

Drill Log: CFD0291

Easting	582451.16	Hole Length	200 m	Prospect	Latte	Drill Started	May 28, 2013	Comment
Northing	6973200.77	Azimuth	0 °	Target	Latte	Drill Completed	May 30, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1099.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 31.5	BtS_carb	biot	Fol-str	Chloritic Bt-fspar schist, locally mylonitic, local epidote altn. Minor fracture controlled limonite, common metacarbonate banding.
		0.0 - 18.8	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
		18.8 - 19.7	Pervasive Strong Chlorite	Pervasive Moderate Sericitisation
		19.7 - 31.5	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Sericitisation
31.5 - 41.0	IV	fgrn		Silicified intermediate dyke, weak foliation, sharp upper and lower contacts with BtS_Carb. Locally strongly silicified.
		31.5 - 32.4	Pervasive Intense Silicification	
		32.4 - 36.0	Pervasive Strong Silicification	
		36.0 - 36.6	Pervasive Intense Silicification	
		36.6 - 40.2	Pervasive Strong Silicification	
		40.2 - 41.0	Pervasive Intense Silicification	
41.0 - 80.0	BtS_carb	biot	Fol-str	Frequent metacarbonate banding, local mod silica-sericite altn of BtS.
		41.0 - 44.8	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite
		44.8 - 46.5	Pervasive Moderate Sericitisation	Pervasive Strong Silicification
		46.5 - 59.0	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite Patchy Moderate Epidote
		59.0 - 141.7	Vein Seldedge Moderate Fe-carb	Replaces Mafics Moderate Chlorite Replaces Mafics Moderate Clay
80.0 - 141.7	BtS_carb	biot	Fol-str	BtS and metacarbonate banding. Local increased silicification. Overall increased replacement of felsic minerals by Fe-Carb and high density of multi-directional carbonate veinlets. increased shear zones with strong chlorite altn throughout, parallel/sub parallel to foliation.
141.7 - 144.9	BtS	fgrn	Fol-mod	Bti-musc schist, local limonite stringers. 1% diss limonite replacing fspar pblastw.
		141.7 - 143.0	Replaces Matrix Strong Clay	Replaces Clasts Moderate Silicification
		143.0 - 146.2	Pervasive Strong Silicification	
144.9 - 149.3	BtS	silc		Intensely silicified schist, locally HU and silicified bx veins, limonite/clay stringers throughout. 0.25% blebby sulphide.
		146.2 - 148.5	Pervasive Intense Silicification	Fracture Controlled Moderate Clay
		148.5 - 151.3	Pervasive Strong Silicification	Replaces Mafics Moderate Clay
149.3 - 149.6	Ylim	bx		Oxidized silica flooded micro bx Disseminated lim/hem. .5% blebby brassy pyrite. Porcelanic qtz veins x-cutting. Minor fn grn realgar.
149.6 - 150.0	MsRQM	silc	Fol-str	Strongly silicified mylonite, 15 disseminated limonite, local crackle breccias.
150.0 - 150.4	YC	silc		Silicified clast polyphase polymictic bx, clasts of limonite Bts and silicified mylonite. BX structure running parallel to long core axis. (flex) 15 disseminate dlimonite.
150.4 - 151.4	MsRQM	fgrn	Fol-str	Silicified RQM with 0.5% disseminated limonite. Local YX veins xcutting
		151.3 - 151.8	Pervasive Intense Clay	Replaces Clasts Strong Silicification
151.4 - 151.7	YC	bxv		Silicified clast bx with limonite clay matrix. Subrounded clasts of qtz/silicified RQM. 3cm aphanitic HU (dacite) 3-5% diss limonite throughout

151.7 - 152.2	Yx	bx	RQM and crackle breccia, Strong silicification, interstitial moderate clay replacement, 2% diss limonite	
		151.8 - 152.7	Pervasive Strong Silicification	Fracture Controlled Weak Clay
152.2 - 153.2	Ylim	Clast	Intensely silicified crackle/ limonite-clay matrix bx. 3% diss limonite, 1% diss hematate. Local strong clay.	
		152.7 - 153.2	Replaces Clasts Strong Silicification	Fracture Controlled Intense Clay
153.2 - 156.5	MsRQM	mylo	Fol-str	Silcified RQM, local disseminated limonite, lenses of bt schist. Limonite stringers throughout.
156.5 - 159.6	BtS	biot	Fol-mod	Bts with local talc-chloritic shear zones ~ 10 cm wide.
159.6 - 162.2	MsRQM	mylo	High strain, local 1% disseminated limonite, 0.25% disseminated pyrite throughout (sooty and brassy) Mod to strong silica sericite altn.	
		159.6 - 161.3	Pervasive Strong Silicification	Replaces Felsics Moderate Sericitisation
		161.3 - 161.6	Pervasive Strong Clay	Pervasive Moderate Sericitisation
		161.6 - 162.2	Replaces Felsics Weak Clay	Replaces Felsics Moderate Sericitisation
162.2 - 162.4	Ylim	mud	Limonitic clay matrix micro breccia of RQM clasts. 1-2% disseminated limonite	
		162.2 - 162.6	Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification
162.4 - 163.5	MsRQM	mass	Oxidized RQm and faulted RQM, strong pervasive clay and silica altn. Limonite stringers throughout. 1-2% diss limonite.	
		163.1 - 164.6	Replaces Felsics Strong Clay	
163.5 - 165.2	BtS	biot	Bts, 0.25% fracture controlled lim, Limonite stained fspars., minor hematite. Weak zone shoulder.	
		164.6 - 165.1	Replaces Felsics Weak Clay	
		165.1 - 200.0	Patchy Weak Silicification	Vein Selvege Weak Epidote
165.2 - 176.2	BtS_carb	mgrn	Bts, minor epidote altn, 0.1% fracture controlled limonite.	
176.2 - 177.5	UM	cgrn	Green ultramafic, foliated, talc- carbonate, med grain magnetite disseminations. Minor brassy pyrite.	
177.5 - 200.0	BtS_carb	mgrn	Weakly silicified bt-amph schist with carb banding. Minor brassy pyrite blebs. Local epidote altn.	

Drill Log: CFD0292

Easting	582451.85	Hole Length	158 m	Prospect	Latte	Drill Started	May 30, 2013	Comment	LAT001
Northing	6973249.75	Azimuth	0 °	Target	Latte West	Drill Completed	Jun 01, 2013		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1088.95 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 15.5	BtS_carb			Bts_carb, minor metacarbonate banding, local epidote altn.
		0.0 - 54.0	Fracture Controlled	Strong Fe-carb Patchy Moderate Epidote
15.5 - 17.0	FC	silc		Intensely silicified and fractured aphanitic dyke, minor limonite stringers and weak oxidation.
17.0 - 55.7	BtS_carb			Bts_carb, minor metacarbonate banding, local epidote altn.
55.7 - 56.1	Ycarb	bx		angular carbonate clast, fe-carb and clay matrix supported breccia. Moderately silicified.
		55.7 - 56.1	Pervasive Strong Fe-carb	Pervasive Moderate Silicification
56.1 - 56.8	BtS_carb	biot		Bts_carb, Fe-carb veinlets throughout. Minor clay replacement.
56.8 - 57.9	BtRQM	mylo	Fol-str	Oxidized mylonite, stockwork of fe-carb veinlets throughout, RQM contains 1.5% diss limonite and hematite. Local crackle breccia texture and mod clay replacement.
57.9 - 94.3	BtS_carb	biot		Very common meta carbonate banding throughout as well as fracture controlled and stockwork fe-carb veinlets. Bts contains local fol-parallel chloritic shear zones usually accompanied by hematite staining and clay.
94.3 - 95.9	YC	bx		Silicified BtS clast limonitic clay matrix breccia, 2-3% disseminated limonite and hematite. (95.37-95.90 contains 1% sooty pyrite veins)
		94.3 - 100.5	Pervasive Intense Clay	Replaces Felsics Strong Silicification Vein Selvege Moderate Fe-carb
95.9 - 96.5	YO	bxv		pyritic subangular Bts clasts in clay-lim-py matrix breccia, cross cut by massive fine grain blacksooty sulphide veins (steeply dipping, E-W trending)
96.5 - 98.9	YO	bxm		Massive metacarbonate layer with crack bx texture and stockwork of 30% FINE GRAIN SOOTY Sulphide veins, 1-80mm in width and 1% later orpiment veinlets. Sulphide veins show reverse fault displacement and later infill by orpiment.
98.9 - 99.3	YC	bxv		fine grain rounded silicified wall rock clasts in a clay-limonite (0.5) matrix.
99.3 - 99.9	BtS_carb	mud	Fol-mod	Bts-carbonate, 0.25% sooty pyrite stringers, 0.5% fe-carb veinlets and 0.5% disseminated limonite locally.
99.9 - 100.3	YO	mass		clay-limonite matrix micro breccia, clasts of limonitic Bts and qtz veins, 0.1% fe-carb veinlets cutting.
100.3 - 120.1	BtS_carb	biot	Fol-str	Bts with common metacarbonate banding, locally mylonitic. Steep E-W limonitic shear zone at 105.65-105.75. Local moderate silica sericite altn of mylonitic BtS and epidote veining in BtS
120.1 - 147.0	BtS	mgrn		Medium grain bts schist, qtz pblasts, minor chlorite alteration locally.
		120.1 - 120.5	Pervasive Intense Silicification	
		127.0 - 158.0	Pervasive Strong Silicification	Fracture Controlled Weak Chlorite
147.0 - 158.0	MBSLT	fgrn		aphanitic metabasalt, upper contact contains banded pyroxenite.

Drill Log: CFD0293

Easting	582252.19	Hole Length	224 m	Prospect	Latte	Drill Started	Jun 01, 2013	Comment	Top 53m recovery issues.
Northing	6973250.09	Azimuth	0 °	Target	Latte W	Drill Completed	Jun 04, 2013		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1071.18 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 14.0	OVb	mud		Mixed zone: Moderately silicified Bts clasts and boulders in strong clay/weathered mica matrix. 0.5% disseminated limonite.
		0.0 - 22.7	Pervasive Intense Clay	Replaces Felsics Moderate Sericitisation Vein Selvege Weak Fe-carb
14.0 - 17.2	YO	mud		Mixed zone: strong clay and chlorite altn of Bts_carb. W/ local clay matrix bx, 1% diss lim, no CO3.
17.2 - 21.3	Ylim	bx		Zone. Angular limonitic BtS clasts in clay-limonite matrix bx. (18.5-19.5m Ylim w/2% diss lim and hem, mod silicification) - no CO3
21.3 - 22.5	Ylim	bx		Zone: clay-limonite matrix microbreccia and HU, 1-2% disseminated limonite w/ local hematite stringers. Very minor Fe-carb veining
22.5 - 23.1	Ycarb	bxv		mature angular carbonate vein clasts in fe-carb matrix bx
		22.7 - 32.5	Fracture Controlled Moderate Clay	Replaces Felsics Moderate Sericitisation
23.1 - 32.5	BtS_carb	fgrn		Carbonate banded schist, 30cm of Fe-carb replacement in shear zone @ 26m mark
32.5 - 35.0	BtS	fgrn	Fol-str	Mineralized BtS with local Yx texture, 1.5% disseminated limonite throughout, strong silica-clay pervasive alteration and hematite stringers.
		32.5 - 34.9	Pervasive Intense Clay	Pervasive Intense Silicification
		34.9 - 35.0	Replaces Mafics Intense Chlorite	Pervasive Intense Clay
35.0 - 54.8	BtS_carb	fgrn	Fol-str	Bts, locally mylonitic, 0.1% fracture controlled limonite. 96.2 down is 905 carbonate.
		35.0 - 50.2	Fracture Controlled Weak Clay	Patchy Weak Silicification
		50.2 - 53.0	Fracture Controlled Moderate Clay	Replaces Felsics Moderate Sericitisation
54.8 - 57.9	Ylim	mud		lim-clay matrix bx, fine grain silicified Bts clasts, very muddy. 0.5% disseminated limonite.
		56.0 - 57.9	Replaces Matrix Intense Clay	Replaces Clasts Moderate Silicification
57.9 - 58.6	BtS	biot	Fol-str	Strong clay replacement of felsic minerals, 0.1% fracture controlled limonite
		57.9 - 58.0	Replaces Felsics Moderate Clay	
58.6 - 59.4	MsRQM	mylo		Silicified RQM, minor Yx texture around limonite veins, No As anomaly.
		58.6 - 59.5	Pervasive Strong Silicification	Fracture Controlled Weak Clay
59.4 - 62.5	BtS	biot		BtS, moderate fracture controlled clay, 0.25% diss limonite throughout, strongly fractured.
		59.5 - 62.6	Fracture Controlled Weak Clay	Replaces Felsics Weak Sericitisation
62.5 - 63.6	MsRQM	silc	Fol-str	Zone: Intensely silicified RQM/HU, 2% disseminated limonite, 1% diss hematite, 0.2% limonite stringers. local mo clay on fracture surfaces.
		62.6 - 63.6	Pervasive Intense Silicification	Pervasive Moderate Clay Replaces Felsics Weak Sericitisation
63.6 - 65.0	MsRQM	mylo	Fol-str	Weak clay and disseminated limonite of RQM, minor As content.
		63.6 - 65.0	Fracture Controlled Weak Clay	Replaces Felsics Moderate Sericitisation

65.0 - 80.3	BtS_carb	biot	Mixed BtS, carbonate, .1% fracture controlled limonite.		
		65.0 - 80.0	Fracture Controlled Weak Clay	Pervasive Weak Sericitisation	
		80.0 - 81.0	Replaces Matrix Intense Clay		
80.3 - 80.7	MsRQM	mylo	Fol-str	RQM, weak clay altn, strong silica. 1% diss limonite, minor limonite veinlets.	
80.7 - 81.0	Ylim	mud	Intense clay replacement/HU, 0.5% diss limonite.		
81.0 - 87.0	BtS	biot	Fol-mod	Variable altered schist, local clay/limonite shear and mylonitic textures. 0.25% diss limonite associated with mod silicified zones.	
		81.0 - 87.0	Patchy Moderate Silicification	Pervasive Weak Sericitisation	Fracture Controlled Weak Clay
87.0 - 126.0	BtS_carb	biot	Fol-mod	Bts w/ minor carbonate banding, local sericite, epidote or chlorite alteration. Barren package.	
		87.0 - 126.0	Fracture Controlled Weak Chlorite	Vein Selvege Weak Epidote	Replaces Felsics Weak Sericitisation
126.0 - 126.5	Yx	silc	Mixed zone or silicified RQM and fine grain sooty sulphide stringers, oxidized Crackle breccia w/1% disseminated limonite.(silicified rqm clasts) cut by two silica-sulphide planar veins ~1cm wide. Mod silica-ser altn throughout, weak fracture controlled cy.		
		126.0 - 126.3	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay
126.5 - 128.5	IV	silc	Aphanitic intermediate dyke, 0.0% fracture controlledlimonite, 127.8-end mod sericite altn, intense silicification (bleaching, 0.25% diss lim around faulted locale.		
		126.5 - 129.5	Pervasive Intense Silicification	Fracture Controlled Moderate Sericitisation	Fracture Controlled Weak Clay
128.5 - 129.5	BtS	silc	Bts with fracture controle lim/cy. Possible rafts of metagabbro? Possible lower contact of above mentioned dyke though foliation is stronger. Ower contact with cy-py breccia		
129.5 - 129.6	YC	matx	silicified rounded clasts-clay-1% sotty py matrix breccia.		
129.6 - 133.9	BtS_carb	biot	Fol-mod	Bts_carb, moderate fracture controlled sericite altn along qtz veins, minor 0.1% diss hematite	
		133.0 - 142.5	Fracture Controlled Weak Silicification	Fracture Controlled Moderate Sericitisation	
133.9 - 142.5	BtS	qtz	Bts schist, local zone approx 30cm wide with mod to strong silica sericite altn associated with 0.5% steeply dipping E-W sooty py stringers and fine grain brassy py		
142.5 - 154.5	BtRQM	qtz	BtS/RQM, moderate pervasive sericite throughout, strong silica associate with local 0.25% silica-sulphide veinlets and blebby pyrite. 10cm wide poly phase subrounded rqm clast-silica matrix supported bx. No sulphide, moderate sericite.		
		142.5 - 154.2	Pervasive Moderate Sericitisation	Patchy Weak Silicification	
		154.2 - 154.8	Replaces Clasts Strong Silicification	Replaces Felsics Moderate Sericitisation	
154.5 - 154.8	MsRQM	qtz	Mod-qsp altered RQM, increased silica content and 0.5% silica-sulphide veinlets sub-parallel to foliation		
154.8 - 154.8	YO	bx	planar subrounded micro clasts of silicified RQM in fine grain sulphide matrix.		
		154.8 - 155.6	Replaces Mafics Strong Clay	Replaces Clasts Strong Silicification	
154.8 - 155.6	YO	Clast	angular clasts of silia-sericite altered rqm in strongly clay altered matrix, 1-2% sooty sulphide veins throughout.		
155.6 - 158.4	MsRQM	qtz	strong silic-sericite altn of RQM, local <1cm wide silica matrix supported breccias, 0.25% sooty sulphide-silca stringers.		
		155.6 - 158.4	Fracture Controlled Moderate Clay	Replaces Felsics Strong Sericitisation	Replaces Clasts Weak Silicification
158.4 - 158.6	PyF	mud	Intense pervasive clay-sulphide fault zone 5% fine grain sulphide.		
		158.4 - 158.5	Pervasive Strong Clay	Replaces Clasts Strong Silicification	
		158.5 - 161.5	Pervasive Intense Silicification		
158.6 - 161.0	HU	silc	Intense pervasice silica alteration, possible aphanitic dyke, 0.5% silica-sulphide stringers throughout. High fracture fault zone.		
161.0 - 174.0	DIOR	silc	Silicified fine to med grain intrusive with mod sericite altn, felspar phenocrysts recognizable when silica decreases locally (. 0.1% fracture controlled liomonite, 0.25% fine grain disseminated sooty sulphide and brassy pyrite.0.1% silica-sulphide veinlets, multiorientation (fracture control)		
		161.5 - 177.2	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	
174.0 - 177.3	MsS	silc	Strong silica-sericite altn, 0.15 diss fn grn sooty sulphide as described above, slight pinkish tone when alteration weakens, possible hematite staining, possible felsic gneiss		
177.3 - 179.0	BtS_carb	biot	Weakly altered BtS carb unit.		

