Sn, W				narrow steep tabular lodes	topazite lode	altered granite	Bgy	deuteric/hydrothermal alteration	Yeuralba Granite, hydrothermal veins & alteration zones	hydrothermal
Lyna's	139	C	Sn, W, Au				"	tourmalinite/topazite lode	"	Bgy	"	"	"
O'Sullivans	140	C		35 WO_3 10 Sn		.8 .1325	"	tourmalinite lode and stringers	"	Bgy	"	"	"
Gates	141	C		15 Cu	24% Cu	.024	"	quartz-wolframite greisen	"	Bu/Bgy contact	"	"	"
Black Cat	142	C					"	"	"	"	"	"	"
Vivian	143	C					"	"	"	"	"	"	"
	144	C					"	"	"	"	"	"	"
	145	C					"	"	"	"	"	"	"
Black Diamond	146	C					"	"	"	"	l. greenschist	Yeuralba Granite at depth, hydrothermal veining	"
King River	147	C	Sn	4.7 Sn	2.8%	.0623	"	quartz-tourmaline vein with stringers of coarse cassiterite	shale	Bu	"	nearby Yeuralba Granite, conjugate hydrothermal veins ('Main Lode')	"

Star of the West	148	C	Sn				narrow steep tabular lodes	quartz-tourmaline lodes with narrow quartz-cassiterite veinlets	sandstone (partly tuffaceous), shale	Bu	l. greenschist	nearby Yeuralba Granite, conjugate hydrothermal veins ('Main Lode')	hydrothermal
Osman	149	C	Sn				"	"	"	Bu	"	"	"
Anaconda & Ray	150	C	Sn				"	"	"	Bu	"	"	"
Eureka & Bull	151	C	Sn				"	"	"	Bu	"	"	"
Southern Claims	152	C	Sn				"	"	"	Bu	"	nearby Yeuralba Granite, conjugate hydrothermal veins ('Stannum King Lode')	"
Ibis	153	C	Sn	1000 Sn	~1.6% Sn	13.25	"	"	"	Bu	"	"	"
	154	C					"	"	"	Bu	"	"	"
Stannum King & Progress	155	C	Sn				"	"	"	Bu			
Klondyke	156	C	Sn				"	"	"	Bu	"	"	"
Red Cross	157	C	Sn				"	"	"	Bu	"	"	"
Carpentaria	158	D	Cu	6	<40% Cu	.0096	small shallow tabular lodes	azurite malachite	sheared and veined volcanics and tuffs	Bvd	"	host volcanics, nearby diorite, hydrothermal veins	"
Dorothy Creek	159	D	Cu	prospect			"	"	"	Bvd	"	"	"
	160	D	Au, Cu				"	auriferous quartz-ironstone reefs, minor Cu. Sulphidic at depth?	quartz ironstone reefs in basalt, tuff and diorite	Bvd/Bdz	"	"	"
	161	D	Au, Cu				"	"	"	Bvd/Bdz	"	"	"
	162	D	Au, Cu			.243	"	"	"	Bvd/Bdz	"	"	"
	163	D	Au, Cu	.015 Au			"	"	"	Bvd/Bdz	"	"	"
	164	D	Au, Cu				"	"	"	Bvd/Bdz	"	"	"
	165	D	Au, Cu				"	"	"	Bvd/Bdz	"	"	"
Mount Gates	165A	D	Au	.007		.113	"	auriferous quartz reefs	quartz reefs in metasandstone slate	Bu	"	hydrothermal veins, nearby dolerite and granite dykes	"
ABC	166		U	prospect	0.4% U_3O_8	.0238	shallow irregular	autunite, phosphuranylite	interbedded tuff and amygdaloidal basalt	Bhm	unmetamorphosed	host volcanics, ?nearby deep fracturing	epigenetic/syngenetic?
Mary River Junction	167	E	Cu	20		.32	shallow narrow steep lodes	malachite	minor brecciated shears in and beside massive quartz vein, in shale	Bsp	l. greenschist	shearing along hydrothermal vein	hydrothermal supergene
Ross	168	E	Sn	prospect					shale, greywacke	Bu	"		
Mary River Camp	169	E	Sn	40		.64	alluvial			Cz			
Coronet Hill	170	E	Cu, Pb, Zn, As, Ag	56 Cu	22% Cu	.896	several parallel steep lodes 1-3 m wide	quartz-sulphide lodes, pyrite+arsenopyrite±chalcopyrite+galena, ±<0.7% Bi. Scorodite in oxidised zone	tuff, greywacke, siltstone	Bsp/Bu	l. greenschist	NW shear zone	hydrothermal
	171	E	Cu?	prospect					granite	Bgc			"
Mount Davis	172	E	Cu	204		3.26	steep tabular, 2 parallel lodes 0.3-1.2 m wide	quartz sulphide lodes	quartz mica-chlorite pendant in granite	Bgc/Bu	hornfels	roof zone of pluton hydrothermal veins	"
	173	E	Cu	prospect						Bu			
Evelyn	174	E	Pb,Ag,Zn, Cd,Au	22 Ag, .007 Au, 47.5 Cd, 4990 Pb, 5980 Zn	5.5% Pb, 7.5% Zn, 275 gm/T Ag	Ag 11.28 Au .113 Cd .223 Pb 3.24 Zn 4.28	mine steep parallel lodes <1.7 m wide crosscut bedding	Ag-Pb-Zn lodes, mainly galena & sphalerite; hydrozincite, smithsonite, cerrusite, anglesite, malachite, azurite in oxidised zone	crystalline dolomite/skarn/calcareous slate	Bsk	calc-silicate hornfels	skarn adjacent to granite	metasomatic
El Dollarado	175	E	Co	prospect				no apparent mineralisation	chert-nodular siltstone	Bsp	l. greenschist		

Northern Hercules	176	E	Au,Pb,Cu	.93 Au, minor Cu		15.04	3 parallel lodes < 1.6 m wide, dip 70° W	quartz sulphide lodes, pyrite ± arsenopyrite, minor Cu Pb Zn sulphides. Extensive secondary mineralisation in oxidised zone	greywacke slate	Bsp	l. greenschist	shear zone, hydrothermal veins	hydrothermal
Bower Bird	177	E	Cu, Pb	8 Pb		.0052		argentiferous galena	greywacke, slate	Bsp	l. greenschist	shear zone, hydrothermal veins	"
Mount Gardiner	178	E	Cu,Pb,Ag	2 Pb		.0012	2 parallel shear zones, steep tabular	quartz, iron & copper oxides & carbonates	slatey hornfels	Bu	hornfels	shear zones, hydrothermal veining, nearby granite	"
IXL	179	E	Cu	mine			vertical shear zone		"	Bu	"	"	"
McCarthys	180	E	Pb Ag	.16 Ag 400 Pb	280 gm/TAg 70% Pb	.082 .260	transgressive steep shear zone < 1 m wide		andalusite-chiastolite hornfels	Bsk	"	"	"
Waldens	180A	E	Sn	mine			alluvial			Cz			
Mount Diamond	181	E	Cu	3.4 Ag, 36 As, .005 Au, 40 Bi, 2500 Cu	10% Cu	Ag 1.74 As .22 Au .081 Bi .156 Cu 4.0	NW lode, steep tabular < 1 m wide	quartz-chalcopyrite lode, minor bornite, Cu oxides + carbonates	hornfels with aplite & quartz porphyry dykes	Bu	hornfels	shear zone, hydrothermal veining, nearby granite	hydrothermal
Waldens	182	E	Cu	100	8-10%	.16	steep NW lode < 2 m wide	"	hornfels	Bu	"	"	"
	183	E	Au	prospect			alluvial			Cz			
Wandie	184	E	Au	.18 Au		2.91	numerous NNW lodes, steep & ~ parallel to strike, and alluvial	auriferous quartz veins	slate	Bu, Cz	l. greenschist	hydrothermal veins	hydrothermal
	185	E	Au	prospect			"	"	"	Bu, Cz	"	"	"
Saunders Rush	186	E	Au	mine			"	"	"	Bu, Cz	"	"	"
