Summary Drill Log and Header

Pluton Resources Ltd.

PROJECT:	Tas Porphyry		**HOLE NO:**	**DR1**	**DRILL TYPE:**		Diamond (Diamac 282)
PROSPECT:	Five Mile Rise		DATE COMMENCED:	**24/04/2007**	**DRILLER:**		Almac Drilling
EL:	14/2006		DATE COMPLETED:	**4/05/2007**	LOGGED BY:		John McD
EASTING	424158	AGD66	**TOTAL DEPTH (m):**	**337.4**	DATE:		17/08/2007
NORTHING	5398565	+-5m	**AZIMUTH:**	**114**	OXIDATION	BOPO:	36m
COLLAR RL:	735m (25k map)		**DIP:**	**-60**		BOCO:	0m

Drilling details

Core Size	From	To
PQ		
HQ	0.00	58.90
NQ	58.90	337.40
BQ		

Comments

Hole designed to:- Test an IP anomaly identified in the RGC survey, believed to be sourced from below the Ordovician cover. The hole was originally named C1 and commenced on 16-4-07, however the hole collapsed and the rod string was lost and the hole was abandoned on 23-04-07. Core from C1 was retained and submitted to the core library but never logged nor sampled. The replacement hole was initially termed C1A by drillers but is now labelled and referred to as DR1.

Significant Intervals:

Hole_ID	From	To	Interval
DR1	232.00	242.00	10m @ 0.11% Cu
	232.00	233.00	incl. 1m @ 0.34% Cu
DR1	299.00	300.00	1m @ 0.52 g/t Au
DR1	315.00	316.00	1m @ 1.13g/t Au, 63.3g/t Ag and 3.03% Pb
DR1	336.00	337.00	1m @ 1.37g/t Au

Summary Log

From	To	Graphic	Summary Description (Lith, Altn, Mineralisation)
0.00	26.50		Bioturbated poorly sorted pebbly sandstone and fissile pale yellow siltstone. (Moina Sandstone)
26.50	337.40		Quartz phyric crystal rich, lithic poor volcaniclastic sandstone, variably haematite, k-spar and chlorite altered.

Down Hole Surveys - Pluton Resources									
Hole_ID	Depth	Azimuth	Dip	ID	Mag_azm	Type	Verified	Comment	Date
DR1	0	114	-60		100	2	N		24/04/2007
DR1	75	115	-60		101	1	Y		30/04/2007
DR1	100	127.5	-59.5		113.5	1	Y	lg variation - magnetic rock?	30/04/2007
DR1	150	121.5	-59.5		107.5	1	Y		30/04/2007
DR1	200	122	-59.5		108	1	N	Camera Disc unavailable, recorded in daily report only	30/04/2007
DR1	250	126	-59		112	1	Y		1/05/2007
DR1	300	129	-58		115	1	Y		3/05/2007
DR1	337.4	130	-57.5		116	1	Y		4/05/2007
	EOH								

Pluton Resources Detailed Drill Log

Hole Number	DR1	Sheet No	1

Mineralisation / Alteration and additional descriptors

Full description: including colour, main alteration type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								Full description
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	
0.00	9.00	COs	SPEBSAND				W	Sp	1																								W	A-R-O	Pale grey/brown bioturbated poorly sorted pebbly sandstone with heamatite and limonite staining
9.00	17.70	COs	SSILT				W																										M	2Y	Pale to light yellow fissile siltstone and light cream-brown fine sandstone, limonitic (possibly after siderite?),
17.70	20.00	COs	SPEBSAND				W																										M	2A-2Y-O	Light grey, orange and yellow sparsely pebbly sandstone
20.00	24.40	COs	SPEBSAND				M																										W	2Y	Pale to light yellow fissile siltstone and light cream-brown fine sandstone, limonitic (possibly after siderite?),
24.40	26.50	COs	SPEBSAND				T																										M	3R	Medium-dark red interbedded haematitic pebbly and coarse sandstone, contact is probably an unconformity
26.50	29.20		VSST	Ser	KSP		T									SP	w			P	m	P	vw				Li	D	1				W	3Gr	Olive green moderately sericite altered quartz rich sparsely lithic volcaniclastic sandstone, 30% large (to 8mm)rounded quartz crystals and 10% finer quartz , sparse felsic volcanic lithics to 3cm, weak spotty limonite possibly after pyrite. Two mineral phases other than quartz are darker green soft sub-angular fragments with translucent appearence (sericite? after plagioclase?) and light yellow-cream platy-wispy phase possibly after biotite (sericite), patchy haematite alteration in matrix (vw)
29.20	34.50		VSST	HEM	KSP		T	Sp	0.5			Vn	0.5			P	w					SP	m										M	3Br-3R	Medium brown-red pervasively haematite altered and veined quartz richs volcaniclastic sandstone, 30% large rounded quartz, haematite and limonote replacing the wispy cream sericite phase from the previous interval, 35% dark green translucent mineral described in prvious interval, sparse (1%) specular haematite veins to 1.5cm, limonite weathering on fracture surfaces after haematite, the matrix is pervasively altered to a medium reddish brown silicate
34.50	37.60		VSST	Chl	Ser	KSP						Vn	0.2			SP	w/m	P	m			P	w/m											4Gr-2O	Dark green to light orange quartz rich, lithic weak, volcaniclastic sandstone, Chloritised matrix, occasionally haematised wispy phase and laths, sparse specular haematite veinlets with limonitic alteration haloes, 20% large rounded quartz, lithics to 1cm, moderate semi-pervasive cream-light pink-orange alteration (albite-orthoclase?), moderate chloritic alteration of matrix (possibly overprinting brown silicate alteration
37.60	40.70		VSST	KSP	Chl			D	0.1			Vn	0.1			SP	m	SP	m															4O-3O	Medium to dark orange quartz rich, lithic weak volcaniclastic sandstone, Limonite and K-spar (orthoclase) altered plagioclase? and matrix. 30% quartz, partially shattered subrounded quartz typically 3-6mm, angular lithics (weak), chlorite (w), sparse specular haematite veins, patchy chlorite in matrix and occasionally rpx crystal phase but more commonly replaced by limonite, one 5mm quartz-chlorite-limonite (after sx) vein
40.70	43.60		VSST	KSP	Chl	Ser						Vn	0.2			SP	w/m	SP	w/m	Rp	w													1Gr-3Br-2O	Light green, medium brown and light orange quartz moderate sparsely lithic volcaniclastic sandstone, weak k-felds alteration (med brown), very sparse specular haematite veins and associated limonitic alteration haloes, light green mineral (sericte) replacing xrystal phase previously described as plagioclase rpx by translucent green mineral, lithic clast (3cm)
43.60	46.35		VSST	Chl	KSP	Ser										SP	w/m	Bnd	w/m	Rp	w						Li	P	10					2O>3Gr>3Br	Light orange, dark green and medium brown limonite altered quartz rich volcaniclastic sandstone, 30% large rounde quartz 3-8mm, similar composition to previous unit with limonite , replacing (later than) sericte altered crystal phase, medium brown silicate (potasic) alteration is semi-pervasive and chloritic alteration is banded with limonitic alteration, no visible lithics
46.35	49.00		VSST	KSP	Chl	Ser						Vn	0.1			P	w/m	Bnd	w/m	Rp	w						Li	SP	7					3Br-2Gr-2O	Pale-medium green, medium brown and light orange crystal moderate volcaniclastic sandstone, 15-20% quartz, one possible 6cm 'bomb' lithic, chlorite and sericte (rimming) replacing crystal phase, limonite stain around veins as semi-pervasive alteration
49.00	52.00		VSST	KSP	Chl											P	m	SP	w/m								Li	SP	2					1Br-2Gr-2O	Light brown to medium green crystal rich lithic poor volcaniclastic sandstone, large rounded quartz 20%, other crystal fractions ~40% (chloritised), pervasive potassic (kfeldspar-albite?) alteration with semipervasive chloritic alteration and minor limonitic alteration, one lithic clast (1cm), heamatite stain around some shattered quartz, cream-pale green wispy mineral phase possibly sericite after biotite
52.00	60.00		VSST	Ser	KSP	Chl										Sp	w	Rp	w			P	w				Li	SP	4					4Br	Dark brown-maroon heamatite altered crystal rich lithic poor volcaniclastic sandstone, trace disseminated pyrite, haematised and probable potassic alteration, 50% crystal component , possibly sericitised wispy crystal phase (bioitite) 3%, spotty pink k-feldspar crystal growth/replacement of plagioclase? to 3mm
60.00	63.70		VSST	KSP	Ser							Vn	1.5			P	w					SP	w				Li	SP	5					3Br-2O-2R-3Gr	Dark brown, light orange/pink and patchy dark green crystal rich lithic weak volcaniclastic sandstone, 30% large rounded quartz, pervasive probable potassic alteration, possibly sericitised wispy crystal phase (bioitite) 2%, weak limonitic stain as haloes around haematite veins, lithics to 3cm
63.70	66.60		VSST	KSP	Chl	Ser						Vn	0.1			SP	w/m	SP	w	Rp	vw													1/2Gr-2/3Br-1P	Pale pink-green and medium brown patchy potassic altered crystal rich lithic poor volcaniclastic sandstone, chloritised and rarely sericitised crystal phase (plagioclase? 30%) and chloritised matrix around fringes of potassic (orange-brown silicate) alteration, haematite vienlets (vw), occasional sericitised wispy crystals (1%)
66.60	72.55		VSST	KSP	Ser	Chl						Vn	5			P	m	SP	w			P	w/m				Li	SP	3					3Br-4R	Dark maroon-brown crystal rich volcaniclastic sandstone, 20% quartz, light yellow-cream wispy crystal phase ~2% but to 5%locally and occasional k-felspar replacement of crystal phase, dark brown silicate (potassic) alteration probably stained dark with fi haematite, , limonite alteration around veins, generally crystal packed
72.55	74.70		VSST	KSP	Ser											SP	w/m			Rp	w													1Gr-2O-1P-2Br	Pale green and pink-light brown crystal rich lithic poor volcaniclastic sandstone, semi-pervasive brown and light pink potassic alteration of matrix and green sercitised? angular crystal phase 40% and 25% rounded and sub-rounded quartz

Pluton Resources Detailed Drill Log

Hole Number		DR1	Sheet No	2	Mineralisation / Alteration and additional descriptors																																		
INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour												
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
74.70	77.60		VSST	Chl	KSP											P	w	SP	m	Rp	w/m														3Br-1/3Gr-3O
77.60	79.20		VSST	HEM	KSP							Vn	1			P	w					P	m				Li	SP	5					4Br
79.20	82.80		VSST	Chl	KSP	Ser										P	w/m	SP	m	Rp	w/m														2Br-1/3Gr-3O
82.80	85.90		VSST	KSP	Lim											P	w	SP	w	Rp	w	P	m				Li	SP	5					3/4Br-1/3Gr-3O
85.90	87.40		VSST	KSP	HEM											P	w/m	SP	m	Rp	w						Li							2Br-3Gr-3O
87.40	91.90		VSST	KSP	HEM							Vn	2			P	m	SP	w	Rp	w			P	w		Li	SP	5					2P-2O-4R
91.90	92.70		VSST	Lim																							Li	P	35					3O-4O
92.70	104.50		VSST	HEM	Chl	Ser										SP	w	SP	w	Rp	w						Li	SP	2					3R-3O-3Gr
104.50	109.30		VSST	Lim	HEM													Rp	w					Rp	m		Li	SP	25					1P-2/3O
109.30	114.00		VSST	HEM	KSP							Vn	0.2											P	m/s		Li	Vn	0.5					4Br-4R
114.00	115.45		VSST	SIL	HEM							Vn	2			P	w	P	w					SP	w/m		Li	Vn	0.2					4Gr-4R
115.45	117.00		VSST	HEM												P	w							P	m/s		Li	Vn	0.5					4R
117.00	119.10		VSST	KSP	Lim	HEM						Vn	1			SP	w							SP	m		Li	Vn	10					P-O-4R
119.10	120.30		VSST	HEM	KSP							Vn	1			P	w/m							SP	w/m									3R-3O
120.30	121.95		VSST	SIL								Vn	1																					4Gr
121.95	131.50		VSST	Sil	HEM	KSP						Vn	2			Sp	w/m	SP	w					SP	w/m									4Gr-4R-3O
131.50	141.30		VSST	KSP	Arg							Vn	2			SP	m/s																	3O-2P-4A
141.30	141.90		VSST	KSP	HEM							Vn	1			Sp	m/s							SP	w/m									3A
141.90	146.00		VSST	KSP	TML	HEM						Vn	2			P	m					P	m	Vn	w									N-3O
146.00	147.45		VSST	KSP	HEM	TML		Br	1			Vn	2			P	m/s					Br	w	Vn	w									4O-2P
147.45	149.55		VSST	SIL	KSP			D	5			D	5			Sp	w/m																	4A
149.55	150.00		VSST	SiSX	Arg	KSP		D	10			D	5			SP	vw					Vn	vw											2A-2O
150.00	151.60		VSST	KSP	HEM							Vn	2			P	m										Li	SP	1					4A-4Gr-3O

Full description: including colour, main alteration type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

Dark-spotty light green and dark brown-orange quartz rich lithic poor volcaniclastic sandstone, 20% quartz, zoned plagioclase? With chloritic cores and sericitic? rims giving light spotted apperance in pervasively potassically altered matrix, chloritic semi-pervasive alteration apparently overprinting potassic alteration
Dark brown-maroon crystal rich volcaniclastic sandstone, 20% rounded large quartz (to 8mm), All larger crystal phases except for quartz replaced by haematite, minor (3%) light cream wispy crystal phase probably sericite replacing biotite? to 3mm, limonite alteration around veins, strong alteration masks probable xrystal supported texture
Dark-spotty light green and med-dark brown-orange quartz rich lithic poor volcaniclas sandstone, 20% quartz, zoned plagioclase? With chloritic cores and sericitic? rims giving light spotted apperance in pervasively potassically altered matrix, chloritic semi-pervasive alteration apparently overprinting potassic alteration, pyrite to 3% locally but trace overall
Dark-spotty light green and med-dark brown-orange quartz rich lithic weak volcaniclastic sandstone, 1% sub-rounded lithics (dominantly light green siltstone to 4cm), 20-25% rounded quartz, zoned plagioclase? With chloritic cores and sericitic? rims - a mixture of last two alteration types in more lithic unit
Dark-spotty light-dark green and med-dark brown-orange quartz rich lithic poor volcaniclastic sandstone, 20% quartz, zoned plagioclase? With chloritic cores and occasionally sericitic? rims giving light spotted apperance in pervasively potassically altered matrix except where alteration is stronger and sericite is absent, chloritic semi-pervasive alteration apparently overprinting potassic alteration, pyrite to 3% locally but trace overall
Light pink-orange and dark red crystal packed lithic poor volcaniclastic sandstone, heamatised crystal phases, pinkish k-feldspar alteration of matrix, crystal packed, 30-35% subrounded quartz, possible sericitised biotite phase 1%, although 3% locally
Orange and dark orange crystal packed lithic poor volcaniclastic sandstone, limonitic crystal phases, crystal packed, 30-35% subrounded quartz, limonitic version of above unit, all matrix and crystal phases limonite altered,
Crystal rich lithic weak-moderate volcaniclastic sandstone, lithics to 2cm increasingly abundant down hole, 30% sub-rounded quartz and 40% angular plagioclase? crystal phase replaced by chlorite, haematite and k-feldspar and occasionally sericite rimmed and pale sericite? replacement of boitite? (1-2%), felsic volc and mudstone lithics to 3cm
Light pink-orange crystal packed lithic weak-moderate volcaniclastic sandstone, limonitic>chloritic>heamatised crystal phases, and moderate-strong semi-pervasive limonite pinkish clay alteration (after K-spar?) of matrix, crystal packed, 30-35% subrounded and subangular large quartz (2-8mm), felisc volcs and mudstone lithics to 4cm
Dark red-maroon crystal packed lithic weak-moderate volcaniclastic sandstone, crystal packed, 30% subrounded quartz, other phases strongly heamatised, haematised lithics to 6cm probably originally mudstones
Olive green crystal rich lithic weak-moderate volcaniclastic sandstone quartz 25%, plagioclase 40% angular fragments, 4% sericite replacing laths to 4mm (0.5mm thick), haematite veins 3/m, lithics to 3cm mostly mudstones
Dark red crystal rich lithic weak volcaniclastic sandstone, 25% sub-rounded quartz and 30% heamatised crystal phase
Pink, orange and dark red crystal rich lithic weak -moderate volcaniclastic sandstone, 15% large rounded quartz, haematised and limonitic crystal phases, lithics to 4cm probable mudstones
Dark red and orange crystal rich lithic moderate volcaniclastic sandstone, moderate potassic and up to moderate semi-pervasive haematitic alteration and haematite veinlets, lithics ar mudstones and felsic volcs to 3cm, variably rounded
Olive green crystal rich, lithic weak-moedrate volcaniclastic sandstone, narrow irregular haematite veins 6/m, 30% rounded quartz
Olive green and occasionally orange and red crystal rich lithic moedrate volcaniclastic sandstone, haematite veins 5/m (size?), tourmaline? veining increasing down hole possibly synchronous with haematite, typically subangular mudstone lithics to 4cm, weak anastomosing foliation in k-feldspar altered zones
Pink and grey potassically altered crystal rich lithic weak volcaniclastic sandstone, clay altered in lighter zones (slight colour change at 132.7), occasional silicification with minor translucent green sericite? and 5 haematite veins/m
Grey and pink spotted kfeldpar altered? fine grained to 3mm probably lithic rich volcaniclastic sandstone with dark matrix and 10% fine angular quartz
Interbedded probable tourmaline altered (black) fine sandstone and coase pervasively potassic altered volcaniclastic sandstone (orange), includesblack finer units with potentially chilled magins or fliudised sediments with later overprinting alteration or in on case possible "doubly graded" fine-coarse-fine
Medium bright orange to light pink crystal rich volcaniclastic sandstone, pervasively K-feldspar altered and spotty k-feldspar development after plagioclase? Weak heamatite veinlets, toumaline alterd breccia bearing pyrite to 10% locally over 5cm, possible fines sandstone dykes?
Dark grey fine grained (to 3mm) quartz poor volcaniclastic sandstone, k feldspar spoted alteration of crystal phase, disseminated pyrite to 2% and dissem haematite 2%
Light grey quartz rich weakly lithic sandstone, disseminated pyrite 6-10%, haematite veining (vw) silica alteration (m), quartz 30% large/rounded, interbeds? with irregular contacts with the coarser material, light pink and creamy-white alteration of crystal phases with dark grey alteration of the matrix
Dark green-grey and orange coarse crystal rich lithic weak volcaniclastic sandstone, potassic (m) semipervasive alteration, heamatiitc alteration, disseminations and veining (m), semi-translucent grey-green semi-pervasive silica-sericite? alteration

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Hole Number	DR1	Sheet No	3	Mineralisation / Alteration and additional descriptors

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	
151.60	151.80		VSST	SiSx	Arg			D	15																									A-W	White (clay altered)and grey (silica) quartz poor fine volcaniclastic sandstone, 15-20% dissem py
151.70	153.50		VSST	SIL	HEM							Vn	5									SP	w/m											2A-3R	Silica-Haematite altered crystal rich volcaniclastic sandstone, qtz 30%
153.50	156.70		VSST	KSP	Arg							Vn	0.2			SP	w/m	Rp	vw			P	w/m				Li	P	5					3O-2P	Ksp orange lithic weak-moderate crystal rich volc sst, 30% qtz
156.70	159.00		VSST	KSP	Chl	Ser										P	w/m	SP	w/m	Sp	w/m						Li	Sv	2					2/3Br-2Gr	Dark brown and green spotted crystal rich volcaniclastic sandstone
159.00	169.50		VSST	HEM	Arg							Vn	0.1			SP	vw	Rp	vw			SP	w/m				Li	SP	10					1P-1O	Light pink and orange crystal rich, lithic rich volcaniclastic sandstone, silica-haematite and silica-limonite semi-pervasive alteration
169.50	170.90		VSST	KSP	Chl	Ser						Vn	0.1			P	w/m	P	vw	Rp	vw						Li	Sv	1.5					3Br-2Gr	Brown and green spotty lithic rich volcaniclastic sandstone Fining down hole
170.90	171.30		VSST	Chl				D	0.1									P	m															3Gr	Fine grained qurtz poor fine volcaniclastic sandstone. Chlorite alteration as replacement of crystal phases and pervasive matrix alteration and clay? altered
171.30	172.10		VSST	KSP	Chl											P	m			Rp	w/m													4Br	Coarser bed similar to above composition, lithic rich volcaniclastic sandstone
172.10	177.20		VSST	Chl				D	0.1									P	m/s															4A	Dark grey quartz poor lithic rich volcaniclastic sandstone, possibly coarsening down hole
177.20	178.40		VSST	KSP	Chl	Ser										P	w/m	SP	w	Rp	w													4A-P	Dark grey and pink, crystal rich, lithic rich volcaniclastic sandstone, 2% pyrite, possibly a fine top to a bed near downhole contact at 178.2
178.40	186.10		VSST	KSP	Chl	Ser		D	0.1							P	m	Rp	w/m	Rp	w/m													3/4Br-3Gr	Med-dark brown and green spotted crystal rich volcaniclastic sandstone, lithics absent? Semi-pervasive chloritic alteration and replacement of crystal phases with occasional sericitic alteration
186.10	188.20		VSST	KSP												P	m			Rp	vw													4Br	Dark brown potassically and haematite altered crystal rich lithic weak? volcaniclastic sandstone, occasional pink ksp development but potassic alteration of matrix is strong with all but quartz and cream wispy crystal phase replaced
188.20	188.60		VSST	KSP	Sil	Ser										P	w/m			SP	w/m													3Br-2Gr	Medium brown (potassic) and olive green (silica) altered fine volcaniclastic sandstone, @189.7, probable fining down hole then coarse bed "scours" over ie: grades downhole = steep dip or overturned?
188.60	190.45		VSST	KSP												P	m																	4Br	Dark brown potassically altered crystal rich lithic weak volcaniclastic sandstone
190.45	190.60		VSST	KSP	Sil											P	m																	4/5Br	Very dark brown fine grained quartz poor volcaniclastic sandstone, @190.6 probable fining down hole then coarse bed "scours" over ie: grades downhole = steep dip
190.60	191.25		VSST	KSP								Vn	4			P	m																	4Br	Dark brown potassically altered crystal rich lithic weak volcaniclastic sandstone, k feldspar replacement of crystal phase (vw) and one 4cm haematite vein nearly coincident with probable bedding plane
191.25	191.95		VSST	KSP	Sil	HEM						Vn	2			P	m																	2Gr-3Br	Olive grey-green (silica) and dark brown (potassic) veined fine grained quartz poor volcaniclastic sandstone
191.95	195.60		VSST	KSP	Ser	Chl						Vn	2			P	m	Rp	w/m	Rp	w/m													3/4Br-3A	Dark brown coarse lithic rich quartz crystal rich volc sst with numerous dark grewy grey "fluidised fine grained interbeds" with irregular boundaries suggesting sediment dykes or dewatering of the sedimentary pile, a single 1.5cm haematite vein
195.60	196.35		VSST	KSP	Sil	Chl										P	w/m	P	w	Rp	w													3Gr-4Br	Olive grey-green (silica) and dark brown (potassic) veined fine grained quartz poor volcaniclastic sandstone with minor inerbeds of carser quartz rich material

Pluton Resources Detailed Drill Log

Hole Number	DR1	Sheet No	4	Mineralisation / Alteration and additional descriptors