179.0 - 194.0	HU	silc	Pervasive silica flooding, 0.15% diss brassy py. and fracture controlled sulphide veinlets.	
		179.0 - 194.0	Pervasive Intense Silicification	Pervasive Weak Sericitisation
194.0 - 218.9	MsS	silc	Intense silica continues, weak foliation visible, hematite stained throughout. Lesser fracture controlled sooty pyrite (0.2%), which increases in last 5m of unit. 1% fracture controlled limonite from 218.4 to EOU, like the result of contact with next unit. Carbonate vein stockwork/crackle breccia at 217.75m	
		194.0 - 218.9	Pervasive Strong Silicification	Fracture Controlled Weak Sericitisation
218.9 - 224.0	IV	phyr	Plagioclase-amphibole porphyritic andesite, with trace fracture controlled limonite. Weakly magnetic. Upper contact with intensely silicified schist is preserved, but no ori possible. Moderate fracture controlled clay at contact. Plag phenos are strongly silicified, amphibole phenos are randomly oriented.	
		218.9 - 224.0	Replaces Felsics Strong Silicification	Replaces Matrix Weak Silicification

Drill Log: CFD0294

Easting	582255.17	Hole Length	62 m	Prospect	Latte	Drill Started	Jun 05, 2013	Comment	Redrill of CFD0293, intersected "zone" to greater depth than original hole
Northing	6973250.9	Azimuth	0 °	Target		Drill Completed	Jun 06, 2013		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1071.17 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 14.9	OVb			Mixture of cobble and sad, however cobbles at 13.2, 13.6, and 13.9, and 14.3 are breccias of varying style (e.g. silica/hematite matrix-supported silicified clast breccia, vuggy carbonate/limonite matrix silicified clast-supported breccia)
14.9 - 18.5	HU	fgrn		Zone. Hydrothermally altered unrecognizable unit, barely held together by intense clay to unconsolidated over 10-40cm.. Was a former schist (can break a piece off core and observe foliation), but beyond that there is not much to see. Limonite is disseminated throughout and averages 2%.
		14.9 - 18.5	Pervasive Intense Clay	Patchy Weak Silicification
18.5 - 21.7	PB	band	Fol-mod	Band of nearly pure carbonate, with foliation defined by darker bands which could have once been biotite. Unit contains 20cm band of HU/intensely clay altered BtS from 20.17m, and is strongly fractured from 19-20m. Av. 0.25% fracture controlled limonite.
		18.5 - 21.7	Pervasive Intense Calcite	
21.7 - 26.2	BtS_carb	band	Fol-mod	Biotite schist with carbonate including several 10-65cm bands of strongly clay altered schist and associated 2% limonite (av. 0.5%) at SOU-22.6, 23-23.5, 25.65-EOU
		21.7 - 26.2	Pervasive Moderate Calcite	Replaces Mafics Moderate Clay
26.2 - 32.9	BtS_carb	band	Fol-mod	Relatively fresh biotite schist with carbonate, exhibits weak chlorite after biotite and is locally strongly to intensely fractured over uncommon 20cm intervals with associated clay. Most limonite is fracture-controlled but is locally replacing feldspar porphyroblasts over 10cm. Small (10cm) clay/limonite matrix-supported carbonate clast breccia at 31.65m. Last 50cm of unit exhibit strong clay/chlorite alteration and is starting to come apart, with slightly increasing limonite towards the contact with the next unit.
		26.2 - 32.9	Fracture Controlled Moderate Calcite	Fracture Controlled Weak Clay
32.9 - 34.0	BtS	band	Fol-wk	Zone. Former biotite schist with 5cm Ylim at 33m, 33.1m, and HU from 33.26-33.39m. Foliation is destroyed from 33.39-EOU, but ghosts of biotite remain. Unit exhibits 2% disseminated limonite with 5% disseminated hematite from 33.2-33.4 (8791 ppm As)(av. 0.1%)
		32.9 - 34.0	Pervasive Weak Clay	Pervasive Moderate Calcite
34.0 - 40.4	BtS_carb	band	Fol-mod	Another interval of relatively fresh biotite schist with carbonate, with trace fracture controlled limonite. 10cm sheared mafic rock at SOU. Weak chlorite after biotite, and strong pervasive silica from 40.11 to EOU.
		34.0 - 40.1	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Clay
		40.1 - 40.4	Pervasive Strong Silicification	
40.4 - 43.8	BtS_carb	band	Fol-mod	Strongly fractured biotite schist with carbonate, with av. 0.5% fracture controlled limonite associated with clay. Unit starts with ~10cm of intensely clay altered rock and proceeds into grungy biotite schist with a CA // fracture filled with clay and minor limonite. Radiating fractures generally exhibit more limonite than the main fracture, which persists to ~41.8m. Afterward the unit is somewhat fresher but still contains patches of strong clay alteration and associated weak limonite where core becomes unconsolidated.
		40.4 - 43.8	Fracture Controlled Moderate Clay	Replaces Mafics Weak Chlorite
43.8 - 47.9	BtS_carb	band	Fol-mod	Zone. Biotite schist with carbonate. Carbonate bands are generally competent while nearly all biotite-rich bands have been intensely clay-altered and contain av. 2% limonite. One such band contains oxidized pyrite cubes (@47.25m). 10cm matrix-supported Ylim with carbonate clasts at 45.5. Suspect more breccia was originally present but has since washed away (e.g. 46-47m, poor recovery 45m+)
		43.8 - 47.9	Replaces Mafics Strong Clay	

47.9 - 50.7	PB	band	Fol-wk	Similar carbonate band to upper unit, with weak foliation defined by former biotite. Trace fracture controlled limonite. Small interval of strongly clay altered BtS_carb from 49.08-49.7m.
		47.9 - 49.1	Pervasive Intense Calcite	
		49.1 - 49.7	Pervasive Strong Clay	
		49.7 - 50.2	Pervasive Intense Calcite	
		50.2 - 51.0	Pervasive Intense Calcite	Replaces Matrix Strong Clay
50.7 - 51.0	Ylim	bxi		Weak zone. Limonite-matrix-supported carbonate clast breccia that cross cuts a carbonate band // to CA. 3% limonite in matrix.
51.0 - 53.8	BtS_carb	band	Fol-mod	Weak zone. Biotite schist with carbonate, where biotite-rich bands exhibit strong to intense clay alteration associated with 1% disseminated limonite. Locally the bands break down and form mush piles (HU), but the core is competent if very weak for the most part.
		51.0 - 53.8	Replaces Mafics Strong Clay	Patchy Intense Calcite
53.8 - 55.8	BtS_carb	band	Fol-mod	Biotite schist with carbonate. Biotite-rich layers exhibit moderate chlorite where not completely blasted with clay. Unconsolidated clay from 54.8-55 with 1% hematite and 0.5% limonite. Av. 0.5% limonite and trace hematite.
		53.8 - 55.8	Patchy Strong Clay	Patchy Moderate Calcite
55.8 - 58.7	HU	mass		Zone. Unconsolidated hydrothermally altered-unrecognizable rock. Unit contains rare pieces of BtS or carbonate bands, and generally exhibits 1% limonite and 2% hematite, both disseminated. Low XRF-As (~100 ppm)
		55.8 - 58.7	Pervasive Intense Clay	Patchy Weak Calcite
58.7 - 60.8	BtS	band	Fol-mod	Chocolate brown biotite schist with strong clay alteration and 0.25% disseminated limonite. Unit is locally unconsolidated over 10cm intervals.
		58.7 - 60.8	Pervasive Strong Clay	
60.8 - 62.0	BtS	band	Fol-mod	Weakly silicified and clay altered biotite schist, strongly fractured from SOU-61.6 with associated 1% limonite, with av. 0.5% limonite and 0.25% hematite, both disseminated.
		60.8 - 62.0	Pervasive Weak Silicification	Pervasive Weak Clay

Drill Log: CFD0295

Easting	584082.07	Hole Length	254 m	Prospect	Supremo T1-2	Drill Started	Jun 06, 2013	Comment
Northing	6974247.17	Azimuth	270 °	Target	T2	Drill Completed	Jun 08, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1276.28 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 18.0	BtS	band	Fol-mod	Biotite schist with common 30-100cm bands of strong chlorite-epidote-quartz alteration. Limonite is trace and fracture controlled, but becomes disseminated in last meter of unit. 10cm band of intensely clay-altered schist with 2% disseminated limonite.
		6.0 - 18.0	Patchy Moderate Chlorite	Patchy Moderate Epidote
18.0 - 19.0	BtS		Fol-wk	Zone. Former biotite schist. 1cm crackle breccia vein at 18.35. Last half of unit is unconsolidated. Limonite is disseminated throughout and averages 2%, with av. 1% disseminated hematite.
		18.0 - 19.0	Pervasive Strong Clay	
19.0 - 29.1	BtS	band	Fol-mod	Fresh barren biotite schist with MxM from 24-24.65m. Sheared mafic rock from 21.45-22.35m. Trace fracture controlled limonite.
		19.0 - 29.1	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote
29.1 - 30.2	SZ	band	Fol-str	Very sheared biotite schist, foliation has changed orientation to CA-//. This unit exhibits strong chlorite and moderate epidote with 0.25% fracture-controlled/foliation // limonite.
		29.1 - 30.2	Replaces Mafics Strong Chlorite	Replaces Felsics Moderate Epidote
30.2 - 35.6	MxF	band	Fol-wk	Zone. Felsic dominant gneiss, moderate to strong silica after feldspar. First 2 meters is schist-dominant with common foliation // quartz veins and limonite/clay after feldspar porphyroblasts. The rest of the unit exhibits 1% disseminated limonite and 1% disseminated hematite from 34.5-EOU (av. 0.1%). Unoxidized windows at 35.2m exhibit blebby sooty pyrite.
		30.2 - 35.6	Pervasive Strong Silicification	Replaces Clasts Weak Clay
35.6 - 46.8	FG	silc	Fol-wk	Inter-zone. Felsic gneiss exhibiting strong silica and 10-30cm intervals of weak sericite. Limonite is disseminated throughout most of the unit but is lacking between 43.5-EOU and averages 0.25%
		35.6 - 46.8	Pervasive Strong Silicification	Patchy Weak Sericitisation
46.8 - 54.1	FG	silc	Fol-wk	Zone. Strongly to intensely silicified felsic gneiss with weak pervasive sericite. First 2 meters of unit exhibit wavy hematite staining and near complete textural destruction. Unoxidized windows reveal blebs and veinlets of sooty pyrite. Strongest part of zone, from 51-54m, exhibits common fracture controlled clay and 1-2% vein halo/locally disseminated hematite. 2cm wide chalcedony vein at 51.65m. 10cm Former dike with contorted lower contact at 47.5m. Av. 1.5% limonite and 0.25% hematite.
		46.8 - 54.0	Pervasive Strong Silicification	Pervasive Weak Sericitisation
		54.0 - 75.3	Pervasive Strong Silicification	Patchy Weak Sericitisation
54.1 - 75.3	MxF	silc	Fol-mod	Felsic dominant augen gneiss, strongly silicified with local moderate sericite over 10-200cm. Limonite is dominantly fracture controlled but locally disseminated over 5-150cm, and averages 0.25%.
75.3 - 80.8	MxF	silc	Fol-mod	Weak zone. Felsic dominant gneiss. Strong silica after felsic component of rock, with moderate clay after fs porphyroblasts. Barren augen gneiss from 77.1-77.85. Unit averages 0.5% disseminated limonite.
		75.3 - 80.8	Pervasive Strong Silicification	Replaces Felsics Moderate Clay
80.8 - 84.2	MxF	silc	Fol-wk	Felsic dominant gneiss with av. 0.25% limonite disseminated in felsic gneiss. Strong silica of felsics, weak chlorite after mafics.
		80.8 - 84.2	Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite
84.2 - 86.5	MxF	silc	Fol-mod	Weak zone, similar to second previous unit. Silica after fs, clay after bt (strong and moderate, respectively). 0.5% disseminated limonite. 0.25% fracture controlled/vein halo hematite.
		84.2 - 86.5	Replaces Felsics Strong Silicification	Replaces Mafics Moderate Clay

86.5 - 93.3	MxF	silc	Fol-wk	Barren felsic dominant gneiss, strong silica and local moderate sericite over 30-100cm. Trace fracture controlled limonite. Trace disseminated alt-related brassy pyrite.
		86.5 - 93.3	Pervasive Strong Silicification	Patchy Weak Sericitisation
93.3 - 105.1	MxF	silc	Fol-mod	Weak zone. Felsic dominant gneiss exhibiting moderate silica after felsic gneiss and weak to moderate clay after fs in former biotite schist. Unmineralized/barren horizon from 100.1-102.1. Limonite is disseminated throughout and averages 0.5%.
		93.3 - 105.1	Replaces Felsics Moderate Silicification	Replaces Felsics Moderate Clay
105.1 - 107.6	FG	silc	Fol-mod	Barren strongly silicified felsic gneiss with trace fracture controlled limonite
		105.1 - 107.6	Patchy Strong Silicification	Pervasive Weak Sericitisation
107.6 - 110.6	MxF	silc	Fol-wk	Weak zone. Felsic dominant gneiss with strong silica and moderate sericite. Average of 0.5% disseminated limonite, with sooty pyrite veins concentrated from 110.15-110.35m (av. trace)
		107.6 - 110.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
110.6 - 119.4	MxF	band	Fol-mod	Felsic dominant gneiss with strong silica after felsics while mafics are generally fresh. Limonite is concentrated in felsic bands and averages 0.25%. Weak clay after feldspar in mafic bands.
		110.6 - 122.2	Replaces Mafics Moderate Silicification	Replaces Clasts Weak Clay
119.4 - 122.2	BtS	band	Fol-mod	Zone shoulder. Biotite schist with feldspar porphyroblasts replaced by a mixture of clay-silica-limonite, and patchy silicification. Av. 0.5% disseminated limonite.
122.2 - 123.2	YO	bxm		Zone. Unit begins as a limonite-clay matrix-supported intensely silicified subrounded clast breccia for 10cm, which leads into altered/mineralized biotite schist to 122.9m, to a silica matrix-supported subangular limonite-clay clast breccia to 123.1, with the end of the unit being HU (probably intensely clay altered BtS). Unit averages 1% limonite and 2% hematite, both disseminated.
		122.2 - 123.2	Replaces Matrix Strong Silicification	Pervasive Strong Clay
123.2 - 124.8	BtS	band	Fol-mod	Zone shoulder. Biotite schist with weak silica after mafics and moderate clay after feldspar porphyroblasts, similar to second previous. Limonite averages 0.5% and decreases down-hole.
		123.2 - 124.8	Replaces Mafics Weak Silicification	Replaces Felsics Moderate Clay
124.8 - 134.3	MxF	band	Fol-mod	Felsic dominant gneiss, fresh and barren, with weak silica after fs and weak chlorite after bt. Trace fracture controlled limonite.
		124.8 - 134.3	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite
134.3 - 137.8	MxF	band	Fol-mod	Two zones, with unmineralized felsic dominant gneiss, 135.45-136.9m. Unit has moderate to strong QSP alteration in mineralized intervals, which are characterized by transitional oxidation. Sooty pyrite occurs as blebs and veins (av. 0.25%) and oxidized to limonite<hematite (av. 0.25% and 0.5%, respectively).
		134.3 - 135.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		135.5 - 136.9	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite
		136.9 - 137.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
137.8 - 138.2	IV	phyr		Plagioclase porphyritic andesite with trace fracture controlled limonite. Upper and lower contacts appear preserved, however lower contact exhibits minor crackle brecciation and contact // limonite.
		137.8 - 138.2	Pervasive Weak Silicification	Patchy Weak Sericitisation
138.2 - 141.2	MxM	band	Fol-mod	Barren mafic dominant gneiss, with moderate silica and weak sericite after felsic bands. Limonite is dominantly fracture controlled and averages 0.25%
		138.2 - 141.2	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Sericitisation
141.2 - 143.9	FG	band	Fol-mod	Zone. Probable former felsic gneiss, exhibits moderate silica and clay, both disseminated, with disseminated 1% limonite and 2% hematite.
		141.2 - 143.9	Pervasive Moderate Silicification	Pervasive Moderate Clay
143.9 - 144.1	YC	bxm		Small interval of intensely silicified clast-supported clay matrix breccia with 0.25% disseminated brassy pyrite that has mostly oxidized, however most of the unit is fresh (except for contacts). Obscure upper contact but lower contact is perpendicular to CA. Trace fracture controlled limonite.
		143.9 - 144.1	Replaces Clasts Intense Silicification	Replaces Matrix Strong Clay
144.1 - 147.8	MxF	band	Fol-wk	Zone. Felsic dominant gneiss similar to second previous unit, with 1% disseminated limonite and 2% hematite. Moderate silica and weak clay, both pervasive. Mineralization tapers off at 146.3m.
		144.1 - 147.8	Pervasive Moderate Silicification	Pervasive Weak Clay
147.8 - 156.7	MxF	silc	Fol-mod	Felsic dominant gneiss with strong silica and weak to locally moderate sericite associated with weakly disseminated to vein-hosted sooty pyrite (av. 0.2%). Limonite is dominantly bleeding out of fractures (vein halo) but is locally disseminated (av. 0.2%)
		147.8 - 156.7	Pervasive Strong Silicification	Replaces Felsics Moderate Sericitisation

156.7 - 158.0	BtS	mass	Fol-wk	Strong zone. Moderately clay altered biotite schist with weak silica. 2% disseminated limonite and 1% vein halo hematite. Ambiguous contact with next unit.
158.0 - 160.2	HU	mass	Fol-mod	Zone. Hydrothermally altered unrecognizable unit, like former biotite schist. Unit is intensely clay altered at start and end with intense silica and a single sooty pyrite vein in middle (158.7). Most limonite and hematite is present in second half of unit, and averages 1% each (disseminated).
160.2 - 162.0	BtS	band	Fol-mod	Zone. Biotite schist (foliation visible again) with moderate pervasive clay and locally strong silica. 1% disseminated limonite with 1% vein halo hematite.
162.0 - 178.1	MxF	band	Fol-mod	Felsic dominant gneiss with locally intense clay over uncommon 30cm intervals (not associated with limonite). Strong silica and weak sericite after felic bands associated with av. 0.25% limonite, however only weak chlorite after mafic bands.
178.1 - 181.4	FG	band	Fol-wk	Strong zone. Felsic dominant gneiss exhibiting moderate pervasive silica and clay with 1% limonite and 2% hematite, both disseminated. Low-angle clay-limonite matrix-supported intensely silicified rounded coarse grained clast breccia vein at 179.4m, a high angle clay-limonite matrix-supported intensely silicified angular fine grained clast breccia at 179.75m, and a low angle limonite matrix-supported strongly silicified subangular medium grained clast breccia at 179.95m.
181.4 - 186.7	MxF	band	Fol-mod	Barren felsic dominant gneiss with strong silica after felsic bands and moderate chlorite after mafic bands. Trace fracture controlled limonite.
186.7 - 191.0	MxM	fgrn	Fol-str	Barren and fresh mafic dominant gneiss (mostly biotite schist with 10cm bands of felsic gneiss). Trace brassy metamorphic pyrite.
191.0 - 195.7	MxF	band	Fol-wk	Barren felsic dominant gneiss, with strong silica after felsics and weak chlorite after mafics. Trace fracture controlled limonite.
195.7 - 199.2	FG	augn	Fol-wk	Felsic gneiss exhibiting strong pervasive silica and weak fracture controlled clay with associated trace limonite in common fractures.
199.2 - 215.0	MxM	band	Fol-mod	Fresh and barren mafic dominant gneiss with ~35% felsic bands which contain rare augens. Trace fracture controlled limonite and brassy metamorphic pyrite.
215.0 - 216.4	MxM	band	Fol-wk	Zone. Mafic dominant gneiss with 2 breccia horizons: 215.25 (upper contact preserved), a medium grained subangular moderately silicified clast supported breccia with limonite-clay matrix (3cm wide), and a limonite clay matrix supported medium grained subangular intensely silicified clast breccia (2cm wide). Moderate pervasive silica and clay, with 0.5% each limonite and hematite, both disseminated.
216.4 - 254.0	MxF	silc	Fol-mod	Felsic dominant gneiss with strong silica after feldspar and weak chlorite after mafics, with trace fracture controlled limonite. 0.2% disseminated limonite from 236-241.