	187	E	Au	mine			"	"	"	Bu	"	"	"
Brilliant	188	E	Au	mine			"	"	"	Bu	"	"	"
Crest of the Wave	189	E	Sn	100		1.32	tabular body in NW lode dip 60°, parallel to strike, ~0.2 m wide	quartz-cassiterite reef, minor arsenopyrite	'chlorite schist'	Bu	"	"	"
Tableland	190	E	Pb,Zn	prospect			quartz lenses < 0.7 m wide in NNW shear	galena sphalerite quartz lenses	shale, greywacke	Bu	"	shear zone, nearby granite	"
Silver Spray	191	E	Pb,Zn,Ag	85 Pb		.055	"	"	"	Bu	"	"	"
Harveys or Last Hope	192	E	Au	1 Kg Au		.016	steep E reefs	auriferous quartz reefs	"	Bu	"	"	"
	193	E	Cu	prospect					"	Bu	"	"	"
	193A	E	Cu	prospect					"	Bu	"	"	"
	194	E	Cu	prospect					"	Bu	"	"	"
Wolfram Hill	195	E	W, Cu	70 Cu 440 WO_3	30% Cu	.112 10	2 parallel NW-NNW steep lodes, subparallel bedding & joints. Best ore in steeply pitching pipes < 3 m wide.	wolfram, chalcopyrite, minor pyrite, arsenopyrite in quartz biotite gangue	hornfelsed siltstone	Bu	hornfels	hydrothermal veining, nearby granite	"
Connells	196	E	Sn	mine			irregular	disseminated cassiterite in granite	granite	Bgw		hydrothermal veining near granite cusp	"
Kellys	196A	E	Sn, W	mine				cassiterite & minor wolfram in quartz + iron oxides + argillite reef	"	Bgw		"	"
Irwins	197	E	Cu	mine			NW lode, 1.2-3.1 m wide		hornfelsed siltstone	Bu	hornfels	hydrothermal veining, nearby granite	"
Martins	198	E	Sn	mine			irregular	disseminated cassiterite in granite	granite	Bgw		hydrothermal veining near granite cusp	"
Bells	199	E	Sn, monazite				shallow, gently dipping tabular bodies in breccias	disseminated cassiterite in breccia zones	slate	Bu	hornfels	breccia zones, nearby granite	"
Black Angel	200	E	Sn	35 Sn		.464	"	"	"	Bu	"	"	"
Vulcan	201	E	Sn				"	"	"	Bu	"	"	"

Mountain View	202	E	W	mine			NW-NNW bodies dip 30°, 3-15 cm wide	wolfram in pegmatite	slate	Bu	hornfels	pegmatite near granite	hydrothermal
Black Hill	203	E	Sn, W	prospect			narrow tabular	wolfram in quartz veins	"	Bu	"	hydrothermal veins near granite	"
Crocodile Billabong	204	E	Pb	prospect			near-surface 10 m wide steep	cerussite	siltstone	Bu	"	crush zone in contact aureole	"
	205	E	Pb	prospect			near surface		"	Bu	"		"
	206	E	Pb	prospect			"		"	Bu	"		"
Wests	207	E	Pb	17.5 Pb .024 Ag	70% Pb 950 gm/T Ag	.0114 .0123	"		"	Bu	"		"
Emerald Creek	208	E	Sn	30		.397	several parallel steep lodes parallel to strike	cassiterite in quartz reefs, iron oxides & lead oxides at surface	siltstone, greywacke	Bu	l. greenschist	hydrothermal veins near granite	"
Creers	209	E	Au				shallows short steep, irregular to tabular	auriferous quartz reefs & adjacent small fracture in-fills	"	Bu	"	hydrothermal veins near granite, extensive faulting	"
Lady Jane	210	E	Au	.15 Au	14 gm/T	2.43	"	"	"	Bu	"	"	"
Lady Mary	211	E	Au				"	"	"	Bu	"	"	"
Gordon & Parrys	212	E	Au				"	"	"	Bu	"	"	"
Scotchman	213	E	Sn, Cu	460 Sn		6.09	irregular narrow N-NW bodies in fissures and shears < 0.8 m wide. Also alluvial	cassiterite in quartz kaolin veins, and in fissure infills, minor copper	"	Bu, Cz	"	hydrothermal veins near granite	"
Boylings	214	E	Sn				"	"	"	Bu, Cz	"	"	"
	215	E	Au						"	Bu	"	"	"
Quigley's Reef	216	E	Au		20 gm/T		large, tabular, steep, < 2.1 m wide	auriferous quartz reef	"	Bu	"	"	"
	217	E	Au				"	"	"	Bu	"	"	"
Jones Bros	218	E	Au	0.026	24.5 gm/T	.42	long steep N tabular body < 1 m wide	ferruginous quartz reef	greywacke, slate	Bu	l. greenschist	hydrothermal vein near granite	"
Tollis Reef	219	E	Au	mines	21.4 gm/T		long steep NW tabular body < 1.3 m wide	"	"	Bu	"	"	"
Morris	220	E	Sn	mine			N-NW irregular lenticular bodies in sub-conformable shears	cassiterite in quartz kaoline veins	"	Bu	"	"	"
	221	E	Sn	130		1.72	"	"	"	Bu	"	"	"
	222	E	Sn				"	"	"	Bu	"	"	"
Shamrock	223	E	Sn	mine			"	"	"	Bu	"	"	"
	224	E	Cu	prospect					"	Bu	"	"	"
Edith River	225	E	U	prospect			patchy bodies in N or NW shears	disseminated torbernite & meta-autunite ± apatite & hematite in quartz veins	silicified greisenised granite	Bgc		hydrothermal alteration zones & quartz veining in granite	"
	226	E	U	prospect			"	"	"	Bgc			"
Tennysons	227	E	U	prospect			"	"	"	Bgc		"	"
	228	E	U	prospect	0.1-0.2%		"	"	"	Bgc		"	"
	229	E	U	prospect	U_3O_8 at surface		"	"	"	Bgc		"	"
	230	E	U	prospect			"	"	"	Bgc		"	"
Hore & O'Connor's	231	E	U	prospect			"	"	"	Bgc		"	"
Yenberrie	232	E	W, Mo, Bi mines	0.125 Mo 160 WO_3		.0063 3.5	steep tabular reefs, parallel to aplite dykes. Also dissem. in joints & mica rich seams	greisenised quartz aplite dykes containing wolfram & minor molybdenite in quartz veins. Fe,Cu,Bi sulphides at depth	aplite dykes in granite	Bgc		altered aplites near roof of granite	"
	233	E								Bgc		"	"
Yenberrie	234	E	U	prospect			patchy bodies in N or NW sheets	disseminated torbernite & meta-autunite ± apatite & hematite in quartz veins	silicified greisenised granite	Bgc		hydrothermal alteration zones & quartz veining in granite	"
	235	E	Sn							Bgc			

Woolngi	236	E	Au	0.13		2.1	E & NNW tabular body < 1 m wide, steep	auriferous quartz reef	hornfels	Bu	hornfels	hydrothermal veining near granite	hydrothermal
	237	E	W						"	Bu	"	"	"
	238	E	Au				steep tabular reef	auriferous quartz reef	"	Bu	"	"	"
	239	E	W						"	Bu	"	"	"
Fergusson River	240	E	U	prospect			patchy bodies in N or NW shears	disseminated torbernite & meta-autunite ± apatite & hematite in quartz veins	silicified greisenised granite	Bgc	"	hydrothermal alteration zones & quartz veining in granite	"
	241	E	W						granite	Bgc			"
Umbrawarra	242	E	Sn	190		2.52	alluvial			Cz			