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour							
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
196.35	199.40		VSST	KSP	Chl							Vn	0.5			SP	m	SP	m														4Br-4Gr
199.40	200.20		VSST	Chl	KSP											Sp	w/m	P	m/s														4A-N
200.20	205.25		VSST	Chl	KSP	Ser		D	0.1			Vn	0.1			SP	vw	P	m	Rp	w												4Br-4Gr
205.25	205.80		VSST	Chl				D	0.1									P	m														4Gr-4A
205.80	215.20		VSST	KSP	Chl									Vn	0.5	SP	m	Rp	w/m														4Gr-3Br
215.20	215.55		VSST	Chl	KSP			D	0.2							SP	w	P	m														4A
215.55	221.60		VSST	KSP				Vn	0.2	Vn	0.1			Vn	2	P	m			Sp	w												3Br>4A
221.60	222.05		VSST	Chl	KSP			D	0.5							Rp	w	P	m	Rp	vw												4A
222.05	225.00		VSST	KSP	Chl			D	2			Vn	0.2			P	m	SP	w/m														3Br>4A
225.00	225.30		VSST	Sil	KSP			D	4			Vn	0.1			SP	vw																2A
225.30	231.60		VSST	KSP	Chl	HEM		D	2			Vn	0.5			P	m	SP	w/m	Rp	vw												3Br-4A
231.60	232.00		VSST	Sil	DSX			D	4	Sp	0.2															w							2A
232.00	232.25		VSST	KSP	DSX			D	4							P	m/s																3Br-3O
232.25	233.20		VSST	SiSX	KSP			D	12	Sp	0.7					SP	w																2A
233.20	235.30		VSST	KSP				D	2.5	D	0.1					P	m									w							3O/Br>>4A
235.30	235.45		VSST	KSP	DSX			D	10	Sp	0.2					P	m									vw							3O-3Br
235.45	238.10		VSST	TML	HEM	KSP		D	8	D	0.1	Vn	10			SP	vw					Vn	m	SP	m								N-3R-3Br-1A
238.10	243.10		VSST	KSP	Sil	HEM		Vn	2			Vn	1			P	m	Vn	vw			SP	vw			vw							3O-4Br-2A
243.10	244.00		VSST	HEM	TML			D	2			Vn	5									P	S	Vn	m								4A-N-4R

196.35	199.40		VSST	KSP	Chl							Vn	0.5			SP	m	SP	m														4Br-4Gr

Coarse with sparse lithics, potassically altered (pervasive) with probable overprint of semi-pervasive and blotchy hard dark green silicate, minor haematite veinlets

199.40	200.20		VSST	Chl	KSP											Sp	w/m	P	m/s														4A-N

Dark grey fine grained quartz poor volcaniclastic sandstone, probable chlorite-silica in matrix, breccia like lower contact with matrix of fine grained unit containing angular blocks of light brown-pink crstal rich qtz-plag bearing volc sandstone

200.20	205.25		VSST	Chl	KSP	Ser		D	0.1			Vn	0.1			SP	vw	P	m	Rp	w												4Br-4Gr

Dark brown and green K-feldspar and chlorite altered coarse crystal rich lithic poor volcaniclastic sandstone, up to 25% plage replaced by chlorite and occasionally sericite? Rimmed, 30% subrounded quartz (3-9mm), 4% light crystal phase probably after biotite

205.25	205.80		VSST	Chl				D	0.1									P	m														4Gr-4A

Dark green-grey fine grained quartz poor volcaniclastic sandstone, probable chlorite-silica in matrix

205.80	215.20		VSST	KSP	Chl									Vn	0.5	SP	m	Rp	w/m														4Gr-3Br

Dark green to medium brown quartz rich (rounded to 7mm) lithic poor volcaniclastic sandstone with minor fine lithic rich (darker) beds with probable inclusoins/ripups of coarser quartz rich unit, semipervasive potassic alteration (m)

215.20	215.55		VSST	Chl	KSP			D	0.2							SP	w	P	m														4A

Fine lithic rich quartz poor volcaniclastic sandstone, dark from pervasive chlorite (m) overprinting potassic (w) alteration, weak disseminated pyrite

215.55	221.60		VSST	KSP				Vn	0.2	Vn	0.1			Vn	2	P	m			Sp	w												3Br>4A

Orangish Brown and dark grey altered coarse quartz rich lithic weak volcaniclastic sandstone, pervasive potassic alteration with late quartz-chlorite veins to 8mm (4/metre), occasional pale to light green alteration clots and pyrite in veins to 0.5%

221.60	222.05		VSST	Chl	KSP			D	0.5							Rp	w	P	m	Rp	vw												4A

Dark grey-green fine lithic rich quartz poor volcaniclastic sandstone, dark from pervasive chlorite (m) alteration, weak disseminated pyrite

222.05	225.00		VSST	KSP	Chl			D	2			Vn	0.2			P	m	SP	w/m														3Br>4A

Orangish Brown and dark grey altered coarse quartz rich lithic weak volcaniclastic sandstone, pervasive potassic alteration , rare haematite veinlets, pyrite increasing down hole towards next pyritic interval,

225.00	225.30		VSST	Sil	KSP			D	4			Vn	0.1			SP	vw																2A

Light-med grey fine grained slicified lithic rich quartz poor volcaniclastic sandstone with 4% disseminated pyrite and spotty k-feldspar alteration

225.30	231.60		VSST	KSP	Chl	HEM		D	2			Vn	0.5			P	m	SP	w/m	Rp	vw												3Br-4A

Orange-brown and dark grey quartz rich coarse volcaniclastic sandstone with moderate pervasive potassic alteration, 3 haematite veins/m, 2% dissem py, 5-10cm interbeds of fine lithic rich volc sandstone with irregular contacts, sericite pseudomorphing wispy/rectangular crystal shapes (2%)

231.60	232.00		VSST	Sil	DSX			D	4	Sp	0.2															w							2A

Light grey fine grained slicified quartz(m) volcaniclastic sandstone with 4% disseminated pyrite

232.00	232.25		VSST	KSP	DSX			D	4							P	m/s																3Br-3O

Orangish brown moderately-strongly potassically altered matrix to quartz rich lithic weak volcaniclastic sandstone with 4% dissem pyrite, quartz to 7mm rounded, spotty ksp replacing 3mm subhedral crystal phase, possible biotite component (1%)replaced by pyrite/chlorite/sericite

232.25	233.20		VSST	SiSX	KSP			D	12	Sp	0.7					SP	w																2A

Light grey coarse grained quatz rich volcaniclastic sandstone with strongly disseminated py>>cpy and probable silica alteration of matrix, cpy as clots

233.20	235.30		VSST	KSP				D	2.5	D	0.1					P	m									w							3O/Br>>4A

Orangish brown moderately potassically altered volcaniclastic sandstone with darker py associated alteration overprint, dissem inated pyrite 2-3% and trace disseminated cpy, rounded quatz to 30% and fine grained sediment possibly injected as soft sediment deformation

235.30	235.45		VSST	KSP	DSX			D	10	Sp	0.2					P	m									vw							3O-3Br

Orangish brown pevrasively potassically altered (m) fine grained (angular quartz to 3mm) volcaniclastic sandstone disseminated pyrite to 10% and clots of cpy (0.2%), pinkish k-feldspar replacement of crystal phase (5%), prob fining down hole

235.45	238.10		VSST	TML	HEM	KSP		D	8	D	0.1	Vn	10			SP	vw					Vn	m	SP	m								N-3R-3Br-1A

Black, red-silver, light grey and orangish red(subordinate) strongly altered volcaniclastic sandstone with tourmaline?- haematite veining and silica-pyrite alteration swamping a quartz rich volcaniclastic sandstone, possibly approaching a fault (fractured) down hole, pyrite 8% but 15% locally

238.10	243.10		VSST	KSP	Sil	HEM		Vn	2			Vn	1			P	m	Vn	vw			SP	vw			vw							3O-4Br-2A

Orange-brown quartz rich coarse volcaniclastic sandstone with moderate pervasive potassic alteration, occasional zones of silicification (light grey), 3 haematite veinlets/m, 2% dissem and vein pyrite associated with silicified zones and haematite veinlets, also spotty kfeldspar replacing crystal phase (plagioclase?)

243.10	244.00		VSST	HEM	TML			D	2			Vn	5									P	S	Vn	m								4A-N-4R

Dark grey, red and black, fine to medium grained quartz poor probable (fine) lithic rich pervasively haematite altered volcaniclastic sandstone with weak disseminated pyrite and moderate tourmaline veining towards end of interval, haematite replacing ~40% of the matrix/clasts

Pluton Resources Detailed Drill Log

Hole Number	DR1	Sheet No	5	Mineralisation / Alteration and additional descriptors

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	Full description
244.00	249.25		VSST	HEM	KSP	TML		D	0.1			Vn	0.1			SP	w/m					SP	m	Rp	w/m								w	4Br-4O-4R-4A	Dark brownish-red haematite and potassic altered quartz rich, lithic weak volcaniclastic sandstone with med-dark grey/black interbeds of fine quartz poor volc sandstone, spotty pink K-feldspar development particularly in the finer units, possible toumaline replacement of matrix in fine units with pseudobreccia of coarse volc sandstone 'clasts', fine units appear to be fining up hole eg:246.5 and 248.7, however bed form is irregular and may indicate fluidised sediment
249.25	265.25		VSST	HEM	KSP			Vn	0.1			Vn	0.3			SP	w	Vn	vw			SP	m/s										w	4R-4O-4Br	Dark brownish-red strong semi-pervasive and pervasive haematite and lesser potassic altered quartz rich, lithic weak volcaniclastic sandstone with grey or reddish haematitic 5-10cm interbeds of fine quartz poor volcaniclastic sandstone, very weak spotty pink K-feldspar development particularly in the finer units, one chloritic veined zone and one py-chl-hm-qtz vein
265.25	267.20		VSST	Sil	KSP	HEM		D	2.5	Vn	0.1	Vn	4	Vn	0.2	P	m					Vn	m										w	2A-3O/Br	Light grey (pervasive silica altered) and medium orange-brown (pervasive potassic alteration) of coarse and fine volcaniclastic sandstone, potassic alteration favours the coarse unit and silica-pyrite alteration is preferential in the fine unit, late haematite veins up to 10/m with accessory pyrite, one magnetite bearing vein and cpy as clots in haematite veinlets
267.20	270.60		VSST	KSP	HEM	Sil		D	0.1			Vn	0.5			P	m					SP	w/m			vw							w	3O>4A	Orange and grey quartz rich lithic poor volcaniclastic sandstone, with concentration of lithics down hole, pervasive potassic alteration, 30% rounded quartz to 8mm, pink K-feldspar replacement of crystal phase (plagioclase) and late haematite veinlets 3/m
270.60	271.00		VSST	KSP	Chl	HEM		Vn	0.1			Vn	1			P	m	SP	w			Vn	w			vw							w	3O/Br-3A	Pinkish-brown fine grained quartz weak probably lithic rich volcaniclastic sandstone, k-feldspar relacing crystal or lithic phase to 3mm, late hem veinlets
271.00	273.00		VSST	Sil	KSP	HEM		Vn	2	Sp	0.1	Vn	0.5			P	m					Vn	w										w	2A-3O/Br	Light grey (pervasive silica altered) and medium orange-brown (pervasive potassic alteration) coarse quartz rich volcaniclastic sandstone, silica alteration associtated with 3% pyrite, late haematite veinlets, pink K-feldspar spotting in potassic altered zones replacing crystal phase and 2-3% (replaced biotite) tabular cream crystal phase to 2mm
273.00	273.30		VSST	KSP	Sil			Vn	0.2			Vn	0.5			Sp	m					Vn	vw			vw							w	3O-4A	Pinkish-orange and medium grey fine grained potassically altered lithic rich volclaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals
273.30	282.90		VSST	KSP	Chl	HEM		Vn	0.5			Vn	0.2	Vn	0.2	P	m	SP	m			SP	w										w	3/4Br-4Gr	Orangish-brown and dark green-brown coarse quartz rich volcaniclastic sandstone, alternating zones of potassic-haematitic and potassic-chloritic alteration, chloritic alteration has some disseminated magnetite and magnetite occurs in a vein with concentrated pyrite, haematite veining associated with minor pyrite
282.90	284.45		VSST	KSP	HEM			D	2							P	m					SP	w										w	4R-3O-4A	Pinkish-orange and medium grey fine grained potassically altered quartz weak lithic rich volclaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals, up to 5% dissem py and semi-pervasive haematite
284.45	289.15		VSST	KSP	HEM	Chl						Vn	0.5			P	w/m	Vn	w			SP	w/m			w							w	2Br-4Br	Light tan, orange and dark brown coarse quartz crystal rich volcaniclastic sandstone, potassic alteration overprinted by darker haematite stain, haematite veins2/m, quartz-chlorite veins 5/m, pseudo breccia at start of interval with probable fine fluidised sediments
289.15	290.00		VSST	KSP	HEM											P	m					SP	w										w	4R-3O-4A	Pinkish-orange and medium grey fine grained potassically altered quartz weak lithic rich volclaniclastic sandstone, pink spotty K-feldspar development replacing up to 30% of clasts/crystals and semi-pervasive haematite
290.00	294.30		VSST	KSP	HEM	Chl						Vn	1			P	m	Vn	w			SP	w			w							w	2Br-3Br	Light tan, orange and brown coarse quartz crystal rich volcaniclastic sandstone, potassic alteration overprinted by darker haematite stain, haematite veins 3/m, quartz-chlorite veins 3/m, weak hint of chl and ser replacing crystal phases, fine interbed at 290.2-290.35/fluidised sediment injection
294.30	294.60		VSST	Ser	HEM	KSP						Vn	0.5			Sp	w			P	w	SP	w										w	2Br-1Gr-R	Tan and light olive green fine grained quartz weak lithic rich volclaniclastic sandstone, weak pink spotty K-feldspar development, pervasive weak sercitisation of matrix, semi-pervasive haematite (w)
294.60	302.60		VSST	KSP	HEM	Ser		Vn	0.3	Vn	0.05	Vn	0.5			P	m			Sv	w	SP	w			vw							w	3O-2Gr-3R-4Br	Pinkish-brown-orange and dark brown-red and olive green coarse quartz rich volcaniclastic sandstone, semi pervasive haematite alteration and veins with sericitic alteration haloes, pyrite and lesser chalcopyrite as vein accessories, one chl-qz vein/m
302.60	303.00		VSST	Chl	DSX			D	7	Vn	0.1							P	s														w	4Gr	Dark green chlorite-pyrite altered volcaniclastic sandstone, 7% dissem pyrite and trace chalcopyrite in veins/clots, hint of early potassic alteration
303.00	312.30		VSST	KSP	HEM	Chl		D	0.1							P	w/m	Rp	vw	Rp	vw	SP	w			vw							w	3O-4Br-4Gr	Dark brown and medium orange, potassically altered coarse quartz rich volcaniclastic sandstone with weak replacement of crystal phases of by chlorite and sericite near vein sevledges, haematite alteration as selvedges to veins/haloes with semi-pervasive appearence, spotty pink K-feldspar development, one chl-qtz vein/m, trace pyrite. A few minor 3-15cm fine interbeds of lithic rich volc sst
312.30	315.40		VSST	Sil	KSP			Vn	0.1			Vn	1			SP	w					Vn	w										w	2A	Pervasively silicified light grey coarse quartz rich volcaniclastic sandstone with hairlin haematite>py veins and light mineral phase (tabular/wispy) replaced by white-cream mineral (2-3%, possibly biotite)
315.40	316.40		VSST	Chl	KSP			Vn	2	Vn	0.5	Vn	0.5			P	w	P	m								Ga	Vn	5				S	4Gr	Dark green broken and veined faulted? Volcaniclastic sandstonewith moderate chlorite alteration and weakly potassically rubble, 3cm galena-pyrite-cpy-qtz vein
316.40	322.30		VSST	KSP	Ser	Chl										P	m	Rp	vw	Rp	w					vw							w	3Br/O-4Br/Gr	Orange and dark brown-green potasically and weakly chloritic coarse quartz rich volcaniclastic sandstone with sericite replacing crystal phase (plagiocalse) adjacent to veins giving a spotty appearance, one qtz-chl vein/m
322.30	322.70		VSST	Sil				Vn	5			Vn	1																				w	2A	Light grey strongly silicified coarse quartz crystal rich volcaniclastic sandstone with pyrite veining to 5% and lesser haematite in selvedges.
322.70	335.25		VSST	KSP	Ser	Chl										SP	m	Rp	w	Rp	w												w	4Br-4Gr-3Br	Medium orange-dark brown patchy potassic altered quartz rich lithic poor coarse volcaniclastic sandstone with spotty chlorite and sericite altered crystal phases
335.25	336.00		VSST	KSP	Mag			D	3			D	2	D	2	P	m					Vn	w										w	4A-3Br/O	Orange-dark grey fine lithic rich quartz weak volcaniclastic sandstone with moderate potassic alteration, grey magnetite rich alteration, disseminated and vein magnetite, 2% disseminated pyrite, possibly a magnetite halo from vein down hole , possibly fining up hole.
336.00	337.40		VSST	KSP	Chl			Vn	4	Vn	0.05	Vn	2			P	m	Rp	w			Vn	w			vw							w	3O-3Br>4A	Orange-brown potasically altered coarse quartz rich volcaniclastic sandstone with spotty k-feldspar and chlorite replacement of crystal phases other than quartz. Interval begins with two sulphidic veins, pyrite with haematite-pyrite selvedege, hard black alteration adjacent may be tourmaline also possible sericite alteration (soft olive green), quartz chlorite>>cpy veins in opposite orientation to sulphidic veins.

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources									
Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR1	0.00	2.00	-0.04	0.42	DR1	120.00	122.00	0.27	0.82
DR1	2.00	4.00	-0.07	0.07	DR1	122.00	124.00	0.19	0.57
DR1	4.00	6.00	0.23	1.51	DR1	124.00	126.00	0.46	1.28
DR1	6.00	8.00	-0.04	0.44	DR1	126.00	128.00	0.24	0.70
DR1	8.00	10.00	0.10	0.83	DR1	128.00	130.00	0.28	0.64
DR1	10.00	12.00	0.02	0.25	DR1	130.00	132.00	0.49	1.52
DR1	12.00	14.00	0.11	0.22	DR1	132.00	134.00	0.51	1.11
DR1	14.00	16.00	0.00	0.24	DR1	134.00	136.00	0.43	0.90
DR1	16.00	18.00	-0.03	0.09	DR1	136.00	138.00	0.40	0.80
DR1	18.00	20.00	-0.13	0.40	DR1	138.00	140.00	0.42	0.96
DR1	20.00	22.00	0.28	2.45	DR1	140.00	142.00	0.44	1.31
DR1	22.00	24.00	0.10	0.68	DR1	142.00	144.00	0.32	1.18
DR1	24.00	26.00	1.03	2.53	DR1	144.00	146.00	0.72	2.67
DR1	26.00	28.00	0.16	0.43	DR1	146.00	148.00	0.26	0.65
DR1	28.00	30.00	0.10	1.15	DR1	148.00	150.00	0.12	0.28
DR1	30.00	32.00	0.23	0.96	DR1	150.00	152.00	0.15	0.79
DR1	32.00	34.00	0.11	0.22	DR1	152.00	154.00	0.14	0.60
DR1	34.00	36.00	0.34	0.70	DR1	154.00	156.00	0.29	1.34
DR1	36.00	38.00	0.58	1.19	DR1	156.00	158.00	0.23	0.56
DR1	38.00	40.00	0.64	1.62	DR1	158.00	160.00	0.11	0.31
DR1	40.00	42.00	0.21	0.61	DR1	160.00	162.00	0.25	0.95
DR1	42.00	44.00	0.21	0.58	DR1	162.00	164.00	0.16	0.76
DR1	44.00	46.00	0.73	1.88	DR1	164.00	166.00	0.11	0.53
DR1	46.00	48.00	0.24	1.10	DR1	166.00	168.00	0.13	0.74
DR1	48.00	50.00	0.34	0.92	DR1	168.00	170.00	0.34	1.02
DR1	50.00	52.00	0.25	0.58	DR1	170.00	172.00	1.44	7.65
DR1	52.00	54.00	0.16	0.37	DR1	172.00	174.00	1.16	3.04
DR1	54.00	56.00	0.38	0.93	DR1	174.00	176.00	0.35	0.74
DR1	56.00	58.00	0.21	0.38	DR1	176.00	178.00	0.43	1.11
DR1	58.00	60.00	0.28	0.58	DR1	178.00	180.00	0.37	0.99
DR1	60.00	62.00	0.39	0.61	DR1	180.00	182.00	0.38	1.22
DR1	62.00	64.00	0.43	0.98	DR1	182.00	184.00	0.36	1.25
DR1	64.00	66.00	0.22	0.57	DR1	184.00	186.00	0.34	1.19
DR1	66.00	68.00	0.40	0.97	DR1	186.00	188.00	0.70	1.43
DR1	68.00	70.00	0.13	0.91	DR1	188.00	190.00	0.42	1.33
DR1	70.00	72.00	0.39	0.95	DR1	190.00	192.00	0.72	2.00
DR1	72.00	74.00	0.27	0.54	DR1	192.00	194.00	0.43	1.27
DR1	74.00	76.00	0.51	1.11	DR1	194.00	196.00	0.76	1.73
DR1	76.00	78.00	0.30	0.58	DR1	196.00	198.00	1.19	2.15
DR1	78.00	80.00	0.23	0.60	DR1	198.00	200.00	0.59	1.50
DR1	80.00	82.00	0.32	0.74	DR1	200.00	202.00	1.28	3.28
DR1	82.00	84.00	0.17	0.36	DR1	202.00	204.00	1.02	4.61
DR1	84.00	86.00	0.23	0.65	DR1	204.00	206.00	0.39	2.05
DR1	86.00	88.00	0.16	0.40	DR1	206.00	208.00	1.38	6.54
DR1	88.00	90.00	0.30	0.94	DR1	208.00	210.00	8.74	16.00
DR1	90.00	92.00	0.16	0.46	DR1	210.00	212.00	3.67	7.74
DR1	92.00	94.00	0.32	0.77	DR1	212.00	214.00	4.70	11.20
DR1	94.00	96.00	0.31	1.01	DR1	214.00	216.00	7.76	58.50
DR1	96.00	98.00	0.26	0.62	DR1	216.00	218.00	17.20	30.40
DR1	98.00	100.00	0.26	0.77	DR1	218.00	220.00	14.20	18.30
DR1	100.00	102.00	0.33	0.62	DR1	220.00	222.00	23.90	44.20
DR1	102.00	104.00	0.49	0.79	DR1	222.00	224.00	17.10	28.30
DR1	104.00	106.00	0.23	0.85	DR1	224.00	226.00	17.20	29.50
DR1	106.00	108.00	0.69	1.59	DR1	226.00	228.00	9.40	22.30
DR1	108.00	110.00	0.25	1.26	DR1	228.00	230.00	5.36	8.88
DR1	110.00	112.00	0.13	0.22	DR1	230.00	232.00	4.22	13.30
DR1	112.00	114.00	0.01	0.33	DR1	232.00	234.00	0.05	0.76
DR1	114.00	116.00	0.11	0.46	DR1	234.00	236.00	-0.02	0.16
DR1	116.00	118.00	0.21	0.61	DR1	236.00	238.00	0.46	1.20
DR1	118.00	120.00	0.07	0.58	DR1	238.00	240.00	0.05	0.22