Drill Log: CFD0296

Easting	583878.51	Hole Length	134 m	Prospect	Supremo T1-2	Drill Started	Jun 08, 2013	Comment
Northing	6974251.3	Azimuth	276 °	Target	T2	Drill Completed	Jun 09, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1279.76 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 10.0	MxF	silc	Fol-mod	Former felsic dominant gneiss with strong QS alteration which is generally pervasive. Local weak clay after fs porphyroblasts. Limonite is fracture controlled at the beginning and grades into disseminated by 8m, and averages 0.25%.
		6.0 - 10.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
10.0 - 19.5	MxF	band	Fol-wk	Weak zone. Felsic dominant gneiss with moderate pervasive silica and weak clay after feldspar. Clay is locally strong over 1m intervals. 0.5% disseminated limonite with trace hematite.
		10.0 - 19.5	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
19.5 - 24.2	FG	silc	Fol-wk	Strongly QS altered feldspar gneiss with local weak clay after feldspar. Limonite occurs locally and averages 0.25%.
		19.5 - 24.2	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
24.2 - 31.0	MxF	silc	Fol-wk	Strongly silicified felsic dominant gneiss, pervasively bleached. Limonite is weakly disseminated throughout but replaces feldspars (along with clay) in mafic bands.
		24.2 - 31.0	Pervasive Strong Silicification	Replaces Felsics Weak Clay
31.0 - 36.0	MxM	band	Fol-mod	Biotite schist with one band of felsic gneiss, exhibits moderate chlorite and trace fracture controlled limonite. Upper contact is strongly clay-altered but not mineralized.
		31.0 - 36.0	Replaces Mafics Moderate Chlorite	
36.0 - 38.1	MxF	band	Fol-wk	Felsic dominant gneiss with moderate silica and weak fracture-controlled clay associated with trace limonite.
		36.0 - 38.1	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
38.1 - 39.3	FG		Fol-wk	Weak zone. Moderately silicified felsic gneiss with moderate fracture controlled clay associated with 0.5% limonite and 1% hematite.
		38.1 - 39.3	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay
39.3 - 45.9	FG	augn	Fol-mod	Felsic augen gneiss, moderate silica with local moderate clay after augens, av. 0.25% fracture controlled limonite which increases from 44.7 to EOU.
		39.3 - 45.9	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
45.9 - 47.1	HU	mass		Strong zone. Hydrothermally altered unrecognizable unit. Interval begins with 10cm of breccia (same as next unit), is moderately and pervasively silica and clay altered, with a weakly oxidized window revealing moderate pervasive sericite. Some rare foliation is still visible. 1% limonite and 3% hematite, both disseminated.
		45.9 - 47.1	Pervasive Moderate Silicification	Pervasive Moderate Clay Patchy Moderate Sericitisation
47.1 - 49.3	YC	bxm		Strong zone. Clay-sericite matrix supported fine to medium grained subangular intensely silicified clast breccia with 1% limonite and 2% hematite, both disseminated. Matrix is locally pervasively and intensely silicified over 20cm.
		47.1 - 49.3	Replaces Clasts Intense Silicification	Replaces Matrix Intense Clay Replaces Matrix Moderate Sericitisation
49.3 - 50.7	BtS	mass	Fol-wk	Interzone. Biotite schist with moderate chlorite after mafics and clay after felsics, with 0.5% limonite mostly concentrated from 49.4-49.6m. trace fracture controlled hematite.
		49.3 - 50.7	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Clay
50.7 - 54.4	BtS		Fol-wk	Zone. Biotite schist with moderate to strong pervasive clay alteration becoming intense by 53.7m. 2% disseminated limonite with trace fracture controlled hematite.
		50.7 - 54.4	Pervasive Strong Clay	

54.4 - 56.4	HU	mass		Strong zone. Hydrothermally altered unrecognizable rock mixed with some recognizable biotite schist. Unit varies from weak to unconsolidated and is intensely clay-altered with 2% limonite and 3% hematite, both disseminated.
		54.4 - 56.4	Pervasive Intense Clay	
56.4 - 60.1	BtS		Fol-wk	Zone. Biotite schist now more dominant than hydrothermally altered unrecognizable. Unoxidized HU reveals the presence intense sericite, while the BtS exhibits strong sericite/clay. 1% disseminated limonite to 58.9, then with 2% hematite to EOU.
		56.4 - 60.1	Pervasive Strong Sericitisation	
60.1 - 62.0	BtS	band	Fol-wk	Patchy zone. Biotite schist with moderate sericite and 10.25% limonite to 61m, then strong sericite and 2% limonite to EOU. Av. 1% limonite, disseminated.
		60.1 - 62.0	Pervasive Moderate Sericitisation	
62.0 - 68.7	MxF		Fol-wk	Weak zone/shoulder. Strongly silicified felsic dominant gneiss, rare unoxidized windows exhibit weak pervasiv sericite, with av. 0.25% limonite and 0.5% hematite (both disseminated). Unconsolidated clay+manganese oxide from 65.9-66.
		62.0 - 68.7	Pervasive Strong Silicification	Pervasive Weak Sericitisation
68.7 - 69.7	YC	bxi		Weak zone. Very coarse grained angular intensely silicified clast supported clay-limonite matrix crackle breccia. Many of the breccia clasts exhibit relic foliation, there are many vugs between clasts. Av. 0.5% limonite in matrix and fractures. Preserved lower contact.
		68.7 - 69.7	Pervasive Intense Silicification	Pervasive Weak Sericitisation
69.7 - 71.4	FG	mass	Fol-wk	Weak zone. Strongly silicified felsic gneiss with 0.25% disseminated limonite and 0.25% vein halo hematite.
		69.7 - 71.4	Pervasive Strong Silicification	
71.4 - 73.8	FG	mass	Fol-mod	Weak zone. Felsic gneiss exhibiting moderate pervasive silica and moderate clay after feldspar. 0.5% disseminated limonite.
		71.4 - 76.2	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay
73.8 - 76.2	FG	augn	Fol-mod	Felsic gneiss similar to previous unit but with only trace disseminated limonite.
76.2 - 92.1	MxF	band	Fol-wk	Zone. Felsic dominant gneiss exhibiting moderate silica and sericite after felsic bands (mafic bands relatively unaffected). Unit is characterized by 1-20cm bands of hematite at various angles (appear to be centered on fractures) which averages 1%, while limonite averages a mere 0.2% and is disseminated. Local weak fracture controlled clay, leading to 1cm-thick clay-limonite matrix crackle breccias at 83.85 and 85.85.
		76.2 - 92.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Fracture Controlled Weak Clay
92.1 - 94.0	MxM	band	Fol-mod	Mafic dominant gneiss, with weak chlorite after mafic bands and strong silica after felsic bands, 0.1% fracture controlled limonite.
		92.1 - 94.0	Replaces Mafics Weak Chlorite	Replaces Felsics Moderate Silicification
94.0 - 100.5	MxF	augn	Fol-mod	Weak zone. Felsic dominant gneiss with 0.25% disseminated limonite and 0.5% vein halo hematite. Unit is moderately and pervasively silicified with weak fracture controlled clay.
		94.0 - 100.5	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
100.5 - 102.7	FC	phyr		Zone. Dacite/former andesite dike, strongly fractured from SOU-102m, with 1% limonite and 0.5% hematite, both disseminated. Unit has weak pervasive clay.
		100.5 - 102.7	Pervasive Weak Clay	
102.7 - 127.7	MxF	silc	Fol-wk	Weak zone. Dominantly felsic gneiss with rare biotite schist bands. Unit is strongly silicified and exhibits av. 0.25% each limonite and hematite. Patches of disseminated sooty and brassy pyrite observed from 116.6 to EOU. Veins of quartz>>sooty pyrite from 123-124.5m, one of which is CA //.
		102.7 - 127.7	Replaces Felsics Strong Silicification	
127.7 - 134.0	MxF	band	Fol-mod	Felsic augen gneiss with two 20 and 30cm bands of biotite schist. Moderate silica in felsic bands, trace fracture controlled limonite and disseminated brassy metamorphic pyrite.
		127.7 - 134.0	Replaces Felsics Moderate Silicification	

Drill Log: CFD0297

Easting	583882.23	Hole Length	185.72 m	Prospect	Supremo T1-2	Drill Started	Jun 09, 2013	Comment
Northing	6974447.05	Azimuth	275 °	Target	T1	Drill Completed	Jun 10, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1293.37 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.3	OVB			
6.3 - 8.7	MxM	band	Fol-mod	Mafic dominant mixed gneiss. Felsic bands are strongly silicified, mafic bands are moderately to strongly clay/chlorite altered and are falling apart.
		6.3 - 8.7	Replaces Felsics Strong Silicification	Replaces Mafics Strong Chlorite
8.7 - 30.9	FG	augn	Fol-mod	Felsic augen gneiss with 2 biotite schist bands from 24.84-25.4m. Unit is generally pervasively oxidized and is characterized by fracture controlled limonite with some disseminated limonite (av. 0.25%), moderate pervasive silica, and local clay after fs augens.
		8.7 - 30.9	Pervasive Moderate Silicification	Replaces Clasts Weak Clay
30.9 - 41.1	IV	mass		Zone. Former andesite dike (bottom contact reveals green colouration and is preserved), pervasive weak silica and clay alteration. Original textures are destroyed by oxidation, and limonite averages 1% (disseminated) with hematite being dominantly fracture controlled (0.25%).
		30.9 - 41.1	Pervasive Weak Silicification	Pervasive Weak Clay
41.1 - 46.8	MxF	augn	Fol-mod	Felsic augen gneiss with uncommon biotite schist bands exhibiting moderate pervasive silica and locally weak clay after augens. Foliation becomes contorted/folded from SOU-42m, with the hinge exposed on the core surface. Trace fracture controlled limonite.
		41.1 - 46.8	Pervasive Moderate Silicification	Replaces Clasts Weak Clay
46.8 - 47.9	MV	mass		Bull quartz vein with shallow contacts and trace fracture controlled limonite.
		46.8 - 47.9	Pervasive Intense Silicification	
47.9 - 52.4	FG	augn	Fol-mod	Moderately silicified felsic augen gneiss with trace fracture controlled limonite. Last 20cm of unit becomes red with hematite staining - is alteration front leading into next unit.
		47.9 - 52.4	Pervasive Moderate Silicification	
52.4 - 73.6	FG	band		Felsic gneiss, with moderate pervasive silica and weak clay after feldspar. Common near CA // fractures with associated limonite, and one stepped tentional fracture with quartz-limonite infill at 58.25m. Most biotite converted to sericite. 0.25% disseminated limonite.
		52.4 - 73.6	Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation Replaces Felsics Weak Clay
73.6 - 75.9	IV	phyr		Zone. Plagioclase-amphibole-porphyritic andesite, is relatively fresh to 74m, then becomes pervasively oxidized and mineralized by 74.8m. The top part exhibits 0.2% vein halo hematite and weak to strong pervasive clay alteration, whereas the bottom part exhibits 1% limonite and 3% hematite, both disseminated, with moderate to strong clay and weak pervasive silica. Contact is 1cm clay-limonite matrix-supported strongly silicified clast breccia.
		73.6 - 74.8	Patchy Moderate Clay	Pervasive Weak Silicification
		74.8 - 75.9	Pervasive Moderate Clay	Pervasive Weak Silicification
75.9 - 97.4	MxF	augn		Weak zone. Felsic dominant gneiss with uncommon augens, moderate pervasive silica with locally intense clay - numerous clay-limonite matrix-supported m.g.-c.g. angular FG clast breccias: 77.5, 78.65, 79.55, 80.75, 80.95, 81.9. Brecciation and associated fracture controlled clay gone by ~86m. 0.5% disseminated limonite.
		75.9 - 86.0	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay
		86.0 - 97.4	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
97.4 - 99.2	BtS	mgrn	Fol-wk	Relatively fresh biotite schist with trace fracture controlled limonite and brassy metamorphic pyrite.
		97.4 - 99.2	Replaces Mafics Weak Chlorite	

99.2 - 105.0	MxF	band	Fol-wk	Zone. Felsic dominant gneiss exhibiting moderate pervasive silica and sericite after biotite. One unoxidized window at 102.55m exhibits semi-massive sooty pyrite (0.2%) whereas the rest of the unit contains 0.5% limonite and 2% hematite.	
99.2 - 105.0			Pervasive Moderate Silicification	Replaces Mafics Weak Sericitisation	
105.0 - 105.2	YO	bxm		Zone. Small interval of unique breccia, is chocolate brown, cherty silica-hematite matrix supported angular m.g. moderately silicified clast breccia with sharp preserved up- and down-hole contacts. 3% disseminated hematite with trace limonite.	
105.0 - 105.2			Replaces Mafics Strong Silicification	Replaces Clasts Moderate Silicification	
105.2 - 111.0	MxF	mgrn	Fol-mod	Zone. Moderately silicified felsic dominant gneiss with weak pervasive sericite: unoxidized windows reveal original moderate QSP alteration, with sooty py present at 106m. 0.5% disseminated limonite and 1% vein halo hematite.	
105.2 - 111.0			Pervasive Moderate Silicification	Pervasive Weak Sericitisation	
111.0 - 119.6	MxF	band	Fol-wk	Weak zone. Felsic dominant gneiss. Mafic bands are relatively fresh while felsic bands exhibit moderate to strong silica, weak clay, and 0.75% disseminated limonite (av. 0.5%).	
111.0 - 119.6			Replaces Felsics Moderate Silicification	Replaces Felsics Weak Clay	
119.6 - 124.6	BtS	mgrn	Fol-wk	Generally fresh biotite schist with weak chlorite and trace fracture controlled limonite. Granitic dikes 120.18-120.4, 120.7-120.85. Last 50cm of unit exhibit increasing limonite.	
119.6 - 124.6			Replaces Mafics Weak Chlorite		
124.6 - 129.5	MxF	silc	Fol-wk	Zone shoulder. Strongly to intensely silicified felsic dominant gneiss with av. 0.5% disseminated limonite.	
124.6 - 129.5			Pervasive Strong Silicification		
129.5 - 130.5	YC	bxm		Strong zone. Clay-silica-limonite matrix supported f.g. to c.g. subangular intensely silicified heterolithic clast breccia. Rare clasts are replaced by clay and hematite. 1% limonite in matrix, 2% hematite in fractures, locally clasts, and locally matrix.	
129.5 - 130.5			Replaces Clasts Intense Silicification	Replaces Matrix Moderate Silicification	Replaces Matrix Moderate Clay
130.5 - 133.5	BtS	silc	Fol-wk	Zone. Former biotite schist, locally unrecognizable, with moderate silica and strong sericite to 132.7m, and strong to intense silica with weak sericite to EOU. First half of unit contains 2% disseminated limonite with 0.2% fracture controlled hematite, and second half exhibits just 0.2% fracture controlled hematite.	
130.5 - 132.7			Pervasive Moderate Silicification	Pervasive Strong Sericitisation	
132.7 - 133.5			Pervasive Strong Silicification	Pervasive Weak Sericitisation	
133.5 - 134.9	BtS	fgrn	Fol-wk	Zone. Biotite schist with strong to intense sericite and weak to moderate silica. Limonite is scarce (0.25% fracture controlled) whereas hematite is vein-halo to 134.45 (0.5%) and 5% to EOU.	
133.5 - 134.5			Pervasive Weak Silicification	Pervasive Intense Sericitisation	
134.5 - 134.9			Pervasive Moderate Silicification	Fracture Controlled Weak Clay	
134.9 - 136.4	MxF	band	Fol-mod	Zone shoulder. Strong to intensely silicified felsic dominant gneiss with trace fracture controlled limonite and 0.25% disseminated hematite.	
134.9 - 136.4			Pervasive Intense Silicification	Fracture Controlled Weak Clay	
136.4 - 148.2	MxF	band	Fol-wk	Felsic dominant gneiss, with moderate silica after felsic bands associated with weak clay after feldspar and 0.2% disseminated limonite. Smoke from previous zone.	
136.4 - 148.2			Replaces Felsics Moderate Silicification	Replaces Clasts Weak Clay	
148.2 - 148.8	SZ	bclst	Fol-mod	Shear zone, defined by porphyroclasts of possibly former feldspar (now clay+limonite) with strong sericite after biotite, and numerous and thick foliation // bull quartz veins.	
148.2 - 148.8			Replaces Mafics Strong Sericitisation	Replaces Clasts Strong Clay	
148.8 - 155.2	FG	augn	Fol-mod	Last gasp of zone smoke. Moderately silicified felsic gneiss with weak textural destruction and limonite bleeding in from fractures (0.2%).	
148.8 - 155.2			Replaces Felsics Moderate Silicification		
155.2 - 169.3	MxM	augn	Fol-mod	Fresh mafic dominant gneiss with weak to moderate chlorite after biotite and moderate silica in felsic bands. Trace fracture controlled limonite.	
155.2 - 185.7			Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite	
169.3 - 185.7	MxF	augn	Fol-mod	Fresh felsic dominant gneiss with same alteration suite as previous unit, just more felsic material.	