Christmas	243	E	Au	prospect				altered aplite dykes	granite	Bgc		altered aplite in granite	"
	244	E	Pb, Cu				steep tabular < 2 m wide	Pb Cu oxides in massive-brecciated quartz veins	granite-hornfels contact	Bgc/Bu		hydrothermal veining near granite	"
Mount Wigley	245	E	Pb, Ag	0.03 Ag 10 Pb		.0154 .0065	steep tabular NNW lode 0.8 m wide	quartz-galena lode	shale, greywacke	Bu	l.greenschist	"	"
Lucknow	246	E	Pb,Ag	15 Pb 0.04 Ag		.0098 .0205	steep tabular	"	"	Bu	"	"	"
Copperfield	247	E	Cu	260	12%	.416	NNW lode dips 60° with bedding, tabular, < 0.9 m wide	malachite, azurite in & close to brecciated quartz reef	hornfelsed shale & greywacke	Bu	hornfels	"	"
Stray Creek	248	E	Sn	13		.172	alluvial			Cz			
	249	E	Cu?	prospect			false gossan on quartz breccia reef	barren quartz-iron oxide blow	granite	Bgc		hydrothermal veining in granite	hydrothermal
	250	E	Pb?	prospect				gossan	shale, greywacke	Bu	l.greenschist	hydrothermal veining near granite	"
Cosmopolitan Battery	251	E	Au,Hg	mine			alluvial (extraction of Au/Hg amalgam in tailings originally from Elsinore)						
Humak's	252	E	Pb,Ag	prospect			NNW steep tabular lode < 0.7 m wide	argentiferous galena quartz breccia lode	shale, greywacke	Bu	l.greenschist	hydrothermal veining near granite	"
Kellys	252A	E	Sn	2	4.4%	.0265	small quartz veins in N shear zone	cassiterite in ferruginous quartz veins	hornfelsed shale & greywacke	Bu	hornfels	"	"
Caledonian	253	E	Au	.013		.21	alluvial			Cz			
Elsinore & others	254	E	Au							Bu			hydrothermal
Kohinoor & others	255	E	Au							Bu			"
Eleanore & others	256	E	Au							Bu			"
Sagabiel & others	257	E	Au	2.7 Au		43.66	steep conformable to transcurrent lodes & S-plunging saddle reefs < 2 m wide, associated gently dipping leaders, numerous adjacent alluvial & eluvial workings			Bu			"
Bashi Bazouk & others	258	E	Au	.007 Ag 1 Pb	39 gm/TAu	.0036 .0007		auriferous quartz reefs, minor Ag-Pb & Sn bearing reefs	shale, greywacke, minor arkose, in places hornfelsed	Bu	l.greenschist hornfelsed in places	hydrothermal veining in major lineament, near granite	
Enterprise & North Enterprise	259	E	Au	1.6 Sn		.0212				Bu			"
New Monarch	259A	E	Au							Bu			"
Touchango	260	E	Au							Bu			"
Maid of Erin	261	E	Au							Bu			"
Gandy's Hill & North Gandys	262	E	Au							Bu			"
	262A	E	Au	prospect			narrow steep parallel bodies	auriferous quartz reefs	carbonaceous shale	Bsp	"	hydrothermal veining near granite	"
	263	E	Au				en echelon quartz reefs in 2 subparallel NNW shears < 5 m wide	auriferous quartz reefs + pyrite, arsenopyrite, minor galena & Cu sulphides ± calcite dolomite ankerite	hornfelsed slate & greywacke	Bu	"	"	"
Union Reefs	264	E	Au	1.6		25.87				Bu	"	"	"
	265	E	Au							Bu	"	"	"
	266	E	Pb				NNW shear zone		sheared shale & greywacke	Bu	l.greenschist	"	"
	266A	E	Au				"		"	Bu	"	"	"
	267	E	Pb				"		"	BU	"	"	"

Rudi's	268	E	Sn				alluvial			Cz				
	269	E	Sn				alluvial			Cz				
	270	E	Cu				near-surface tabular steep	malachite in breccia matrix	quartz breccia zone in altered granite	Bgc		shear zone & alteration in granite	hydrothermal
	271	E							sheared shale & greywacke	Bu	l.greenschist	hydrothermal veining in shear zone, near granite	"
Flora Belle	272	E	Ag,Pb	.036 Ag 20 Pb		.0185 .013	vertical tabular lode, NNW, 1 m wide, in major shear zone	galena, sphalerite, marcasite, arsenopyrite in quartz	"	Bu	"	"	"
Elisabeth	273	E	Au	.097		1.57	NNW quartz reef <1 m wide dips 60° parallel to bedding	auriferous quartz reef	"	Bu	"	"	"
	274	E	Au					"	"	Bu	"	"	"
Extended Union	275	E	Au					"	"	Bu	"	"	"
Union Extended	276	E	Au	.1		1.62	irregular discontinuous stringers 10 cm - 5 m wide	auriferous stringers; rich 'secondary gold' assoc.with carbonate replacement zones		Bu	"	"	"
	277	E	Pb					argentiferous quartz veins in shear zone	Sheared shale, siltstone & greywacke, minor dolerite dykes	Bu	"	"	"
	278	E	Au					auriferous quartz stringers in shear zone		Bu	"	"	"
Watts Creek	279	E	Au	mine			alluvial			Cz			
Jasmine	280	F	Fe,Au				near-surface tabular to lenticular, flat to steep	massive hematite-goethite	pyritic carbonaceous siltstone, commonly brecciated	Bpw	l.greenschist	stratabound, brecciated pyritic black shales, pre-Mesozoic unconformity	supergene
Rosemary	281	F	Fe, Au				"	"	"	Bpw	"	"	"
Thelma Frances	282	F	Fe, Au	5,500,000 Fe ore mined (4,500,000 reserves)	63% Fe	88	"	"	"	Bpw	"	"	"
Elizabeth Marion	283	F	Fe, Au			72	"	"	"	Bpw	"	"	"
Helene 1	284	F	Fe,Au				"	"	"	Bpw	"	"	"
Helene 2	285	F	Fe,Au				"	"	"	Bpw	"	"	"
Nellie Creek	285A	E	Sn	2		.0265	alluvial	"	"	Cz	"	"	
	286	E	Fe	prospect			near-surface linear	massive hematite, goethite	pyritic carbonaceous siltstone	Bnm	l.greenschist	stratabound, pyritic sediments at depth, pre-Mesozoic unconformity	supergene
Frances Creek	287	E	Au,Ag	.006 Au .06 Kg Ag		.097	alluvial			Cz			
Ochre Hill	288	F	Fe	prospect			shallow lenticular bodies	massive goethite, hematite	sheared brecciated slate & greywacke, iron oxides	Bpw	l.greenschist	stratabound, brecciated pyritic sediments at depth pre-Mesozoic unconformity	supergene
Saddle & Saddle Extended	289	F	Fe	prospect			"	"	"	Bpw	"	"	"
Frances Creek lode	290	E	Au	.2 Kg		.0032	steep narrow lodes	auriferous quartz reefs	sandstone	Bpm	"	hydrothermal veining near granite	hydrothermal
	291	E	Au				"	"	"	Bpm	"	"	"
McKeddies	292	E	Au	prospect			alluvial			Cz			
Glenys	293	E	Sn	1		.0132	alluvial			Cz			