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR1	240.00	242.00	0.01	0.30					
DR1	242.00	244.00	0.30	1.47					
DR1	244.00	246.00	0.06	0.63					
DR1	246.00	248.00	0.19	0.61					
DR1	248.00	250.00	0.36	1.15					
DR1	250.00	252.00	0.77	2.75					
DR1	252.00	254.00	0.35	0.67					
DR1	254.00	256.00	0.20	0.44					
DR1	256.00	258.00	0.30	0.60					
DR1	258.00	260.00	0.12	0.37					
DR1	260.00	262.00	0.49	1.08					
DR1	262.00	264.00	0.57	1.40					
DR1	264.00	266.00	0.79	5.59					
DR1	266.00	268.00	0.27	0.79					
DR1	268.00	270.00	0.33	0.60					
DR1	270.00	272.00	0.36	0.63					
DR1	272.00	274.00	0.17	0.67					
DR1	274.00	276.00	0.60	1.75					
DR1	276.00	278.00	2.30	14.30					
DR1	278.00	280.00	2.06	5.57					
DR1	280.00	282.00	1.04	3.31					
DR1	282.00	284.00	1.39	2.04					
DR1	284.00	286.00	0.54	1.89	`				
DR1	286.00	288.00	1.11	1.84					
DR1	288.00	290.00	4.52	12.60					
DR1	290.00	292.00	1.18	3.12					
DR1	292.00	294.00	1.11	4.94					
DR1	294.00	296.00	0.41	0.80					
DR1	296.00	298.00	1.67	5.31					
DR1	298.00	300.00	1.63	5.11					
DR1	300.00	302.00	0.55	1.13					
DR1	302.00	304.00	0.77	2.73					
DR1	304.00	306.00	0.15	0.48					
DR1	306.00	308.00	0.39	1.05					
DR1	308.00	310.00	0.91	1.55					
DR1	310.00	312.00	5.10	13.40					
DR1	312.00	314.00	0.23	0.51					
DR1	314.00	316.00	0.22	0.50					
DR1	316.00	318.00	10.10	13.70					
DR1	318.00	320.00	8.60	15.40					
DR1	320.00	322.00	18.20	27.30					
DR1	322.00	324.00	13.40	25.20					
DR1	324.00	326.00	14.40	19.10					
DR1	326.00	328.00	13.40	19.30					
DR1	328.00	330.00	14.30	20.10					
DR1	330.00	332.00	11.00	20.40					
DR1	332.00	334.00	8.27	17.20					
DR1	334.00	336.00	43.20	159.00					
DR1	336.00	337.40	9.09	21.10					
		EOH							

Significant intersection calculations								
Project	**Prospect**	**Hole_ID**	**From**	**To**	**Spl_Id**	**Au_ppm**	**Ag_ppm**	**Cu_ppm**
Tas Porphyry	Powerful	DR1	232	233	129833	0.013	0.62	3420
Tas Porphyry	Powerful	DR1	233	234	129834	0.008	0.45	1795
Tas Porphyry	Powerful	DR1	234	235	129835	0.001	0.22	511
Tas Porphyry	Powerful	DR1	235	236	129836	0.009	0.33	1025
Tas Porphyry	Powerful	DR1	236	237	129837	0.034	0.94	606
Tas Porphyry	Powerful	DR1	237	238	129838	0.195	2.03	424
Tas Porphyry	Powerful	DR1	232	233	129833	0.013	0.62	3420
Tas Porphyry	Powerful	DR1	233	234	129834	0.008	0.45	1795
Tas Porphyry	Powerful	DR1	234	235	129835	0.001	0.22	511
Tas Porphyry	Powerful	DR1	235	236	129836	0.009	0.33	1025
Tas Porphyry	Powerful	DR1	236	237	129837	0.034	0.94	606
Tas Porphyry	Powerful	DR1	237	238	129838	0.195	2.03	424
Tas Porphyry	Powerful	DR1	238	239	129839	0.018	0.46	147.5
Tas Porphyry	Powerful	DR1	239	240	129840	0.0005	0.44	515
Tas Porphyry	Powerful	DR1	240	241	129841	0.001	0.38	175
Tas Porphyry	Powerful	DR1	241	242	129842	0.007	0.55	1125
					SUM	0.034156	0.688125	1095.281
			from 232m		10m @	0.03g/t	0.64g/t	0.11%

Pluton Resources Ltd						Down hole whole rock data														
Project	Prospect	Hole_ID	From	To	Spl_Id	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
Tas Porphyry	Five Mile Rise	DR1	26	31	129231C	14.9	0.038	<0.01	<0.001	3.65	4.99	0.48	<0.001	0.032	0.051	73	<0.001	0.46	2.36	BR07077735
Tas Porphyry	Five Mile Rise	DR1	31	36	129236C	13.8	0.047	<0.01	<0.001	5.61	5.07	0.56	<0.001	0.041	0.031	72.1	<0.001	0.33	2.31	BR07077735
Tas Porphyry	Five Mile Rise	DR1	36	41	129241C	13	0.114	0.02	<0.001	4.31	5.97	0.86	<0.001	0.083	0.031	73.1	0.002	0.32	2.08	BR07077735
Tas Porphyry	Five Mile Rise	DR1	41	46	129246C	13	0.123	0.02	<0.001	4.52	6.4	0.98	<0.001	0.114	0.039	72.4	<0.001	0.3	2.08	BR07077735
Tas Porphyry	Five Mile Rise	DR1	46	51	129251C	13.1	0.132	0.01	<0.001	4.3	6.71	0.82	<0.001	0.096	0.039	72.5	0.003	0.31	1.97	BR07077735
Tas Porphyry	Five Mile Rise	DR1	51	56	129256C	12.65	0.083	0.01	<0.001	5.74	5.42	0.69	<0.001	0.064	0.075	72.8	<0.001	0.3	2.05	BR07077735
Tas Porphyry	Five Mile Rise	DR1	56	61	129261C	12.8	0.108	0.01	<0.001	5	6	0.94	<0.001	0.069	0.035	72.6	0.001	0.32	2.04	BR07077735
Tas Porphyry	Five Mile Rise	DR1	61	66	129266C	13.05	0.098	0.01	<0.001	3.92	5.42	0.7	<0.001	0.065	0.035	74.1	0.001	0.32	2.17	BR07077735
Tas Porphyry	Five Mile Rise	DR1	66	71	129271C	12.3	0.067	0.01	<0.001	8.51	4.79	0.69	0.004	0.062	0.043	71	<0.001	0.3	2.15	BR07077735
Tas Porphyry	Five Mile Rise	DR1	71	76	129276C	13.25	0.104	0.01	<0.001	4.47	5.54	0.69	<0.001	0.086	0.044	73.3	<0.001	0.32	2.15	BR07077735
Tas Porphyry	Five Mile Rise	DR1	76	81	129281C	13.15	0.116	0.04	<0.001	4.51	5.92	0.91	<0.001	0.236	0.044	72.7	<0.001	0.31	1.99	BR07077735
Tas Porphyry	Five Mile Rise	DR1	81	86	129286C	13.05	0.127	0.03	<0.001	4.58	6.29	0.73	<0.001	0.172	0.06	72.6	0.001	0.31	2.06	BR07077735
Tas Porphyry	Five Mile Rise	DR1	86	91	129291C	12.95	0.099	0.01	<0.001	4.81	5.75	0.68	<0.001	0.105	0.063	73.1	<0.001	0.31	2.11	BR07077735
Tas Porphyry	Five Mile Rise	DR1	91	96	129296C	12.8	0.108	0.01	<0.001	5.02	6.03	0.67	<0.001	0.113	0.074	72.6	<0.001	0.33	2.17	BR07077735
Tas Porphyry	Five Mile Rise	DR1	96	101	129701C	12.75	0.132	0.02	<0.001	4.4	6.45	0.75	<0.001	0.113	0.031	73.1	0.004	0.3	1.86	BR07077735
Tas Porphyry	Five Mile Rise	DR1	101	106	129706C	12.8	0.136	0.01	<0.001	5.19	6.48	0.59	<0.001	0.095	0.042	72.6	0.002	0.3	1.67	BR07077735
Tas Porphyry	Five Mile Rise	DR1	106	111	129711C	12.95	0.127	0.01	<0.001	5.11	5.79	0.54	<0.001	0.075	0.065	73.1	0.002	0.3	1.89	BR07077735
Tas Porphyry	Five Mile Rise	DR1	111	116	129716C	12.45	0.114	0.01	<0.001	6.46	5.33	0.61	<0.001	0.085	0.05	72.6	0.001	0.29	1.86	BR07077735
Tas Porphyry	Five Mile Rise	DR1	116	121	129721C	12.75	0.128	<0.01	<0.001	5.84	5.68	0.53	<0.001	0.09	0.053	72.6	<0.001	0.3	1.93	BR07077735
Tas Porphyry	Five Mile Rise	DR1	121	126	129726C	12.85	0.122	0.01	<0.001	5.81	5.71	0.56	<0.001	0.089	0.05	72.8	<0.001	0.31	1.59	BR07077735
Tas Porphyry	Five Mile Rise	DR1	126	131	129731C	13.1	0.056	<0.01	<0.001	7.58	4.41	0.58	<0.001	0.128	0.026	71.8	<0.001	0.32	2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	131	136	129736C	12.8	0.138	0.04	<0.001	5.75	5.99	0.42	<0.001	0.169	0.068	74.2	<0.001	0.3	0.05	BR07077735
Tas Porphyry	Five Mile Rise	DR1	136	141	129741C	12.65	0.146	0.04	<0.001	6.07	6.43	0.38	<0.001	0.152	0.05	72.2	<0.001	0.3	1.56	BR07077735
Tas Porphyry	Five Mile Rise	DR1	141	146	129746C	12.2	0.095	0.07	0.001	10.4	4.88	0.76	<0.001	0.304	0.059	69.2	0.001	0.33	1.56	BR07077735
Tas Porphyry	Five Mile Rise	DR1	146	151	129751C	11.95	0.083	0.04	<0.001	9.31	4.82	0.57	<0.001	0.229	0.06	65.7	<0.001	0.3	3.03	BR07077735
Tas Porphyry	Five Mile Rise	DR1	151	156	129756C	12.6	0.078	0.02	<0.001	6.83	4.97	0.53	<0.001	0.268	0.072	71.3	0.001	0.3	2.24	BR07077735
Tas Porphyry	Five Mile Rise	DR1	156	161	129761C	13.9	0.115	0.05	<0.001	4.05	6.09	0.49	<0.001	0.218	0.08	72.1	0.004	0.33	2.54	BR07077735
Tas Porphyry	Five Mile Rise	DR1	161	166	129766C	13.95	0.109	0.04	<0.001	4.55	5.42	0.4	<0.001	0.194	0.109	71.7	<0.001	0.31	3.17	BR07077735
Tas Porphyry	Five Mile Rise	DR1	166	171	129771C	14.15	0.093	0.06	<0.001	4.29	4.87	0.58	0.008	0.174	0.112	71.7	0.001	0.32	3.38	BR07077735
Tas Porphyry	Five Mile Rise	DR1	171	176	129776C	12.05	0.099	0.17	<0.001	6.13	4.45	1.96	0.055	0.684	0.069	71.5	0.002	0.37	2.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	176	181	129781C	12.75	0.112	0.18	<0.001	5.62	5.72	1.4	0.018	0.621	0.081	71.2	0.003	0.34	1.92	BR07077735
Tas Porphyry	Five Mile Rise	DR1	181	186	129786C	12.65	0.124	0.12	<0.001	5.1	6.62	1.16	0.01	0.436	0.072	71.7	0.001	0.31	1.66	BR07077735
Tas Porphyry	Five Mile Rise	DR1	186	191	129791C	12.65	0.132	0.15	<0.001	5.27	7.24	1.12	0.004	0.244	0.083	71.2	0.004	0.34	1.49	BR07077735
Tas Porphyry	Five Mile Rise	DR1	191	196	129796C	12.45	0.092	0.16	<0.001	7.44	5.87	1.01	<0.001	0.235	0.116	70.4	0.001	0.32	1.83	BR07077735
Tas Porphyry	Five Mile Rise	DR1	196	201	129801C	12.55	0.117	0.25	<0.001	5.34	6.3	1.13	0.026	0.777	0.076	71.4	0.002	0.31	1.69	BR07077735
Tas Porphyry	Five Mile Rise	DR1	201	206	129806C	12.55	0.101	0.28	<0.001	5.46	5.38	1.28	0.037	1.135	0.078	71.3	0.006	0.31	1.98	BR07077735
Tas Porphyry	Five Mile Rise	DR1	206	211	129811C	12.6	0.113	0.25	<0.001	5.35	6.38	1.24	0.029	0.722	0.079	71.1	0.004	0.33	1.78	BR07077735
Tas Porphyry	Five Mile Rise	DR1	211	216	129816C	12.55	0.132	0.19	<0.001	5.47	7.38	1.06	0.012	0.383	0.079	70.7	0.005	0.32	1.62	BR07077735
Tas Porphyry	Five Mile Rise	DR1	216	221	129821C	12.4	0.177	0.17	<0.001	4.42	8.52	0.87	0.003	0.288	0.077	71.5	0.005	0.3	1.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	221	226	129826C	12.4	0.146	0.17	<0.001	5.27	7.85	0.88	0.002	0.288	0.079	70.4	0.005	0.32	1.42	BR07077735
Tas Porphyry	Five Mile Rise	DR1	226	231	129831C	12.25	0.119	0.19	<0.001	6.43	6.85	1.02	0.005	0.242	0.081	70.5	<0.001	0.29	1.45	BR07077735
Tas Porphyry	Five Mile Rise	DR1	231	236	129836C	11.65	0.106	0.15	<0.001	5.93	6.85	0.46	<0.001	0.223	0.076	66.5	<0.001	0.28	2.48	BR07077735
Tas Porphyry	Five Mile Rise	DR1	236	241	129841C	10.8	0.088	0.25	<0.001	13.65	5.46	0.67	0.074	0.298	0.134	63	<0.001	0.25	2.21	BR07077735
Tas Porphyry	Five Mile Rise	DR1	241	246	129846C	11.45	0.095	0.17	<0.001	9.06	6.39	0.48	<0.001	0.228	0.062	68.2	0.001	0.3	1.73	BR07077735
Tas Porphyry	Five Mile Rise	DR1	246	251	129851C	12.55	0.128	0.21	<0.001	5.24	8.06	0.71	0.002	0.274	0.099	71.1	0.002	0.34	1.15	BR07077735
Tas Porphyry	Five Mile Rise	DR1	251	256	129856C	12.4	0.159	0.3	0.003	5.03	9.01	0.63	0.006	0.304	0.076	70.8	0.004	0.31	0.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	256	261	129861C	12.15	0.131	0.23	0.024	5.15	8.92	0.52	0.033	0.266	0.11	71	0.004	0.3	0.79	BR07077735
Tas Porphyry	Five Mile Rise	DR1	261	266	129866C	12.3	0.148	0.21	0.047	5.37	8.96	0.35	<0.001	0.296	0.084	70.7	0.001	0.31	0.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	266	271	129871C	11.55	0.136	0.25	0.024	8.92	7.25	0.44	0.009	0.279	0.094	67.1	0.001	0.28	1.55	BR07077735
Tas Porphyry	Five Mile Rise	DR1	271	276	129876C	12.05	0.116	0.14	0.008	5.55	7.58	0.34	<0.001	0.256	0.063	69	<0.001	0.3	1.67	BR07077735
Tas Porphyry	Five Mile Rise	DR1	276	281	129881C	12.45	0.15	0.21	<0.001	4.73	8.97	0.65	<0.001	0.319	0.075	71	0.002	0.31	0.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	281	286	129886C	11.9	0.14	0.21	<0.001	6.39	8.58	0.41	0.012	0.304	0.06	69.4	0.001	0.31	1	BR07077735
Tas Porphyry	Five Mile Rise	DR1	286	291	129891C	12.25	0.158	0.18	<0.001	5.01	8.48	0.59	0.033	0.234	0.078	71.4	<0.001	0.31	1.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	291	296	129896C	12.35	0.134	0.17	<0.001	5.02	8.04	0.44	0.012	0.214	0.074	71.8	0.001	0.3	1.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	296	301	152001C	12.05	0.146	0.16	<0.001	5.47	8.06	0.49	<0.001	0.25	0.07	71.2	0.002	0.29	1.36	BR07077735
Tas Porphyry	Five Mile Rise	DR1	301	306	152006C	12.25	0.142	0.16	<0.001	6.07	8.06	0.89	0.017	0.266	0.079	69.5	0.003	0.32	1.37	BR07077735
Tas Porphyry	Five Mile Rise	DR1	306	311	152011C	12.45	0.17	0.18	0.02	4.27	8.82	0.54	0.01	0.274	0.074	71.6	0.006	0.31	1.11	BR07077735
Tas Porphyry	Five Mile Rise	DR1	311	316	152016C	11.85	0.062	0.23	0.034	6.06	5.35	0.45	0.017	0.205	0.089	70.9	<0.001	0.28	2.15	BR07077735
Tas Porphyry	Five Mile Rise	DR1	316	321	152021C	12.2	0.158	0.23	0.071	4.28	8.21	0.69	0.031	0.292	0.09	71.7	0.002	0.3	1.25	BR07077735
Tas Porphyry	Five Mile Rise	DR1	321	326	152026C	12.55	0.112	0.18	0.047	4.39	6.3	0.98	0.015	0.809	0.07	72.2	0.003	0.3	1.63	BR07077735
Tas Porphyry	Five Mile Rise	DR1	326	331	152031C	12.7	0.12	0.26	0.01	4.47	6.74	0.96	0.015	0.888	0.072	72.2	0.003	0.29	1.25	BR07077735
Tas Porphyry	Five Mile Rise	DR1	331	336	152036C	12.5	0.148	0.18	0.025	4.78	7.89	0.62	0.01	0.278	0.081	71.8	<0.001	0.31	1.06	BR07077735
Tas Porphyry	Five Mile Rise	DR1	336	337.4	152038C	11.85	0.12	0.18	<0.001	5.59	7.06	0.56	0.028	0.206	0.07	69.9	<0.001	0.29	1.83	BR07077735