Drill Log: CFD0298

Easting	583960.11	Hole Length	215 m	Prospect	Supremo T1-2	Drill Started	Jun 11, 2013	Comment
Northing	6974549.27	Azimuth	270 °	Target	T1	Drill Completed	Jun 13, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1278.61 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.7	OVb			
6.7 - 7.9	YC	bxm		Zone. Clay-limonite matrix supported f.g.-c.g. subrounded intensely silicified clast breccia, barely consolidated. 0.75% disseminated limonite.
		6.7 - 7.9	Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
7.9 - 8.9	HU	silc		Zone. Hydrothermally altered unrecognizable unit, was likely a former schist or gneiss (foliation visible at 8.05m). Intense clay and intense local silica, 0.75% disseminated limonite.
		7.9 - 8.9	Pervasive Intense Clay	Patchy Intense Silicification
8.9 - 10.5	YC	bxl		Zone. Unconsolidated clay-limonite matrix supported m.g.-c.g. subangular intensely silicified clast breccia with 1.5% disseminated limonite (in matrix).
		8.9 - 10.5	Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
10.5 - 12.6	FG	silc		Zone. Former felsic gneiss (?), strongly silica and clay altered, unconsolidated breccia ~11m. Unit contains 1% disseminated limonite with av. 0.25% hematite that occurs as local disseminations but appears related to fractures.
		10.5 - 12.6	Pervasive Strong Clay	Pervasive Strong Silicification
12.6 - 18.6	HU	mass		Zone. Hydrothermally altered unrecognizable unit - is intensely and pervasively clay altered, and is locally unconsolidated over 5-10cm. Similar oxide content to previous unit, but with significantly more hematite (1.5% limonite, 1% hematite).
		12.6 - 18.6	Pervasive Intense Clay	Patchy Moderate Silicification
18.6 - 20.9	HU	silc		Zone. Also hydrothermally unrecognizable unit, but is intensely silicified. Silica-hematite matrix supported m.g. angular intensely silicified clast breccia running near // to CA 19.23-19.75m. 1% disseminated limonite with 0.5% hematite.
		18.6 - 20.9	Pervasive Intense Silicification	Fracture Controlled Weak Clay
20.9 - 25.9	HU	mass		Strong zone. Hydrothermally altered unrecognizable unit, is intensely clay altered. With locally intense silica (likely former qtz-veins?). Unit locally exhibits foliation over 10-20cm intervals. 2% limonite and 3% hematite, both disseminated.
		20.9 - 25.9	Pervasive Intense Clay	Patchy Moderate Silicification
25.9 - 34.4	YC	bxm		Zone. Clay-limonite matrix supported f.g.-c.g. strongly silicified clast breccia. Much of this unit exhibits a CA // contact with previous unit. Increased hematite/realgar from 29.9-30.8. Av. 1.5% limonite and 0.5% hematite (disseminated in matrix).
		25.9 - 34.4	Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification
34.4 - 38.1	YC	bxm		Strong zone. Start of unit to 35.5 is unconsolidated and what pieces are preserved exhibit limonite matrix-supported m.g. intensely silicified clast breccia. From 35.5-36.3, a bull quartz vein cuts // to CA, and the spatially associated(?) breccia is a silica-limonite matrix supported c.g. angular intensely silicified clast breccia. Some of the clasts are lensoidal in shape, perhaps because they were flaked off the quartz vein. Afterwards, the bull quartz vein (other margin) is associated with weak to unconsolidated clay-limonite matrix supported f.g. subangular intensely silicified clast breccia. Unit is ~50% bull quartz from 37.2-EOU. Av. 3% limonite and 1% hematite, in matrix.
		34.4 - 38.1	Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
38.1 - 41.1	HU	mass		Zone. Hydrothermally altered unrecognizable unit, is a former foliated rock (unknown what kind), cut by common clay-limonite matrix supported angular m.g. intensely silicified clast breccias // to CA. Top 1m is unconsolidated, the rest of the unit is quite weak. Av. 1% limonite and 1.5% hematite.
		38.1 - 41.1	Pervasive Intense Clay	Patchy Moderate Silicification

41.1 - 47.0	MV	silc	Strongly fractured bull quartz vein with thin intervals (entrained wall-rock?) of former foliated country rock, now intensely clay altered. 0.25% fracture controlled limonite.	
41.1 - 47.0			Pervasive Intense Silicification	Patchy Moderate Clay
47.0 - 47.8	YC	bxm	Weak zone. Clay-limonite matrix supported m.g-c.g. subangular intensely silicified clast breccia. Margins are ~45 degrees to CA: upper is in contact with HU (relict foliation visible) and lower margin is in contact with another bull quartz vein, suggesting this breccia is later than the quartz vein. 0.5% disseminated limonite.	
47.0 - 47.8			Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
47.8 - 49.2	MV	silc	Strongly fractured bull quartz vein, similar to second previous unit, with limonite>clay on fractures (0.25%, weak).	
47.8 - 49.2			Pervasive Intense Silicification	Fracture Controlled Weak Clay
49.2 - 50.2	YO	bxi	Zone. Small interval of clay-limonite matrix supported f.g-c.g subangular strongly silicified clast breccia (foliation still visible) with 0.5% limonite. Unit includes two 20cm intervals of HU.	
49.2 - 50.2			Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification
50.2 - 54.3	MxF	lamn	Zone. Former felsic dominant gneiss(?), strongly and pervasively silicified and clay altered. Contact with next unit fairly arbitrary as it is CA //. 0.5% limonite and 1% hematite, both disseminated.	
50.2 - 54.3			Pervasive Strong Silicification	Pervasive Strong Clay
54.3 - 60.9	YC	bxm	Zone. Clay-limonite-hematite matrix supported f.g-c.g. subrounded intensely silicified clast breccia. Clasts range from sub-mm up to 2cm across. 2% limonite with av. trace hematite concentrated from 56.5-57 and 58.5-59m.	
54.3 - 60.9			Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
60.9 - 77.8	MxF	lamn	Zone. Felsic dominant gneiss(?), strong pervasive silica, weak pervasive to locally intense clay associated with strong fracturing. Limonite is disseminated throughout and hematite is disseminated over 1-2m intervals (av. 1% each).	
60.9 - 77.8			Pervasive Strong Silicification	Fracture Controlled Moderate Clay
77.8 - 80.0	MxF	band	Barren felsic dominant gneiss. Mafic bands are moderately to strongly and pervasively chlorite altered, whereas felsic bands are moderately clay altered. Trace fracture controlled limonite.	
77.8 - 80.0			Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite
80.0 - 86.5	MxF	silc	Weak zone. Strongly silicified felsic dominant gneiss(?) with 0.5% disseminated limonite. Near CA // limonite-clay matrix m.g. angular intensely silicified clast breccia from 80.7-81.4m.	
80.0 - 86.5			Pervasive Strong Silicification	Fracture Controlled Weak Clay
86.5 - 94.0	MxF	band	Felsic dominant gneiss, with weak pervasive silica and clay alteration, and av. 0.25% fracture controlled limonite (grades to 0.75% disseminated over 10-40cm intervals).	
86.5 - 94.0			Pervasive Weak Silicification	Pervasive Weak Clay
94.0 - 134.5	MxF	band	Long interval of felsic dominant gneiss, with moderate silica after felsic bands and weak chlorite and epidote in mafic bands. Limonite is generally fracture controlled (trace) but can flare up to 0.5% over 1m. Bleaching and fracture controlled clay from 114.35-115.55m	
94.0 - 134.5			Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
134.5 - 148.4	MxF	augn	Strongly silicified and weakly sericitized felsic dominant gneiss with uncommon preserved augens. Unit begins with a CA // quartz vein that gains a chalcedonic "upper" selvage by 137 and disappears by 138.8, vein contains mm-sized brassy pyrite grains. Limonite is spatially associated with fractures and averages 0.1%. Trace alt-related brassy metamorphic pyrite, and patches of sooty pyrite are observed starting at 146.3 (also trace).	
134.5 - 148.4			Pervasive Strong Silicification	Pervasive Weak Sericitisation
148.4 - 150.4	IV	phyr	Fine amphibole porphyritic andesite, with preserved upper contact. Unit is almost fresh to 149.2, then becomes progressively more altered and oxidized. Last 30-40cm are unrecognizable with 1% each limonite and hematite, but exhibits strong clay alteration compared to next unit (strong silica). Trace fracture controlled limonite and hematite.	
148.4 - 149.3			Fracture Controlled Weak Sericitisation	
149.3 - 149.9			Pervasive Weak Silicification	Fracture Controlled Weak Sericitisation
149.9 - 150.4			Pervasive Strong Clay	

150.4 - 163.0	MxF	augn	Zone. Felsic dominant gneiss with preserved augens, strong pervasive silica and weak clay. Primary oxide is hematite present as nearly a stockwork of microfractures (av. 0.75%) which grades to 3% disseminated in last 45cm of unit. Common near CA // chalcedony veins.	
		150.4 - 163.0	Pervasive Strong Silicification	Pervasive Weak Clay
163.0 - 193.0	MxF	lamn	Weak zone. Pervasively oxidized strongly silicified felsic dominant gneiss with weak fracture controlled clay. Limonite averages 0.25% and is disseminated, and hematite occurs locally as bands and vein halos as well as in microveinlets and averages 0.25%. Unoxidized windows starting at 177.5 exhibit blebby sooty pyrite and disseminated brassy alt-related pyrite. Common near CA // fractures. Small breccias at beginning of unit and and 173.6m	
		163.0 - 193.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay
193.0 - 215.0	MxF	band	Felsic dominant gneiss, with moderate to strong silica in felsic bands and weak to absent chlorite in mafic bands. Limonite is disseminated in felsic bands but generally replaces feldspar porphyroblasts in mafic bands (if present). Moderate QS alteration from 210.8-211 associated with blebby and vein-hosted sooty pyrite. Av. 0.25% disseminated limonite.	
		193.0 - 215.0	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0299

Easting	584080.08	Hole Length	284 m	Prospect	Supremo T1-2	Drill Started	Jun 13, 2013	Comment
Northing	6974747.69	Azimuth	270 °	Target	T1	Drill Completed	Jun 15, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1252.86 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.6	OVb			
6.6 - 17.7	MxF	lamn	Fol-wk	Bleached felsic dominant gneiss with uncommon augens, strongly silicified with weak clay after feldspar. Trace disseminated limonite and 0.5% vein halo hematite. C.g. quartz vein parallel CA runs through most of the unit.
		6.6 - 17.7	Pervasive Strong Silicification	Replaces Felsics Weak Clay
17.7 - 24.4	FG	augn	Fol-wk	Felsic gneiss, similar to previous unit but with only patches of bleaching and associated vein halo hematite (0.15%). Moderate pervasive silica and patchy weak clay after feldspar.
		17.7 - 24.4	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
24.4 - 30.3	MxF	band	Fol-wk	Relatively fresh felsic dominant gneiss, with moderate silica in felsic bands and moderate chlorite in mafic bands. Trace fracture controlled limonite.
		24.4 - 30.3	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
30.3 - 38.1	MxF	lamn	Fol-wk	Weak zone. Pervasively bleached and oxidized felsic dominant gneiss with rare preserved augens. Moderate to strong pervasive silica and weak pervasive clay. Unit contains 0.25% disseminated limonite with 0.15% vein halo hematite.
		30.3 - 38.1	Pervasive Moderate Silicification	Pervasive Weak Clay
38.1 - 50.6	FG	augn	Fol-wk	Felsic augen gneiss, similar to previous unit but with patches of less oxidized and altered rock. Moderate pervasive silica and weak clay after feldspar. Av. 0.15% disseminated limonite and 0.15% vein halo hematite.
		38.1 - 54.4	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
50.6 - 54.4	MxF	augn	Fol-wk	Weak zone. Pervasively oxidized felsic dominant gneiss with 0.25% disseminated limonite and av. 0.25% hematite which occurs as both vein halos and as disseminations. Most of the unit is moderately and pervasively silicified with weak clay after feldspar.
54.4 - 62.5	MxM	band	Fol-mod	Grungy mafic dominant gneiss, with moderate silica after felsic bands and weak chlorite and sericite after mafic bands. Small interval of 1% disseminated limonite from 58-58.36, but av. trace fracture controlled.
		54.4 - 62.5	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite Replaces Mafics Weak Sericitisation
62.5 - 79.9	FG	augn	Fol-mod	Generally fresh and barren felsic augen gneiss. Rare 50-80cm intervals of 0.5-1% disseminated limonite (av. 0.1%) at 68.4m and 70.2m. Moderate pervasive silica.
		62.5 - 79.9	Pervasive Moderate Silicification	
79.9 - 83.8	MxF	band	Fol-mod	Fresh barren mafic dominant gneiss, with moderate to strong silica after felsic bands and weak chlorite in mafic bands. Unit is cut by shallowly dipping quartz vein from 82.1-82.8m that contains a 3cm clot of metallic hematite. Trace fracture controlled limonite.
		79.9 - 83.8	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
83.8 - 96.5	MxF	band	Fol-wk	Weak zone. Strongly to locally intensely silicified felsic dominant gneiss with 0.25% disseminated each limonite and hematite. Local weak clay after feldspar. Former disseminated alt-related pyrite grains observed from 91-92.2m, now completely oxidized.
		83.8 - 96.5	Pervasive Strong Silicification	Replaces Felsics Weak Clay
96.5 - 142.7	FG	augn	Fol-wk	Generally fresh and barren felsic gneiss. Trace fracture controlled limonite. Local 1-3m intervals of 0.5% disseminated limonite at 124.15-125.15, 131-133.55.
		96.5 - 142.7	Pervasive Moderate Silicification	
142.7 - 144.9	FG	augn	Fol-wk	Zone. Strongly silicified and weakly sericitized felsic gneiss with 0.5% disseminated limonite and 1% disseminated hematite. 1% foliation parallel sooty pyrite blebs 143.3-143.9m (av. 0.15%)
		142.7 - 144.9	Pervasive Strong Silicification	Pervasive Weak Sericitisation

144.9 - 156.7	FG	augn	Fol-mod	Felsic gneiss, moderately silicified. Small patch of sooty pyrite (av. trace) and associated limonite<hematite (each av. trace) from 150.9-151.5m. Last 2m exhibits increasing limonite (0.25%).
144.9 - 156.7			Pervasive Moderate Silicification	
156.7 - 159.5	IV	phyr		Zone. Moderately clay/sericite altered andesite dike with relict phenocrysts, but unknown what they were originally. Unit exhibits 0.25% disseminated limonite, strong to intense fracturing associated with 0.5% each limonite and hematite and weak clay.
156.7 - 159.5			Pervasive Moderate Clay	Pervasive Weak Silicification
159.5 - 160.5	FG	augn	Fol-wk	Zone. Felsic gneiss, strongly fractured associated with 1% each limonite and hematite. Weak fracture controlled clay.
159.5 - 160.5			Pervasive Strong Silicification	Fracture Controlled Weak Clay
160.5 - 161.0	YO	bxi		Zone. Unconsolidated clay-hematite-limonite matrix-supported coarse grained felsic gneiss clast breccia. 1% limonite and 2% hematite in matrix.
160.5 - 161.0			Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification
161.0 - 162.8	IV	phyr		Zone. Similar mineralized andesite dike to third previous unit. Limonite is 0.5% disseminated and 0.5% fracture controlled, associated with 1% hematite and weak clay. Phenocrysts appear to have once been amphibole.
161.0 - 162.8			Pervasive Moderate Clay	Pervasive Weak Silicification
162.8 - 184.9	MxF	lamn	Fol-wk	Weak zone. Felsic dominant gneiss exhibiting moderate to strong pervasive silica and moderate to strong sericite after biotite. Av. 0.5% disseminated limonite with local hematite grading up to 2% over 20cm (av. 0.1%) associated with the higher XRF hits.
162.8 - 184.9			Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation Replaces Felsics Weak Clay
184.9 - 188.7	MxF	lamn	Fol-wk	Zone. Felsic dominant gneiss with moderate to strong silica and weak clay after feldspar. 0.5% disseminated limonite and av. 1% disseminated hematite.
184.9 - 188.7			Pervasive Moderate Silicification	Replaces Felsics Weak Clay
188.7 - 192.1	FG	augn	Fol-wk	Zone shoulder. Felsic dominant gneiss with av. 0.25% limonite. Limonite nearly absent from 189-190. Oxidized pyrite at 191.65.
188.7 - 192.1			Pervasive Moderate Silicification	Fracture Controlled Weak Clay
192.1 - 221.8	MxF	augn	Fol-wk	Felsic dominant gneiss with moderate silica after felsic bands and weak to moderate chlorite after mafic bands. Common fracture controlled clay associated with moderate pervasive clay 197-200m, 204.5-205.5m, and weak fracture controlled clay from 208-213m. Trace fracture controlled limonite.
192.1 - 221.8			Pervasive Moderate Silicification	Fracture Controlled Weak Clay
221.8 - 225.4	MxF	augn	Fol-wk	Weak zone. Felsic dominant gneiss with limonite staining. Patch of finely disseminated sooty pyrite at 224.45m (with some alt-related brassy pyrite) associated with stronger oxidation (0.5% limonite and 0.25% hematite). Av. 0.5% limonite and trace hematite. Unit is cut by ~1.5cm layered limonite-carbonate vein at 224.7m
221.8 - 225.4			Pervasive Moderate Silicification	
225.4 - 242.7	MxF	band	Fol-wk	Fresh barren felsic dominant gneiss with trace fracture controlled limonite associated with weak clay.
225.4 - 242.7			Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite Fracture Controlled Weak Clay
242.7 - 245.4	FG	augn	Fol-wk	Moderately clay altered felsic gneiss, generally solid but becomes unconsolidated ~244m which seems to be the centre of the alteration and associated weak hematite (av. 0.2%)
242.7 - 245.4			Pervasive Moderate Silicification	Pervasive Moderate Clay
245.4 - 255.4	MxF	band	Fol-wk	Barren felsic dominant gneiss.
245.4 - 255.4			Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
255.4 - 262.6	MxF	augn	Fol-mod	Interval of altered felsic dominant gneiss. Most of the unit is moderately silicified which locally grades to intense over 10-20cm, and pervasive moderate clay alteration. Clay-limonite matrix supported m.g.-c.g. strongly silicified MxF clast breccia at 256.55, and a clay-hematite matrix supported f.g.-c.g. angular MxF clast breccia 257.32-257.44m. 3% limonite from 257.8-258.8, rest of unit exhibits 0.25% frac lim associated with clay.
255.4 - 262.6			Pervasive Moderate Silicification	Pervasive Moderate Clay
262.6 - 284.0	MxF	augn	Fol-wk	Generally fresh and barren felsic dominant gneiss. Moderate to strong silica after felsic bands and weak chlorite after mafic bands. Trace fracture controlled limonite, which is locally weakly disseminated over 10cm. Boudinaged(?) sooty pyrite vein (no As) from 271.9-272.1. Other veins are a mixture of chlorite+calcite, or are chalcedonic.
262.6 - 284.0			Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0300