Mount George	294	E	Sn	11		.146	quartz veins and stockworks	auriferous quartz in veins & stockwork	hornfelsed sandstone & slate	Bpm	hornfels	hydrothermal veining in crush zone near granite	hydrothermal
Big Drum	295	E	Sn	1		.0132	steep, 5 cm - 1 m wide, tabular	iron stained quartz reef, sparse dissem. cassiterite	siltstone	Bpw	l.greenschist	hydrothermal veining near granite	"
Mount Masson	296	E	Sn	65	1.10% Sn	.861	"	cassiterite in quartz vein	"	Bpw	"	"	"
Billy Can	297	E	Sn	250	1% Sn	3.31 3.31	cigar to tabular near-surface, N, 60-35° dip, approx. conformable	oxidised, leached & brecciated body with cassiterite above quartz-sulphide lode	"	Bpw	"	"	"
Jessops	298	E	Sn				"	"	"	Bpw	"	"	"

	299	E	Pb,Zn	prospect				gossan over quartz-sulphide lode	tuff	Bvg	l.greenschist	hydrothermal veining near granite	hydrothermal
	300	E	Pb,Zn	prospect				"	"	Bvg	"	"	"
	301	E		prospect						Bpw	"	"	"
Margaret	302	E	Sn				net veins, quartz reefs <2 m, in tension gashes in N-trending faults	ferruginous quartz veins with cassiterite & minor gold	hornfelsed slate and sandstone	Bpm	hornfels	hydrothermal veining in tensional faults near granite	"
"	303	E	Sn	30	1.10% Sn	.3975	"	"	"	Bpm	"	"	"
Buffalo	304	E	Sn				"	"	"	Bpm	"	"	"
Nelson	305	E	Sn				"	"	"	Bpm	"	"	"
	306	E							tuff	Bvg			
	306A								siltstone	Bpw			
Hardies or McKinlay	307	E	Au	mine			several quartz reefs in NNW shear zone >10 m wide	auriferous quartz reefs + limonite, clay, minor pyrite & arsenopyrite	sandstone, slate, chloritic slate	Bu	l.greenschist	hydrothermal veining in shear zone	hydrothermal
Minglo	307A	E	Pb,Ag	.002 Ag 6.8 Pb	58% Pb, 125.6 gm/T Ag	.001 .0042		anglesite-galena 'potatoes' in quartz breccia	hornfelsed carbonaceous shale	Bpw	hornfels	hydrothermal veining in breccia zone near granite	"
	308	E							siltstone, greywacke	Bu			
Namoona	308A	-	Pb	prospect			parallel lodes, one parallel bedding, one steep transgressive <0.8 m wide	massive & dissem. galena in brecciated quartz-veined zones. Galena & cerussite in gossan	carbonaceous shale, calcareous shale & sandstone	Bnm	l.greenschist	hydrothermal veining	hydrothermal
Mavis	309	E	Sn	2.7		.0358	conformable lode 15 cm - 1 m wide	cassiterite in quartz vein + minor hematite & limonite	hornfelsed shale & greywacke	Bu	hornfels	"	"
	309A	E	Au						hornfelsed siltstone, chert bands	Bsp	hornfels	hydrothermal veining near granite	
	309B	E	Au						hornfelsed shale & greywacke	Bu	"	"	"
	309C		Cu	prospect			near-surface portion of steep tabular body	malachite in brecciated quartz vein	basalt agglomerate	Bvs	l.greenschist	hydrothermal veining, volcanic host rock	syngenetic exhalative
	310	E	Au?						hornfelsed siltstone & greywacke	Bu	hornfels	hydrothermal veining near granite	hydrothermal
	310A		Pb	prospect			narrow, tabular 70° dip	lead oxides in gossan	carbonaceous shale & calcarenite	Bnm	l.greenschist	"	"
Horners Creek	310B	E	Au	mine			alluvial			Cz			
	311	E	Au	prospect						Bsp	l.greenschist	hydrothermal veining near granite	hydrothermal
	311A		Pb	prospect			narrow, tabular, 70° dip	lead oxides in gossan	carbonaceous shale & calcarenite	Bnm	"	"	"
Mundic	312	E	Sn	see Dean's Camp			E steep tabular body 0.7 m wide	quartz-pyrite-clay cassiterite vein	slightly hornfelsed tuffaceous siltstone & hematitic shale	Bsp	"	"	"
Gubberah Gossan or Mary River	312A		Cu,Pb	prospect			steep tabular transgressive NE	gossan over quartz sulphide lode	arkose, feldspathic quartzite	Bpm	"	"	"
Dean's Camp or Jimmys Knob	313	E	Sn	230 (includes Mundic, Horseshoe & Snaddens Creek		3.05	numerous narrow veins	rich fine to coarse cassiterite-quartz-chlorite veins	composite granitoid intruding black slate	Bsp	"	hydrothermal veining in altered granitic dyke	"
McKinlay	313A	E	Ag,Pb	1.5 Ag, 135 Pb 3 Sn, 0.2 Zn		Ag .7694 Pb .0878 Sn .0398 Zn .0001	N dip 55° tabular <1 m wide	galena, cerussite, pyrite	siltstone, greywacke	Bu	"	hydrothermal veining near granite	"
Final Finn	313B	E	Cu,Sn		1% Sn, 450 ppm Cu		narrow tabular steep	quartz hematite vein	tuff, ferruginous siltstone	Bsp			
	314	E	Sn							Bvg			
	314A	E	Sn							Bu			

Horseshoe	315	E	Sn	see Dean's Camp			2 tabular steep bodies, + alluvial	kaolinised porphyry dyke; gossaneous shear zone at amphibolite contact	ferruginous siltstone, metadolerite	Bsk, Bdz	l.greenschist	hydrothermal veining in shears near granite	hydrothermal
Spring Hill	315A	E	Au	0.6 Au 0.25 Kg Ag		9.702 .0001	3 parallel N shears, steep tabular < 4 m wide	ferruginous quartz reef	black slate	Bsp	"	"	"
	316	E	Au							Bsp	"	"	"
	316A	E	Au							Bu	"	"	"
	317	E	Sn							Bsp	"		
Mount Wells	317A	E	Sn,Cu	1070 Sn 2.6 Cu	1% Sn	14.176 .0042	veins <1.2 m wide, stockworks <6 m wide in N trending & plunging 300 m wide zone with 5 main parallel lodes	quartz-pyrite-chalcopyrite ± cassiterite ± wolframite ± chalcocite as dissem. crystals, aggregates, or isolated patches	hornfelsed biotite sericite greywacke, shale and quartzite	Bu	hornfels	hydrothermal veining, alteration and shearing above concealed granite cusp	hydrothermal
	318	E	Sn				narrow tabular steep NW	quartz cassiterite lodes	siltstone, greywacke	Bsp	l.greenschist	hydrothermal veining near granite	"
	319	E	Sn				"	"	"	Bsp	"	"	"
	320	E	Sn				"	"	"		"	"	"
	321	E	Sn				"	"	"		"	"	"
	322	E	Sn				"	"	"		"	"	"
Snadden's Creek alluvial	323	E	Sn				alluvial			Cz			
Douglas River	323A		Sn	2		.0265	"			Cz			
	324	E	Au				narrow tabular steep NW	quartz cassiterite lode	shale, greywacke	Bu	l.greenschist	hydrothermal vein in shear near granite	hydrothermal
	325	E	Sn				"	"	"	Bsp	"	hydrothermal veining near granite	"