Pluton Resources Ltd																							
Down hole rare earth assay data																							
Project	Prospect	Hole_ID	From	To	Spl_Id	Ce (ppm)	Dy (ppm)	Er (ppm)	Eu (ppm)	Gd (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Nd (ppm)	Pr (ppm)	Sm (ppm)	Tb (ppm)	Th (ppm)	Tm (ppm)	U (ppm)	Y (ppm)	Yb (ppm)	Lab Batch
Tas Porphyry	Five Mile Rise	DR1	26	31	129231C	130.5	5.6	3.5	1.6	7.1	1.2	69.8	0.6	48.5	13.9	7.7	1.0	27.0	0.5	7.3	31.6	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	31	36	129236C	133.5	5.1	3.4	1.7	7.3	1.0	63.0	0.6	54.0	14.5	8.7	0.9	27.0	0.5	5.4	30.4	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	36	41	129241C	122.0	5.6	3.3	1.6	7.3	1.1	59.0	0.5	47.0	12.9	8.1	1.0	26.0	0.5	6.6	31.7	3.5	BR07077735
Tas Porphyry	Five Mile Rise	DR1	41	46	129246C	110.0	5.3	3.2	1.5	7.0	1.1	54.6	0.5	42.9	11.7	7.3	1.0	26.0	0.5	6.4	29.2	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	46	51	129251C	112.0	4.5	2.8	1.5	6.7	0.9	56.7	0.5	43.6	12.1	7.2	0.8	26.0	0.4	6.1	24.1	3.0	BR07077735
Tas Porphyry	Five Mile Rise	DR1	51	56	129256C	134.5	6.1	3.4	2.0	8.2	1.2	65.8	0.5	51.7	14.2	9.1	1.1	26.0	0.5	7.6	33.3	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	56	61	129261C	115.5	5.8	3.5	1.7	7.5	1.2	56.8	0.5	45.6	12.3	8.0	1.0	25.0	0.5	5.5	33.4	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	61	66	129266C	109.5	6.1	3.6	1.9	7.2	1.2	53.7	0.6	43.6	11.8	7.6	1.1	26.0	0.5	6.9	34.0	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	66	71	129271C	148.5	8.1	4.8	3.7	9.9	1.6	72.4	0.7	59.3	15.9	10.6	1.4	24.0	0.7	7.4	46.4	4.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	71	76	129276C	119.5	6.1	3.9	2.1	7.6	1.3	57.9	0.6	46.1	12.6	7.9	1.1	26.0	0.6	7.9	36.7	4.1	BR07077735
Tas Porphyry	Five Mile Rise	DR1	76	81	129281C	121.0	5.9	3.5	1.8	7.3	1.2	60.3	0.6	47.6	12.8	8.2	1.0	26.0	0.5	6.8	33.3	3.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	81	86	129286C	112.5	5.6	3.4	1.7	7.0	1.1	55.0	0.5	43.7	12.0	7.6	1.0	26.0	0.5	6.7	31.1	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	86	91	129291C	126.0	6.3	3.7	1.9	8.1	1.3	63.3	0.5	49.1	13.5	8.4	1.1	26.0	0.6	6.9	35.7	3.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	91	96	129296C	113.5	5.6	3.5	1.7	7.0	1.2	236.0	0.6	43.3	11.9	7.6	1.0	26.0	0.5	8.0	32.9	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	96	101	129701C	123.5	5.8	3.5	2.0	7.5	1.2	61.3	0.5	47.7	13.1	8.1	1.1	26.0	0.5	7.3	32.7	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	101	106	129706C	114.0	5.3	3.1	1.9	6.6	1.0	55.1	0.5	42.9	11.8	7.4	0.9	26.0	0.5	7.9	28.7	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	106	111	129711C	116.5	5.7	3.5	2.2	7.3	1.2	59.5	0.6	45.0	12.5	7.8	1.0	26.0	0.5	8.6	33.5	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	111	116	129716C	98.3	5.2	3.3	2.0	6.0	1.1	46.5	0.5	35.2	9.7	6.2	0.9	24.0	0.5	6.8	31.5	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	116	121	129721C	97.0	5.3	3.4	1.8	6.3	1.1	47.5	0.6	38.0	10.4	6.8	0.9	25.0	0.5	7.9	31.8	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	121	126	129726C	107.0	5.9	3.8	2.2	7.4	1.3	55.6	0.7	42.8	11.7	7.6	1.0	26.0	0.6	7.3	39.4	4.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	126	131	129731C	52.7	4.3	2.7	1.4	4.4	0.9	26.4	0.5	20.8	5.5	4.2	0.7	26.0	0.4	5.9	26.3	3.0	BR07077735
Tas Porphyry	Five Mile Rise	DR1	131	136	129736C	142.0	6.5	3.9	2.6	7.9	1.3	79.0	0.6	50.3	14.1	8.4	1.1	24.0	0.6	6.5	36.2	3.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	136	141	129741C	132.0	5.9	3.6	2.0	6.9	1.2	72.5	0.6	45.9	12.9	7.5	1.0	25.0	0.6	5.8	34.8	3.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	141	146	129746C	134.5	8.2	5.7	2.7	8.7	1.8	73.6	1.0	49.9	13.6	8.7	1.3	21.0	0.9	7.5	62.1	6.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	146	151	129751C	115.0	6.6	4.3	1.6	6.4	1.4	63.3	0.6	38.7	11.2	6.2	1.0	24.0	0.6	4.7	40.8	4.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	151	156	129756C	114.0	7.3	4.5	2.0	7.6	1.5	60.1	0.7	43.2	11.7	7.5	1.2	25.0	0.7	7.6	45.7	4.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	156	161	129761C	122.5	5.8	3.7	1.9	7.6	1.2	64.6	0.6	46.3	13.0	7.8	1.0	27.0	0.6	8.7	35.7	4.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	161	166	129766C	118.5	6.7	4.5	2.0	7.3	1.4	59.0	0.7	44.8	12.4	7.6	1.1	27.0	0.7	9.6	42.0	4.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	166	171	129771C	119.5	5.5	3.4	1.8	7.2	1.1	59.3	0.6	45.3	12.5	7.9	1.0	26.0	0.5	9.3	32.0	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	171	176	129776C	98.9	5.4	3.3	1.6	6.7	1.1	47.7	0.5	40.1	10.7	7.2	0.9	19.0	0.5	5.6	31.2	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	176	181	129781C	110.0	5.4	3.2	1.7	6.7	1.1	53.4	0.5	42.9	11.6	7.3	1.0	24.0	0.5	6.9	29.4	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	181	186	129786C	101.5	5.7	3.3	1.7	6.6	1.1	50.4	0.5	39.6	10.9	7.0	1.0	25.0	0.5	6.6	31.0	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	186	191	129791C	111.0	5.4	3.3	1.7	6.8	1.1	54.2	0.5	42.0	11.5	7.2	1.0	24.0	0.5	5.7	32.3	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	191	196	129796C	100.5	8.0	5.3	1.9	7.4	1.7	48.7	0.8	38.9	10.6	7.2	1.3	24.0	0.8	6.9	49.2	5.5	BR07077735
Tas Porphyry	Five Mile Rise	DR1	196	201	129801C	105.5	5.7	3.4	1.8	6.7	1.1	52.2	0.5	41.1	11.1	7.1	1.0	25.0	0.5	6.3	31.4	3.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	201	206	129806C	116.5	5.2	3.2	1.6	6.8	1.1	57.7	0.5	42.4	12.1	7.3	1.0	24.0	0.5	6.3	30.8	3.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	206	211	129811C	117.0	5.1	3.1	1.8	6.6	1.1	56.9	0.5	43.8	12.5	7.6	1.0	24.0	0.5	6.0	30.6	3.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	211	216	129816C	116.0	4.6	3.0	1.7	6.3	1.0	56.1	0.5	42.8	12.2	7.2	0.9	24.0	0.5	7.9	27.8	3.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	216	221	129821C	112.0	4.6	3.0	1.7	6.0	1.0	55.3	0.5	41.5	11.8	7.0	0.8	25.0	0.5	5.3	27.9	3.1	BR07077735
Tas Porphyry	Five Mile Rise	DR1	221	226	129826C	130.0	5.1	3.1	1.9	7.0	1.1	64.0	0.5	48.0	13.5	8.0	1.0	26.0	0.5	6.3	30.4	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	226	231	129831C	140.0	5.6	3.4	2.2	7.6	1.1	70.3	0.5	50.4	14.5	8.8	1.1	25.0	0.5	6.8	33.3	3.5	BR07077735
Tas Porphyry	Five Mile Rise	DR1	231	236	129836C	116.0	6.1	3.9	1.7	6.6	1.4	56.3	0.6	42.3	12.0	7.1	1.0	29.0	0.6	8.7	38.0	4.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	236	241	129841C	88.6	8.6	5.8	2.2	7.1	2.0	47.9	0.9	32.7	9.0	6.5	1.3	19.0	0.9	12.3	56.6	6.2	BR07077735
Tas Porphyry	Five Mile Rise	DR1	241	246	129846C	175.5	7.0	4.3	3.1	9.3	1.5	96.0	0.7	60.5	17.6	10.3	1.3	22.0	0.7	7.3	41.3	4.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	246	251	129851C	95.2	5.4	3.5	1.5	5.9	1.2	45.0	0.6	35.6	10.0	6.4	0.9	24.0	0.5	6.2	33.6	3.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	251	256	129856C	131.5	6.3	3.7	2.6	8.1	1.3	68.2	0.5	47.6	13.4	8.9	1.2	24.0	0.6	5.5	37.7	3.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	256	261	129861C	118.5	6.0	3.6	2.0	7.3	1.3	58.4	0.6	44.0	12.4	8.1	1.1	24.0	0.6	6.3	35.7	3.8	BR07077735
Tas Porphyry	Five Mile Rise	DR1	261	266	129866C	90.7	5.2	3.4	1.6	6.0	1.2	44.8	0.6	34.2	9.5	6.2	0.9	24.0	0.5	6.2	33.0	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	266	271	129871C	70.6	4.3	2.9	1.2	4.4	1.0	35.4	0.5	25.3	7.2	4.4	0.7	22.0	0.5	6.4	28.4	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	271	276	129876C	100.0	5.3	3.4	1.7	6.1	1.2	50.6	0.6	36.5	10.3	6.5	0.9	23.0	0.5	5.4	33.4	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	276	281	129881C	106.5	4.7	3.0	1.6	6.2	1.0	52.3	0.5	39.0	11.0	6.7	0.9	25.0	0.5	5.7	28.9	3.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	281	286	129886C	141.0	6.0	3.6	2.3	8.2	1.3	69.3	0.6	52.0	14.7	9.2	1.1	23.0	0.6	5.7	36.3	3.9	BR07077735
Tas Porphyry	Five Mile Rise	DR1	286	291	129891C	112.5	5.4	3.5	1.9	6.8	1.2	56.7	0.6	42.0	11.7	7.4	1.0	24.0	0.5	5.2	35.7	3.7	BR07077735
Tas Porphyry	Five Mile Rise	DR1	291	296	129896C	121.5	6.8	4.6	2.0	7.3	1.5	57.7	0.8	43.5	12.5	7.9	1.2	24.0	0.7	6.1	42.7	5.0	BR07077735
Tas Porphyry	Five Mile Rise	DR1	296	301	152001C	120.0	8.0	5.3	2.2	8.2	1.8	59.7	0.8	44.0	12.3	8.0	1.3	23.0	0.8	7.9	50.4	5.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	301	306	152006C	98.0	4.6	3.1	1.4	5.4	1.0	47.1	0.5	35.9	10.1	6.2	0.8	24.0	0.5	6.1	28.4	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	306	311	152011C	121.0	5.0	3.1	1.8	6.4	1.0	58.5	0.5	42.9	12.1	7.5	0.9	25.0	0.5	5.5	30.0	3.4	BR07077735
Tas Porphyry	Five Mile Rise	DR1	311	316	152016C	143.5	7.5	5.2	2.3	8.6	1.7	75.5	0.8	50.9	14.4	9.1	1.3	19.0	0.8	6.6	50.7	5.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	316	321	152021C	122.0	5.6	3.4	1.9	7.0	1.1	60.2	0.5	43.9	12.6	7.8	1.0	24.0	0.5	5.6	34.1	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	321	326	152026C	114.5	4.9	3.0	1.6	6.4	1.1	55.7	0.5	41.2	11.8	7.3	0.9	25.0	0.5	5.1	29.2	3.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	326	331	152031C	100.5	4.8	3.0	1.5	6.0	1.0	49.0	0.5	36.7	10.4	6.4	0.9	25.0	0.5	5.2	29.0	3.3	BR07077735
Tas Porphyry	Five Mile Rise	DR1	331	336	152036C	98.8	5.0	3.1	1.6	6.1	1.1	47.3	0.6	37.4	10.4	6.8	0.9	24.0	0.5	5.0	31.2	3.6	BR07077735
Tas Porphyry	Five Mile Rise	DR1	336	337.4	152038C	83.0	4.1	2.6	1.2	5.0	0.9	37.2	0.5	32.0	8.9	5.5	0.7	23.0	0.4	5.1	25.2	3.1	BR07077735

Project	Tas Porphyry	Prospect		Five Mile Rise	Hole_ID	DR1
Pluton Resources - Sampling Notes						
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay		
129227		26	27	Au, Base Metals. Whole Rock and REE on 5m Comps		
129228		27	28	Au, Base Metals. Whole Rock and REE on 5m Comps		
129229		28	29	Au, Base Metals. Whole Rock and REE on 5m Comps		
129230		29	30	Au, Base Metals. Whole Rock and REE on 5m Comps		
129231	129231C	30	31	Au, Base Metals. Whole Rock and REE on 5m Comps		
129232		31	32	Au, Base Metals. Whole Rock and REE on 5m Comps		
129233		32	33	Au, Base Metals. Whole Rock and REE on 5m Comps		
129234		33	34	Au, Base Metals. Whole Rock and REE on 5m Comps		
129235		34	35	Au, Base Metals. Whole Rock and REE on 5m Comps		
129236	129236C	35	36	Au, Base Metals. Whole Rock and REE on 5m Comps		
129237		36	37	Au, Base Metals. Whole Rock and REE on 5m Comps		
129238		37	38	Au, Base Metals. Whole Rock and REE on 5m Comps		
129239		38	39	Au, Base Metals. Whole Rock and REE on 5m Comps		
129240		39	40	Au, Base Metals. Whole Rock and REE on 5m Comps		
129241	129241C	40	41	Au, Base Metals. Whole Rock and REE on 5m Comps		
129242		41	42	Au, Base Metals. Whole Rock and REE on 5m Comps		
129243		42	43	Au, Base Metals. Whole Rock and REE on 5m Comps		
129244		43	44	Au, Base Metals. Whole Rock and REE on 5m Comps		
129245		44	45	Au, Base Metals. Whole Rock and REE on 5m Comps		
129246	129246C	45	46	Au, Base Metals. Whole Rock and REE on 5m Comps		
129247		46	47	Au, Base Metals. Whole Rock and REE on 5m Comps		
129248		47	48	Au, Base Metals. Whole Rock and REE on 5m Comps		
129249		48	49	Au, Base Metals. Whole Rock and REE on 5m Comps		
129250		49	50	Au, Base Metals. Whole Rock and REE on 5m Comps		
129251	129251C	50	51	Au, Base Metals. Whole Rock and REE on 5m Comps		
129252		51	52	Au, Base Metals. Whole Rock and REE on 5m Comps		
129253		52	53	Au, Base Metals. Whole Rock and REE on 5m Comps		
129254		53	54	Au, Base Metals. Whole Rock and REE on 5m Comps		
129255		54	55	Au, Base Metals. Whole Rock and REE on 5m Comps		
129256	129256C	55	56	Au, Base Metals. Whole Rock and REE on 5m Comps		
129257		56	57	Au, Base Metals. Whole Rock and REE on 5m Comps		
129258		57	58	Au, Base Metals. Whole Rock and REE on 5m Comps		
129259		58	59	Au, Base Metals. Whole Rock and REE on 5m Comps		
129260		59	60	Au, Base Metals. Whole Rock and REE on 5m Comps		
129261	129261C	60	61	Au, Base Metals. Whole Rock and REE on 5m Comps		
129262		61	62	Au, Base Metals. Whole Rock and REE on 5m Comps		
129263		62	63	Au, Base Metals. Whole Rock and REE on 5m Comps		
129264		63	64	Au, Base Metals. Whole Rock and REE on 5m Comps		
129265		64	65	Au, Base Metals. Whole Rock and REE on 5m Comps		
129266	129266C	65	66	Au, Base Metals. Whole Rock and REE on 5m Comps		
129267		66	67	Au, Base Metals. Whole Rock and REE on 5m Comps		
129268		67	68	Au, Base Metals. Whole Rock and REE on 5m Comps		
129269		68	69	Au, Base Metals. Whole Rock and REE on 5m Comps		
129270		69	70	Au, Base Metals. Whole Rock and REE on 5m Comps		
129271	129271C	70	71	Au, Base Metals. Whole Rock and REE on 5m Comps		
129272		71	72	Au, Base Metals. Whole Rock and REE on 5m Comps		
129273		72	73	Au, Base Metals. Whole Rock and REE on 5m Comps		
129274		73	74	Au, Base Metals. Whole Rock and REE on 5m Comps		
129275		74	75	Au, Base Metals. Whole Rock and REE on 5m Comps		
129276	129276C	75	76	Au, Base Metals. Whole Rock and REE on 5m Comps		
129277		76	77	Au, Base Metals. Whole Rock and REE on 5m Comps		
129278		77	78	Au, Base Metals. Whole Rock and REE on 5m Comps		
129279		78	79	Au, Base Metals. Whole Rock and REE on 5m Comps		
129280		79	80	Au, Base Metals. Whole Rock and REE on 5m Comps		
129281	129281C	80	81	Au, Base Metals. Whole Rock and REE on 5m Comps		
129282		81	82	Au, Base Metals. Whole Rock and REE on 5m Comps		
129283		82	83	Au, Base Metals. Whole Rock and REE on 5m Comps		
129284		83	84	Au, Base Metals. Whole Rock and REE on 5m Comps		
129285		84	85	Au, Base Metals. Whole Rock and REE on 5m Comps		
129286	129286C	85	86	Au, Base Metals. Whole Rock and REE on 5m Comps		
129287		86	87	Au, Base Metals. Whole Rock and REE on 5m Comps		
129288		87	88	Au, Base Metals. Whole Rock and REE on 5m Comps		
129289		88	89	Au, Base Metals. Whole Rock and REE on 5m Comps		

129290		89	90	Au, Base Metals. Whole Rock and REE on 5m Comps
129291	129291C	90	91	Au, Base Metals. Whole Rock and REE on 5m Comps
129292		91	92	Au, Base Metals. Whole Rock and REE on 5m Comps
129293		92	93	Au, Base Metals. Whole Rock and REE on 5m Comps
129294		93	94	Au, Base Metals. Whole Rock and REE on 5m Comps
129295		94	95	Au, Base Metals. Whole Rock and REE on 5m Comps
129296	129296C	95	96	Au, Base Metals. Whole Rock and REE on 5m Comps
129297		96	97	Au, Base Metals. Whole Rock and REE on 5m Comps
129298		97	98	Au, Base Metals. Whole Rock and REE on 5m Comps
129299		98	99	Au, Base Metals. Whole Rock and REE on 5m Comps
129300		99	100	Au, Base Metals. Whole Rock and REE on 5m Comps
129701	129701C	100	101	Au, Base Metals. Whole Rock and REE on 5m Comps
129702		101	102	Au, Base Metals. Whole Rock and REE on 5m Comps
129703		102	103	Au, Base Metals. Whole Rock and REE on 5m Comps
129704		103	104	Au, Base Metals. Whole Rock and REE on 5m Comps
129705		104	105	Au, Base Metals. Whole Rock and REE on 5m Comps
129706	129706C	105	106	Au, Base Metals. Whole Rock and REE on 5m Comps
129707		106	107	Au, Base Metals. Whole Rock and REE on 5m Comps
129708		107	108	Au, Base Metals. Whole Rock and REE on 5m Comps
129709		108	109	Au, Base Metals. Whole Rock and REE on 5m Comps
129710		109	110	Au, Base Metals. Whole Rock and REE on 5m Comps
129711	129711C	110	111	Au, Base Metals. Whole Rock and REE on 5m Comps
129712		111	112	Au, Base Metals. Whole Rock and REE on 5m Comps
129713		112	113	Au, Base Metals. Whole Rock and REE on 5m Comps
129714		113	114	Au, Base Metals. Whole Rock and REE on 5m Comps
129715		114	115	Au, Base Metals. Whole Rock and REE on 5m Comps
129716	129716C	115	116	Au, Base Metals. Whole Rock and REE on 5m Comps
129717		116	117	Au, Base Metals. Whole Rock and REE on 5m Comps
129718		117	118	Au, Base Metals. Whole Rock and REE on 5m Comps
129719		118	119	Au, Base Metals. Whole Rock and REE on 5m Comps
129720		119	120	Au, Base Metals. Whole Rock and REE on 5m Comps
129721	129721C	120	121	Au, Base Metals. Whole Rock and REE on 5m Comps
129722		121	122	Au, Base Metals. Whole Rock and REE on 5m Comps
129723		122	123	Au, Base Metals. Whole Rock and REE on 5m Comps
129724		123	124	Au, Base Metals. Whole Rock and REE on 5m Comps
129725		124	125	Au, Base Metals. Whole Rock and REE on 5m Comps
129726	129726C	125	126	Au, Base Metals. Whole Rock and REE on 5m Comps
129727		126	127	Au, Base Metals. Whole Rock and REE on 5m Comps
129728		127	128	Au, Base Metals. Whole Rock and REE on 5m Comps
129729		128	129	Au, Base Metals. Whole Rock and REE on 5m Comps
129730		129	130	Au, Base Metals. Whole Rock and REE on 5m Comps
129731	129731C	130	131	Au, Base Metals. Whole Rock and REE on 5m Comps
129732		131	132	Au, Base Metals. Whole Rock and REE on 5m Comps
129733		132	133	Au, Base Metals. Whole Rock and REE on 5m Comps
129734		133	134	Au, Base Metals. Whole Rock and REE on 5m Comps
129735		134	135	Au, Base Metals. Whole Rock and REE on 5m Comps
129736	129736C	135	136	Au, Base Metals. Whole Rock and REE on 5m Comps
129737		136	137	Au, Base Metals. Whole Rock and REE on 5m Comps
129738		137	138	Au, Base Metals. Whole Rock and REE on 5m Comps
129739		138	139	Au, Base Metals. Whole Rock and REE on 5m Comps
129740		139	140	Au, Base Metals. Whole Rock and REE on 5m Comps
129741	129741C	140	141	Au, Base Metals. Whole Rock and REE on 5m Comps
129742		141	142	Au, Base Metals. Whole Rock and REE on 5m Comps
129743		142	143	Au, Base Metals. Whole Rock and REE on 5m Comps
129744		143	144	Au, Base Metals. Whole Rock and REE on 5m Comps
129745		144	145	Au, Base Metals. Whole Rock and REE on 5m Comps
129746	129746C	145	146	Au, Base Metals. Whole Rock and REE on 5m Comps
129747		146	147	Au, Base Metals. Whole Rock and REE on 5m Comps
129748		147	148	Au, Base Metals. Whole Rock and REE on 5m Comps
129749		148	149	Au, Base Metals. Whole Rock and REE on 5m Comps
129750		149	150	Au, Base Metals. Whole Rock and REE on 5m Comps
129751	129751C	150	151	Au, Base Metals. Whole Rock and REE on 5m Comps
129752		151	152	Au, Base Metals. Whole Rock and REE on 5m Comps
129753		152	153	Au, Base Metals. Whole Rock and REE on 5m Comps
129754		153	154	Au, Base Metals. Whole Rock and REE on 5m Comps
129755		154	155	Au, Base Metals. Whole Rock and REE on 5m Comps
129756	129756C	155	156	Au, Base Metals. Whole Rock and REE on 5m Comps

129757		156	157	Au, Base Metals. Whole Rock and REE on 5m Comps
129758		157	158	Au, Base Metals. Whole Rock and REE on 5m Comps
129759		158	159	Au, Base Metals. Whole Rock and REE on 5m Comps
129760		159	160	Au, Base Metals. Whole Rock and REE on 5m Comps
129761	129761C	160	161	Au, Base Metals. Whole Rock and REE on 5m Comps
129762		161	162	Au, Base Metals. Whole Rock and REE on 5m Comps
129763		162	163	Au, Base Metals. Whole Rock and REE on 5m Comps
129764		163	164	Au, Base Metals. Whole Rock and REE on 5m Comps
129765		164	165	Au, Base Metals. Whole Rock and REE on 5m Comps
129766	129766C	165	166	Au, Base Metals. Whole Rock and REE on 5m Comps
129767		166	167	Au, Base Metals. Whole Rock and REE on 5m Comps
129768		167	168	Au, Base Metals. Whole Rock and REE on 5m Comps
129769		168	169	Au, Base Metals. Whole Rock and REE on 5m Comps
129770		169	170	Au, Base Metals. Whole Rock and REE on 5m Comps
129771	129771C	170	171	Au, Base Metals. Whole Rock and REE on 5m Comps
129772		171	172	Au, Base Metals. Whole Rock and REE on 5m Comps
129773		172	173	Au, Base Metals. Whole Rock and REE on 5m Comps
129774		173	174	Au, Base Metals. Whole Rock and REE on 5m Comps
129775		174	175	Au, Base Metals. Whole Rock and REE on 5m Comps
129776	129776C	175	176	Au, Base Metals. Whole Rock and REE on 5m Comps
129777		176	177	Au, Base Metals. Whole Rock and REE on 5m Comps
129778		177	178	Au, Base Metals. Whole Rock and REE on 5m Comps
129779		178	179	Au, Base Metals. Whole Rock and REE on 5m Comps
129780		179	180	Au, Base Metals. Whole Rock and REE on 5m Comps
129781	129781C	180	181	Au, Base Metals. Whole Rock and REE on 5m Comps
129782		181	182	Au, Base Metals. Whole Rock and REE on 5m Comps
129783		182	183	Au, Base Metals. Whole Rock and REE on 5m Comps
129784		183	184	Au, Base Metals. Whole Rock and REE on 5m Comps
129785		184	185	Au, Base Metals. Whole Rock and REE on 5m Comps
129786	129786C	185	186	Au, Base Metals. Whole Rock and REE on 5m Comps
129787		186	187	Au, Base Metals. Whole Rock and REE on 5m Comps
129788		187	188	Au, Base Metals. Whole Rock and REE on 5m Comps
129789		188	189	Au, Base Metals. Whole Rock and REE on 5m Comps
129790		189	190	Au, Base Metals. Whole Rock and REE on 5m Comps
129791	129791C	190	191	Au, Base Metals. Whole Rock and REE on 5m Comps
129792		191	192	Au, Base Metals. Whole Rock and REE on 5m Comps
129793		192	193	Au, Base Metals. Whole Rock and REE on 5m Comps
129794		193	194	Au, Base Metals. Whole Rock and REE on 5m Comps
129795		194	195	Au, Base Metals. Whole Rock and REE on 5m Comps
129796	129796C	195	196	Au, Base Metals. Whole Rock and REE on 5m Comps
129797		196	197	Au, Base Metals. Whole Rock and REE on 5m Comps
129798		197	198	Au, Base Metals. Whole Rock and REE on 5m Comps
129799		198	199	Au, Base Metals. Whole Rock and REE on 5m Comps
129800		199	200	Au, Base Metals. Whole Rock and REE on 5m Comps
129801	129801C	200	201	Au, Base Metals. Whole Rock and REE on 5m Comps
129802		201	202	Au, Base Metals. Whole Rock and REE on 5m Comps
129803		202	203	Au, Base Metals. Whole Rock and REE on 5m Comps
129804		203	204	Au, Base Metals. Whole Rock and REE on 5m Comps
129805		204	205	Au, Base Metals. Whole Rock and REE on 5m Comps
129806	129806C	205	206	Au, Base Metals. Whole Rock and REE on 5m Comps
129807		206	207	Au, Base Metals. Whole Rock and REE on 5m Comps
129808		207	208	Au, Base Metals. Whole Rock and REE on 5m Comps
129809		208	209	Au, Base Metals. Whole Rock and REE on 5m Comps
129810		209	210	Au, Base Metals. Whole Rock and REE on 5m Comps
129811	129811C	210	211	Au, Base Metals. Whole Rock and REE on 5m Comps