Easting	584932.88	Hole Length	164 m	Prospect	Supremo T4-5	Drill Started	Jun 16, 2013	Comment
Northing	6973397.42	Azimuth	180 °	Target	X-structure	Drill Completed	Jun 17, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1112.79 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.6	OVb			
6.6 - 15.7	MxM	band	Fol-str	Barren mafic dominant gneiss. Felsic bands are moderately silicified while mafic bands are generally grungy and vuggy, like due to weathering of biotite/chlorite. Trace limonite in fractures, also after brassy metamorphic pyrite.
6.6 - 15.7			Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
15.7 - 21.0	BtS	band	Fol-str	Barren mafic schist. Pitting and weathering of mafics persists to ~19.5m and core becomes fresh. Similar to previous unit, metamorphic pyrite is oxidized. Weak epidote after feldspar.
15.7 - 21.0			Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
21.0 - 23.1	RU		Fol-str	Sheared and strongly fractured talc schist with weak fuchsite. No sulphides observed. Significant core loss in this unit.
21.0 - 23.1			Pervasive Intense Talc	Pervasive Weak Fuchsite
23.1 - 40.8	BtS	band	Fol-str	Mafic schist with a small interval of sheared ultramafic at 33.4-33.53m and a quartz vein breccia 34.58-34.67m associated with 1% each fracture controlled limonite and hematite (av. trace). Trace disseminated semi-oxidized brassy metamorphic pyrite.
23.1 - 40.8			Replaces Mafics Moderate Chlorite	Replaces Mafics Moderate Epidote
40.8 - 47.9	MxF	band	Fol-mod	Barren felsic dominant gneiss, with standard alteration suite (save epidote after fs in mafic bands). 0.2% disseminated oxidized pyrite.
40.8 - 47.9			Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
40.8 - 47.9				Replaces Felsics Weak Epidote
47.9 - 50.2	IV	phyr		Medium to coarse grained plagioclase-porphyritic andesite dike with strong silica after phenocrysts and strong fracture controlled clay. Both contacts are intensely clay altered.
47.9 - 50.2			Replaces Clasts Strong Silicification	Fracture Controlled Strong Clay
50.2 - 51.0	FG		Fol-wk	Weak zone. Unit begins with 5cm of limonite and clay and grades into 15cm of contact breccia between previous unit and felsic gneiss. The breccia is chaotic with what appears to be multiple events all overlapping. What few clasts are readily observable are ~3-5mm wide and angular. The matrix is made up of limonite and silica/carbonate. The proceeding felsic gneiss is strongly to intensely fractured. Av 1% fracture controlled limonite.
50.2 - 51.0			Pervasive Moderate Silicification	Fracture Controlled Weak Clay
51.0 - 61.3	BtS	band	Fol-mod	Mafic schist with a band of felsic gneiss 52.74-53.06. Unit is characterized by competent rock separated by 20-100cm intervals of strong fracturing associated with clay and limonite. Limonite veins and stockworks increase in frequency and strength towards next unit.
51.0 - 61.3			Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
51.0 - 61.3				Fracture Controlled Weak Clay
61.3 - 65.3	BtS		Fol-wk	Zone. Mafic schist, exhibits moderate to intense clay over 10-50cm intervals and local crackle brecciation with carbonate cement (similar to DD). Foliation (locally defined only by leucoxene grains which survive oxidation) is steep to CA, suggesting a fold or shear. 2% limonite and 0.5% hematite, both disseminated. Unit is cut by common limonite-carbonate veins.
61.3 - 65.3			Patchy Strong Clay	

65.3 - 70.5	BtS		Fol-str	Zone shoulder. Mafic schist characterized by strong clay/chlorite to 67m associated with strong to intense fracturing. Quartz cement crackle breccia from 66.7-67m. Fracture controlled limonite associated with clay or carbonte and crackle breccias to 68m. Fresh barren schist to 69.35, followed by pervasive carbonate associated with 10cm of 1% each disseminated limonite and hematite. This is followed by strongly clay-altered schist to 70.06m which leads to a aphanitic andesite dike with a weakly brecciated lower contact containing 0.75% disseminated limonite over 10cm, to EOU.		
		65.3 - 67.0	Pervasive Strong Clay	Pervasive Strong Chlorite		
		67.0 - 68.0	Fracture Controlled Moderate Clay			
		68.0 - 69.4	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote		
		69.4 - 70.1	Patchy Moderate Clay	Patchy Moderate Calcite		
		70.1 - 84.7	Replaces Mafics Weak Chlorite	Pervasive Weak Leucoxene		
70.5 - 84.7	BtS	band	Fol-str	Mafic schist with rare felsic gneiss bands (78-8-79.35). Weak chlorite after biotite/amphibole, weak fracture controlled clay associated with trace limonite. Trace brassy metamorphic pyrite. Foliation is back to being shallow to CA.		
84.7 - 89.0	MxF	band	Fol-wk	Felsic dominant gneiss, standard alteration suite, with moderate fracture controlled clay/sericite with rare limonite.		
		84.7 - 89.0	Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite	Fracture Controlled Moderate Clay	
89.0 - 97.8	MxM	band	Fol-str	Mafic dominant gneiss with weak chlorite after biotite, moderate epidote after feldspar in mafic bands, and strong silica in felsic bands. Weak disseminated leucoxene, trace fracture controlled limonite.		
		89.0 - 97.8	Replaces Mafics Weak Chlorite	Replaces Felsics Moderate Epidote	Replaces Felsics Moderate Silicification	
97.8 - 100.0	FG	silc	Fol-wk	Strongly QS altered felsic gneiss, with 10cm of intense clay at end of unit, in contact with next uni. Minor quartz vein breccia at 98.7 associated with chalcedonic veining. Av. 0.25% disseminated limonite.		
		97.8 - 100.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Patchy Moderate Clay	
100.0 - 100.6	IV	mass		Andesite dike with very rare former amphibole phenocrysts. Unit appears silicified without significant bleaching, however margins exhibit limonite stockworks with associated alteration. 0.2% fracture controlled limonite		
		100.0 - 100.6	Pervasive Weak Silicification	Patchy Weak Sericitisation		
100.6 - 103.9	MxF	silc	Fol-mod	Felsic dominant gneiss, similar to second previous unit, with moderat to strong silica after felsics and moderate to strong sericite after biotite in felsic bands. Alteration fades by 101.6, but fracturing and associated limonite continue to EOU.		
		100.6 - 103.9	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Sericitisation		
103.9 - 119.9	MxM	band	Fol-mod	Mafic dominant gneiss, with standard alteration suite. Additionally, unit exhibits rare 10-20cm patches of strong clay alteration. Trace fracture controlled limonite.		
		103.9 - 119.9	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite	Patchy Weak Clay	
119.9 - 124.6	BtS	lamn	Fol-str	Intensely broken up biotite schist associated with strong to intense clay and locally strong silica over 10-40cm. Limonite is dominantly fracture controlled and averages 0.25%.		
		119.9 - 124.6	Pervasive Strong Clay	Patchy Moderate Silicification		
124.6 - 127.8	BtS	sand	Fol-str	Weak zone. Intensely white clay-altered biotite schist (foliation still visible), quartz veins are the only preserved minerals, with 0.25% limonite disseminated throughout.		
		124.6 - 127.8	Pervasive Intense Clay			
127.8 - 130.1	BtS	silc	Fol-mod	Weak zone. Strongly QSP altered biotite schist, cut by local limonite stockwords and a great many sooty pyrite-chalcedony veins. Sooty pyrite is also disseminated, along with alteration-related brassy pyrite. Av. 0.5% sooty, 0.25% brassy, and trace fracture controlled limonite.		
		127.8 - 130.1	Pervasive Strong Silicification	Pervasive Strong Sericitisation		
130.1 - 138.4	BtS	silc	Fol-mod	Moderately silicified mafic dominant gneiss (pink feldspar porphyroblasts) with 20-50cm patches of strong QSP alteration (trace blebby brassy pyrite) associated with clay-limonite at their margins (av. trace py, sooty py, and 0.2% fracture controlled limonite)		
		130.1 - 138.4	Pervasive Moderate Silicification	Patchy Moderate Sericitisation	Patchy Weak Clay	
138.4 - 144.3	BtS	silc	Fol-str	Biotite schsit, as above, but with consistent moderate silicification and no patches of sericite alteration. Trace fracture controlled limonite. Biotite schist, similar to previous unit but with no sericite or associated pyrite. Trace fracture controlled limonite.		
		138.4 - 144.3	Pervasive Moderate Silicification			
144.3 - 145.3	BtS	sand	Fol-mod	Biotite schist, strongly clay altered, which is spatially associated with two anastomosing finte grained carbonate-clay veins with quartz margins at 145.05 and 145.1m. 0.25% limonite also spatially associated with these veins.		
		144.3 - 145.3	Pervasive Strong Clay			

145.3 - 152.1	BtS	lamn	Fol-str	Barren biotite schist, silicified to 145.55. Unit is moderately fractured with common associated limonite (av. 0.1%)		
		145.3 - 148.6	Pervasive Moderate Silicification			
		148.6 - 152.1	Replaces Mafics Weak Chlorite			
152.1 - 157.1	BtS	band	Fol-mod	Weak zone. Moderately to strongly fractured biotite schist with moderate clay and limonite after feldspar. Clay locally becomes strong and pervasive over 20cm (EOU). Av. 0.5% fracture controlled limonite.		
		152.1 - 157.1	Replaces Felsics Moderate Clay			
157.1 - 164.0	BtS	lamn	Fol-wk	Moderately silicified biotite schist characterized by silica after feldspar, overall weak but locally strong fracture controlled clay/sericite, and moderate sericite spatially associated with chalcedony veins. Trace fracture controlled limonite. 0.25% disseminated brassy metamorphic pyrite,		
		157.1 - 164.0	Pervasive Moderate Silicification	Fracture Controlled Weak Clay	Vein Selvedge Weak	

Drill Log: CFD0301

Easting	584872.87	Hole Length	332 m	Prospect	Supremo T4-5	Drill Started	Jun 17, 2013	Comment
Northing	6973401.14	Azimuth	275 °	Target	T5	Drill Completed	Jun 21, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Afage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1105.47 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 11.0	OVb			
11.0 - 12.0	HU	bx	Fol-wk	Zone, Intensely altered, variably brecciated schist. Strong - intense clay silica and sericite alteration, 4% disseminated limonite
		11.0 - 12.0	Pervasive Intense Clay	Pervasive Intense Silicification Pervasive Intense Sericitisation
12.0 - 23.3	MxM	mgrn	Fol-str	Hornblende biotite schist with bands of felsic gneiss. Weak sericite, chlorite alteration, 0.5-1% disseminated limonite from 16-18.8m. 0.1% fracture controlled limonite
		12.0 - 23.3	Pervasive Weak Sericitisation	Replaces Mafics Weak Chlorite
23.3 - 25.8	HU			Zone, Intensely altered schist. Strong-intense clay, sericite, silica alteration, 5% disseminated limonite
		23.3 - 25.8	Pervasive Intense Clay	Pervasive Intense Silicification Pervasive Intense Sericitisation
25.8 - 56.1	BtS	fgrn	Fol-str	Biotite Schist, weak chlorite alteration, 0.1% fracture controlled limonite. 1% disseminated limonite from 27.65-28.2m. 0.5% limonite with strong clay from 43.1-44.52m. Silicified FG from 52.56-53.44m
		25.8 - 56.1	Replaces Mafics Weak Chlorite	
56.1 - 62.2	HU	bx		Zone, Intensely altered Felsic gneiss with zone of crackle breccia. Interval consists of ~15% calcite matrix crackle breccias 2-20cm wide. variably silicified; where not silicified, it is moderately clay altered. 1.5-2% disseminated limonite with windows containing sooty sulphide mineralization.
		56.1 - 62.2	Pervasive Intense Silicification	Patchy Moderate Clay
62.2 - 74.0	MxF	fgrn	Fol-str	Mixed FG and Hornblende biotite schist. Variable silicification
		62.2 - 74.0	Patchy Moderate Silicification	
74.0 - 91.1	AmBtS	fgrn	Crenul	Sheared and ductily deformed Hornblende Biotite schist. Crenulated in sections, 1% carbonate-limonite veinlets in at least 5 orientations (likely random). 3cm carbonate matrix breccia at 78.5m. 0.5% sheared bull quartz veins, 0.1% fracture controlled limonite
		74.0 - 91.1	Replaces Mafics Weak Chlorite	
91.1 - 91.4	FC	fgrn		Fine grained aphanitic felsic dike with 5% carbonate and carbonate-limonite veins and veinlets. Dips 80 deg @ 090
91.4 - 95.9	AmBtS	fgrn	Crenul	Sheared and ductily deformed Hornblende Biotite schist. Crenulated in sections, 0.1% fracture controlled limonite
		91.4 - 95.9	Replaces Mafics Weak Chlorite	
95.9 - 96.8	MsS	fgrn	Fol-str	Zone, Strongly sericite and silica altered schist, 2% disseminated pyrite and sooty pyrite. 2 cm vertical N striking carbonate-quartz pyrite vein at 96.59m
		95.9 - 96.8	Pervasive Strong Sericitisation	Pervasive Strong Silicification
96.8 - 144.0	AmBtS	fgrn	Fol-str	Hornblende Biotite schist, weak chlorite alteration, bleached with clay-silica alteration from 99.3-101.1m. 0.1% fracture controlled limonite. 0.5% limonite at 116-116.9m. strong sericite w/ 0.5% disseminated limonite from 120.8-121.2m; 126.3-27.2. patchy quartz/feldspar augens throughout interval
		96.8 - 99.3	Replaces Mafics Weak Chlorite	
		99.3 - 101.1	Pervasive Moderate Clay	Pervasive Moderate Silicification
		101.1 - 105.9	Replaces Mafics Weak Chlorite	
		105.9 - 117.0	pervasive Weak Sericitisation	
		120.8 - 121.5	Pervasive Moderate Sericitisation	Pervasive Weak Silicification
		126.4 - 128.8	Pervasive Weak Sericitisation	
		131.8 - 132.7	Pervasive Weak Sericitisation	
		142.0 - 144.0	Pervasive Weak Sericitisation	
		144.0 - 147.4	Pervasive Strong Sericitisation	

144.0 - 146.0	YO	bx			Zone, first 10cm is intensely sericite altered schist with 1% disseminated limonite except for 1cm from fractures. Rest of interval is strong-intensey altered polymictic breccia with zones of intensely altered schist. 3% disseminated limonite
146.0 - 147.3	AmBtS	mgrn	Fol-str		hornblende biotite schist, weak chlorite, moderate sericite alteration
147.3 - 150.0	IV	fgrn			Andesite dike, Magnetic at upper contact, lower contact and lower 1/3rd portion but nonmagnetic through the rest. Aphanitic except for rare feldspar porphyroclasts. Both contacts dip steeply and trend N-NW
150.0 - 171.1	AmBtS	mass	Fol-str		hornblende biotite schist, weak chlorite, moderate sericite alteration, 1% limonite from 163.9-164.3m
		150.0 - 171.9			Pervasive Weak Sericitisation
171.1 - 173.9	YC	bx			Silicified clast breccia; strong-intense clay alteration, 5% disseminated limonite. Polymictic with clay altered, silicified, and clasts of altered gneiss
		171.9 - 174.0			Pervasive Strong Clay
173.9 - 204.8	MsS	fgrn	Fol-str		Strongly sericite altered schist. variable 0-0.5% disseminated limonite throughout. variably weakly silicified, variable moderate to intense sericite alteration. 1cm Core axis subparallel limonite vein At 180. 10cm YC at 186.45m striking N.
		174.0 - 204.8			Pervasive Strong Sericitisation
		204.8 - 207.6			Pervasive Intense Chlorite
204.8 - 208.4	SZ	fgrn	Crenul		Zone of crenulated chlortitic schist where trend of foliation is parallel TCA and trending roughly EW (vertical) based on a rocket launcher measurement
		207.6 - 215.0			Pervasive Moderate Sericitisation
208.4 - 214.6	MsS	fgrn	Fol-str		Strongly sericite altered schist. variable 0-1% disseminated limonite throughout. variably weakly silicified, variable moderate to intense sericite alteration.
214.6 - 221.3	MsS	musc	Fol-str		Zone, Intensely sericite altered schist with 2% disseminated limonite. From 219.2-219.5, (Core of zone) there is a polymictic clay matrix breccia with a chalcedonic 1cm quartz-calcite vein on lower margin.
		215.0 - 221.5			Pervasive Moderate Clay Pervasive Strong Sericitisation
221.3 - 241.8	MxM	pblst	Fol-str		Amphibole-biotite schist with zones of amphibolite and silicified felsic gneiss. Weakly silicified, clay altered felsic gneiss with moderate sericite, fracture controlled clay, 0.25% disseminated limonite from 230-235m
		221.5 - 242.0			Pervasive Strong Sericitisation Patchy Moderate Silicification
241.8 - 243.8	MsS	musc	Fol-str		Zone, intensely sericite altered schist with moderate clay and 2% disseminated limonite. 5cm breccia marks the structure at 243.05m
		242.0 - 244.0			Pervasive Moderate Clay Pervasive Weak Sericitisation
243.8 - 256.1	MxF	pblst	Fol-str		Mixed gneiss, amphibole-biotite schist to 249. Weakly silicified felsic gneiss with 0.1-0.3% disseminated limonite and moderate sericite to 256
		244.0 - 256.0			Patchy Moderate Silicification Pervasive Moderate Sericitisation
		256.0 - 258.8			Pervasive Strong Clay Pervasive Moderate Sericitisation
256.1 - 257.1	FG		Fol-str		Zone, felsic gneiss, strong sericite alteration, clay on fractures, 2% disseminated limonite
257.1 - 257.2	YO	bx			Zone core, polymictic silicified breccia, striking steeply north
257.2 - 258.7	FG		Fol-str		Zone, felsic gneiss, strong sericite alteration, clay on fractures, 2% disseminated limonite
258.7 - 266.6	MxF	musc	Fol-str		Felsic gneiss, moderate sericite alteration, brassy pyrite along fractures, weak silicification
		258.8 - 266.5			Pervasive Moderate Sericitisation Pervasive Weak Silicification
		266.5 - 268.3			Pervasive Weak Clay Pervasive Moderate Sericitisation
266.6 - 268.2	MxM		Fol-str		Zone, Biotite gneiss with moderate sericite, moderate clay alteration, 1.5% disseminated limonite. Structure define by either sets of limonite veinlets throughout zone or clay mush zone dipping moderately to the northeast
268.2 - 285.6	AmBtS		Fol-str		Amphibole schist (amphibolite?). Strong chlortie, epidote alteration, moderate silicification feldspar, garnet? Porphyroblasts
		268.3 - 285.8			Replaces Mafics Moderate Chlorite Replaces Mafics Moderate Epidote
285.6 - 303.3	MxF	musc	Fol-str		Muscovite (after biotite?) gneiss clay along fractures, 0.25% disseminated limonite. Variable silicification,
		285.8 - 322.0			Pervasive Strong Sericitisation Fracture Controlled Weak Clay Patchy Weak Silicification
303.3 - 322.0	MxF	musc	Fol-str		Same as above zone, however, near folition parallel fractures there is increased levels of limonite which return >2000ppm As on the XRF; & less disseminated limonite. : Muscovite (after biotite?) gneiss clay along fractures, 0.1% disseminated limonite. Variable silicification,
322.0 - 332.0	MxF		Fol-str		mixed gneiss, weak-moderate silicification, weak sericite
		322.0 - 332.0			Pervasive Weak Silicification