	326	E	Sn				"	disseminated & stanniferous quartz veins in minette	altered minette dyke intruding shale, greywacke	Bsp	"	hydrothermal veining and alteration of minette, near granite	"
Margaret Diggings	327	E	Au	mine			tabular steep & alluvial	auriferous quartz reefs	metadolerite	Cz, Bdz	l.greenschist	hydrothermal veining near granite	"
	327A	E	Au					"	black shales	Bsk	"	"	"
Burrundie	328	E	U	prospect			shallow flat	anomalous radioactivity in gossan	gossan on pyritic black shale	Bsk	"	ferruginous material over black shale	supergene
Pickfords or Bonnie Jean	329	E	Pb,Ag	1.3 Kg Ag 0.1 Kg Au 9 Pb		.0007 .0016 .0089	several narrow steep quartz veins in NNW shear	cerussite + Cu oxides in quartz veins, in graphite shear zones	tuff, tuffaceous siltstone	Bvg	"	hydrothermal veining near granite	hydrothermal
Mount Bonnie	330	E	Au,Ag,Cu, Pb,Zn	(2.7 Ag) (7500 Pb) (38500 Zn)	1.5% Pb, 7.7% Zn, 6 gm/T Ag	1.385 4.875 27.566	conformable NNE 20 m wide lode, dip 40°	stratabound ± stratified sulphide-silicate-carbonate massive lode. Mainly pyrrhotite & sphalerite. Also silver, trace gold.	ashstone with pebble breccia, minor carbonaceous mudstone	Bsp	"	stratigraphy, mudflow breccia & carbonaceous mudstone	syngenetic (diagenetic)
	331	E								Bsp	"		
Port Darwin Camp	332	E	Au	mine			alluvial			Cz			
Heatleys	332A	E	Pb,Zn,Cu	prospect	minor zone 4% Pb		conformable lenses and aggregates	dissem. sulphides, quartz-sulphide veins	carbonaceous meta-siltstone, tourmalinite	Bsk	"	stratigraphy, tourmalinite, iron-rich sediments	exhalative + epigenetic
Good Shepherd	332B	E	Au	mine			"	"	"	Bsk/Bdz	"		
Hayes Creek	333	E	Sn	110		1.467	5 cm - 2 m lodes dip 30-90° in NNE fractured axial zone of anticline	quartz-cassiterite + minor iron oxides	slate, greywacke	Bu	"	hydrothermal veining near granite, intense fracturing	hydrothermal
Golden Dyke	334	E	Au	.035 Au .7 Kg Ag	11 gm/T Au	.566 .0004	NW lode, conformable, dip 70°, <3 m wide	finely disseminated gold + impregnated sulphides in host rocks, also Au in quartz veins	ferrug.siltstone, carbonaceous shale, tourmaline	Bsk	"	stratigraphy, tourmalinite, iron-rich sediments	exhalative + epigenetic
Afghan Gully	335	E	Au	prospect				"	"	Bsk	"	"	"
Davis Camp	336	E	Au	prospect				"	"	Bsk	"	"	"
Sandy Creek	337	E	Au	mine			alluvial			Cz			
Stuarts Gully	338	E	Au				"			Cz			

	339	E	Au				NNW conformable tabular bodies, dip 60°, plunge 20° N, 0.1 - 2 m wide	auriferous quartz lodes, minor chalcopyrite & arsenopyrite	shale, greywacke	Bsp	l.greenschist	stratabound, hydrothermal veining near granite	hydrothermal
Radfords Blow	340	E	Au	mine					"	Bsp	"	"	"
Iron Blow	341	E	Cu,Pb,Zn, Au,Ag	60 Cu	(7.7 gm/T Au, 0.1-1.0% Cu (4-5% Pb,6-14% Zn, 280-560 gm/ T Ag in places)	.039			"	Bsp	"	"	"
Neates Gully	342	E	Au	mine			alluvial			Cz			
Princess Louise	343	E	Au	mine			NNW conformable tabular bodies, dip 60°, plunge 20°N. 0.1-2 m wide	auriferous quartz reefs, minor chalcopyrite and arsenopyrite	shale, greywacke	Bsp	l.greenschist	stratabound,hydrothermal veining near granite	hydrothermal
Temperance	344	E	Au	mine					"	Bsp	"	"	"
Yam Creek	345	E	Au	.44		7.115			"	Bsp	"	"	"
	346	E					NW steep tabular lodes in anticlinal axis. 5 cm-0.9 m wide. Also alluvial	auriferous quartz veins	"	Bu, Cz	"	hydrothermal veining in axial plane	"
Fountainhead	347	E	Au	.28		4.53			"	Bu, Cz	"	"	"
	348	E	Au				conformable disseminat-ions,locally transgress-ive steep lodes	disseminated gold + sulphides. Gold + pyrite + arsenopyrite in quartz veins in minor fold closures	graphitic shale, chert-banded siltstone, tuff	Bsk	"	Bsk/Bsp contact, shale, tourmalinite, minor folds	syngenetic/exhalative + epigenetic
	349	E	Au				"	"	"	Bsk	"	"	"
	350	E	Au				"	"	"	Bsk	"	"	"
	351	E	Au				"	"	"	Bsk	"	"	"
	352	E	Au				"	"	"	Bsk	"	"	"
Cosmopolitan Howley	353	E	Au	0.96	19.2 gm/T	15.52	"	"	"	Bsk	"	"	"
Fleur de Lys	354	E	U, Cu	0.15 U_3O_8		.0089	patches in conformable shear zones & joints & along bedding planes	uraninite+pyrite+chal-copyrite in shears. U+ Cu oxides near surface	siltstone, slate	Bsk	"	hydrothermal	hydrothermal; possible exhalative/epigenetic
Chinese Howley	355	E	Au	0.55		8.89	alluvial+steep tabular bodies 15-30 cm wide	auriferous quartz veins	graphitic shale, silt-stone	Bsk, Cz	"	stratigraphic, hydro-thermal	syngenetic/exhalative + epigenetic?
Big Howley	355A	E	Au	0.37		5.98	conformable saddle reef <6 m thick, NW pitch 33°	quartz+gold+pyrite+ arsenopyrite	"	Bsk	"	"	"
Philip Greets	356	E	Cu	90	25-30%	.0585	N vertical tabular lode 1 m wide			Bsp	"	hydrothermal veining near granite, parallel major N fault zone	hydrothermal
	357	E	Cu							Bsp	"	"	"
Wheatleys	358	E	Pb	prospect						Bvg	"	"	"
	359	E	Cu	prospect						Bvg	"	"	"
Carruthers	360	E	Sn	prospect						Bvg	"	"	"
Green Ant Creek	361	E	Mn	250 MnO_2		.17	irregular to flat	manganiferous altered & replaced siltstone	siltstone	Bu	l.greenschist	pre-Mesozoic land surface	supergene
Hillside	362	E	Mn	44 MnO_2		.03	"	"		Bu	"	"	"
Chinamans Hill	363	E	Sn	prospect			shallow tabular	cassiterite in pegmatite & greisen	siltstone, greywacke	Bu	"	hydrothermal veining near granite	hydrothermal
Barretts	363A	E	Sn	80		1.06	NW irregular <30 m wide, dip 30° NE	"	"	Bu	"	"	"
Pyromorphite	364	E	Pb	prospect					"	Bu	"	"	"
Halls Creek	365	E	Sn	prospect			shallow tabular	cassiterite in greisen and pegmatite	"	Bu	"	"	"