129812		211	212	Au, Base Metals. Whole Rock and REE on 5m Comps
129813		212	213	Au, Base Metals. Whole Rock and REE on 5m Comps
129814		213	214	Au, Base Metals. Whole Rock and REE on 5m Comps
129815		214	215	Au, Base Metals. Whole Rock and REE on 5m Comps
129816	129816C	215	216	Au, Base Metals. Whole Rock and REE on 5m Comps
129817		216	217	Au, Base Metals. Whole Rock and REE on 5m Comps
129818		217	218	Au, Base Metals. Whole Rock and REE on 5m Comps
129819		218	219	Au, Base Metals. Whole Rock and REE on 5m Comps
129820		219	220	Au, Base Metals. Whole Rock and REE on 5m Comps
129821	129821C	220	221	Au, Base Metals. Whole Rock and REE on 5m Comps
129822		221	222	Au, Base Metals. Whole Rock and REE on 5m Comps
129823		222	223	Au, Base Metals. Whole Rock and REE on 5m Comps
129824		223	224	Au, Base Metals. Whole Rock and REE on 5m Comps
129825		224	225	Au, Base Metals. Whole Rock and REE on 5m Comps
129826	129826C	225	226	Au, Base Metals. Whole Rock and REE on 5m Comps
129827		226	227	Au, Base Metals. Whole Rock and REE on 5m Comps
129828		227	228	Au, Base Metals. Whole Rock and REE on 5m Comps
129829		228	229	Au, Base Metals. Whole Rock and REE on 5m Comps
129830		229	230	Au, Base Metals. Whole Rock and REE on 5m Comps
129831	129831C	230	231	Au, Base Metals. Whole Rock and REE on 5m Comps
129832		231	232	Au, Base Metals. Whole Rock and REE on 5m Comps
129833		232	233	Au, Base Metals. Whole Rock and REE on 5m Comps
129834		233	234	Au, Base Metals. Whole Rock and REE on 5m Comps
129835		234	235	Au, Base Metals. Whole Rock and REE on 5m Comps
129836	129836C	235	236	Au, Base Metals. Whole Rock and REE on 5m Comps
129837		236	237	Au, Base Metals. Whole Rock and REE on 5m Comps
129838		237	238	Au, Base Metals. Whole Rock and REE on 5m Comps
129839		238	239	Au, Base Metals. Whole Rock and REE on 5m Comps
129840		239	240	Au, Base Metals. Whole Rock and REE on 5m Comps
129841	129841C	240	241	Au, Base Metals. Whole Rock and REE on 5m Comps
129842		241	242	Au, Base Metals. Whole Rock and REE on 5m Comps
129843		242	243	Au, Base Metals. Whole Rock and REE on 5m Comps
129844		243	244	Au, Base Metals. Whole Rock and REE on 5m Comps
129845		244	245	Au, Base Metals. Whole Rock and REE on 5m Comps
129846	129846	245	246	Au, Base Metals. Whole Rock and REE on 5m Comps
129847		246	247	Au, Base Metals. Whole Rock and REE on 5m Comps
129848		247	248	Au, Base Metals. Whole Rock and REE on 5m Comps
129849		248	249	Au, Base Metals. Whole Rock and REE on 5m Comps
129850		249	250	Au, Base Metals. Whole Rock and REE on 5m Comps
129851	129851C	250	251	Au, Base Metals. Whole Rock and REE on 5m Comps
129852		251	252	Au, Base Metals. Whole Rock and REE on 5m Comps
129853		252	253	Au, Base Metals. Whole Rock and REE on 5m Comps
129854		253	254	Au, Base Metals. Whole Rock and REE on 5m Comps
129855		254	255	Au, Base Metals. Whole Rock and REE on 5m Comps
129856	129856C	255	256	Au, Base Metals. Whole Rock and REE on 5m Comps
129857		256	257	Au, Base Metals. Whole Rock and REE on 5m Comps
129858		257	258	Au, Base Metals. Whole Rock and REE on 5m Comps
129859		258	259	Au, Base Metals. Whole Rock and REE on 5m Comps
129860		259	260	Au, Base Metals. Whole Rock and REE on 5m Comps
129861	129861C	260	261	Au, Base Metals. Whole Rock and REE on 5m Comps
129862		261	262	Au, Base Metals. Whole Rock and REE on 5m Comps
129863		262	263	Au, Base Metals. Whole Rock and REE on 5m Comps
129864		263	264	Au, Base Metals. Whole Rock and REE on 5m Comps
129865		264	265	Au, Base Metals. Whole Rock and REE on 5m Comps
129866	129866C	265	266	Au, Base Metals. Whole Rock and REE on 5m Comps
129867		266	267	Au, Base Metals. Whole Rock and REE on 5m Comps
129868		267	268	Au, Base Metals. Whole Rock and REE on 5m Comps
129869		268	269	Au, Base Metals. Whole Rock and REE on 5m Comps
129870		269	270	Au, Base Metals. Whole Rock and REE on 5m Comps
129871	129871C	270	271	Au, Base Metals. Whole Rock and REE on 5m Comps
129872		271	272	Au, Base Metals. Whole Rock and REE on 5m Comps
129873		272	273	Au, Base Metals. Whole Rock and REE on 5m Comps
129874		273	274	Au, Base Metals. Whole Rock and REE on 5m Comps
129875		274	275	Au, Base Metals. Whole Rock and REE on 5m Comps
129876	129876C	275	276	Au, Base Metals. Whole Rock and REE on 5m Comps

129877		276	277	Au, Base Metals. Whole Rock and REE on 5m Comps
129878		277	278	Au, Base Metals. Whole Rock and REE on 5m Comps
129879		278	279	Au, Base Metals. Whole Rock and REE on 5m Comps
129880		279	280	Au, Base Metals. Whole Rock and REE on 5m Comps
129881	129881C	280	281	Au, Base Metals. Whole Rock and REE on 5m Comps
129882		281	282	Au, Base Metals. Whole Rock and REE on 5m Comps
129883		282	283	Au, Base Metals. Whole Rock and REE on 5m Comps
129884		283	284	Au, Base Metals. Whole Rock and REE on 5m Comps
129885		284	285	Au, Base Metals. Whole Rock and REE on 5m Comps
129886	129886C	285	286	Au, Base Metals. Whole Rock and REE on 5m Comps
129887		286	287	Au, Base Metals. Whole Rock and REE on 5m Comps
129888		287	288	Au, Base Metals. Whole Rock and REE on 5m Comps
129889		288	289	Au, Base Metals. Whole Rock and REE on 5m Comps
129890		289	290	Au, Base Metals. Whole Rock and REE on 5m Comps
129891	129891C	290	291	Au, Base Metals. Whole Rock and REE on 5m Comps
129892		291	292	Au, Base Metals. Whole Rock and REE on 5m Comps
129893		292	293	Au, Base Metals. Whole Rock and REE on 5m Comps
129894		293	294	Au, Base Metals. Whole Rock and REE on 5m Comps
129895		294	295	Au, Base Metals. Whole Rock and REE on 5m Comps
129896	129896C	295	296	Au, Base Metals. Whole Rock and REE on 5m Comps
129897		296	297	Au, Base Metals. Whole Rock and REE on 5m Comps
129898		297	298	Au, Base Metals. Whole Rock and REE on 5m Comps
129899		298	299	Au, Base Metals. Whole Rock and REE on 5m Comps
129900		299	300	Au, Base Metals. Whole Rock and REE on 5m Comps
152001	152001C	300	301	Au, Base Metals. Whole Rock and REE on 5m Comps
152002		301	302	Au, Base Metals. Whole Rock and REE on 5m Comps
152003		302	303	Au, Base Metals. Whole Rock and REE on 5m Comps
152004		303	304	Au, Base Metals. Whole Rock and REE on 5m Comps
152005		304	305	Au, Base Metals. Whole Rock and REE on 5m Comps
152006	152006C	305	306	Au, Base Metals. Whole Rock and REE on 5m Comps
152007		306	307	Au, Base Metals. Whole Rock and REE on 5m Comps
152008		307	308	Au, Base Metals. Whole Rock and REE on 5m Comps
152009		308	309	Au, Base Metals. Whole Rock and REE on 5m Comps
152010		309	310	Au, Base Metals. Whole Rock and REE on 5m Comps
152011	152011C	310	311	Au, Base Metals. Whole Rock and REE on 5m Comps
152012		311	312	Au, Base Metals. Whole Rock and REE on 5m Comps
152013		312	313	Au, Base Metals. Whole Rock and REE on 5m Comps
152014		313	314	Au, Base Metals. Whole Rock and REE on 5m Comps
152015		314	315	Au, Base Metals. Whole Rock and REE on 5m Comps
152016	152016C	315	316	Au, Base Metals. Whole Rock and REE on 5m Comps
152017		316	317	Au, Base Metals. Whole Rock and REE on 5m Comps
152018		317	318	Au, Base Metals. Whole Rock and REE on 5m Comps
152019		318	319	Au, Base Metals. Whole Rock and REE on 5m Comps
152020		319	320	Au, Base Metals. Whole Rock and REE on 5m Comps
152021	152021C	320	321	Au, Base Metals. Whole Rock and REE on 5m Comps
152022		321	322	Au, Base Metals. Whole Rock and REE on 5m Comps
152023		322	323	Au, Base Metals. Whole Rock and REE on 5m Comps
152024		323	324	Au, Base Metals. Whole Rock and REE on 5m Comps
152025		324	325	Au, Base Metals. Whole Rock and REE on 5m Comps
152026	152026C	325	326	Au, Base Metals. Whole Rock and REE on 5m Comps
152027		326	327	Au, Base Metals. Whole Rock and REE on 5m Comps
152028		327	328	Au, Base Metals. Whole Rock and REE on 5m Comps
152029		328	329	Au, Base Metals. Whole Rock and REE on 5m Comps
152030		329	330	Au, Base Metals. Whole Rock and REE on 5m Comps
152031	152031C	330	331	Au, Base Metals. Whole Rock and REE on 5m Comps
152032		331	332	Au, Base Metals. Whole Rock and REE on 5m Comps
152033		332	333	Au, Base Metals. Whole Rock and REE on 5m Comps
152034		333	334	Au, Base Metals. Whole Rock and REE on 5m Comps
152035		334	335	Au, Base Metals. Whole Rock and REE on 5m Comps
152036	152036C	335	336	Au, Base Metals. Whole Rock and REE on 5m Comps
152037		336	337	Au, Base Metals. Whole Rock and REE on 5m Comps
152038	152038C	337	337.4	Au, Base Metals. Whole Rock and REE on 5m Comps

Summary Drill Log and Header — Pluton Resources Ltd.

PROJECT:	Tas Porphyry		**HOLE NO:**	**DR2**		**DRILL TYPE:**		Diamond
PROSPECT:	Powerful		DATE COMMENCED:	**17/05/2007**		**DRILLER:**		Almac Drilling
EL:	14/2006		DATE COMPLETED:	**12/06/2007**		LOGGED BY:		John McD
EASTING	427800	+-50m	**TOTAL DEPTH (m):**	**428**		DATE:		7/09/2007
NORTHING	5397750	AGD66	**AZIMUTH:**	**294**		OXIDATION	BOPO:	9.0
COLLAR RL:	510	25k map	**DIP:**	**-60**			BOCO:	3.6

Drilling details

Core Size	From	To
PQ		
HQ	0.00	41.00
NQ	41.00	428.00
BQ		

Comments

Hole designed to test weak K-band radiometric anomalism bordering a pronounced aeromagnetic bulls-eye high, south of Lorinna. This bulls-eye high had been tested by an RC hole drilled by Shell in the early 1980's which passed throught the Tertiary Basalt into Precambrian Schist, a satisfactory explanation of the magnetic anomaly was not determined and so an angled deeper hole was chosen. Main foliation in Precambrian is occasionally crenulated

Significant Intervals:

Hole_ID	From	To	Interval
DR2	90.00	91.00	1m @ 1.96 g/t Au

Summary Log

From	To	Graphic	Summary Description (Lith, Altn, Mineralisation)
0.00	57.95	Tb	Tertiary Basalt - vesicular, massive and occasional calcite/zeolite veining
57.95	70.80	Ts	Poorly consolidated friable dark brown Tertiary mudstone
70.80	91.30	pC	Brecciated Precambrian strongly foliated schist
91.30	98.00	pC	Haematite-pyrite rich brecciated Precambrian schist, including massive specular haematite veins with 10-15% py clots and chloritic selveges
98.00	244.30	pC	Strongly broken, weakly brecciated, strongly foliated Precambrian schist with pyrite as dissems and in foliation, some haematitic zones
244.30	259.70	pC/Cg	Precambrian metamorphics with small dykes of potassically altered granite
259.70	266.50	Cg	Variably potassic-chlorite-sericite-silica altered quartz-plagioclase-hornblende>biotite and k-feldspar granite
266.50	272.75	Cg	Haematite and quartz veined granite
272.75	428.00	Cg	Variably potassic-chlorite-sericite-silica altered quartz-plagioclase-hornblende>biotite and k-feldspar granite

Down Hole Surveys - Pluton Resources									
Hole_ID	Depth	Azimuth	Dip	ID	Mag_azm	Type	Verified	Comment	Date
DR2	0	294	-60		280	2	N	Check Az	17/05/2007
DR2	50	294	-60		280	1	Y		18/05/2007
DR2	100	284	-60		270	1	Y		21/05/2007
DR2	150	311	-60		297	1	Y		
DR2	200	289	-60		275	1	Y		
DR2	250	289	-60		275	1	Y		28/05/2007
DR2	300	285	-59.75		271	1	Y		
DR2	350	294	-59.5		280	1	Y		31/05/2007
DR2	400	302.5	-58.75		288.5	1	Y		

Pluton Resources Detailed Drill Log

Hole Number	DR2	Sheet No	1	Mineralisation / Alteration and additional descriptors

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour							
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
0.00	57.95	Tb	LMB				T																									w	4A	Tertiary Basalt - vesicular, massive and occasional calcite/zeolite veining
57.95	70.80	Ts	SMDST																													w	4Br	Poorly consolidated friable dark chocolate brown Tertiary mudstone, possibly lake sediments
70.80	86.50	pC	MUSED					D	1											P	w											s	2A	Strongly foliated medium and light grey striped fine grained "schist"
86.50	88.70	pC	OHBX					D	0.1																							s	3A	Breccia of precambrian "schist" consisting of dark angular clasts to 4cm in a fine soft light grey matrix, possibly sericite altered
88.70	91.30	pC	MUSED					Vn	1			Vn	0.5																			s	4A>2A	Dark>light grey schist with one pyrite-haematite-chlorite vein with pyrite clots
91.30	98.00	pC	MUSED	HEM				Sp	10			Vn	30									Vn	s									w	4R-3Gr	Massive haematite veins with subordinate clots of pyrite in medium green brecciated Precambrian schist, including massive specular haematite veins to 60cm and locally 60% haematite and 30% pyrite and chloritic selveges
98.00	106.60	pC	OHBX	Chl	KSP			D	3			Vn	3			Sp	w/m	P	m			Vn	w			w						m	4Gr	Dark green pervasive chlorite altered brecciated "schist" with weak patches and clots of potassic alteration, sparsely quartz>haematite>pyrite veined possibly with some intrusive material?
106.60	137.00	pC	MUSED	Ser	Chl			Vn	2									SP	w/m	Sp	w											m/s	4A	Dark grey foliated fine Precambrian "schist" with occasional haematite veins nearer last interval, pyrite veins in foliation, weak zones of sericite alteration and chloritisation of brecciated portions of interval
137.00	149.00	pC	MUSED	KSP				Vn	1							P	w/m															m	1Br-3A	Light orange-brown and darker grey stronly foliates "schist" with pervasive potassic (light brown) alteration, strongest in breccia zones
149.00	157.70	pC	MUSED		KSP			Vn	1							SP	vw															m/s	4A	Dark grey moderately-strongly foliated fine Precambrian "schist" with 1% pyrite as veins in the foliation. Small 5cm dykes of orthoclase and quartz rich granite occur at 153.6 and 155.4 with associated weak potassic haloes
157.70	159.90	pC	MUSED	Ser	KSP			Vn	0.5																							s	2Gr/A-4A	Light green and dark grey striped strongly foliated fine Precambrian "schist", possibly a mudstone protolith, weak chlorite veinlets sub-parallel to long core axis
159.90	175.50	pC	MUSED					Vn	1			Sp	0.1																			m/s	2Br-4A	Tan-dark grey fine grained foliated Precambrian "schist", vein pyrite 1% in foliation with occasional clots, probable mudstone precursor
175.50	182.50	pC	MUSED	HEM				Vn	3			Vn	3																			w	4A>4O	Haematite-pyrite veined dark grey>dark orange foliated fine grained Precambrian "schist"
182.50	195.85	pC	MUSED					Vn	0.5																							m	4A-5Br	Dark fine grained Precambrian "schist" with fine quartz <1mm, with occasional 10cm hydrothermal breccia zones typically with a rubbly broken appearence, weak late potassic alteration approaching dyke down hole
195.85	196.05	Cg	IFGRAN	Chl	Ser	KSP																										w	2Gr-2P	Light green and pink granite, consisting of 10-15% quartz, 40-45% zoned green plagioclase, chloritised mafics probably hornblende>biotite ~20% and ~25% interstitial pink K-feldspar (orthoclase) which may be an alteration product
196.05	210.00	pC	MUSED	Ser	HEM			Sp	0.2			Vn	0.5																			w/m	4A-2Gr	Dark grey and pale green foliated spotted Precambrian "schist" and minor breccia zones, potassic alteration approaching up hole contact with dyke and sericite and increasing haematite approaching dyke on down hole contact, trace cpy at 207m
210.00	210.30	Cg	IFGRAN	KSP	Chl																											w	3O/P>4A	Banded fine grained aplite and coarse granite, quartz and K-feldspar rich, hard crystalline brown mineral in qtz vein with tan streak, possibly sphalerite or cassiterite
210.30	216.00	pC	MUSED	HEM								Vn	5														Ci	Vn	0.2				w	3Gr-4A	Dark grey to medium green-grey fine weakly spotted and foliated precambrian "schist", haematite veined (m) and rare calcite veinlets

Pluton Resources Detailed Drill Log

Hole Number	DR2	Sheet No	2	Mineralisation / Alteration and additional descriptors

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	
216.00	226.85	pC	MUSED					Vn	1.5							SP	vw																w/m	4A-5A	Dark grey-green fine-very fine grained foliatied Precambrian schist with sparse pyrite clots as veins in foliation, occasionally spotted with brown mineral with a light brown streak (sphalerite?), weak semi-pervasive potassic alteration with dykes of K-feldspar rich granite at 220.4 (5cm) and 220.6(3cm)
226.85	227.70	pC	OHBX					D	2	Sp	0.1	Sp	0.5																				m	3Gr-4A	Brecciated Precambrian pale grey-green schist clasts in a dark grey-black and olive green matrix, angular clasts typically 1-4cm but up to 12cm, very weak patchy haematite alteration in matrix, minor py 1-2%, faulted down hole contact with gouge
227.70	236.30	pC	MUSED	HEM				D	0.3	Sp	0.05																						m/s	3A-4A	Medium to dark grey strongly foliated fine grained Precambrian "schist", haematite increasing approaching dyke down hole with up to 0.5% cpy in this zone
236.30	236.60	Cg	IFGRAN	KSP																													w	P-2A	Pink- light green granite consisting of quartz-plagioclase-orthoclase (alteration?) and sericitised dyke margins and possible sphalerite clot on one margin
236.60	242.80	pC	MUSED					Vn	0.5	Sp	0.01																						w/m	4A-4Gr	Dark grey-green foliated and spotted (hornfels spotting) Precambrian "schist", potassic alteration extends 30cm into this interval away from up hole contact with dyke, vein and disseminated pyrite in foliation 1%
242.80	243.55	Cg	IFPEG																														w	P-2Gr	Pink coarse grained granite/pegmatite intruded parallel to main foliation in Precambrian "schist", K-feldspar>quartz and 30% light green-yellow-tan silicate (possibly plagioclase), multiple quartz-chlorite-pyrite veinlets at low angle to LCA, <1% chlorite after biotite?, maximum dip of ~30 degrees
243.55	244.60	pC	MUSED					Vn	0.2	Vn	0.01																						m	3A-4A	Medium to dark grey spotted/foliated Precambrian "schist" with very fine sub 1mm white fleck, trace pyrite in foliation>>cpy
244.60	244.95	Cg	IFPEG																														w	P	Pink coarse grained pegmatite, K-feldspar to 2cm>quartz> interstitial olive green and dark green minerals, orthoclase has granophyric looking wavy intergrowths?
244.95	248.00	pC	MUSED	Ser	KSP			Vn	0.2							SP	vw			P	w/m						Ci	Vn	0.2				m/s	3A-1Gr	Med grey-pale green foliated and probably hornfels spotted Precambrian "schist" with pyrite in foliation and sericite alteration approaching the down hole contact
248.00	248.50	Cg	IFGRAN	Ser	KSP	Chl										P	w	Vn	w	P	m/s												m	P-2A	Light green and pink granite, qtz<k-feldspar with strong pervasive sericite alteration>potassic alteration (or primary orthoclae) and minor chlorite veining
248.50	253.50	pC	MUSED	KSP	Ser			Vn	1							SP	w			SP	w												m	4A	Dark grey>light orange foliated and spotted (hornfelsed) Precambrian "schist" with semi-pervasive sericite alteration near up hole contact and semi-pervasive potassic alteration near down hole contact, trace spotting of dark brown mineral with light brown streak
253.50	255.70	Cg	IFGRAN					Vn	0.2	Vn	0.01					P	w			Rp	w												w	3Gr-2P-C	Pink and med-dark green potasic and probably silica altered nearly porphyritic granite, 15% larger quartz to10mm and ~15% finer quartz, 5-7% chloritised mafics, yellowish-green and cream (replaced) plagioclase 40%
225.70	259.70	pC	MUSED	KSP	Chl	Ser		Sp	2	Sp	0.2					Bnd	m																m/s	3P-4Gr	Dark green and pink foliated and weakly spotted Precambrian "schist" with strong k-feldspar alteration developed as bands in the foliation, clots of pyrite and rare clots of chalcopyrite in the foliation
259.70	272.75	Cg	IFGRAN	HEM	Chl	Ser						Vn	3			P	w	Rp	w/m	Rp	w/m												w	3O-2/3Gr	Granite with irregular up hole contact, typically 30% large quartz, 15% ferromagnesian minerals (always replaced), 25 % plagioclase (yellowish green) and 25-30% orange-pink K-feldspar, heamatite veined (w-m) with one large quartz-haematite vein (266.8m), pink K-feldspar replacing plagioclase in more orange coloured zones, chlorite and sericite developed strongly around some haematite veins (replacing plagioclase as well as ferromagnesian phases) also haematite replacing K-feldspar in strongest haematite-calcite veined zone
272.75	300.70	Cg	IFGRAN	KSP	Chl									Vn	0.1	P	m	Rp	w/m	Rp	w												w	3O	Pinkish orange granite, typically 20% large quartz, 15-20% ferromagnesian minerals (replaced by chl), 25 % plagioclase (yellowish green) and 30-35% orange-pink K-feldspar and occasional chlorite and haematite veins (279.5-282), rare magnetite veinlets eg:276m, pevasive mod and strong K-feldspar alteration
300.70	309.90	Cg	IFGRAN	Sil	KSP	Chl										SP	w	Rp	w/m														w	W-1Gr-N	White to pale green and black flecked granite, variably silica altered, occasionally swamped (white) with only remenant crystal patches, same original composition as previous interval K-Feldspar>Plag>Quartz>ferromags
309.90	324.70	Cg	IFGRAN	KSP	Chl											P	w/m	Rp	w/m														w	P>3Gr	Pink - green granite, variably K-feldspar altered, chloritic replacement of ferromagnesian phase and zoned plagioglase with lighter rims, tiny trace of moly on one fracture, trace py in other fractures, K-Feldspar35>Plag30%>Quartz20%> chlorite replaces ferromagnesian minerals ~15%
324.70	326.60	Cg	IFGRAN	Ser																Rp	m/s												w	3Gr	Green pink and white granite, strongly sericite altered (replacing plagioclase), typically quartz 30% = K-Feldspar 30% > Plagioclase 25% > chloritised ferromanesian phases 15%

Pluton Resources Detailed Drill Log

Hole Number	DR2	Sheet No	3	Mineralisation / Alteration and additional descriptors

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	**Full description:** **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets
326.60	393.70	Cg	IFGRAN	KSP	Chl	Sil								Vn	0.1	P	w/m	Rp	w/m														w	3O-3Gr-CN	Pinkish-orange and dark green K-feldspar altered granite with chloritised ferrromagnesian crystals and zoned (green core and cream rimmed) plagioclase, composition typically 20-35% quartz, 30-35% K-feldspar, 20-25% plagioclase and 15% ferromagnesian minerals, occasional narrow aplite dykes at low angle to LCA, also tan silicate alteration 342m to 344.5, darker green zones have stromger chlorite alteration and medium green plagioclase
393.70	406.55	Cg	IFGRAN	Sil	KSP											P	w																w	W-N-P	Black and white/cream granite with quartz 35%, K-Feldspar 25%, plagioclase 30%, weakly chloritic ferromagnesian phases 20%, weakly K-feldspar altered and possibly weakly silicified
406.55	407.40	Cg	IFGA	KSP												SP	m																w	P-C-W	Pink (k-feldspar) and cream (silicate) dominated granite with considerably less ferromagnesian minerals (3%) almost pegmatitic in part, possibly an aplite before recrystallisation, minor chl veins
407.40	421.50	Cg	IFGRAN	Sil	KSP	Ser										P	w	Rp	vw	Rp	vw												w	3O-3Gr-CN	Granite with apparent K-feldspar alteration, K-feldspar 30%, quartz 30%, plagioclase 20-25%, partially chloritised ferromags 15-20% and occasionally sericiitsed plagioclase
421.50	423.80	Cg	IFGA	KSP												SP	m																w/m	P-C-W	K-Feldspar altered aplite (crystals to 4mm max), K-Feldspar 50-60%, remainder quartz and 2-3% ferromags
423.80	427.60	Cg	IFGRAN	KSP	Sil	Chl										P	w	Rp	w														w	3O-3Gr-W	Granite with apparent K-feldspar alteration, K-feldspar 30%, quartz 30%, plagioclase 20-25%, chloritised ferromags 15-20%
427.60	427.80	Cg	IFGA	KSP												P	m																w	3O-P	K-Feldspar altered aplite (crystals to 4mm max), K-Feldspar 50-60%, remainder quartz and sericitised ferromags/plagioclase
427.80	428.00	Cg	IFGRAN	Ser	KSP	Chl										P	w	Rp	w	Rp	s												w	3O-3Gr-W	Granite with strong sericite alteration near contact with aplite dyke up hole, K-feldspar 30%, quartz 30%, plagioclase 25%, chloritised ferromags 15%
	EOH																																		