Drill Log: CFD0302

Easting	584011.55	Hole Length	332 m	Prospect	Supremo T1-2	Drill Started	Jun 21, 2013	Comment
Northing	6973204.89	Azimuth	305 °	Target	Latte-T2 Connector	Drill Completed	Jun 24, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Afage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	964.25 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.2	OVB			
6.2 - 10.5	AmBtS	pblst	Fol-str	Amphibole schist, weak chlorite, silica alteration, 0.1% fracture controlled limonite
6.2 - 10.2			Replaces	Mafics Weak Chlorite Patchy Weak Silicification
10.5 - 10.8	RU		Crenul	Talc schist/serpentine
10.8 - 35.8	AmBtS	pblst	Fol-str	Amphibole schist, variable weak sericite alteration, patchy weak clay alteration, 0.1% fracture controlled limonite, moderate sericite and 0.2% 1mm limonite veinlets parallel TCA from 33-35.75m
10.8 - 35.8			Replaces	Mafics Weak Chlorite Patchy Weak Silicification Patchy Weak Clay
35.8 - 49.7	BtS		Fol-str	Strongly altered schist, moderate- strong sericite, patchy weak silicification, 0.2-0.5% disseminated limonite, 0.1% carbonate stringers
35.8 - 49.7			Pervasive	Strong Sericitisation Patchy Weak Silicification
49.7 - 50.0	YO	bxi		Fine grained breccia, quartz > carbonate matrix, >1mm angular clasts mainly of quartz or silicified material, bleached, 0.5% disseminated limonite. contacts parallel TCA
49.7 - 50.0			Pervasive	Intense Silicification
50.0 - 68.5	BtS		Fol-str	Strongly altered schist, moderate- strong sericite, patchy weak silicification, 0.2-0.5% disseminated limonite, 0.1% carbonate stringers. 5mm limonite-carbonate vein subparallel TCA at 63m
50.0 - 68.5			Pervasive	Strong Sericitisation Patchy Weak Silicification
68.5 - 69.0	YO	bxi		Fine grained breccia, silicified matrix, >1mm angular polymictic clasts, bleached, 0.5% disseminated limonite
68.5 - 71.0			Patchy	Moderate Silicification
69.0 - 71.0	YO	bxi	Fol-str	Zone of strongly sericite altered biotite schist with 2 sets of breccia crosscutting. 1. a foliation parallel black sooty quartz matrix breccia with angular clasts of host rock. 2. a crosscutting clay-limonite matrix breccia also with clasts of country rock, in places has the appearance of a crackle breccia with planar boundaries. both units are <5cm thick occurring every ~20cm. 1% disseminate limonite, 0.2% disseminated sooty pyrite in sooty quartz
71.0 - 73.5	YO	bxi		Clay matrix breccia, clasts range in size from 1mm- 5cm, silicified where not clay altered, one 5cm clast at 71.2 consists of 40% sooty quartz. 50% of Zone is HU where core consists of clay mush. 3% limonite
71.0 - 73.5			Pervasive	Strong Clay
73.5 - 82.1	MsS		Fol-str	Intensely sericite altered schist. strong clay alteration from 75.5-76m. 1% limonite-calcite veinlets running at various orientations. 2% disseminated limonite
73.5 - 75.5			Pervasive	Strong Sericitisation
75.5 - 76.1			Pervasive	Strong Clay
76.1 - 81.0			Pervasive	Strong Sericitisation
81.0 - 101.5			Pervasive	Intense Sericitisation Patchy Weak Clay
82.1 - 86.1	MsS		Fol-str	Intensely sericite altered schist. variable moderate clay alteration. 1% limonite-calcite veinlets running at various orientations. 2% sooty sulphides except for 2-5cm from fractures where sulphide has oxidized to limonite
86.1 - 87.0	MsS		Fol-str	Intensely sericite altered schist. variable weak clay. 5% limonite-calcite veinlets running at various orientations. 2% disseminated limonite
87.0 - 87.5	Yx	bxi		Crackle breccia, defined with open space calcite veins 5mm thick. clay altered, rotated clasts of country rock. contact at ~30 TCA
87.5 - 89.1	MsS		Fol-str	Intensely sericite altered schist. 1% limonite-calcite veinlets running at various orientations. 2% disseminated limonite. 5cm quartz-carb-limonite matrix breccias at 88.3 & 88.6m @ ~40 TCA
89.1 - 92.1	MsS		Fol-str	Intensely sericite altered schist. 1% limonite-calcite veinlets running at various orientations. 0.25% disseminated limonite

92.1 - 93.1	YO	bx			Intensely clay altered breccia, 3% disseminated limonite. Weakly altered amphibole schist from 92.5-92.7n
93.1 - 96.8	MsS		Fol-str		Intensely sericite altered schist. 1% limonite-calcite veinlets running at various orientations. 1% disseminated limonite
96.8 - 99.1	Yx				Two 1 cm anastamosing,bifurcating quartz-carbonate veins running directly parallel to core axis from 96.5-97 completely brecciate thecore for the rest of the interval. country rock is the same as above
99.1 - 99.6	YO	bx			Intensely clay altered clay matrix breccia. 1% disseminated limonite
99.6 - 132.2	AmBtS	pblst	Fol-str		Interval of Amphibole schist with minor biotite schist and felsic gneiss. 0.1% fracture controlled limonite. Blebby brassy pyrite, weak chlorite, epidote alteration within amphibole schist
		101.5 - 132.0	Replaces Mafics Moderate Chlorite	Patchy Weak Clay	Replaces Felsics Moderate Silicification
		132.0 - 134.0	Patchy Moderate Clay		
132.2 - 133.5	RU	fgrn	Fol-str		Talc schist - ultramafic shear. chlorite shear with 10% carbonate with hematite veinlets from 132.75-133.12m.
133.5 - 151.5	AmBtS	pblst	Fol-str		Amphibole schist. 3% limonite for first 15cm of interval. strong clay zones from 141-141.5, 149-149.5m. 5mm ultramafic shears at 146.05, 147.1m. moderate chlorite alteration throughout
		134.0 - 151.5	Replaces Mafics Moderate Chlorite	Patchy Moderate Clay	
151.5 - 154.1	MsS		Fol-str		Intensely sericite altered schist. 0.25% limonite-calcite veinlets running at various orientations. 1% disseminated limonite
		151.5 - 160.6	Pervasive Strong Sericitisation		
154.1 - 155.6	YO	bx			carbonate-limonite matrix breccia, 2-3mm polymictic angular clasts. 1-3% disseminated limonite
155.6 - 165.4	MsS		Fol-str		Intensely sericite altered schist. 1% limonite-calcite veinlets running at various orientations. 1% disseminated limonite. zone of fresh amphibole schist from 160.55-162.05m
		160.6 - 162.1	Replaces Mafics Moderate Chlorite	Replaces Mafics Moderate Epidote	
		162.1 - 165.4	Pervasive Strong Sericitisation		
165.4 - 172.6	AmBtS	pblst	Fol-str		Epidote altered amphibole schist
		165.4 - 173.0	Replaces Mafics Moderate Chlorite	Replaces Mafics Moderate Epidote	
172.6 - 175.8	BtS		Fol-str		Schist, strongly sericite altered, 1% calcite-limonite veins. 3% open space carbonate veins with cavaties 2cm wide. 1% disseminated limonite
		173.0 - 176.8	Pervasive Intense Sericitisation		
175.8 - 176.8	BtS		Fol-str		Strongly mineralized schist. Completely overprinted with sericite, possibly silica and sooty pyrite. 5% sooty sulphide veins and stringers, 5% disseminated sooty sulphides. No carbonates. zone is gradational from schist and has no clear contact
176.8 - 182.0	BtS		Fol-str		Intensely silicified schist. 2% carbonate veins and veinlets in various orientations, calcite vein crackle breccia from 181.3-181.45m
		176.8 - 182.0	Pervasive Intense Silicification	Pervasive Moderate Sericitisation	
182.0 - 186.3	MsS		Fol-str		Dropped box. Box contains 90% schist with 2% carbonate veins, intense sericitization, moderate silicification, 2% disseminated limonite. 2, 3cm zones of HU intense clay material.
		182.0 - 186.3	Pervasive Intense Sericitisation	Pervasive Moderate Silicification	
186.3 - 190.3	FG		Fol-str		Intensely sericite altered gneiss.2% disseminated limonite. 0.2% carbonate veins
		186.3 - 190.3	Pervasive Intense Sericitisation		
190.3 - 190.9	SZ		Fol-str		chlorite shear
190.9 - 193.7	Yx	bx			Crackle breccia defined by carbonate-clay-limonite veins from190.9-192.8 and by sooty quartz veins from 192.8-193.7m. unconsolidated in clay zone. clasts are of intenselysericite altered gneiss with 1% disseminated sooty sulphides
		190.9 - 192.8	Pervasive Intense Clay		
193.7 - 199.1	AmBtS		Fol-str		Amphibole-biotite schist,strong sericite alteration from 193.7-196.4m, 197.7-199.5m
		193.7 - 196.4	Pervasive Strong Sericitisation		
		197.7 - 234.0	Pervasive Strong Sericitisation		
199.1 - 199.5	Yx	bx			Crackle breccia defined by sooty quartz veinswhich are then crosscut and brecciated by calcite veins
199.5 - 230.5	MxF	fgrn	Fol-str		Strongly sericitized mixed felsic gneiss and biotite gneiss. variable weak silicification, 0.5% crosscutting calcite veins. 2% disseminate sooty sulphides from 199.45-200, 205.95-206.7, 208.05-209.7, 223.33-229.6m. 0.5% disseminated limonite through rest of interval.

230.5 - 231.0	IV	fgrn		Altered andesite? Dike. aphanitic save for 1cmmagnetite crystals (UM?). contacts perpindicular TCA.
231.0 - 231.4	FG		Fol-str	zone of country rock between two dikes. Strong sericitization
231.4 - 231.9	IV	fgrn		Altered andesite? Dike. aphanitic save for 1cmmagnetite crystals (UM?). contacts perpindicular TCA.
231.9 - 234.1	FG		Fol-str	zone of country rock between two dikes. Strong sericitization
234.1 - 236.2	IV	fgrn		Altered andesite? Dike grading from light grey to dark grey at 235.1m. aphanitic, nonmagnetic. contact perpindicular TCA
236.2 - 242.7	AmBtS	pblst	Fol-str	Amphibole schist, weak chlorite, epidote alteration. weak sercite, clay to 236.8m
		236.2 - 242.7	Pervasive Weak Chlorite	Replaces Mafics Weak Epidote
242.7 - 243.1	IV	fgrn		light grey andesite dike, non. Magnetic
243.1 - 301.6	MxF		Fol-str	Mixed augen bearing gneiss, strong sericitization with 3% crosscutting limonite veins from 267.95-277.5m. strong sericitization and 1% disseminated brassy pyrite from 288.45-290.3, 290-292, 295-98, 300.25-301.55. Intense sercite from 298-198.65.
		268.0 - 277.5	Pervasive Strong Sericitisation	
		286.0 - 298.8	Pervasive Strong Sericitisation	
		300.3 - 310.0	Pervasive Strong Calcite	Pervasive Strong Sericitisation
301.6 - 308.9	YO	band		Multiphase breccia. begins as calcite vein crackle breccia and transitions to calcite matrix breccia (orange herring). ends with 10cm bull quartz vein. 0.2% crosscutting sooty sulphide veins. Because of this relationship, no good structural info was able to be pulled from the zone
308.9 - 332.0	MxM		Fol-str	mixed amphibole gneiss / augen gneiss. Weak chlorite, epidote alteration
		310.0 - 332.0	Replaces Mafics Weak Epidote	Replaces Mafics Weak Chlorite Patchy Weak Silicification

Drill Log: CFD0303

Easting	584011.55	Hole Length	131 m	Prospect	Supremo T1-2	Drill Started	Jun 24, 2013	Comment
Northing	6973204.9	Azimuth	305 °	Target	Latte-T2 Connector	Drill Completed	Jun 25, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	964.26 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.6	OVb			
5.6 - 8.9	MsS		Fol-str	Schist with strong sericite and silica alteration, 1.5% disseminated limonite
		6.0 - 9.3	Pervasive Strong Sericitisation	Patchy Weak Clay
8.9 - 70.5	BtS	pblst	Fol-str	Schist, variable weak-moderate sericite alteration, patchy weak clay, patchy weak silicification, 2-4cm calcite vein parallel TCA @ 42m with zones of a calcite matrix breccia. 0.1-0.2% disseminated limonite throughout (weathering?)
		9.3 - 70.5	Pervasive Moderate Sericitisation	Replaces Mafics Weak Chlorite
70.5 - 77.2	YO	bx		Brecciated Ultramafic Unit. Clasts are of light green serpeninite. Matrix is composed of jasperoidal quartz with minor calcite. Unit is strongly silicified.
		70.5 - 77.2	Pervasive Strong Silicification	Pervasive Weak Calcite
77.2 - 81.3	BtS		Fol-str	Schist, moderate sericite and silica alteration. Small zone of silicified talc schist. Bluish grey amorphous zones 3-5cm thick near from 80.9-81.3. 0.5 disseminated limonite
81.3 - 86.1	YO	bx		Not a typical mineralized breccia. clasts of altered schist and clasts of intensely silicified, sericitized material. clay altered, calcite rich matrix (orange herring (brown?)) small zones of amorphous silicious grey material in matrix. 0.5% limonite
		81.3 - 86.1	Pervasive Strong Calcite	Pervasive Moderate Clay
86.1 - 95.6	BtS		Fol-str	Strongly sericite altered biotite schist. 0.5% disseminated limonite. weakly becoming a crackle breccia after 94m via limonite veinlets
		86.1 - 95.6	Pervasive Strong Sericitisation	
95.6 - 97.1	PyF	bx		Pyritic fault. Sooty sulphide clay with rare clasts of sooty sulphide bearing schist or quartz vein material. 10% sooty sulphide
		95.6 - 97.1	Pervasive Strong Clay	
97.1 - 106.8	BtS		Fol-str	Biotite schist with strong sericite and 5% disseminated sooty sulphides. Limonitic from 102-104, 106.25-106.8
		97.1 - 106.8	Pervasive Strong Sericitisation	
106.8 - 131.0	AmBtS	pblst	Fol-str	amphibole-biotite schist. Weak chlorite, epidote alteration, 0.25% disseminated brassy pyrite
		106.8 - 131.0	Replaces Mafics Weak Chlorite	Replaces Mafics Weak Epidote

Drill Log: CFD0304

Easting	583972.5	Hole Length	212 m	Prospect	Latte	Drill Started	Jun 25, 2013	Comment
Northing	6973191.65	Azimuth	305 °	Target	Latte-T2 Connector	Drill Completed	Jun 28, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	980.81 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.8	OVb			
3.8 - 45.0	BtS_carb	Fol-str		Schist, 0.5% fracture controlled limonite; weathered. 1% disseminated limonite and strong sericite from 22.6-22.8m, 30-30.9m
		6.0 - 22.6		Replaces Mafics Weak Chlorite
		22.6 - 22.8		Pervasive Strong Sericitisation
		22.8 - 30.0		Replaces Mafics Weak Chlorite
		30.0 - 30.9		Pervasive Strong Sericitisation
		30.9 - 47.9		Replaces Mafics Weak Chlorite
45.0 - 79.1	BtS	pblst	Fol-str	Schist, 0.2% fracture controlled limonite. 0.5% limonite and strong sericite from 47.9-48.3m. 1% disseminated Sooty sulphides and strong sericite from 70.35-70.8m. moderate clay, strong sericite and 2% disseminated limonite from 71.6-72.95m
		47.9 - 48.3		Pervasive Strong Sericitisation
		49.3 - 70.4		Replaces Mafics Weak Chlorite
		70.4 - 73.0		Pervasive Moderate Clay Pervasive Strong Sericitisation
		73.0 - 79.1		Pervasive Strong Sericitisation
79.1 - 87.0	BtS	musc	Fol-str	mineralized schist. Strong sericite and 2% disseminated sooty sulphides from 79.1-81.07. strong sericite and 2% disseminated limonite with discrete 3cm zones of breccia from 81.07-82.3m. from 82.3-84.9m, schist is intensely sericite and silica altered, almost unrecognizable. 84.9-86.9 the schist is strong sericitized and contains 0.5-3% disseminated sooty sulphides with 3-5cm limonitic breccias
		79.1 - 82.3		Pervasive Strong Sericitisation
		82.3 - 87.0		Pervasive Strong Silicification Pervasive Strong Sericitisation
87.0 - 90.6	YO	bx		Hematite matrix breccia with 2-5cm clasts of angular ultramafic rock. unit is silicified
		87.0 - 90.6		Pervasive Strong Silicification
90.6 - 91.2	MBSLT		Fol-str	Foliated green mafic/ultramafic rock (serpentine?), contains bands of a pink mineral.
91.2 - 93.7	YO	bx		Hematite matrix breccia with 2-5cm clasts of angular ultramafic rock. unit is silicified
		91.2 - 93.7		Pervasive Strong Silicification
93.7 - 95.8	Ylim	bx		Limonite matrix breccia. strong clay alteration, 203cm angular clasts of schist. 1-2% disseminated limonite
		93.7 - 95.8		Pervasive Strong Clay
95.8 - 100.0	BtS		Fol-str	Schist, strong sericite, 1% disseminated either limonite > Sooty sulphides
		95.8 - 100.0		Pervasive Strong Sericitisation
100.0 - 128.2	AmBTS		Fol-str	Amphibole-biotite schist, weak chlorite alteration. 2% disseminated limonite and strong clay from 108.7-110.1. 1% disseminated Sooty sulphides from 113-114.1m
		100.0 - 108.7		Replaces Mafics Weak Chlorite
		108.7 - 110.1		Pervasive Strong Clay
		110.1 - 128.2		Replaces Mafics Weak Chlorite
128.2 - 148.9	BtRQM		Fol-str	Biotite schist with stretched out quartz. Strong sericite-silica alteration.
		128.2 - 148.9		Pervasive Strong Sericitisation Pervasive Strong Silicification