Full Hand	366	E	Cu,Pb,U	2 Cu		.0013	2 lodes, one NNE 0.3-1 m thick, one ENE <3 m wide	rich patchy Cu oxides; dissem. Cu & Pb oxides. Minor U minerals	siltstone, graphitic shale	Bsp	"	hydrothermal veins in shear zones near granite	"
Jacksons	367	E	Pb,Ag	0.25 Pb 0.9 Kg Ag	av. 3% Pb over 16 m width of lode	.0002 .0005	narrow seams	galena & cerussite rich veinlets	feldspar porphyry in-truding hornfelsed shales	Bsp	hornfels	hydrothermal veins in porphyry, near granite	"

Old Company (or Mt Shoobridge)	368	E	Sn	102		1.35	NNW zone of lodes < 2 m wide in 30 m wide NNW zone	patchy cassiterite shoots in quartz muscovite reef, & pegmatite & greisen stringers	siltstone, greywacke	Bu	hornfels	hydrothermal veining near granite	hydrothermal
Zapopan	369	E	Au,Pb	0.76 Au	< 10% Pb in places 20.5 gm/T Au	12.29		gold, galena in vein quartz	tuff, siltstone	Bvg	"	hydrothermal veining, fault controlled, near granite	"
Victoria	369A	E	Au					gold in vein quartz	"	Bvg	"	"	"
Morning Star	369B	E	Au					"	"	Bvg	"	"	"
Homeward Bound	369C	E	Au					"	"	Bvg	"	"	"
Faded Lily	370	E	Au	0.18		2.91	WNW fault line containing W & cross lodes 30 cm-4 m wide, dip 60% steep. Best values at lode intersections	"	"	Bvg	"	"	"
Alligator	371	E	Au					"	"	Bvg	"	"	"
Crocodile	372	E	Au					"	"	Bvg	"	"	"
John Bull	373	E	Au,Cu					gold, minor Cu in vein quartz	"	Bvg	"	"	"
Mackay & Frances	374	E	Cu,Au	mine	< 36% Cu < 20 gm/T Au		25 cm wide lode	chalcocite-rich quartz lode, minor gold	ferruginous siltstone	Bsk	"	hydrothermal veining near granite	"
Brittania	375	E	Au	0.024	106 gm/T	.388	45 cm lode in NW fault. Stringers	gold in quartz vein	tuff, siltstone	Bvg	"	hydrothermal veining in fault near granite	"
Rising Tide	376	E	Cu	prospect			near-surface irregular	Cu-stained gossan above pyritic quartz dyke	graphitic slate	Bsk	"	gossan, intersection of black slate horizon by pyritic fault	supergene
	377	E	U	prospect					granite	Bgb			hydrothermal
	378	E	Au	prospect					tuff & siltstone	Bvg	l.greenschist	hydrothermal veining near granite	"
Bridge Creek	379	E	Au	included under Chinese Howley			group of leaders each 3-45 cm wide	gold in quartz veins	"	Bvg	"	"	"
Mount Pacqualin	380	E	Au						"	Bvg	"	"	"
Woolwonga	381	E	Au	0.26		4.2	several reefs < 60 cm wide in NW shear zone & in perpendicular tension gashes	mostly in oxidised zone. Primary lode quartz+pyrite +arsenopyrite	sandstone, slate	Bu	"	"	"
Ban Ban	381A	E	Fe	prospect			shallow	massive hematite-goethite	pyritic shale	Bsk	hornfels	gossan over pyritic shales	supergene
Mount Ellison	382	E	Cu,Bi	650 Cu 3 Bi	20% Cu	.423 .0117	conformable NNW tabular steep 8 cm-1 m wide. Subsidiary cross fractures & shears	Cu oxides, deeper cuprite-chalcocite, above quartz-chalcopyrite-pyrite lodes. Minor Bi.	"	Bsk	"	hydrothermal veining near granite	hydrothermal+supergene
	383	E	Sn							Bsp	"	"	hydrothermal
	384	E	Sn						greywacke, siltstone	Bu	"	"	"
South Ringwood	385		Au				numerous 45° -steep lodes 5 cm-60 cm wide in broad NW zone. Also alluvial	auriferous quartz veins	"	Bu	l.greenschist	hydrothermal veining	"
Ringwood	386		Au	0.08		1.294		"	"	Bu	"	"	"
	387		Au					"	"	Bu	"	"	"
North Ringwood	388		Au					"	"	Bu	"	"	"
George Creek	389		U	1 U_3O_8 prospect	0.26%	.059	pods & stringers in weak steep N shear	patchy pitchblende, pyrite, chalcopyrite in joints & minor shears; torbernite at surface	"	Bu	"	"	"
Adelaide River	390	-	U	45 U_3O_8	0.5% U_3O_8	2.67	steep N shear zone; irregular ore zone pitches S45°	pitchblende, pyrite, chalcopyrite in irregular quartz veins, & dissem. in host rock	"	Bu	"	"	"
Mount Tymn	391	-	Au	.3 Kg			steep tabular reefs 30 cm - 1 m wide	auriferous quartz veins	siltstone, greywacke	Bu	"	"	"

Great Northern	392	-	Au				major reef 4.5 m wide, several minor narrow reefs - steep tabular NW	auriferous quartz veins	siltstone, greywacke	Bu	l.greenschist	hydrothermal veining	hydrothermal
Great Western	393	-	Au	.1		4.85		"	"	Bu	"	"	"
Star of the North	394	-	Au					"	"	Bu	"	"	"
Pig Hole	395	L	Au	1.5 Kg		.0243	several N reefs 5-90 cm wide, steep	"	"	Bu	"	"	"
Quest 29	396	L	Pb,Au	prospect	<57.3 gm/T Au, shale anomalous in Zn, Cu, Pb, Ni		N steep lodes 1-3 m wide, enriched gossan caps	As, Pb, Zn, Cu sulphides in siderite-quartz bands separate sulphidic pegmatite lode with Au	brecciated altered lamprophyre intruding hornfels and carbonaceous shale	Bsk	hornfels	stratabound, hydrothermal veining near granite	syngenetic hydrothermal
Quest 30	397	L	Pb,Cu,Zn	prospect	<12% Pb		linear shallow conformable	granular galena, minor Cu Bi sulphides. Pb oxides in gossan	gossaneous siliceous ironstone	Bsk	"	"	"
Quest 44	398	L	Pb,Zn,Cu	prospect	<1.2% Pb, 1.9% Zn over 1 m		stratiform N zones 35°E. Local irregular skarn near granite	Fine patches & massive veins sphalerite Pb Cu & minor Mo sulphides	hornfelsed carbonaceous slate	Bsk	"	stratiform, chloritic zones, carbonaceous shale, nearby granite	"
Quest 42	399	L	Pb	prospect	<0.4% Pb, 0.3% Zn		irregular, grossly conformable N zone	disseminations, quartz-hematite fracture fillings gossaneous zone	carbonaceous hornfels cut by micro syenite to lamprophyre dykes	Bsk	"	stratiform, hydrothermal veins, carbonaceous shale, near granite	"
Mount Bundey	400	L	Fe	600 000	63.3% Fe; 0.1% S; 0.06% P_2O_5	9.6	2 tabular steep near surface lodes	martite±goethite & pyrite, over magnetite-pyrite-ferruginous sediment	siltstone, schist, hornfels block in granite	Bsp?	"	pyritic carbonaceous sediment, nearby granite, ?pre-Mesozoic surface	supergene
Quest 36	401	L	Pb	prospect					carbonaceous hornfels	Bsk	"	stratabound	syngenetic hydrothermal