Down Hole Structural Log - Pluton Resources								
Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_type	Comments	Azimuth (True)	Dip	Struc_ID
DR2	142.6	35	100	fol	Main foliation in pC schist			
DR2	142.7	32	105	fol	Pyrite in main foliation			
DR2	213.6	25	15	Vn	2-4mm haematie vein, cuts foliation			
DR2	213.7	35	290	fol	1mm haematite veinlet in main foliation			
DR2	213.9	35	290	fol	main foliation (1-4mm microlithons)			
DR2	214.4	7	200	Vn	1-3mm haematite veinlet cutting main foliation			
DR2	214.9	38	290	fol	main foliation (haematitic)			
DR2	215.7	34	289	fol	Pyrite in main foliation			
DR2	220.4	55	305	contact	uphole contact of narrow K-feldspar altered granite dyke			
DR2	220.45	60	295	contact	downhole contact of narrow K-feldspar altered granite dyke			
DR2	220.5	25	110	fol	main foliation			
DR2	220.6	65	280	dyke	3cm K-feldspar rich granitic dyke			
DR2	229	40	100	fol	main foliation in schist			
DR2	242.8	30	150	contact	up hole pegmatite contact with schist			
DR2	243.55	50	180	contact	down hole pegmatite contact with schist, flat lying?			
DR2	244.6	35	140	contact	up hole pegmatite (K-Felds and quartz)contact with schist parallel to foliation			
DR2	244.95	35	142	contact	down hole pegmatite contact with schist, low angle dip?			
DR2	245	35	142	fol	main foliation in schist			
DR2	248	35	50	fol	main foliation in sericitised schist			
DR2	250.2	35	160	fol	pyrite and K-Feldspar in main foliation of schist			
DR2	253.5	60	150	Vn	3mm chlorite vein in granite			
DR2	266.8	20	280	Vn	4cm quartz-haematite vein			
DR2	267.8	20	220	Vn	3mm haeamatite vein in granite			
DR2	260.5	60	125	Vn	carbonate-chlorite vein, possibly pre K-feldspar alteration?			
DR2	268.9	20	240	Vn	chlorite-haematite vein 2mm			
DR2	281.7	65	160	Vn	chlorite vein 3mm			
DR2	335.9	10	80	Fr	sericitic fracture			
DR2	350.4	40	230	Vn	3mm calcite vein in granite			
DR2	368	20		dyke	post granitic K-Feldspar dyke			
DR2	382	5		dyke	post granitic K-Feldspar dyke			
DR2	384.1	35	350	fr	Chlorite coated fracture			
DR2	389.2	30	45	fr	clean fracture			
DR2	389.25	35	285	fr	clean fracture			
DR2	389.35	40	340	Vn	3mm carbonate vein			
DR2	389.45	55	90	Vn	2mm chlorite-carbonate vein			
DR2	392.45	5	35	Vn	1mm chlorite vein			
DR2	398.3	30	295	fr	clean fracture			
DR2	399.3	30	295	fr	clean fracture			
DR2	403.35	30	275	Vn	4mm carbonate vein, chlorite selvedge			
DR2	406.3	30	285	Vn	clean fracture			
DR2	407.1	55	170	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.2	55	170	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.3	60	145	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	407.4	70	145	Vn	2mm chlorite vein, K-feldspar selvedge			
DR2	409.5	45	270	fr	Chlorite coated fracture			
DR2	416.1	32	45	Vn	chlorite veinlet			
DR2	422.75	45	275	fr	clean fracture			
DR2	422.85	50	100	fr	light green fault striae on fracture			
DR2	423	5	350	Vn	chhlorite veinlet			
DR2	427.8	15	130	contact	fine-med grained phase (aplite?) within granite			

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources									
Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR2	0.00	2.00	missing		DR2	120.00	122.00	0.09	0.13
DR2	2.00	3.60	missing		DR2	122.00	124.00	0.03	0.15
DR2	3.60	6.00	4.51	7.15	DR2	124.00	126.00	0.21	0.30
DR2	6.00	8.00	4.81	6.78	DR2	126.00	128.00	Broken Up	Broken Up
DR2	8.00	10.00	4.48	5.76	DR2	128.00	130.00	0.17	0.47
DR2	10.00	12.00	4.53	5.32	DR2	130.00	132.00	0.24	0.60
DR2	12.00	14.00	3.80	5.32	DR2	132.00	134.00	0.27	0.41
DR2	14.00	16.00	5.24	6.08	DR2	134.00	136.00	0.16	0.34
DR2	16.00	18.00	5.03	6.68	DR2	136.00	138.00	0.20	0.55
DR2	18.00	20.00	4.17	5.34	DR2	138.00	140.00	0.18	0.70
DR2	20.00	22.00	3.44	4.77	DR2	140.00	142.00	0.26	0.48
DR2	22.00	24.00	2.83	3.52	DR2	142.00	144.00	0.16	0.35
DR2	24.00	26.00	2.33	3.10	DR2	144.00	146.00	0.15	0.27
DR2	26.00	28.00	2.02	2.83	DR2	146.00	148.00	0.04	0.17
DR2	28.00	30.00	2.09	2.97	DR2	148.00	150.00	0.03	0.11
DR2	30.00	32.00	4.03	4.48	DR2	150.00	152.00	0.20	0.37
DR2	32.00	34.00	4.70	5.61	DR2	152.00	154.00	0.19	0.32
DR2	34.00	36.00	4.44	5.04	DR2	154.00	156.00	0.18	0.31
DR2	36.00	38.00	4.50	5.59	DR2	156.00	158.00	0.08	0.25
DR2	38.00	40.00	4.71	5.44	DR2	158.00	160.00	0.12	0.37
DR2	40.00	41.00	5.46	6.68	DR2	160.00	162.00	0.15	0.44
DR2	42.00	44.00	4.82	5.61	DR2	162.00	164.00	0.18	0.27
DR2	44.00	46.00	5.90	6.18	DR2	164.00	166.00	0.08	0.21
DR2	46.00	48.00	6.08	7.26	DR2	166.00	168.00	0.26	0.53
DR2	48.00	50.00	6.78	9.11	DR2	168.00	170.00	0.12	0.25
DR2	50.00	52.00	5.59	6.53	DR2	170.00	172.00	0.21	0.35
DR2	52.00	54.00	5.14	6.27	DR2	172.00	174.00	0.23	0.38
DR2	54.00	56.00	9.23	12.50	DR2	174.00	176.00	0.17	0.33
DR2	56.00	58.00	14.70	21.20	DR2	176.00	178.00	0.09	0.14
DR2	58.00	60.00	0.16	0.78	DR2	178.00	180.00	0.19	0.29
DR2	60.00	62.00	0.47	0.86	DR2	180.00	182.00	0.34	0.54
DR2	62.00	64.00	0.52	0.67	DR2	182.00	184.00	0.28	0.43
DR2	64.00	66.00	0.42	0.64	DR2	184.00	186.00	0.33	0.39
DR2	66.00	68.00	0.40	0.65	DR2	186.00	188.00	0.24	0.34
DR2	68.00	70.00	0.47	0.98	DR2	188.00	190.00	0.35	0.37
DR2	70.00	72.00	0.99	1.81	DR2	190.00	192.00	0.25	0.31
DR2	72.00	74.00	Broken up	Broken up	DR2	192.00	194.00	0.30	0.67
DR2	74.00	76.00	Broken up	Broken up	DR2	194.00	196.00	0.18	0.29
DR2	76.00	78.00	0.20	0.20	DR2	196.00	198.00	0.17	0.31
DR2	78.00	80.00	Broken up	Broken up	DR2	198.00	200.00	0.20	0.27
DR2	80.00	82.00	0.13	0.16	DR2	200.00	202.00	0.28	0.38
DR2	82.00	84.00	0.14	0.21	DR2	202.00	204.00	0.29	0.44
DR2	84.00	86.00	0.17	0.34	DR2	204.00	206.00	0.20	0.32
DR2	86.00	88.00	0.18	0.37	DR2	206.00	208.00	0.22	0.42
DR2	88.00	90.00	Broken up	Broken up	DR2	208.00	210.00	0.29	0.35
DR2	90.00	92.00	1.79	3.07	DR2	210.00	212.00	0.20	0.30
DR2	92.00	94.00	1.13	1.63	DR2	212.00	214.00	0.26	0.39
DR2	94.00	96.00	1.03	1.93	DR2	214.00	216.00	0.24	0.36
DR2	96.00	98.00	0.96	1.49	DR2	216.00	218.00	0.26	0.51
DR2	98.00	100.00	0.23	0.37	DR2	218.00	220.00	0.26	0.62
DR2	100.00	102.00	0.28	0.53	DR2	220.00	222.00	0.22	0.30
DR2	102.00	104.00	0.28	0.65	DR2	222.00	224.00	0.17	0.29
DR2	104.00	106.00	0.30	0.42	DR2	224.00	226.00	0.16	0.22
DR2	106.00	108.00	Broken up	Broken up	DR2	226.00	228.00	0.22	0.50
DR2	108.00	110.00	0.36	0.64	DR2	228.00	230.00	0.32	0.43
DR2	110.00	112.00	Broken up	Broken up	DR2	230.00	232.00	0.22	0.31
DR2	112.00	114.00	0.15	0.50	DR2	232.00	234.00	0.39	0.51
DR2	114.00	116.00	0.18	0.31	DR2	234.00	236.00	0.49	1.01
DR2	116.00	118.00	0.10	0.14	DR2	236.00	238.00	0.20	0.35
DR2	118.00	120.00	Broken up	Broken up	DR2	238.00	240.00	0.27	0.35

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR2	240.00	242.00	0.29	0.48	DR2	354.00	356.00	4.88	9.40
DR2	242.00	244.00	0.29	0.41	DR2	356.00	358.00	3.77	7.41
DR2	244.00	246.00	0.21	0.62	DR2	358.00	360.00	3.87	8.43
DR2	246.00	248.00	0.21	0.38	DR2	360.00	362.00	1.08	4.20
DR2	248.00	250.00	0.12	0.32	DR2	362.00	364.00	3.60	7.00
DR2	250.00	252.00	0.22	0.35	DR2	364.00	366.00	0.94	5.13
DR2	252.00	254.00	0.13	0.34	DR2	366.00	368.00	1.75	7.92
DR2	254.00	256.00	0.01	0.44	DR2	368.00	370.00	1.04	1.99
DR2	256.00	258.00	0.02	0.32	DR2	370.00	372.00	3.04	8.12
DR2	258.00	260.00	0.18	0.66	DR2	372.00	374.00	2.71	8.61
DR2	260.00	262.00	0.26	0.70	DR2	374.00	376.00	4.73	12.10
DR2	262.00	264.00	0.21	0.42	DR2	376.00	378.00	1.94	5.63
DR2	264.00	266.00	0.30	1.11	DR2	378.00	380.00	3.60	9.84
DR2	266.00	268.00	0.20	0.77	DR2	380.00	382.00	2.94	5.05
DR2	268.00	270.00	0.33	1.13	DR2	382.00	384.00	2.35	5.23
DR2	270.00	272.00	0.23	0.67	DR2	384.00	386.00	4.20	8.93
DR2	272.00	274.00	0.37	0.92	DR2	386.00	388.00	0.41	1.95
DR2	274.00	276.00	2.04	7.57	DR2	388.00	390.00	0.17	0.86
DR2	276.00	278.00	0.54	1.24	DR2	390.00	392.00	0.30	1.66
DR2	278.00	280.00	0.24	1.09	DR2	392.00	394.00	0.56	2.47
DR2	280.00	282.00	0.20	0.42	DR2	394.00	396.00	0.33	0.75
DR2	282.00	284.00	1.28	4.48	DR2	396.00	398.00	0.28	0.84
DR2	284.00	286.00	4.09	8.90	DR2	398.00	400.00	1.11	3.44
DR2	286.00	288.00	4.23	8.06	DR2	400.00	402.00	0.34	0.98
DR2	288.00	290.00	1.18	5.00	DR2	402.00	404.00	1.01	2.12
DR2	290.00	292.00	0.33	0.73	DR2	404.00	406.00	0.35	0.78
DR2	292.00	294.00	0.38	0.98	DR2	406.00	408.00	0.26	1.97
DR2	294.00	296.00	0.55	4.24	DR2	408.00	410.00	0.34	0.75
DR2	296.00	298.00	0.19	1.24	DR2	410.00	412.00	0.21	0.51
DR2	298.00	300.00	0.20	1.00	DR2	412.00	414.00	0.34	2.12
DR2	300.00	302.00	0.48	0.96	DR2	414.00	416.00	0.13	0.97
DR2	302.00	304.00	0.41	0.92	DR2	416.00	418.00	0.24	0.65
DR2	304.00	306.00	0.64	2.06	DR2	418.00	420.00	0.11	0.42
DR2	306.00	308.00	0.59	1.13	DR2	420.00	422.00	0.13	0.49
DR2	308.00	310.00	0.85	1.70	DR2	422.00	424.00	0.03	0.23
DR2	310.00	312.00	0.61	2.04	DR2	424.00	426.00	0.16	0.96
DR2	312.00	314.00	0.56	1.57	DR2	426.00	428.00	0.23	0.80
DR2	314.00	316.00	0.86	2.32			**EOH**		
DR2	316.00	318.00	0.50	1.86					
DR2	318.00	320.00	0.69	1.70					
DR2	320.00	322.00	2.70	6.29					
DR2	322.00	324.00	0.52	1.05					
DR2	324.00	326.00	0.46	1.22					
DR2	326.00	328.00	0.73	1.22					
DR2	328.00	330.00	0.44	1.84					
DR2	330.00	332.00	0.78	2.26					
DR2	332.00	334.00	0.64	1.98					
DR2	334.00	336.00	0.31	1.70					
DR2	336.00	338.00	4.84	10.30					
DR2	338.00	340.00	5.60	12.00					
DR2	340.00	342.00	1.10	5.50					
DR2	342.00	344.00	0.26	0.98					
DR2	344.00	346.00	0.65	4.20					
DR2	346.00	348.00	4.03	10.20					
DR2	348.00	350.00	5.39	10.70					
DR2	350.00	352.00	7.54	15.10					
DR2	352.00	354.00	5.02	7.74					

Pluton Resources Ltd						Down hole whole rock data													
Project	Prospect	Hole_ID	From	To	Spl_Id	Al2O3 (%)	BaO (%)	CaO (%)	Cr2O3 (%)	Fe2O3 (%)	K2O (%)	MgO (%)	MnO (%)	Na2O (%)	P2O5 (%)	SiO2 (%)	SrO (%)	TiO2 (%)	Loi %	Lab Batch
Tas Porphyry	Five Mile Rise	DR2	275	276	152221	13	0.188	0.58	0.001	2.85	6.02	0.99	0.029	1.69	0.037	72.5	0.007	0.23	1.77	BR07104843
Tas Porphyry	Five Mile Rise	DR2	285	286	152222	12.8	0.156	0.98	0.001	3.1	5.32	1.18	0.041	2.14	0.043	72.3	0.012	0.23	1.67	BR07104843
Tas Porphyry	Five Mile Rise	DR2	295	296	152223	12.65	0.17	1.08	0.001	2.52	5.36	0.86	0.023	2.31	0.023	73.3	0.016	0.2	1.48	BR07104843
Tas Porphyry	Five Mile Rise	DR2	305	306	152224	12.95	0.133	1.6	0.001	1.43	3.09	0.93	0.032	3.64	0.038	74.3	0.022	0.19	1.57	BR07104843
Tas Porphyry	Five Mile Rise	DR2	315	316	152225	13	0.175	1.63	0.001	2.69	4.98	1.08	0.03	2.38	0.042	71.9	0.016	0.26	1.73	BR07104843
Tas Porphyry	Five Mile Rise	DR2	325	326	152226	12.6	0.112	0.56	0.001	4.19	5.1	1.06	0.153	0.133	0.024	72.4	0.001	0.2	2.7	BR07104843
Tas Porphyry	Five Mile Rise	DR2	335	336	152227	12.9	0.172	1.84	0.001	2.59	4.35	0.99	0.04	2.72	0.036	72.3	0.018	0.25	1.8	BR07104843
Tas Porphyry	Five Mile Rise	DR2	345	346	152228	12.95	0.142	0.94	0.001	3.34	5.21	1.12	0.033	2.21	0.033	72.2	0.008	0.22	1.54	BR07104843
Tas Porphyry	Five Mile Rise	DR2	355	356	152229	12.75	0.127	1.6	0.001	2.68	4.97	0.98	0.03	2.47	0.037	72.9	0.02	0.22	1.22	BR07104843
Tas Porphyry	Five Mile Rise	DR2	365	366	152230	13.05	0.086	1.62	0.001	2.62	4.14	1.09	0.01	2.76	0.027	72.9	0.009	0.21	1.31	BR07104843
Tas Porphyry	Five Mile Rise	DR2	375	376	152231	12.85	0.12	1.46	0.001	2.4	4.98	0.93	0.051	2.7	0.036	72.6	0.018	0.25	1.55	BR07104843
Tas Porphyry	Five Mile Rise	DR2	385	386	152232	12.8	0.112	1.28	0.001	2.79	4.83	1.14	0.059	2.65	0.033	72.5	0.013	0.23	1.54	BR07104843
Tas Porphyry	Five Mile Rise	DR2	395	396	152233	13	0.13	1.68	0.001	2.67	5.06	1	0.043	2.61	0.037	72.2	0.021	0.26	1.21	BR07104843
Tas Porphyry	Five Mile Rise	DR2	405	406	152234	12.85	0.13	2.05	0.001	2.45	4.76	0.87	0.052	2.72	0.038	72.7	0.022	0.26	1.11	BR07104843
Tas Porphyry	Five Mile Rise	DR2	415	416	152235	13	0.106	1.26	0.001	2.41	5.07	0.95	0.034	2.59	0.033	72.9	0.014	0.22	1.38	BR07104843
Tas Porphyry	Five Mile Rise	DR2	425	426	152236	12.8	0.102	1.36	0.001	2.5	5.26	1.12	0.059	2.36	0.032	72.2	0.008	0.22	1.94	BR07104843

Pluton Resources Ltd						Down hole rare earth assay data																
Project	Prospect	Hole_ID	From	To	Spl_Id	Ce (ppm)	Dy (ppm)	Er (ppm)	Eu (ppm)	Gd (ppm)	Ho (ppm)	La (ppm)	Lu (ppm)	Nd (ppm)	Pr (ppm)	Sm (ppm)	Tb (ppm)	Th (ppm)	Tm (ppm)	U (ppm)	Y (ppm)	Yb (ppm)	Lab Batch
Tas Porphyry	Five Mile Rise	DR2	275	276	152221	84.8	4.1	2.5	1.1	5.0	0.8	42.3	0.4	30.3	8.2	5.6	0.8	24.0	0.4	4.6	25.1	2.8	BR07104843
Tas Porphyry	Five Mile Rise	DR2	285	286	152222	118.0	5.1	2.9	1.3	6.7	1.0	59.3	0.5	41.2	11.1	7.6	1.0	25.0	0.4	5.6	30.2	3.3	BR07104843
Tas Porphyry	Five Mile Rise	DR2	295	296	152223	160.5	6.0	3.4	1.5	8.1	1.2	81.3	0.5	54.3	14.9	9.5	1.2	37.0	0.5	7.4	37.0	3.5	BR07104843
Tas Porphyry	Five Mile Rise	DR2	305	306	152224	98.3	6.1	3.6	1.3	6.9	1.2	49.2	0.5	37.5	9.7	7.5	1.2	27.0	0.5	11.4	38.9	3.8	BR07104843
Tas Porphyry	Five Mile Rise	DR2	315	316	152225	143.0	5.4	3.4	1.4	7.0	1.1	75.3	0.5	48.8	13.3	8.2	1.1	29.0	0.5	8.0	35.7	3.7	BR07104843
Tas Porphyry	Five Mile Rise	DR2	325	326	152226	179.0	5.0	2.9	1.5	7.9	1.0	98.6	0.4	65.7	18.1	10.4	1.1	29.0	0.4	12.2	31.0	3.1	BR07104843
Tas Porphyry	Five Mile Rise	DR2	335	336	152227	145.5	5.2	3.0	1.4	7.2	1.0	74.4	0.4	49.4	13.4	8.4	1.0	29.0	0.4	9.3	32.6	3.1	BR07104843
Tas Porphyry	Five Mile Rise	DR2	345	346	152228	99.2	4.6	2.9	1.2	5.7	0.9	49.1	0.5	35.0	9.4	6.3	0.9	28.0	0.4	7.9	29.3	3.1	BR07104843
Tas Porphyry	Five Mile Rise	DR2	355	356	152229	121.5	6.8	4.0	1.3	7.7	1.4	59.5	0.6	44.5	11.7	8.5	1.3	29.0	0.6	7.8	43.7	4.4	BR07104843
Tas Porphyry	Five Mile Rise	DR2	365	366	152230	93.1	4.6	2.8	1.2	5.7	0.9	46.6	0.5	33.2	8.9	6.2	0.9	27.0	0.4	9.2	30.0	3.1	BR07104843
Tas Porphyry	Five Mile Rise	DR2	375	376	152231	116.0	5.8	3.5	1.3	7.0	1.2	57.4	0.5	42.0	11.1	7.6	1.1	30.0	0.5	8.1	37.4	3.8	BR07104843
Tas Porphyry	Five Mile Rise	DR2	385	386	152232	125.5	5.8	3.5	1.3	7.1	1.2	62.9	0.6	44.2	11.8	8.2	1.1	29.0	0.5	6.3	38.1	4.0	BR07104843
Tas Porphyry	Five Mile Rise	DR2	395	396	152233	135.0	6.1	3.6	1.3	7.6	1.2	66.5	0.5	47.9	12.7	8.8	1.2	29.0	0.5	5.7	39.6	3.8	BR07104843
Tas Porphyry	Five Mile Rise	DR2	405	406	152234	139.5	7.4	4.4	1.5	8.8	1.5	69.0	0.6	51.0	13.3	9.8	1.4	32.0	0.7	6.6	47.0	4.6	BR07104843
Tas Porphyry	Five Mile Rise	DR2	415	416	152235	130.0	5.7	3.4	1.3	7.4	1.2	64.9	0.6	46.4	12.5	8.4	1.1	30.0	0.5	8.9	37.8	4.0	BR07104843
Tas Porphyry	Five Mile Rise	DR2	425	426	152236	122.5	5.8	3.5	1.2	7.1	1.2	61.5	0.6	43.2	11.7	8.0	1.1	29.0	0.5	7.8	36.2	4.1	BR07104843