148.9 - 189.6	MxM	pblst	Fol-str	Mixed biotite gneiss, amphibole gneiss, felsic gneiss. weak sericite alteration throughout. moderate clay 1% Sooty Sulphides or limonite from 154.1-156.1m. 2% Sooty sulphides disseminated and in veins from 158.4-159.66m. Strong clay and 1% disseminate limonite from 187-189.6m.
148.9 - 154.1				Pervasive Weak Sericitisation
154.1 - 156.1				Pervasive Moderate Clay
156.1 - 158.4				Pervasive Weak Sericitisation
158.4 - 159.7				Pervasive Strong Clay
159.7 - 189.6				Pervasive Weak Sericitisation
189.6 - 192.5	HU			Intensely silica altered (sericite as well??) Unrecognizable unit. 2%limonite from 189.7-190.5m. strong leucoxene, 2% Sooty sulphides (limonite near fractures) from 191.5-192.1m.
189.6 - 192.5				Pervasive Intense Silicification
				Pervasive Strong Sericitisation
192.5 - 212.0	MxM		Fol-str	mixed gneiss, weak silicification
192.5 - 212.0				Pervasive Weak Silicification

Drill Log: CFD0305

Easting	583952.79	Hole Length	221 m	Prospect	Latte	Drill Started	Jun 28, 2013	Comment
Northing	6973176.04	Azimuth	305 °	Target	Connector	Drill Completed	Jun 30, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	981.82 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.3	OVB			
4.3 - 37.9	BtS_carb	pblst	Fol-str	Schist w/ carb bands. 0.2% fracture controlled limonite. moderate clay, 1% hematite from 37.2-37.9m
		4.3 - 37.9	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Clay
37.9 - 40.1	HU			Intensely clay altered schist (remnant foliation weakly visible. 1-1.5% disseminated limonite throughout
		37.9 - 40.1	Patchy Intense Clay	
40.1 - 98.9	BtS_carb	pblst	Fol-str	Schist with carbonate bands.strong-intense sericite with 3% disseminated limonite/hematite from 51.4-52.6m. bullquartz vein from 53.2-54m chlorite shear with 4cm talc schist at 63.45m. 20cm fault gouge? with 2% limonite at 64.45m. strong-intense sericite with 3% disseminated limonite/hematite from 74.05-75.1m. moderate sericite alteration from 75.1-80m. strong sericite and 0.5% disseminated limonite from 80-66.4m. Strong sericite and 2% limonite&hematite with a small sulphide window from 86.4-87.6m. strong sericite and 0.75% limonite from 89-90.m. strong-intense sericite and 0.5-2% disseminated limonite from 90.2-98.85m.
		51.4 - 52.6	Pervasive Strong Sericitisation	
		64.5 - 64.5	Patchy Intense Clay	
		74.1 - 75.1	Pervasive Intense Sericitisation	
		75.1 - 98.9	Pervasive Moderate Sericitisation	
98.9 - 99.6	Ylim	bx		Intensely clay altered breccia,5% limonite
		98.9 - 99.6	Pervasive Intense Clay	
99.6 - 105.2	BtS	pblst	Fol-str	Schist, strong-intense sericite and 0.5-2% disseminated limonite
		99.6 - 105.2	Pervasive Strong Sericitisation	
105.2 - 105.8	Ylim	bx		Silicified,clay altered breccia. 1-5mm clasts of quartz, mineralized country rock. 5% limonite
		105.2 - 105.8	Pervasive Strong Silicification	Pervasive Strong Clay
105.8 - 118.1	BtS		Fol-str	Schist, strong sericite, 1% disseminated limonite from 105.8-110.5m.
		105.8 - 121.7	Pervasive Strong Sericitisation	
118.1 - 121.7	BtRQM		Fol-str	Schist with stretched quartz grains. Strong bleaching (sericite?) and 0.5% disseminated Sooty Sulphides (limonite near oxidized cracks) and crenulated foliation from 120.3-121.7
121.7 - 125.5	SZ		Crenul	Zone of a dark chlorite? rich schist where blocks of schist with completely different foliation directions are juxtaposed together, crenulated in many cases.
125.5 - 127.1	YO	bx		polyphase breccia. Porcelanic silicification, 0.5% limonite until 126.8. from 126.8-127.1 intense clay and 5% limonite (126.8-126.95) or 5% sooty sulphides (126.95-127.1m). contacts parallel to shear zone fabric. Carbonate rich
		125.5 - 126.8	Pervasive Strong Silicification	
		126.8 - 127.1	Pervasive Intense Clay	
127.1 - 128.0	SZ		Crenul	Zone of a dark chlorite? rich schist where blocks of schist with completely different foliation directions are juxtaposed together
128.0 - 132.4	BtRQM		Fol-str	Mylonite, 1% limonite to 129.8m. Strong sericite, 0.2% disseminated brassy pyrite from 129.8-130.6m.
		128.0 - 132.4	Pervasive Strong Sericitisation	
132.4 - 198.5	BtS	pblst	Fol-str	Schist, 0.2% limonite-carbonate veinlets 135-144m. Strong sericite and 0.25-1% disseminated limonite from 151.4-153.95. 3-5% Sooty sulphides disseminated and in veins from 153.95-155.1m. 0.3% disseminated limonite from 192.6-195.1m. 1% disseminated Sooty sulphides, strong sericite from 197.65-198.1.
		151.4 - 155.1	Pervasive Strong Sericitisation	
		197.7 - 198.1	Pervasive Strong Sericitisation	

198.5 - 199.4	YO	bx		Breccia. Intensely silicified with a weak clay overprint, dull orange wash over everything but angular 1cm clasts are visible. 2.5% limonite
			198.5 - 200.2	Pervasive Intense Silicification
				Pervasive Moderate Clay
199.4 - 200.2	IV			porphyritic altered dike. 1-2cm euhedral plagocrystals visible. silicified, clay altered, 1% limonite
200.2 - 213.0	MxM	pblst	Fol-str	Mixed gneiss, weak-moderate clay, sericite with 2% disseminated limonite from 200.15-202.4m. 2 almost identical discrete dikes at 212.56, 212.8m: Both are 1.5cm wide one side of core then blow out to be 5cm wide on the other side in an angular fashion, contacts sub-perpendicular to core axis. dark grey aphanitic. first is nonmagnetic, second is strongly magnetic.
			200.2 - 202.4	Pervasive Moderate Clay
				Pervasive Moderate Sericitisation
213.0 - 213.8	IV			dark grey aphanitic dike, nonmagnetic, contacts at 45 TCA
213.8 - 221.0	MxM		Fol-str	mixed gneiss

Drill Log: CFD0306

Easting	584141.05	Hole Length	212 m	Prospect	Latte	Drill Started	Jun 30, 2013	Comment
Northing	6973216.83	Azimuth	305 °	Target	Connector	Drill Completed	Jul 02, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	967.25 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 11.8	OVb			Boulders of BtS_card with soil for ~5m
11.8 - 72.8	BtS_carb	pblst	Fol-str	Schist with carbonate bands, weathered until ~40m. Intense sericite, strong clay, 2% limonite from 13-14m. Strong- intense sericite from 14- 21.1m. strong0intense sericite and 0.5-1% disseminated limonite from 58-72.8m.
		13.0 - 14.0	Pervasive Strong Sericitisation	Pervasive Strong Clay
		14.0 - 21.1	Pervasive Intense Sericitisation	
		58.0 - 72.8	Pervasive Intense Sericitisation	
72.8 - 75.0	YO	bx		Clay-limonite-carbonate matrix breccia with angular intensely silicified clasts. 5% limonite.likely orange herring as it did not run on XRF
		72.8 - 75.0	Pervasive Intense Calcite	Pervasive Strong Clay
75.0 - 92.1	BtS	pblst	Fol-str	Schist. weak chlorite alteration, 3% fol parallel and core axis subparallel bull quartz veins
92.1 - 104.5	Ycarb	bx		Calcite matrix breccia. angular silicified clasts. contacts subparallel TCA where upper 1m and lower 1m of interval are half schist, half breccia. although at lower interval after 1m of half schist/breccia, we get back into breccia for last 40cm and final contact is perpindicular TCA. porcelainic texture (still strong calcite) with 0.5% disseminated brassy pyrite from 97-99.3m.
		92.1 - 104.5	Pervasive Intense Calcite	
104.5 - 106.2	BtS		Fol-str	Schist,0.5% brassy pyrite veins
106.2 - 106.7	IV			weakly magnetic fine grained andesite dike
106.7 - 148.5	BtS	pblst	Fol-str	Schist, moderately chlorite altered; intense chlorite from 116.7-120.2, 122-123, 125-126.1, 132.4-133.2m. 1% disseminated limonite from 120.4-121.9m. 1.5% limonite, strong sericite and 1% 5mm calcite-limonite veins from 126.8-129.85m. 2% limonite, strong sericite,moderate silicification and 1% 5mm calcite-limonite veins from 133.7-139.1 and 145.2-148.52m
		116.7 - 120.2	Replaces Mafics Strong Chlorite	
		122.0 - 123.0	Replaces Mafics Strong Chlorite	
		125.0 - 126.1	Replaces Mafics Strong Chlorite	
		126.8 - 129.9	Pervasive Strong Sericitisation	
		133.7 - 138.1	Pervasive Strong Sericitisation	Pervasive Strong Silicification
		145.2 - 148.5	Pervasive Strong Sericitisation	Pervasive Strong Silicification
148.5 - 162.7	YO	bx		Zone of very intense silicification likely overprinting a breccia. a strong fabric is runnign down the drill core. Common zones of zones porcelainic quartz. 2-5% crosscutting anastomosing calcite vein and veinlets. <1% disseminated limonite throughout.
		148.5 - 162.7	Pervasive Intense Silicification	Pervasive Strong Calcite
162.7 - 178.9	MxF		Fol-str	Gneiss, strong sericite with 4% anastomosing crosscutting calcite veinletsto 171.6m. From 171.6-178.93m, gneiss is mineralized with 2-5% disseminated limonite+hematite and rare sulphide facies windows up to 5cm across. Strong sericite and variable weak to strong clay alteration.
		162.7 - 171.6	Pervasive Strong Sericitisation	
		171.6 - 178.9	Pervasive Strong Sericitisation	Pervasive Moderate Clay
178.9 - 179.3	Ylim	bx		Clay-limonite matrix breccia, unconsolidated, 5% limonite
		178.9 - 179.3	Pervasive Intense Clay	
179.3 - 182.0	MxF		Fol-str	Gneiss, 2-5% disseminated limonite+hematite and rare sulphide facies windows up to 5cm across. Strong sericite and variable weak to strong clay alteration.
		179.3 - 182.0	Pervasive Strong Sericitisation	Patchy Moderate Clay

182.0 - 183.0	MV		Bull quartz vein, orange HU zone at lower contact
183.0 - 212.0	MxF	Fol-str	Augen gneiss, weak-moderate sericite alteration, 0.2% disseminated brassy pyrite until 197.4. moderate sericite and 1-3% disseminated sooty sulphides with 0.5-1cm sooty sulphide veinlets from 203.3-205.9 and 210.3-211.4m.
		183.0 - 197.4	Pervasive Moderate Sericitisation
		203.3 - 205.9	Pervasive Moderate Sericitisation
		210.3 - 211.4	Pervasive Moderate Sericitisation

Drill Log: CFD0307

Easting	584393.47	Hole Length	131 m	Prospect	Supremo T4	Drill Started	Jul 02, 2013	Comment
Northing	6973754.54	Azimuth	270 °	Target		Drill Completed	Jul 03, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Jcurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1144.01 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 12.9	MxF	augn	Fol-mod	OVB and fracture controlled oxidation of augen gneiss, 0.1% fc hematite and limonite. Weak sericite altn.
		0.0 - 13.0	Fracture Controlled Weak Sericitisation	
12.9 - 14.5	BtS	pblst	Fol-mod	Zone: Strong silica-ser altn of minerals pervasively, fracture control moderate clay locally and weak replacement of felsics on shoulders. 2% limonite as fracture network and disseminations increased around clay rich fault @14.6m. 1% hematite focused around fractures.
		13.0 - 14.5	Replaces Mafics Moderate Sericitisation	Pervasive Moderate Silicification Replaces Felsics Moderate Clay
14.5 - 16.8	MxF	silc	Fol-mod	Silicified felsic gneiss w/ 0.1% fracture controlled limonite, interval between discrete zones.
		14.5 - 16.8	Pervasive Weak Silicification	
16.8 - 17.8	FG	mgrn	Fol-mod	Zone: Mod pervasive silica-sericite altn, mod to strong replacement of feldspars w/ clay. 1-2% diss limonite w/ fracture controlled hematite.
		16.8 - 18.0	Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation Fracture Controlled Moderate Clay
17.8 - 24.9	MxF	mgrn	Fol-mod	Moderate clay replacement of felsic in Bts dominant interval, local fracture controlled limonite and sericite altn.
		18.0 - 24.9	Replaces Felsics Weak Clay	Replaces Mafics Weak Sericitisation
24.9 - 26.1	BtS	fgrn	Fol-mod	Shoulder Zone: Mod ser-clay pervasive altn, 0.5% diss limonite. Weak fracture control clay.
		24.9 - 26.1	Replaces Mafics Moderate Sericitisation	Replaces Felsics Weak Clay
26.1 - 26.8	BtS	fgrn	Fol-mod	Zone: Strong perv clay-ser altn, mod silica-flooding. 3% diss limonite.
		26.1 - 26.8	Replaces Mafics Strong Sericitisation	Pervasive Moderate Silicification Fracture Controlled Moderate Clay
26.8 - 28.9	BtS	mgrn	Fol-mod	Shoulder Zone: Mod clay-ser altn, 0.5% diss limonite, lim-clay replacement of fspars
		26.8 - 29.5	Fracture Controlled Weak Clay	Replaces Mafics Moderate Sericitisation
28.9 - 33.5	BtS	fgrn	Fol-str	Zone: Strong pervasive sil-ser-clay altn, locally intense clay replacement. 3% diss lim, 1% hem veinlets. Limonite percentage increases with strong frac ctrl clay (faults)
		29.5 - 32.4	Fracture Controlled Strong Clay	Replaces Mafics Strong Sericitisation Pervasive Strong Silicification
		32.4 - 34.0	Pervasive Intense Clay	Replaces Mafics Strong Sericitisation
33.5 - 34.3	Ylim	matx		Zone: 3-5% limonitic-clay matrix supported qtz vein clast micro breccia. Shoulders are intensely clay altered HU w/ hematite stringers.
		34.0 - 35.0	Fracture Controlled Strong Clay	Replaces Mafics Strong Sericitisation
34.3 - 35.0	BtS	fgrn	Fol-mod	Zone: strong pervasive sil-ser-clay altn, strong frac ctrl clay. 3% diss oxides.

35.0 - 37.8	BtS	mgrn	Fol-mod	Shoulder zone: Clay alteration locally intense grading to moderate replacement of fspars. Limonite content decreased to 0.25% disseminated. Interval contains 1 15cm wide buck qtz vein		
		35.0 - 35.6	Pervasive Intense Clay		Replaces Mafics Moderate Sericitisation	
		35.6 - 37.8	Replaces Felsics Moderate Clay		Replaces Mafics Weak Sericitisation	
37.8 - 38.2	BtS	fgrn	Fol-mod	Zone: Strong perv sil-ser-clay altn w/ 3% diss oxides, pssible centered around small precciated qtz vein w/ clay altn, clay mostly washed away.		
		37.8 - 38.2	Pervasive Strong Clay		Replaces Mafics Strong Sericitisation	
38.2 - 41.9	BtS	mgrn	Fol-mod	Weak clay rep of fspar, 0.25% fracture ctrl limonite.		
		38.2 - 41.9	Replaces Felsics Weak Clay			
41.9 - 42.7	YC	bxi		Zone: Strong to intense pervasive clay altn of Bts shoulders. 30cm wide sub rounded silicified micro clast bx in limonitic clay matrix. 3-5% diss oxides throughout.		
		41.9 - 42.7	Pervasive Intense Clay		Replaces Clasts Intense Silicification	
42.7 - 51.2	MxF	mgrn	Fol-mod	Fractured gniess,0.25% frac ctrl limonite and weak clay.		
		42.7 - 51.2	Replaces Mafics Weak Sericitisation		Fracture Controlled Weak Clay	
51.2 - 52.3	BtS	mgrn	Fol-mod	Zone: Mod ser-clay alteration, 2% diss limonite		
		51.2 - 52.0	Replaces Felsics Weak Clay		Replaces Mafics Moderate Sericitisation	
		52.0 - 52.3	Pervasive Intense Clay		Pervasive Moderate Sericitisation	
52.3 - 52.3	YC	bxi		limonitic clay matrix supported micro breccia surrounf brecciated buck qtz vein. Similar style to above zone w/ less oxide minerals.		
52.3 - 58.4	FG	mgrn	Fol-mod	Mod ser replacement of biotite, 0.5% diss hematite focused around local clay-limonite fractures.		
		52.3 - 58.0	Replaces Mafics Moderate Sericitisation		Fracture Controlled Weak Clay	
		58.0 - 88.0	Pervasive Moderate Silicification			
58.4 - 70.0	FG	mgrn	Fol-str	Variably altered gneiss, weak fracture control clay and local felsic replacement associated with 0.25% diss limonite.		
70.0 - 88.1	MxF	augn	Fol-str	Mod pevasive silica, 0.1% frac ctrl limonite locally.		
88.1 - 88.4	SZ	mylo	Fol-str	13cm Fe-carb dominated ductile shear zone. X-cutting buck qtz veins. Folding shows Z-shaped geometry. Upper contact with qtz veinis brecciated, lower contact seems folation parallel with am-bts schist then felsic gneiss.		
		88.2 - 88.6	Pervasive Strong Silicification		Replaces Mafics Weak Sericitisation	
88.4 - 96.7	BtS	pblst	Fol-str	Med grain Bts, common limonite stringers.		
96.7 - 98.0	AmBtS	fgrn		Amphibole schist x-cut by ~10cm wide buck qtz veinwith limonite selvedge @ <5 degrees LCA also fe-cabr breccia vein at 90 degrees to LCA. Mod qtz-ser altn in unoxidized windows.		
		96.7 - 98.0	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	Vein Selvedge Moderate Fe-carb	
98.0 - 122.4	MxM	mgrn	Fol-mod	Varably altered mafic gneiss, fracture controlled Fe-carb +/- weak clay w/ short shoulders of weak sericite altn. 0.25% Fe-carb veinlets throughout.		
		106.0 - 122.4	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Clay	Fracture Controlled Weak Fe-carb	
122.4 - 122.5	Ylim	mud		3% disseminated limonitic mud matric supported silicified clast micro breccia, ~4cm wide with strongly altered felsic gneiss shoulders.		
		122.4 - 122.5	Replaces Matrix Strong Clay	Replaces Clasts Strong Silicification	Replaces Felsics Moderate Clay	
122.5 - 131.0	FG	mgrn	Fol-mod	Felsic gneiss w/ lesser Bts, 0.1% diss hematite otherwise fresh.		