Quest 45	402	L	Pb	prospect					siltstone	Bpw	l.greenschist		
Quest 41	403	L	Pb	prospect					"	Bpw	"		
Anomaly 18.2	404	L	Pb Zn Cu Mn	prospect			tabular steep conformable NE	dissem.galena + sphalerite. Anomalous gossan	Shale, dolomite, graphitic dolomitic shale, minor tuff	Bpw			
Woolner	405	-	U, Cu	prospect							m-u greenschist	stratabound, concealed granitic basement	
Frazer	406	G	U	prospect			near-surface irregular	no visible uranium minerals	gossaneous caps over pyritic slate	Bnm	l.greenschist	pyritic carbonaceous sediment with gossan development	supergene
Ella Creek	407	G	U	prospect			"	"	"	Bsk	"	"	"
Brodribb	408	G	U	prospect			"	"	"	Bsk	"	"	"
Manton No. 1	409	G	Th	prospect			conformable	detrital thorianite	conglomerate	Bbr	"	conglomerate near granitic basement	syngenetic detrital
Manton No. 2	410	G	Th	prospect			"	"	"	Bbr	"	"	"
Woodcutters	411	G	U	prospect						Bbc	"		supergene
Woodcutters L5	412	G	Ag,Pb,Zn Cd	(101 Ag, 5400 Pb, 92880 Zn)	75% Pb, 12.9% Zn, 154 gm/T Ag	51.8 Ag 3.51 Pb 66.5 Zn	5 transgressive vertical en echelon fissures <20 m wide	pyrite, sphalerite, galena, lead & antimony/arsenic sulphosalts, in veins in dolomite-silica-gangue	pyritic carbonaceous & dolomitic shale, dolomite	Bbc/Bnm	"	Bnm/Bbr contact, axial plane fissures, low-temp remobilisation	remobilised syngenetic
Woodcutter South	413	G	U	prospect						Bnm	"	"	
White's	414	G	U,Cu,Pb, Co,Ni	1.8 Ag,861 Co, 15 000 Cu, 4100 Pb, 1069 U_3O_8	0.16% U_3O_8, 0.6% Pb, 2.2% Cu, 25.7 gm/T Ag	Ag .923 Co 33.3 Cu 24.0 Pb 2.67 U 63.5	roughly conformable steep 17-27 m wide NE shear zone	uraninite, torbernite, chalcopyrite, bornite + galena as disseminations + veins	sheared graphitic sericitic, chloritic & pyritic shale	Bnm	"	Bnm/Bbr contact, stratabound, shear zones on synclinal limb, nearby basement granite, unconformity	syngenetic + epigenetic ± supergene
Dyson's	415	G	U	534 U_3O_8	0.34% U_3O_8	31.72	conformable NE shear 8 m wide, steep	vein & dissem. uraninite, saleeite	sheared graphitic shale, hematitic dolomite	Bnm/Bbc	"	"	"
Whites Extended	416	G	U,Cu	prospect						Bnm	"	"	"
Intermediate	417	G	Cu	9140 Cu	2.45%	14.6	conformable steep NE tabular pipe 40 m x 150 m in shear zone	chalcopyrite, very minor uraninite. Malachite, native Cu, chalcocite near surface	graphitic + talcose shale breccia in sheared graphitic shales	Bnm	"	"	"
Brown's	418	G	Ag,Pb,Cu, Zn	(224 Ag) (1,107,000 Pb) (61,500 Zn)	5.4% Pb, 0.3% Zn 12 gm/T Ag	114.9 719.6 44.0	conformable tabular steep NE shear 50 m x 700 m	fine dissem. galena, very minor Cu, Zn sulphides	sheared graphitic sericitic pyritic shale	Bnm	"	"	"

Mount Fitch	419	G	U,Cu	(1500 U_3O_8) (1885 Cu)	.042% U_3O_8 290,000 T @ 0.65% Cu	89.1 3.02	2 U bodies, E 110x30x20 m deep, N 160x110x100 m deep, 3 Cu lenses in 4 km conformable enriched zone	fine ?thucolite in clayey graph. bands in Bnm, veinlets in Ebc. Near surface Cu-enrichment in clays	chlorite sericite graphite schist, magnesite	Bnm/Ebr	l.greenschist	Bnm/Ebr contact, stratabound, shear zones on synclinal limb, nearby basement granite, unconformity	syngenetic + epigenetic ± supergene
Mount Burton	420	G	U, Cu	100 Cu 12.6 U_3O_8	0.17% U_3O_8, 1.3% Cu	.16 .748	small conformable lens	dissem. torbernite, pitchblende, malachite, chalcocite	pyritic black slate, minor quartzite	Bnm	"	"	"
Dolerite Ridge	421	G	U,Pb,Cu, Zn	prospect						Bnm	"	"	"
Area 55	422	G	U,Pb,Zn, Cu	prospect			irregular pods in shears & plunging fold axes		pyritic black shale, dolomite	Bnm/Ebc	"	"	"
Rum Jungle Creek	423	G	U	prospect					chloritic & graphitic shale	Bnm	"	"	"
Rum Jungle Creek South	424	G	U	2612	0.4% U_3O_8	155.15	horizontal cigar 60 m x 245 m, 30 m depth	fine sooty pitchblende coatings, minor veins & stockworks	chloritic & graphitic pyrite shale	Bnm	"	"	"
Batchelor	425	G	Au	.35 Kg	558 gm/T	.0056	small tabular steep	auriferous quartz-tourmaline stringer	arkosic grit, conglomerate	Ebr	"	hydrothermal veining near granite	hydrothermal
Crater	426	G	Th	prospect			large stratiform	detrital thorium-bearing minerals in matrix	conglomerate	Ebr	"	oligomictic conglomerate near basement	syngenetic
Laterites	427	G	U	prospect			shallow			Bnm	"	stratabound, weathering	supergene
Waterhouse No. 1	428	G	U,Cu	prospect						Bsk	"	stratabound, unconformity?	syngenetic
Waterhouse No. 4	429	G	U	prospect			anomalous radioactivity near quartz-filled fault	minor secondary mineralisation		Bnm	"	stratabound near Bnm/Ebc contact, nearby basement granite, unconformity	syngenetic+epigenetic ±supergene
Waterhouse No. 2	430	G	Cu,U	prospect				minor pitchblende & secondary mineralisation	pyritic black shale	Bnm	"	"	"
Waterhouse No. 3	431	G	U	prospect				anomalous radioactivity, no visible U minerals	siltstone, greywacke	Bu	"		hydrothermal?
Virginia	432	G	Au	.7 Kg		.0113	steep narrow tabular	auriferous quartz reefs	"	Bu	"	hydrothermal veining near granite	hydrothermal
Kings Table	433	H	Sn	mine			steep tabular N-NNE <10 m wide	cassiterite in zoned pegmatite+kaolin, chlorite alteration	pegmatite in siltstone and greywacke	Bu	l-m greenschist	hydrothermal veining in meridional shear zone	"
Mugs Find	434	H	Sn	mine			"	"	"	Bu	"	"	"
Black Jade	435	H	Sn	mine			"	"	"	Bu	"	"	"
Jewellers	436	H	Sn	mine			"	"	"	Bu	"	"	"
Hang Gong Landing	437	H	Sn	mine			"	"	"	Bu	"	"	"
	438	H	Sn	mine			"	"	"	Bu	"	"	"
Rose's	439	H	Sn	mine			"	"	"	Bu	"	"	"
SP2	440	H	Sn	mine			"	"	"	Bu	"	"	"
Johnstone	441	H	Sn	mine			"	"	"	Bu	"	"	"
Grant's	442	H	Sn	mine			"	"	"	Bu	"	"	"