Project	Tas Porphyry	Prospect		Powerful	Hole_ID	DR2
Pluton Resources - Sampling Notes						
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay		
152101		85	86	Gold, Base Metals, Other		
152102		86	87	Gold, Base Metals, Other		
152103		87	88	Gold, Base Metals, Other		
152104		88	89	Gold, Base Metals, Other		
152105		89	90	Gold, Base Metals, Other		
152106		90	91	Gold, Base Metals, Other		
152107		91	92	Gold, Base Metals, Other		
152108		92	93	Gold, Base Metals, Other		
152109		93	94	Gold, Base Metals, Other		
152110		94	95	Gold, Base Metals, Other		
152111		95	96	Gold, Base Metals, Other		
152112		96	97	Gold, Base Metals, Other		
152113		97	98	Gold, Base Metals, Other		
152114		98	99	Gold, Base Metals, Other		
152115		99	100	Gold, Base Metals, Other		
152116		100	101	Gold, Base Metals, Other		
152117		101	102	Gold, Base Metals, Other		
152118		102	103	Gold, Base Metals, Other		
152119		103	104	Gold, Base Metals, Other		
152120		104	105	Gold, Base Metals, Other		
152121		105	106	Gold, Base Metals, Other		
152122		106	107	Gold, Base Metals, Other		
152123		107	108	Gold, Base Metals, Other		
152124		108	109	Gold, Base Metals, Other		
152125		109	110	Gold, Base Metals, Other		
152126	2m samples	110	112	Gold, Base Metals, Other		
152127		112	114	Gold, Base Metals, Other		
152128		114	116	Gold, Base Metals, Other		
152129		116	118	Gold, Base Metals, Other		
152130		118	120	Gold, Base Metals, Other		
152131		120	122	Gold, Base Metals, Other		
152132		122	124	Gold, Base Metals, Other		
152133		124	126	Gold, Base Metals, Other		
152134		126	128	Gold, Base Metals, Other		
152135		128	130	Gold, Base Metals, Other		
152136		130	132	Gold, Base Metals, Other		
152137		132	134	Gold, Base Metals, Other		
152138		134	136	Gold, Base Metals, Other		
152139		136	138	Gold, Base Metals, Other		
152140		138	140	Gold, Base Metals, Other		
152141		140	142	Gold, Base Metals, Other		
152142		142	144	Gold, Base Metals, Other		
152143		144	146	Gold, Base Metals, Other		
152144		146	148	Gold, Base Metals, Other		
152145		148	150	Gold, Base Metals, Other		
152146		150	152	Gold, Base Metals, Other		
152147		152	154	Gold, Base Metals, Other		
152148		154	156	Gold, Base Metals, Other		
152149		156	158	Gold, Base Metals, Other		
152150		158	160	Gold, Base Metals, Other		
152151		160	162	Gold, Base Metals, Other		
152152		162	164	Gold, Base Metals, Other		
152153		164	166	Gold, Base Metals, Other		
152154		166	168	Gold, Base Metals, Other		
152155		168	170	Gold, Base Metals, Other		

152156		170	172	Gold, Base Metals, Other
152157		172	174	Gold, Base Metals, Other
152158		174	176	Gold, Base Metals, Other
152159		176	178	Gold, Base Metals, Other
152160	1m samples	178	179	Gold, Base Metals, Other
152161		179	180	Gold, Base Metals, Other
152162		180	181	Gold, Base Metals, Other
152163		181	182	Gold, Base Metals, Other
152164		182	183	Gold, Base Metals, Other
152165		183	184	Gold, Base Metals, Other
152166	2m samples	184	186	Gold, Base Metals, Other
152167		186	188	Gold, Base Metals, Other
152168		188	190	Gold, Base Metals, Other
152169		190	192	Gold, Base Metals, Other
152170		192	194	Gold, Base Metals, Other
152171		194	196	Gold, Base Metals, Other
152172		196	198	Gold, Base Metals, Other
152173		198	200	Gold, Base Metals, Other
152174		200	202	Gold, Base Metals, Other
152175		202	204	Gold, Base Metals, Other
152176		204	206	Gold, Base Metals, Other
152177		206	208	Gold, Base Metals, Other
152178		208	210	Gold, Base Metals, Other
152179		210	212	Gold, Base Metals, Other
152180		212	214	Gold, Base Metals, Other
152181		214	216	Gold, Base Metals, Other
152182		216	218	Gold, Base Metals, Other
152183		218	220	Gold, Base Metals, Other
152184		220	222	Gold, Base Metals, Other
152185		222	224	Gold, Base Metals, Other
152186		224	226	Gold, Base Metals, Other
152187		226	228	Gold, Base Metals, Other
152188		228	230	Gold, Base Metals, Other
152189		230	232	Gold, Base Metals, Other
152190		232	234	Gold, Base Metals, Other
152191		234	236	Gold, Base Metals, Other
152192		236	238	Gold, Base Metals, Other
152193		238	240	Gold, Base Metals, Other
152194		240	242	Gold, Base Metals, Other
152195		242	244	Gold, Base Metals, Other
152196		244	246	Gold, Base Metals, Other
152197		246	248	Gold, Base Metals, Other
152198		248	250	Gold, Base Metals, Other
152199		250	252	Gold, Base Metals, Other
152200		252	254	Gold, Base Metals, Other
152201		254	256	Gold, Base Metals, Other
152202		256	257	Gold, Base Metals, Other
152203		257	258	Gold, Base Metals, Other
152204		258	259	Gold, Base Metals, Other
152205		259	260	Gold, Base Metals, Other
152206		260	261	Gold, Base Metals, Other
152207		261	262	Gold, Base Metals, Other
152208		262	263	Gold, Base Metals, Other
152209		263	264	Gold, Base Metals, Other
152210		264	265	Gold, Base Metals, Other
152211		265	266	Gold, Base Metals, Other
152212		266	267	Gold, Base Metals, Other
152213		267	268	Gold, Base Metals, Other

152214		268	269	Gold, Base Metals, Other
152215		269	270	Gold, Base Metals, Other
152216		270	271	Gold, Base Metals, Other
152217		271	272	Gold, Base Metals, Other
152218		272	273	Gold, Base Metals, Other
152219		273	274	Gold, Base Metals, Other
152220		274	275	Gold, Base Metals, Other
152221		275	276	Gold, Base Metals, Other, Whole Rock, Rare Earths
152222		285	286	Gold, Base Metals, Other, Whole Rock, Rare Earths
152223		295	296	Gold, Base Metals, Other, Whole Rock, Rare Earths
152224		305	306	Gold, Base Metals, Other, Whole Rock, Rare Earths
152225		315	316	Gold, Base Metals, Other, Whole Rock, Rare Earths
152226		325	326	Gold, Base Metals, Other, Whole Rock, Rare Earths
152227		335	336	Gold, Base Metals, Other, Whole Rock, Rare Earths
152228		345	346	Gold, Base Metals, Other, Whole Rock, Rare Earths
152229		355	356	Gold, Base Metals, Other, Whole Rock, Rare Earths
152230		365	366	Gold, Base Metals, Other, Whole Rock, Rare Earths
152231		375	376	Gold, Base Metals, Other, Whole Rock, Rare Earths
152232		385	386	Gold, Base Metals, Other, Whole Rock, Rare Earths
152233		395	396	Gold, Base Metals, Other, Whole Rock, Rare Earths
152234		405	406	Gold, Base Metals, Other, Whole Rock, Rare Earths
152235		415	416	Gold, Base Metals, Other, Whole Rock, Rare Earths
152236		425	426	Gold, Base Metals, Other, Whole Rock, Rare Earths

Summary Drill Log and Header — Pluton Resources Ltd.

PROJECT:	Tas Porphyry		**HOLE NO:**	**DR3**	**DRILL TYPE:**	Diamond	
PROSPECT:	Powerful		DATE COMMENCED:	**18/06/2007**	**DRILLER:**	Almac Drilling	
EL:	14/2006		DATE COMPLETED:	**6/07/2007**	LOGGED BY:	John McD	
EASTING	426980	+-50m	**TOTAL DEPTH (m):**	**411.7**	DATE:	2/10/2007	
NORTHING	5397480	AGD66	**AZIMUTH:**	**50**	OXIDATION	BOPO:	34.6
COLLAR RL:	260	25k map	**DIP:**	**-60**		BOCO:	6.8

Drilling details

Core Size	From	To
PQ		
HQ	0.00	34.00
NQ	34.00	411.70
BQ		

Comments

Hole designed to:- Test the (largely inferred) NW trending hematite mineralisation in the Powerful prospect by targeting the lode from further south on the south Lorinna Road and to test anomalism recorded across all 5 EM bands as well as in K-band radiometric data adjacent to the magnetic bullseye anomaly.

Significant Intervals:

Hole_ID	From	To	Interval
DR3			no assay results received yet

Summary Log

From	To	Graphic	Summary Description (Lith, Altn, Mineralisation)
0.00	29.30	Cg	Partially weathered biotite granite with weak-moderate K-feldspar alteration and replaced plagioclase and ferromagnesian phases
29.30	31.40	QVn	Quartz>Hematite>Pyrite vein
31.40	98.80	Cg	Orange K-Feldspar altered coarse grained equigranular biotite granite with ~30% large anhedral quartz grains
98.80	104.20	Cg	Hematite and magnetite veined biotite granite with strong K-feldspar alteration
104.20	209.00	Cg	K-feldsapr and silica altered xenolithic hornblende 'granodiorite' with <5% quartz, dissem pyrite typically 0.5%, variable magnetite
209.00	411.70	Cg	Weakly-modereately potassically (K-feldspar) and propylitically (epidote, carbonate, chlorite) altered, commonly xenolithic hornblende 'granodiorite'

Down Hole Surveys - Pluton Resources									
Hole_ID	Depth	Azimuth	Dip	ID	Mag_azm	Type	Verified	Comment	Date
DR3	0	50	-60		36		N	Check Az	18/06/2007
DR3	50	51	-60.5		37		Y		19/06/2007
DR3	100	51.5	-60.5		37.5		Y		20/06/2007
DR3	150	51	-60		37		Y		
DR3	200	53	-60		39		Y	Az inferred	
DR3	250	55	-59.75		41		Y		25/06/2007
DR3	300	59	-59.25		45		Y		26/06/2007
DR3	350	59	-59.5		45		Y	Az inferred	
DR3	400	61	-60		47		N	No disc available	2/07/2007

Pluton Resources Detailed Drill Log

Hole Number	DR3	Sheet No	1

Mineralisation / Alteration and additional descriptors

INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour							
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour
0.00	27.70	Cg	IFGRAN		KSP	Chl	W									P	vw	Rp	vw								Li	Vn	0.2				m	2O-C
27.70	29.30	Cg	IFGRAN	KSP	Chl		T									P	m	Rp	w														m	2O-2Gr
29.30	31.40	Cg	OVEIN	QVN			T	Vn	0.5			Vn	5													s							m	W
31.40	98.80	Cg	IFGRAN	KSP	Chl									D	0.1	P	m	Rp	w/m														w/m	3O-C-2Gr
98.80	104.20	Cg	IFGRAN	KSP	Hem	Chl						Vn	3	Vn	2	P	m	Rp	m			Vn	m			vw							m	3O>4Gr
104.20	132.20	Cg	IFGRAD	Chl	KSP	Ser		D	0.5					D	0.5	P	w/m	Rp	m	Rp	w												w/m	1/2A-1P
132.20	133.50	Cg	OVEIN	Hem	QVN			Vn	2			Vn	30	Vn	3											s							w/m	W-R
133.50	194.00	Cg	IFGRAD	KSP	Chl	Sil		D	0.2	Vn	0.01	Vn	0.1	D	0.5	P	w/m	Rp	w/m								Cb	Vn	0.1				w/m	3/4A>2P
194.00	195.35	Cg	IFGRAD	SQV	Chl	KSP		Vn	7			Vn	2	Vn	3	P	w/m	Sv	m/s							m							w/m	4Gr-W
195.35	200.75	Cg	IFGRAD	KSP	Sil	Chl		Vn	0.1							SP	s	Rp	m/s														w/m	3O-1Br
200.75	200.95	Cg	OVEIN	SQV	KSP			Vn	10									Vn	w							s							w	3Br/O-1A
200.95	205.80	Cg	IFGRAD	KSP	Sil	Chl		D	0.1							SP	m																w/m	2A-3O/P
205.80	209.00	Cg	IFGRAD	Sil				D	0.2																								w	1Gr-W-4A
209.00	241.80	Cg	IFGRAD	KSP	Prop	Cb		Vn	0.5					D	2	P	w/m	P	w/m							vw	Cb	Vn	2	Ep	Vn	1	w	4Gr-3P
241.80	256.80	Cg	IFGRAD	Chl	KSP			D	0.1					Vn	1	P	vw	Rp	w								Cb	Vn	0.2	Ep	Vn	0.1	w	C-2Gr-2P
256.80	259.00	Cg	IFGRAD		Prop			D	0.05																		Ep	Vn	0.2					1P-W-N
259.00	275.50	Cg	IFGRAD		Prop			D	0.1																		Ep	Vn	0.5					1P-W-N
275.50	280.75	Cg	IFGRAD	KSP	Prop			D	0.05							Sp	w										Ep	Vn	0.5	Cb	Vn	0.02		3A-2P

Full description: **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets

Full description
Light orange and cream mottled med-coarse granite, partly friable and moderately broken, quartz 20%, K-feldspar 40%, plagioclase 30% and 10% ferromagnesian minerals (dominantly biotite, possible hornblende) plagioclase crystals are zoned with a soft green core (probable sericite) and a soft cream rim, quartz slightly larger crystals to 8mm, plagioclase typically 2-5mm, biotite typically 3-4mm and partially chloritised, goethite and limonite on fractures probably after haematite veinlets.
Light orange and green med-coarse granite, moderately broken, quartz 20%, K-feldspar masked by K-fledspar alteration, plagioclase 30% and partially altered to K-Feldspar and 10% chloritised ferromagnesian minerals
Milky quartz vein with 5% haematite and 0.5% pyrite, haematite possibly late brecciating the quartz, rare open cavities containing crystalline quartz
Orange green and cream mottled med-coarse granite, 30% large anhedral quartz to 1.5cm, 10-15% biotite (commonly chloritised), 20-25% cream and light green plagioclase, 30-40% orange K-feldspar, probably some primary interstitial with alteration clots to 2cm and pervasive alteration, magnetite rich hydrothermal breccia 83.7-83.9 minor veining including qtz-chl-cb, qtz-py-hem, chlorite alteration generally only replacing biotite and occasionally as veins
Bright orange and minor green mottled coarse granite, massive magnetite-haematite veins to 3cm, quartz (20-25%) to 12mm, K-feldspar not differeniatable due to pervasive K-Feldspar alteration, plagioclase replaced by K-Feldspar, ferromagnesian phases chloritised, nearly pegmatitic at down hole contact
Light grey and pink darkening down hole to dark grey-green and med pink medium grained granodiorite with 20-35% hornblende>>biotite, 30% light green plagioclase (often zoned), K-feldpar 20-30% typically as interstitial filling, minor quartz <5%, disseminated pyrite 0.5% , banded K-feldsapar alteration and strongly xenolithic (intermediate to mafic xenoliths) near start of interval, more sparsely xenolithic down hole, alteration suggests previous unit is younger and intrudes this older unit
White quartz vein impregnated with 20% haematite and minor pyrite, strong heamatite alteration halo
Medium to dark grey and lesser light-medium pink granodiorite, 25-30% plagioclase crystals occasionally chloritised in strong K-Feldspar altered zones, <5% quartz, K-Feldspar 25-30% as ammorphous interstitial non crystalline phase, crystalline hornblende and fine ferromagnesian interstitial material (commonly chloitised) ~40%, pervasive (w-m) potassic alteration and chlorite replacing ferromagnesian phases and occasionally plagioclase, occasional narrow bands of pervasive silica, weakly xenolithic, trace disseminated pyrite and sparse pyrite and carbonate veins to 3mm, interstitial ferromagnesian phase may be biotitic potassic alteration
Quartz-pyrite-magnetite-haematite veins with strong chloritic selvedges and potassic haloes, pyrite generally clotted, haematite and magnetite typically massive and in selvedges
Tan pervasive strongly silica altered and pinkish-orange semi-pervasively potassically altered granodiorite, chloritised plagioclase (40%) near start of interval, primary crystalline texture wiped out in strong silica and K-feldspar alteration zones
Quartz-pyrite-K-feldspar-chlorite vein, pyrite generally clotted
Light grey/green pervasive moderately-strongly silica altered and pinkish-orange semi-pervasively potassically altered granodiorite, chloritised plagioclase (40%) near start of interval, med grained crystalline texture preserved in alteration zones, one 4cm qtz-py-Kf-chl vein as in previous interval
Pale green silica altered black and white medium grained granodiorite, comprised dominantly of plagioclase (40%) and ferromagnesian minerals (40%) which are partially chloritised, ~10% quartz and possible light grey silica replacement of K-feldspar component.
Dark green-medium pink hornblende rich (15-25%), quartz poor(~5%) medium grained equigranular granodiorite, weakly to moderately xenolithic (plag phyric andesite?), chlorite altered plagioclase, plag to 50%, rarely sericite altered, pervasive bands of K-feldspar, rare quartz-chlorite-pyrite veins to 2cm, pinkish cb>chl-py veins up to 8cm but typically <1cm approx 4/m, epidote veinlets to 3/m in the upper part of the interval with magnetite veins to 0.5-4cm more common lower in the interval, disseminated magnetite common throughout the interval but strongest in the end of interval
Pale-dark green and cream and med-light pink hornblende rich (15-25%), plagioclase rich (40%), quartz poor(~5%) medium grained equigranular granodiorite, weakly xenolithic, chlorite altered plagioclase?, pervasive weak K-feldspar, weak carbonate, chlorite and epidote viens, one 3cm K-feldspar altered dyke at 245.5m
Pale pink, green, white and black hornblende rich (25-30%) plagioclase rich (40-45%), K-Feldspar (20%) and quartz <10% granodiorite, with multiple small (<10cm) dykes of more felsic composition (light grey and trpically 30% quartz and <10% mafics partitioned into selvedges, xenolithic (cut by dykes), trace disseminated pyrite
"Black and white" pale green and pale pink plagioclase rich(40%) hornblende rich (30-35%), trace K-Feldspar and <15% quartz, waekly to strongly xenolithic with typical plagioclase phyric/microporphyritic light-med grey andesite? xenoliths and more mafic dark grey 60% amphibole xenoliths, weak epidote veining, trace-1% disseminated pyrite
Medium grey altered "black and white" plagioclase/hornblende rich granodiorite with darker alteration, weak potassic bands, some probable chloritic alteration of plagioclase in darkest areas, epidote veins with potassic haloes, trace quartz veins and carbonate veinlets, weakly xenolithic, trace disseminated pyrite

Pluton Resources Detailed Drill Log																																			
Hole Number		DR3	Sheet No	2	Mineralisation / Alteration and additional descriptors																														**Full description:** **including colour, main alteration** type and strength, **component minerals** (pref in order of abundance), **rock type, texture, alteration and mineralisation details** eg: pale green phyllic (moderate) quartz-feldspar phyric dacite porphyry, phenocrysts to 4mm, sericite (m) altered phenocrysts, silica (w) altered groundmass, pyrite(3-5%) as disseminations and minor veinlets
INTERVAL		ROCK CODES		Alteration summary				Pyrite		Chalco		Haem		Magnet		Potassic K-feldspar		Chloritic		Sericitic		Haematitic		T'maline		QVN	Other minerals / texture / colour								
FROM (m)	TO (m)	Strat Code	Rock type	Primary Altn	2nd Altn	3rd Altn	Weathering	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount %	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Style	Amount (WMS)	Amount (WMS)	Mineral 1	Style	Amount %	Mineral 2	Style	Amount %	Broken (WMS)	Colour	
280.75	311.00	Cg	IFGRAD	KSP	Prop			D	0.5					D	0.5	P	w	Rp	w								Ep	Vn	1				w	C-N-W	Light pink, pale green and dark grey "black and white" hornblende rich (30-35%) plagioclase rich (40%) granodiorite, 10% quartz, 15% K-feldspar, trace biotite, equigranular, occasional epidote and K-feldspar bands and veins, weakly to moderately xenolithic (dark grey xenoliths of microporphyritic volcanics/diorite?)
311.00	312.50	Cg	IFGRAD	Sil	Chl													Rp	vw														w/m	3A-4A>2P	Dark grey and pink moderately-strongly silica altered granodiorite with only silica and a ferromagnesian phase differantiable and K-feldspar replaced plagioclase approaching downhole alteration zone
312.50	314.80	Cg	IFGRAD	KSP	Chl	Ser										P	m/s	Rp	m/s	Rp	m					m	Cb	Vn	4				m/s	3P/O-2Y/Gr-4Gr	Medium pink/orange with black fleck and white and light yellow veins with dark green (chloritic) selvedges, strongly altered and fractured (faulted?) granodiorite, quartz-carbonate veins and sericitic pug, K-feldspar and chlorite replacing all other minerals in cohernt core, fractured core dominated by veins
314.80	316.10	Cg	IFGRAD	Ser	Chl	KSP		D	0.5							Rp	vw	Rp	w/m	Rp	w/m												w	2P-4A-1Gr/C	Light pink, pale green and dark grey hornblende rich (30-35%) plagioclase rich (40%) granodiorite, 10% quartz, 15% K-feldspar, equigranular, common replacement of plagioclase by sericite and hornblende by chlorite, weakly to moderately xenolithic, 0.5% disseminated pyrite
316.10	328.20	Cg	IFGRAD																														w	1Gr-4A	Pale green to white and dark grey to black granodiorite with 40% hornblende, 40% plagioclase, 15-20% quartz, weakly-moderately xenolithic with dominantly andesite/diorite microporphyry and rare elongate xenoliths of possible precambrian origin, 0.5% disseminated pyrite, largely unaltered but possible biotisation of some hornblendes
328.20	330.10	Cg	IFGRAD	Sil																						w							w	1Gr-W	Pale green to white strongly silica altered granodiorite, possible albite of sodic alteration with distinct blotch cream and pale-light green alteration minerals
333.10	359.15	Cg	IFGRAD	KSP	Prop			D	0.5							Rp	w										Ep	Vn	1				w	4A-C-2P	Cream and dark grey and subordinate pink granodiorite, 30% hornblende, 30% plagioglase, 15% K-feldspar and 10% quartz, typical "black and white equigranular phase with weak epidote and K-feldspar veinlets, probable weak potassic alteration presuimably replacing plagioclase
359.15	374.00	Cg	IFGRAD	KSP	Prop	Cb		Vn	1							Bnd	w	Vn	w								Cb	Vn	2	Ga	Vn	0.01	w/m	4A>2P	Dark grey and pink granodiorite, weak K-feldspar and sericite replacing plagioclase, chlorite commonly replacing hornblende and calcite veining common with chloritic alteration haloes, some pyrite and galena and sphalerite in one vein, weak epidote veining (veinlets), weakly to moderately xenolithic, typically plagioclase and hornblende rich as with previous intervals and up to 15% quartz
374.00	379.00	Cg	IFGRAD	KSP				D	0.2							Bnd	w																w	4A-C>2P	Cream-grey and lesser pink granodiorite, plagioclase 30-40%, hornblende 25-30%, quartz 15% and K-feldspar probably 10% as intrstitial alteration, very weak pervasive and banded K-feldspar, sparse cabonate veins, moderately xenolithic
379.00	389.00	Cg	IFGRAD	Cb	Prop	KSP		Vn	0.5							Rp	w/m	Rp	m								Cb	Vn	1.5				m/s	3Gr>3P/O	Dark green altered equigranular granodiorite with silica-chlorite, weak K-feldspar alteration and carbonate veining, srtongly fractured particularly near veins, minor pyrite in chloritic halos/selvedges
389.00	411.70	Cg	IFGRAD	KSP	Prop	Ser		D	0.5							P	m	SP	w								Cb	Vn	0.5	Ep	Vn	0.2		2P>4Gr	Medium pink/orange and dark green flecked medium grained equigranular granodiorite, plagioclase 30% but originally higher as replaced by K-Feldspar commonly and occasionally sericite, 25% hornblende, 20% quartz and moderate K-feldspar alteration, occasional darker chloritic zones, 1% carbonate veins and epidote veins, disseminated pyrite 0.5-1%, chalcopyrite coated on one 2mm silica vein, sphalerite and galena in one 4cm carbonate vein
	EOH																																		