Newsham's	443	H	Sn	mine			"	"	"	Bu	"	"	"
Schoolmaster's	444	H	Sn	mine			"	"	"	Bu	"	"	"
Rundle's	445	H	Sn	mine			"	"	"	Bu	"	"	"
Pint Pot	446	H	Sn	mine			"	"	"	Bu	"	"	"
Quart Pot	447	H	Sn	mine			"	"	"	Bu	"	"	"
Hills	448	H	Sn	mine			"	"	"	Bu	"	"	"
Hang Gong Wheel of Fortune	449	H	Sn,Ta	134 Sn		1.78	"	"	"	Bu	"	"	"
Henderson's	450	H	Sn	mine			"	"	"	Bu	"	"	"
Yam Yans	451	H	Sn	mine			"	"	"	Bu	"	"	"
Lees	452	H	Sn	mine			"	"	"	Bu	"	"	"
Booth & Lees	453	H	Sn	mine			"	"	"	Bu	"	"	"

Madigans	454	H	Th	prospect		patches along N fractures	thorium minerals in fracture zones	ferruginous sandstone	Bu	1-m greenschist	hydrothermal veining in meridional shear zone	hydrothermal
Bear & Wolf	455	H	Sn	mine		steep tabular N-NNE <10 m wide	cassiterite in zoned pegmatites + kaolin, chlorite alteration	pegmatite in siltstone & greywacke	Bu	"	"	"
Olsen & Thomas	456	H	Sn	mine		"	"	"	Bu	"	"	"
Jones	457	H	Sn	mine		"	"	"	Bu	"	"	"
Shirley	457A	H	Sn	mine		"	"	"	Bu	"	"	"
SP6	458	H	Sn	mine		"	"	"	Bu	"	"	"
Hordens	459	H	Sn	mine		"	"	"	Bu	"	"	"
Litchfield & Luggs	460	H	Sn	mine		"	"	"	Bu	"	"	"
	461	H	Sn	mine		"	"	"	Bu	"	"	"
Lees Extended	462	H	Sn	mine		"	"	"	Bu	"	"	"
Bradys	463	H	Sn	mine		"	"	"	Bu	"	"	"
Golden Boulder	464	H	Au	.018	.291	"	auriferous quartz reefs	"	Bu	"	"	"
Two Sisters	465	H	Sn	mine		"	cassiterite in zoned pegmatite + kaolin, chlorite alteration	"	Bu	"	"	"
Bells Mona	465A	H	Sn	95	1.26	" (<20 m wide)	"	"	Bu	"	"	
	466	H	Sn	mine		"	"	"	Bu	"	"	"
Vickman	467	H	Sn	mine		"	"	"	Bu	"	"	"
White Angel	468	H	Sn	mine		"	"	"	Bu	"	"	"
Kelly	469	H	Sn	mine		"	"	"	Bu	"	"	"
Bell	470	H	Sn	mine		"	"	"	Bu	"	"	"
	471	H	Sn	mine		"	"	"	Bu	"	"	"
	472	H	Sn	mine		"	"	"	Bu	"	"	"
	473	H	Sn	mine		"	"	"	Bu	"	"	"
Ah Hoy	474	H	Sn	mine		"	"	"	Bu	"	"	"
Rocky Bar	475	H	Sn	mine		"	"	"	Bu	"	"	"
Ah Bung	476	H	Sn	mine		"	"	"	Bu	"	"	"
Old Bucks	477	H	Sn	mine		"	"	"	Bu	"	"	"
Leviathan	478	H	Sn	120	1.59	"	"(mostly in marginal quartz mica zone)	"	Bu	"	"	"
TW4	479	H	Sn	mine		"	"	"	Bu	"	"	"
Chinese	480	H	Sn	mine		"	"	"	Bu	"	"	"
Mount Peel	481	H	Sn	mine		"	"	"	Bu	"	"	"
Lee Ah Chang	482	H	Sn	mine		"	"	"	Bu	"	"	"
TW6	483	H	Sn	mine		"	"	"	Bu	"	"	"
Annie	483A	H	Sn	mine		"	"	"	Bu	"	"	"
	484	H	Sn	mine		"	"	"	Bu	"	"	"
	485	H	Sn	mine		"	"	"	Bu	"	"	"
	486	H	Sn	mine		"	"	"	Bu	"	"	"
	487	H	Sn	mine		"	"	"	Bu	"	"	"
Sabine	488	H	Sn	mine		"	"	"	Bu	"	"	"
Charlotte River	489	H	Th	prospect		"	"	"	Bu	"	"	"
	490	H	Sn	mine		"	"	"	Bu	"	"	"
Lucy	491	H	Sn	mine		"	"	"	Bu	"	"	"
Picketts	491A	H	Li, amblygonite			"	"	"	Bu	"	"	"
	492	H	Sn			"	"	"	Bu	"	"	"
Goodluck	493	H	Sn			"	"	"	Bu	"	"	"

Martins	494	H	Sn				steep tabular N-NNE	cassiterite in zoned pegmatite + kaolin, chlorite alteration	pegmatite in siltstone & greywacke	Bu	1-m greenschist	hydrothermal veining in meridional shear zone	hydrothermal
Mount Finniss	495	H	Sn,Ta	13 Sn 8.5 Ta		.172 .935	" (200 x 80 m)	" (strongly zoned; cassiterite & tantalite slightly conc. in kaolinised feldspar zone)	"	Bu	"	"	"
Goodwill Extended	496	H	Sn				"	" (local conc. in quartz-mica wall zones)	"	Bu	"	"	"
	497	H	Sn	5.3		.0702	"	"	"	Bu	"	"	"
Goodwill	498	H	Sn				"	"	"	Bu	"	"	"
Bamboo Creek	499	H	Sn, Ta	32 Sn .2 Ta .24 Kg Au		.424 .022 .0039	lenticular steeply pitching, 20 x 80 m	"(ore minerals conc.on pegmatite foot-wall)	"	Bu	"	"	"
Tolmer	500	-	U	prospect					"	Bu	"	hydrothermal veining near major fault	"
Mount Tolmer (Blyth)	501	-	Sn	53		.702	steep tabular <10 m, Ni; also alluvial	cassiterite in greisen & altered pegmatite	"	Bu, Cz	"	hydrothermal veining	"
	502	-	Sn	mine					"	Bu	"	"	"
Mount Tolmer South	503	-	Cu	prospect					"	Bu	"	"	"
Warrs	504	I	Cu	prospect			NNE shear zone	Cu-stained quartz reefs & shear zones	"	Bu	"	"	"
Wallaby	506	I	Cu; Ag, Pb, Zn	10 Cu	<5% Pb 112 gm/T Ag 3 gm/T Au 35% Cu	.016	2 NNE parallel zones 6 m wide, each with several small quartz reefs	cerrusite anglesite mimetite pyromorphite	"	Bu	"	hydrothermal veining near large dolerite body	"
	507	I	Pb	prospect					"	Bu	"	"	"
Wheal Danks North	508	I	Cu	140	2-4% Cu (20% Cu hand-picked ore) 3 gm/T Au	.224	steep tabular	cellular ironstone gossan with quartz and malachite	"	Bu	"	"	"
Wheal Danks	509	I	Cu						"	Bu	"	"	"
Wheal Danks South	510	I	Cu						"	Bu	"	"	"
Empire	511	I	Cu	15	8%	.024	steep tabular body, N shear zone 1.2 m wide	chalcopyrite, arsenopyrite, quartz	"	Bu	"	"	"
	512	I	Cu	prospect					"	Bu	"	"	"
Daly River	513	I	Cu	1200	20%	1.92	bunches & stringers in 10 m N shear zone	malachite, azurite chalcocite in quartz & limonite. Minor sulphides	"	Bu	"	"	"
Knowles Farm	514	I	Pb,Zn,Cu, Au	prospect	'high Ag-Pb assays, minor Cu & Au'			gossaneous lode	"	Bu	"	"	"
	515	J	Au	prospect			shallow to steep, tabular & alluvial	auriferous quartz veins	"	Bga, Cz	"	hydrothermal veining near granite	"
Fletcher's Gully	516	J	Sn, Au	3 Sn .07 Au		.0397 1.132	steep to shallow veins in shears or tension gashes <1 m in NW fold axis. Also alluvial	auriferous quartz veins	"	Bu, Cz	"	"	"
Muldiva	517	J	Sn	57		.755	mainly alluvial; several steep tabular lodes	quartz-mica-tourmaline cassiterite lodes	schist, granulite	Bgs,Bu,Cz Cz	hornfels	extensive hydrothermal veining near granite contact	"
Buldiva	518	J	Sn				mainly alluvial; also pegmatite stockwork	small pegmatite lenses	slate, granite	Bgs,Bu, Km,Cz	"	"	"
Collia	519	J	Sn				alluvial			Cz		nearby stanniferous granite	
Pete's	520	-	Cu	prospect			irregular shallow-dipping stockwork	quartz-chalcocite, chalcopyrite	granite, hornfels	AEh/AEh	hornfels	granite contact	hydrothermal