Down Hole Structural Log - Pluton Resources								
Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_type	Comments	Azimuth (True)	Dip	Struc_ID
DR3	51.6	35	350	Vn	quartz-chlorite-cb vein in mag destructive zone of chl altn			
DR3	40	25		dyke	k-feldspar fine grained 4cm dyke			
DR3	44	20		Vn	cb-chl-py			
DR3	104.2	50	140	contact	irregular granite contact - best estimate of contact surface (indistinct)			
DR3	113.6	40	350	dyke	k-feldspar fine grained 4cm dyke			
DR3	120	50	335	Vn	1cm cb vein			
DR3	133.5	45	10	Vn	1cm chl-cb-py vein selvedge on major quartz vein with haematite alteration halo			
DR3	142	30	0	Vn	chl-py vein associated with chl-ksp banding			
DR3	172	45	330	Vn	3mm cb vein			
DR3	182.5	25	320	Vn	1cm cb-py-chl vn			
DR3	189	40	335	Vn	1cm py-qtz-ksp vein with chl-cb selvedge			
DR3	191	30	190	Vn	Probable epidote veinlet and k-feldspar alteration banding			
DR3	200.6	47	15	Vn	pyrite- ksp-chl-qtz-cb? Vein			
DR3	211.5	65	55	Vn	epidote-py veinlet 2mm			
DR3	214.9	22	280	Vn	0.5cm cb>chl>py vein, chlorite and pyrite in selvedge			
DR3	214.1	55	55	Vn	1cm qtz>>chl>py vein			
DR3	213.9	45	80	Vn	1cm qtz-carbonate-chlorite-K feldspar>pyrite vein			
DR3	217.8	45	190	Vn	3mm cb vein (one of 4 in same orientation)			
DR3	226.4	25	295	Vn	0.5cm cb>>chl vein			
DR3	226.25	25	350	Vn	0.5cm cb>chl-hem-py>>cpy vein			
DR3	226.05	45	355	Vn	1cm magnetite-carbonate-chlorite-pyrite (pyritohedrons to 8mm) vein			
DR3	228.2	55	100	Vn	3mm carbonate vein with chlorite and disseminated pyrite in selvedges			
DR3	229.4	25	350	Vn	12cm (true width) pinkish carbonate with chlorite selvedges containing disseminated pyrite			
DR3	229.55	35	315	Vn	2mm cb vein made of 2 bands separated by chlorite with chlorite selvedges and clots of pyrite			
DR3	229.9	30	350	Vn	weakly banded carbonate-chlorite vein with clots of quartz and clots of pyrite			
DR3	230	30	330	Vn	banded cb>chl vein with lesser quarz growing perpundicular to the vein as clots and dissminated pyrite			
DR3	233	40	325	Vn	carbonate-chlorite vein with dissem/clots of pyrite			
DR3	240.4	30	335	Vn	magnetite vein swarm with minor dissem pyrite			
DR3	240.35	20	335	Vn	carbonate-chlorite vein with dissem/clots of pyrite			

Hole_ID	At	Alpha angle (deg from LCA)	Beta angle (deg from BDC)	Structure_type	Comments	Azimuth (True)	Dip	Struc_ID
DR3	240.9	45	350	Vn	2mm magnetite vein with very fine epidote selvedge/halo			
DR3	245.45	42	340	dyke	Potassically altered 3cm aplite dyke (20% qtx, 30% mafics, 50% K feldspar			
DR3	256.8	40	5	dyke	10cm leucocratic dyke, probably silica rich with <10% mafics			
DR3	257.1	50	345	dyke	2cm cream-milky quartz-plagioclase vein dyke			
DR3	257.5	50	350	dyke	6cm grey and white quartz-plagioclase porphyritic dyke wit <10% mafics, probably silica rich			
DR3	258.9	50	350	dyke	2cm cream-milky quartz-plagioclase vein dyke			
DR3	259	50	0	dyke	porphyritic greya nd white plagioclase phyric fine grained dyke, 15% mafics with more mafic contacts			
DR3	266.3	50	340	Vn	epidote - pyrite vein with 2cm alteration halo			
DR3	274.8	50	345	Vn	1-2mm epidote vein with 1cm alteration halo			
DR3	275.8	40	310	Vn	1cm quartz vein with chlorite alteration icm either side			
DR3	276	30	305	Vn	2cm quartz-chlorite-pyrite vein			
DR3	317.8	40	340	Vn	1mm epidite vein with k-feldspar halo			
DR3	381.4	35	90	Vn	imm epidote vein			
DR3	366.1	40	310	Vn	3cm carbonate>spahelrite and galena vein			
DR3	379.3	30	22	Vn	1.5 cm light pink-milky white carbonate vein			
DR3	408.35	45	190	Vn	3.5mm slica-epidote vein, fairly flat lying			
DR3	408.7	40	215	Vn	3mm grey silica vein with carbonate spotting and epidote in selvedges, fairly flat lying			
DR3	408.8	50	165	Vn	3mm carbonate vein with epidite selvedges			

Magnetic Susceptibility Log (all figures x 10-3 SI units) - Pluton Resources									
Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR3	0.00	20.00	too rubbly		DR3	120.00	122.00	7.12	16.30
DR3					DR3	122.00	124.00	7.72	18.50
DR3					DR3	124.00	126.00	1.68	12.40
DR3					DR3	126.00	128.00	1.70	7.83
DR3					DR3	128.00	130.00	2.45	10.20
DR3					DR3	130.00	132.00	1.01	4.55
DR3					DR3	132.00	134.00	1.67	3.53
DR3					DR3	134.00	136.00	5.24	15.90
DR3					DR3	136.00	138.00	16.40	28.00
DR3					DR3	138.00	140.00	25.70	30.40
DR3	20.00	22.00	5.54	6.78	DR3	140.00	142.00	27.80	33.40
DR3	22.00	24.00	5.09	7.25	DR3	142.00	144.00	16.20	25.90
DR3	24.00	26.00	3.35	4.77	DR3	144.00	146.00	21.60	29.60
DR3	26.00	28.00	1.81	3.96	DR3	146.00	148.00	11.60	28.80
DR3	28.00	30.00	0.36	0.89	DR3	148.00	150.00	16.60	41.50
DR3	30.00	32.00	0.71	1.36	DR3	150.00	152.00	3.84	19.70
DR3	32.00	34.00	0.49	1.05	DR3	152.00	154.00	0.46	3.16
DR3	34.00	36.00	0.37	0.93	DR3	154.00	156.00	18.50	31.70
DR3	36.00	38.00	6.27	10.60	DR3	156.00	158.00	9.48	20.60
DR3	38.00	40.00	8.21	11.70	DR3	158.00	160.00	4.51	19.60
DR3	40.00	42.00	5.44	9.75	DR3	160.00	162.00	14.50	22.40
DR3	42.00	44.00	5.65	9.88	DR3	162.00	164.00	10.80	24.70
DR3	44.00	46.00	6.73	10.60	DR3	164.00	166.00	7.10	17.90
DR3	46.00	48.00	7.20	15.60	DR3	166.00	168.00	6.39	16.10
DR3	48.00	50.00	7.97	13.50	DR3	168.00	170.00	3.83	15.10
DR3	50.00	52.00	0.30	0.89	DR3	170.00	172.00	8.80	24.90
DR3	52.00	54.00	4.44	8.50	DR3	172.00	174.00	9.76	18.50
DR3	54.00	56.00	5.37	10.20	DR3	174.00	176.00	4.64	9.82
DR3	56.00	58.00	4.24	7.77	DR3	176.00	178.00	8.12	19.60
DR3	58.00	60.00	0.22	2.00	DR3	178.00	180.00	8.98	28.70
DR3	60.00	62.00	2.00	3.64	DR3	180.00	182.00	7.87	18.80
DR3	62.00	64.00	2.15	4.19	DR3	182.00	184.00	17.50	26.20
DR3	64.00	66.00	3.59	7.22	DR3	184.00	186.00	12.50	25.50
DR3	66.00	68.00	4.35	8.56	DR3	186.00	188.00	8.91	16.30
DR3	68.00	70.00	3.20	7.30	DR3	188.00	190.00	22.20	33.10
DR3	70.00	72.00	1.19	3.09	DR3	190.00	192.00	23.60	31.30
DR3	72.00	74.00	3.03	6.89	DR3	192.00	194.00	0.56	0.71
DR3	74.00	76.00	5.28	11.40	DR3	194.00	196.00	7.49	16.60
DR3	76.00	78.00	6.70	12.70	DR3	196.00	198.00	0.49	3.05
DR3	78.00	80.00	6.24	13.20	DR3	198.00	200.00	0.25	0.71
DR3	80.00	82.00	12.10	19.10	DR3	200.00	202.00	0.20	0.49
DR3	82.00	84.00	8.55	262.00	DR3	202.00	204.00	0.31	0.40
DR3	84.00	86.00	13.70	15.50	DR3	204.00	206.00	0.23	0.43
DR3	86.00	88.00	2.93	6.62	DR3	206.00	208.00	0.27	0.49
DR3	88.00	90.00	9.38	14.80	DR3	208.00	210.00	0.19	0.42
DR3	90.00	92.00	4.68	12.10	DR3	210.00	212.00	4.13	15.50
DR3	92.00	94.00	8.80	13.90	DR3	212.00	214.00	14.10	27.20
DR3	94.00	96.00	9.95	18.10	DR3	214.00	216.00	27.10	68.80
DR3	96.00	98.00	8.03	11.20	DR3	216.00	218.00	4.83	32.30
DR3	98.00	100.00	43.10	248.00	DR3	218.00	220.00	0.37	0.47
DR3	100.00	102.00	1.14	4.11	DR3	220.00	222.00	1.77	11.70
DR3	102.00	104.00	5.75	15.30	DR3	222.00	224.00	10.80	17.60
DR3	104.00	106.00	24.20	57.80	DR3	224.00	226.00	16.10	27.00
DR3	106.00	108.00	4.49	11.70	DR3	226.00	228.00	17.30	42.50
DR3	108.00	110.00	7.80	15.50	DR3	228.00	230.00	13.60	23.90
DR3	110.00	112.00	20.20	25.80	DR3	230.00	232.00	20.50	27.10
DR3	112.00	114.00	19.50	27.50	DR3	232.00	234.00	19.10	30.30
DR3	114.00	116.00	14.80	29.60	DR3	234.00	236.00	22.30	30.00
DR3	116.00	118.00	19.30	24.40	DR3	236.00	238.00	21.10	32.20
DR3	118.00	120.00	15.00	21.80	DR3	238.00	240.00	77.50	399.00

Hole_ID	From	To	Avg Mag	Peak Mag	Hole_ID	From	To	Avg Mag	Peak Mag
DR3	240.00	242.00	82.80	536.00	DR3	354.00	356.00	1.39	2.87
DR3	242.00	244.00	7.77	15.50	DR3	356.00	358.00	1.56	5.70
DR3	244.00	246.00	7.47	22.40	DR3	358.00	360.00	7.47	19.30
DR3	246.00	248.00	2.19	4.77	DR3	360.00	362.00	5.97	17.10
DR3	248.00	250.00	1.04	6.29	DR3	362.00	364.00	7.20	25.00
DR3	250.00	252.00	21.80	37.80	DR3	364.00	366.00	20.60	33.30
DR3	252.00	254.00	12.20	23.70	DR3	366.00	368.00	6.48	19.20
DR3	254.00	256.00	2.10	14.30	DR3	368.00	370.00	0.40	0.49
DR3	256.00	258.00	3.93	15.30	DR3	370.00	372.00	1.66	8.36
DR3	258.00	260.00	6.59	19.00	DR3	372.00	374.00	4.20	8.71
DR3	260.00	262.00	4.20	12.20	DR3	374.00	376.00	0.63	2.03
DR3	262.00	264.00	2.80	12.20	DR3	376.00	378.00	1.19	6.47
DR3	264.00	266.00	5.79	19.30	DR3	378.00	380.00	7.92	20.00
DR3	266.00	268.00	2.57	8.28	DR3	380.00	382.00	7.01	14.30
DR3	268.00	270.00	4.51	23.60	DR3	382.00	384.00	8.10	16.20
DR3	270.00	272.00	2.96	6.95	DR3	384.00	386.00	5.92	10.20
DR3	272.00	274.00	4.99	17.50	DR3	386.00	388.00	0.55	0.62
DR3	274.00	276.00	8.63	16.70	DR3	388.00	390.00	2.25	7.70
DR3	276.00	278.00	11.70	24.30	DR3	390.00	392.00	1.09	2.15
DR3	278.00	280.00	9.59	18.00	DR3	392.00	394.00	1.14	2.74
DR3	280.00	282.00	7.91	16.80	DR3	394.00	396.00	3.72	11.20
DR3	282.00	284.00	3.32	6.91	DR3	396.00	398.00	3.41	11.50
DR3	284.00	286.00	4.83	7.46	DR3	398.00	400.00	5.23	11.60
DR3	286.00	288.00	4.29	7.74	DR3	400.00	402.00	6.42	29.90
DR3	288.00	290.00	4.14	10.70	DR3	402.00	404.00	9.01	21.70
DR3	290.00	292.00	14.50	28.40	DR3	404.00	406.00	8.11	16.30
DR3	292.00	294.00	9.50	17.70	DR3	406.00	408.00	7.53	21.40
DR3	294.00	296.00	13.50	20.90	DR3	408.00	410.00	5.42	19.10
DR3	296.00	298.00	16.00	23.00	DR3	410.00	411.70	7.82	14.80
DR3	298.00	300.00	14.00	25.50			**EOH**		
DR3	300.00	302.00	11.20	33.30					
DR3	302.00	304.00	0.87	1.02					
DR3	304.00	306.00	0.70	1.09					
DR3	306.00	308.00	0.62	0.86					
DR3	308.00	310.00	2.80	6.53					
DR3	310.00	312.00	1.17	3.40					
DR3	312.00	314.00	0.60	1.95					
DR3	314.00	316.00	0.46	0.62					
DR3	316.00	318.00	1.52	4.53					
DR3	318.00	320.00	4.04	9.77					
DR3	320.00	322.00	0.93	1.97					
DR3	322.00	324.00	0.45	1.02					
DR3	324.00	326.00	0.68	0.98					
DR3	326.00	328.00	0.88	1.33					
DR3	328.00	330.00	0.10	0.25					
DR3	330.00	332.00	0.65	8.28					
DR3	332.00	334.00	1.11	4.02					
DR3	334.00	336.00	3.03	10.70					
DR3	336.00	338.00	2.70	12.50					
DR3	338.00	340.00	6.15	9.57					
DR3	340.00	342.00	13.70	18.80					
DR3	342.00	344.00	9.67	21.80					
DR3	344.00	346.00	6.07	9.68					
DR3	346.00	348.00	1.66	3.62					
DR3	348.00	350.00	0.72	1.15					
DR3	350.00	352.00	0.85	2.04					
DR3	352.00	354.00	0.94	1.75					

Project	Tas Porphyry	Prospect		Powerful	Hole_ID	DR3
Pluton Resources - Sampling Notes						
Sample ID	Composite No.	From (m)	To (m)	Likely elements to assay		
152301		29	30	Gold, Base Metals, Other metals		
152302		30	31	Gold, Base Metals, Other metals		
152303		31	32	Gold, Base Metals, Other metals		
152304		32	33	Gold, Base Metals, Other metals		
152305		33	34	Gold, Base Metals, Other metals		
152306		50	51	Gold, Base Metals, Other metals		
152307		51	52	Gold, Base Metals, Other metals		
152308		52	53	Gold, Base Metals, Other metals		
152309		53	54	Gold, Base Metals, Other metals		
152310		54	55	Gold, Base Metals, Other metals		
152311		55	56	Gold, Base Metals, Other metals		
152312		56	57	Gold, Base Metals, Other metals		
152313		83	84	Gold, Base Metals, Other metals		
152314		84	85	Gold, Base Metals, Other metals		
152315		85	86	Gold, Base Metals, Other metals		
152316		98	99	Gold, Base Metals, Other metals		
152317		99	100	Gold, Base Metals, Other metals		
152318		100	101	Gold, Base Metals, Other metals		
152319		101	102	Gold, Base Metals, Other metals		
152320		102	103	Gold, Base Metals, Other metals		
152321		103	104	Gold, Base Metals, Other metals		
152322		104	105	Gold, Base Metals, Other metals		
152323		105	106	Gold, Base Metals, Other metals		
152324		106	107	Gold, Base Metals, Other metals		
152325		107	108	Gold, Base Metals, Other metals		
152326		108	109	Gold, Base Metals, Other metals		
152327		109	110	Gold, Base Metals, Other metals		
152328		110	111	Gold, Base Metals, Other metals		
152329		111	112	Gold, Base Metals, Other metals		
152330		112	113	Gold, Base Metals, Other metals		
152331		113	114	Gold, Base Metals, Other metals		
152332		114	115	Gold, Base Metals, Other metals		
152333		115	116	Gold, Base Metals, Other metals		
152334		116	117	Gold, Base Metals, Other metals		
152335		117	118	Gold, Base Metals, Other metals		
152336		118	119	Gold, Base Metals, Other metals		
152337		119	120	Gold, Base Metals, Other metals		
152338		120	121	Gold, Base Metals, Other metals		
152339		121	122	Gold, Base Metals, Other metals		
152340		122	123	Gold, Base Metals, Other metals		
152341		123	124	Gold, Base Metals, Other metals		
152342		124	125	Gold, Base Metals, Other metals		
152343		125	126	Gold, Base Metals, Other metals		
152344		126	127	Gold, Base Metals, Other metals		
152345		127	128	Gold, Base Metals, Other metals		
152346		128	129	Gold, Base Metals, Other metals		
152347		129	130	Gold, Base Metals, Other metals		
152348		130	131	Gold, Base Metals, Other metals		
152349		131	132	Gold, Base Metals, Other metals		
152350		132	133	Gold, Base Metals, Other metals		
152351		133	134	Gold, Base Metals, Other metals		
152352		134	135	Gold, Base Metals, Other metals		
152353		135	136	Gold, Base Metals, Other metals		
152354		136	137	Gold, Base Metals, Other metals		
152355		137	138	Gold, Base Metals, Other metals		

152356		138	139	Gold, Base Metals, Other metals
152357		139	140	Gold, Base Metals, Other metals
152358		140	141	Gold, Base Metals, Other metals
152359		141	142	Gold, Base Metals, Other metals
152360		182	183	Gold, Base Metals, Other metals
152361		183	184	Gold, Base Metals, Other metals
152362		184	185	Gold, Base Metals, Other metals
152363		185	186	Gold, Base Metals, Other metals
152364		186	187	Gold, Base Metals, Other metals
152365		187	188	Gold, Base Metals, Other metals
152366		188	189	Gold, Base Metals, Other metals
152367		189	190	Gold, Base Metals, Other metals
152368		190	191	Gold, Base Metals, Other metals
152369		191	192	Gold, Base Metals, Other metals
152370		192	193	Gold, Base Metals, Other metals
152371		193	194	Gold, Base Metals, Other metals
152372		194	195	Gold, Base Metals, Other metals
152373		195	196	Gold, Base Metals, Other metals
152374		196	197	Gold, Base Metals, Other metals
152375		197	198	Gold, Base Metals, Other metals
152376		198	199	Gold, Base Metals, Other metals
152377		199	200	Gold, Base Metals, Other metals
152378		200	201	Gold, Base Metals, Other metals
152379		201	202	Gold, Base Metals, Other metals
152380		202	203	Gold, Base Metals, Other metals
152381		203	204	Gold, Base Metals, Other metals
152382		204	205	Gold, Base Metals, Other metals
152383		205	206	Gold, Base Metals, Other metals
152384		206	207	Gold, Base Metals, Other metals
152385		207	208	Gold, Base Metals, Other metals
152386		208	209	Gold, Base Metals, Other metals
152387		209	210	Gold, Base Metals, Other metals
152388		210	211	Gold, Base Metals, Other metals
152389		211	212	Gold, Base Metals, Other metals
152390		212	213	Gold, Base Metals, Other metals
152391		213	214	Gold, Base Metals, Other metals
152392		214	215	Gold, Base Metals, Other metals
152393		215	216	Gold, Base Metals, Other metals
152394		216	217	Gold, Base Metals, Other metals
152395		217	218	Gold, Base Metals, Other metals
152396		218	219	Gold, Base Metals, Other metals
152397		219	220	Gold, Base Metals, Other metals
152398		220	221	Gold, Base Metals, Other metals
152399		221	222	Gold, Base Metals, Other metals
152400		222	223	Gold, Base Metals, Other metals
152401		223	224	Gold, Base Metals, Other metals
152402		224	225	Gold, Base Metals, Other metals
152403		225	226	Gold, Base Metals, Other metals
152404		226	227	Gold, Base Metals, Other metals
152405		227	228	Gold, Base Metals, Other metals
152406		228	229	Gold, Base Metals, Other metals
152407		229	230	Gold, Base Metals, Other metals
152408		230	231	Gold, Base Metals, Other metals
152409		231	232	Gold, Base Metals, Other metals
152410		232	233	Gold, Base Metals, Other metals
152411		233	234	Gold, Base Metals, Other metals
152412		234	235	Gold, Base Metals, Other metals
152413		235	236	Gold, Base Metals, Other metals

152414		236	237	Gold, Base Metals, Other metals
152415		237	238	Gold, Base Metals, Other metals
152416		238	239	Gold, Base Metals, Other metals
152417		239	240	Gold, Base Metals, Other metals
152418		240	241	Gold, Base Metals, Other metals
152419		241	242	Gold, Base Metals, Other metals
152420		365	366	Gold, Base Metals, Other metals
152421	Zn/Pb	366	367	Gold, Base Metals, Other metals
152422		367	368	Gold, Base Metals, Other metals
152423		368	369	Gold, Base Metals, Other metals
152424		369	370	Gold, Base Metals, Other metals
152425		370	371	Gold, Base Metals, Other metals
152426		371	372	Gold, Base Metals, Other metals
152427		372	373	Gold, Base Metals, Other metals
152428		373	374	Gold, Base Metals, Other metals
152429		374	375	Gold, Base Metals, Other metals
152430		401	402	Gold, Base Metals, Other metals
152431	Zn/Pb	402	403	Gold, Base Metals, Other metals
152432		403	404	Gold, Base Metals, Other metals
152433		404	405	Gold, Base Metals, Other metals
152434	Cu	405	406	Gold, Base Metals, Other metals
152435		406	407	Gold, Base Metals, Other metals
152901		34	35	Whole Rock and REE
152902		44	45	Whole Rock and REE
152903		64	65	Whole Rock and REE
152904		74	75	Whole Rock and REE
152905		80	81	Whole Rock and REE
152906		94	95	Whole Rock and REE
152907		164	165	Whole Rock and REE
152908		170	171	Whole Rock and REE
152909		175	176	Whole Rock and REE
152910		255	256	Whole Rock and REE
152911		265	266	Whole Rock and REE
152912		277	278	Whole Rock and REE
152913		287	288	Whole Rock and REE
152914		297	298	Whole Rock and REE
152915		307	308	Whole Rock and REE
152916		317	318	Whole Rock and REE
152917		329	330	Whole Rock and REE
152918		339	340	Whole Rock and REE
152919		349	350	Whole Rock and REE
152920		359	360	Whole Rock and REE
152921		377	378	Whole Rock and REE
152922		385	386	Whole Rock and REE
152923		399	400	Whole Rock and REE
152924		410	411	Whole Rock and REE