Drill Log: CFD0308

Easting	584452.14	Hole Length	131 m	Prospect	Supremo T4	Drill Started	Jul 04, 2013	Comment
Northing	6973849.81	Azimuth	273 °	Target	T4	Drill Completed	Jul 05, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	JCurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1172.84 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 18.0	MxM	biot	Fol-str	unaltered mafic gneiss, 0.15 frc ctrl oxidation
18.0 - 20.3	BtS	mgrn	Fol-str	strong w/ locally intense clay-ser w silicification of felsic minerals. 2-35 diss limonite, 12cm wide crackle bx texture of silica flood bts @20m
		18.1 - 20.3	Replaces Felsics Strong Silicification	Pervasive Strong Clay Replaces Mafics Moderate Sericitisation
		20.3 - 20.9	Pervasive Strong Clay	
20.3 - 20.9	BtS	biot	Fol-mod	Strong pervasive clay-ser altn. 0.15 frac ctrl limonite.
20.9 - 21.7	HU	mass		Intense clay-limonite alteration, pitted weathering. 5% diss lim and hematite.
		20.9 - 21.7	Pervasive Intense Clay	Replaces Mafics Strong Sericitisation
21.7 - 34.3	MxM	mgrn	Fol-str	Amphibole bearing Bts, common Fe-carb veinlets and calcite veins
34.3 - 48.5	FG	augn	Fol-str	variably altered, 2 discrete zones of 0.5% diss hematite with increased sil-ser altn associated with 1cm wide N-S striking vertical open space qtz veins. This is seen in strong zones uphole.
		34.3 - 48.5	Replaces Mafics Weak Sericitisation	Replaces Felsics Weak Silicification Fracture Controlled Weak Clay
48.5 - 114.6	MxM	augn	Fol-str	Fresh mixed gneiss. Dominant bts +/- amph, minor local chlorite shears.
		48.5 - 114.0	Fracture Controlled Weak Silicification	Fracture Controlled Weak Sericitisation
		114.0 - 119.0	Replaces Mafics Strong Fe-carb	Fracture Controlled Strong Clay
114.6 - 118.8	MxF	mgrn	Fol-str	Common 1-2% Fe-carb veinlets and planar veins interpreted as moderate dipping to the south (no orientation), strong to intense pervasive clay associated with veins, veins sometime brecciated weakly and clay mixed with Fe-carbonate.
118.8 - 131.0	MxF	mgrn	Fol-str	Felsic gneiss, minor hematite and weak silicification.
		119.0 - 131.0	Pervasive Weak Silicification	Fracture Controlled Weak Clay

Drill Log: CFD0309

Easting	584518.88	Hole Length	161 m	Prospect	Supremo T4	Drill Started	Jul 05, 2013	Comment	T4005
Northing	6973952.25	Azimuth	272 °	Target	T4	Drill Completed	Jul 06, 2013		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	JCurrie	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1203.47 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb	mgrn		Boulders of felsic gneiss, bts and andesite dyke.
6.0 - 9.3	MxF	mgrn	Fol-mod	Zone: Strong sil-ser altn of schist, 1-3% diss oxides varying, 7.3-7.45m contains intense clay-silica flooding of possible YC, Limonite grades out to 1% diss as replacement of felsic minerals with clay also weakens.
		6.0 - 7.3	Pervasive Weak Sericitisation	Replaces Felsics Weak Clay
		7.3 - 7.5	Pervasive Intense Clay	Replaces Clasts Moderate Silicification Replaces Mafics Weak Sericitisation
		7.5 - 28.0	Pervasive Weak Silicification	Fracture Controlled Weak Fe-carb
9.3 - 28.0	FG	augn	Fol-str	Silicified felsic gneiss, minor diss hematite, 0.25% fracture control lim and Fe-carb, local calcite veining.
28.0 - 28.3	BtS	fgrn	Fol-str	4cm qtz vein x-cutting Bts, 1% diss lim and Fe-carb, mod frac ctrl clay.
		28.0 - 28.5	Fracture Controlled Moderate Clay	
28.3 - 64.0	MxF	mgrn	Fol-str	Mixed mafic gneiss. Fresh, local .1% fracture controlled oxidation
		28.5 - 64.0	Patchy Weak Silicification	
64.0 - 69.3	MxF	mgrn	Fol-str	Weak zone: Weak to mod clay-ser replacement. Multiple qtz and Fe-carb veinlets leading to high frequency of fracture controlled limonite, 0.25% throughout.
		64.0 - 69.3	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Sericitisation
		69.3 - 70.5	Pervasive Strong Silicification	Replaces Mafics Strong Sericitisation Fracture Controlled Strong Clay
69.3 - 70.5	BtRQM	fgrn	Fol-str	Zone: Strong per sil-ser altn with strong fracture controlled clay. 2-3% diss limonite and fracture ctrl hematite.
70.5 - 75.0	MxM	mgrn	Fol-mod	Weak local fracture control clay, 0.1% fc limonite. Moderate clay replacement of felsics with Bts.
		70.5 - 74.0	Fracture Controlled Weak Clay	
75.0 - 77.0	IV	fgrn		Intermediated aphanitic dyke w/ fspar phenocrysts. Upper contact is sharp with MxM, Vertical orientation striking ~145degree SE. Minor 0.25% fracture control oxidation in many orientations.
77.0 - 78.3	IV	fgrn		Zone: Mineralized dyke, strong-sil-clay pervasive altn 1-2% disseminated and fracture controlled limonite.
		77.0 - 78.3	Pervasive Strong Silicification	Fracture Controlled Strong Clay
		78.3 - 80.3	Pervasive Weak Silicification	
78.3 - 80.3	IV	fgrn	Fol-wk	Dyke with lesser .25% Frac ctrl oxidation, minor alteration. Textually shows minor strain foliations, Possible syngenetic to mineralized structures above and below.
80.3 - 81.9	IV	fgrn		Zone: Strong pervasive silica bleaching, strong fracture controlled clay, 3% diss limonite and fc hematite. As up to 2000ppm spot.
		80.3 - 81.4	Pervasive Moderate Silicification	Fracture Controlled Strong Clay
		81.4 - 82.0	Fracture Controlled Strong Clay	Pervasive Weak Silicification
81.9 - 82.5	IV	fgrn		Weak zone, above mineralized dyke with 0.5% fracture controlled limonite and mod frac ctrl clay altn.
		82.0 - 82.5	Fracture Controlled Moderate Clay	
82.5 - 86.7	IV	fgrn	Fol-mod	Aphanitic intermediate dyke, phenocrysts still visible, mod to strong N-S striking steep foliation.
		82.5 - 86.6	Pervasive Weak Silicification	Pervasive Weak Sericitisation
		86.6 - 137.0	Fracture Controlled Weak Silicification	Fracture Controlled Weak Clay

86.7 - 137.0	MxF	mgrn	Fol-str	Varibly altered gnies, local .25% frac ctrl limonite with weak clay. 0.1-0.25% diss hematite.
137.0 - 137.5	MsRQM	fgrn	Fol-str	Weak Zone: waek clay altn of felsic, weak perv silicifiacton. 0.5% diss limonite.
		137.0 - 138.3	Pervasive Strong Silicification	Fracture Controlled Strong Clay
137.5 - 138.3	BtS	mgrn		Zone: strong to intense silica-ser altn w/ strong fracture control clay. <1cm wide buck qtz veins at core with liminte matrix breccia pipe at upper contact with Bts. Silica flooding and limonite content highest adjacent to this. 1-35 diss limonite and 1% hematite stringers.
138.3 - 139.5	BtS	silc		Weak zone, intense silicification, weak fc clay. 0.25% diss limonite. .55 hem stringers.
		138.3 - 139.5	Pervasive Intense Silicification	
139.5 - 161.0	MxF	cgrn	Fol-str	Weakly altered gneiss, 0.1% diss hematite.

Drill Log: CFD0310

Easting	584927.07	Hole Length	173 m	Prospect	Supremo T4-5	Drill Started	Jul 06, 2013	Comment
Northing	6973284.36	Azimuth	280 °	Target	T5	Drill Completed	Jul 08, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Jcurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1090.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb	cgrn		Boulders of mafic augen bearing gneiss, weak fracture controlled limonite
		0.0 - 11.7	Fracture Controlled Moderate Clay	Replaces Mafics Weak Sericitisation
6.0 - 11.7	BtS	mgrn	Fol-mod	Variable altered schist with mod fracture controlled clay t and 0.0% diss hematite.
11.7 - 12.0	BtS	silc		Zone: Strong pervasive silica and clay alteration. Primary texture destroyed. 1% fracture controlled limonite.
		11.7 - 12.0	Pervasive Strong Clay	Pervasive Strong Silicification
12.0 - 27.0	MxM	mgrn	Fol-mod	Weak ser replacement of mafics and clay replacement of felsics. Fracture controlled silica flooding. Variably altered throughout. Minor 0.1% diss limonite, no As anomaly.
		12.0 - 27.0	Replaces Felsics Weak Clay	Replaces Mafics Weak Sericitisation Fracture Controlled Weak Silicification
27.0 - 28.0	BtS	silc		Straing silica and Fe-carbonate alteration of Bts, 5cm core of angular silicified clast supported Fe-carb schist with chalcedonic silica-carbonate matrix. Minor manganese and qtz micro veining/infill.
		27.0 - 28.0	Pervasive Strong Fe-carb	Pervasive Moderate Silicification
28.0 - 37.0	MxM	mgrn	Fol-mod	Variably altered, mod fract ctrl clay with bts locally pervasive, weak silica altn of FG. 0.1% fracture ctrl limonite throughout.
		28.0 - 37.0	Fracture Controlled Moderate Clay	Fracture Controlled Weak Silicification Replaces Felsics Weak Clay
37.0 - 38.0	BtS	fgrn	Fol-str	Zone: Strong pervasive silica-clay alteration with weak stockwork of fe-carbonate veinlets. 2% diss limonite, 0.25% fe-carb content.
		37.0 - 38.0	Pervasive Strong Fe-carb	Pervasive Moderate Silicification
38.0 - 38.1	YC	matx		Zone: sub angular silicified clast polyphase bx win lim-silica matrix. N-S striking steep contact with Strongle altered Fe-carb bts and Fe-carb veins. !% fe-carb, matrix - 0.5% diss oxides, 0.1% brassy py blebs, clasts- 1% diss limonite.
		38.0 - 38.1	Pervasive Strong Silicification	
38.1 - 39.0	BtS	silc	Fol-str	Intense silicc flooding of Bts, pblast texture still visible, strong stockwork of Fe-carb veinlets
		38.1 - 40.0	Pervasive Intense Silicification	
39.0 - 39.6	HU	silc		Intense silica flooding and crackle bx tex or stockwork of Fe-carb veinlets. 10% fe-carb. .25% euhedral brassy pyrite cubes in fe0carb micro bx texture.
39.6 - 40.1	HU	silc		Zne: Intense red-brown silicified 2% diss lim and hematite. Minor fe-carb veinlets. Visible colour change from above fe-carb unit.
		40.0 - 42.0	Replaces Mafics Moderate Sericitisation	Replaces Felsics Moderate Silicification
40.1 - 41.8	BtS	silc		Strong pervasive silica-fe carb alteration.
41.8 - 42.1	BtS	mgrn	Fol-str	Zone: Mod silica-ser altn, 2% diss limonite.
		42.0 - 124.0	Fracture Controlled Weak Silicification	Fracture Controlled Weak Sericitisation
42.1 - 124.0	MxM	biot	Fol-str	Mixed gneiss, variable altered, minor zones of .25% diss hem. 30cm Fe-carb flooded shear at 70m.

124.0 - 128.3	BtS	mgrn	Fol-str	Bts and Bt-RQM locally, high strain zones exhibit strong Fe-carb altn with .1% blebby pyrite and .5 diss limonite. 1? Fe-carb and calcite stringers to stockwork. Weak sericite alteration observed in fresh windows. Two short clay rich faults present with oxidation strngest around them.	
		124.0 - 128.3	Vein Selvege	Moderate Fe-carb	Replaces Mafics Weak Sericitisation
128.3 - 135.9	MxM	mgrn	Fol-str	Weak silica altn, local epidote veining.	
		135.5 - 136.1	Fracture Controlled	Strong Fe-carb	Replaces Felsics Weak Silicification
135.9 - 136.0	Ycarb	bxm		Fe-carb silica matrix microbreccia. X-cuttin fe-cabr altered Bts N-S vertically.	
136.0 - 153.2	BtS	mgrn	Fol-str	Variably altered bts with common calcite/Fe-carb veining and asscotiated fracture controlled carbonate alteration.	
		136.1 - 153.2	Fracture Controlled	Weak Silicification	Fracture Controlled Moderate Fe-carb
153.2 - 154.3	BtRQM	silc	Fol-str	Intense pervasive silica flooding and high density stockwork of Fe-carb veinlets. 0.5% diss limonite, 0.1% sub to euhedral pyrite and hematite.	
		153.2 - 154.2	Replaces Felsics	Intense Silicification	Moderate
		154.2 - 154.5	Replaces Matrix	Strong Clay	Replaces Clasts Moderate Silicification
154.3 - 154.4	Ycarb	bxl		Weak Zone: btsRQM and qtz vein clast supported matri with 0.255 diss lim and fe-carb infill matrix. Mod to strong silicification of clasts.	
154.4 - 157.5	BtRQM	fgrn	Fol-str	Moderate sericite altn and clay replacement of felis minerals. Foliation is steepened, common fe-carb veins, 0.5% sub to euhedral pyrite partially oxidized and in blebs. 0.25% diss limonite throughout. 7mm wide qtz vein trending shallow N-S displaced by calcite veinlet steep N-S.	
		154.5 - 157.4	Replaces Felsics	Moderate Clay	Pervasive Moderate Silicification
		157.4 - 173.0	Pervasive	Weak Silicification	
157.5 - 173.0	MxM	mgrn	Fol-str	Fresh mixed mafic gneiss.	

Drill Log: CFD0311

Easting	584826.01	Hole Length	221 m	Prospect	Supremo T4-5	Drill Started	Jul 09, 2013	Comment	T5008
Northing	6973299.26	Azimuth	275 °	Target	T5-ENE	Drill Completed	Jul 11, 2013		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Jcurrie	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1078.69 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb	silc		Augen gneiss and Bts, minor silica and fracture control clay altn.
6.0 - 21.0	MxM	silc		Moderate fracture controlled altn, weak local clay and limonite. Two zones of increased fracture control limonite <.5% At 10-10.4m and 20.25-.35m.
		10.0 - 11.4	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification
		11.4 - 20.3	Fracture Controlled Moderate Silicification	Replaces Mafics Weak Sericitisation Fracture Controlled Weak Clay
		20.4 - 21.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay
21.0 - 44.7	MxM	mgrn	Fol-str	Bts dominant gneiss, local weak sil and clay altn.
		21.0 - 44.7	Fracture Controlled Weak Silicification	Replaces Mafics Weak Sericitisation Patchy Weak Clay
44.7 - 46.3	FG	silc		Intensely silicified FG with multiple large buck qtz veins oriented N-S moderately dipping running low angle to core axis. High frequency of fe-carb veinlets.= and 0.25% blebby brassy pyrite present.
		44.7 - 46.3	Pervasive Intense Silicification	
		46.3 - 65.8	Replaces Felsics Moderate Clay	Fracture Controlled Moderate Clay
46.3 - 65.8	MxM	mgrn	Fol-str	mod chlorite-clay alteration of Bts with lesser silicified felsic gneiss.0.25% fc limonite locally and 0.1% diss hematite in felsic intervals.
65.8 - 67.0	BtS	silc		Intense silica flooding of Bts, 25 diss lim and hematite. Moderate frc ctrl clay. Upper contact ~20cm is intense pervasive clay with lesser diss oxides.
		65.8 - 66.8	Pervasive Intense Silicification	Fracture Controlled Moderate Clay Replaces Mafics Weak Sericitisation
		66.8 - 67.0	Pervasive Intense Clay	
67.0 - 86.5	BtS	mgrn	Fol-str	Minor frac ctrl oxidation, common calcite veining. clay altered lower cotnact with below lith.
		67.0 - 67.5	Replaces Felsics Moderate Clay	
86.5 - 87.2	YC	bxi		Zone: pervasice silica-clay. Silicified clast supported breccia with limonitic clay latrux and stock work of carbonate veinlets. 0.255 diss limonite.
		86.5 - 87.2	Replaces Matrix Intense Clay	Pervasive Intense Silicification
		87.2 - 113.2	Fracture Controlled Weak Clay	
87.2 - 113.3	MxM	mgrn	Fol-str	Weak fracture controlled clay-limonite alteration. Weak sericite altn of biotite.
		113.2 - 114.0	Replaces Felsics Moderate Clay	Pervasive Weak Silicification
113.3 - 113.8	HU	mud		Intense pervasive sil-er-cy alteration of Bts. 3% diss lim, 1% frc ctrl hem. Two major veins included. T5: N-S strike vertical, 1.5cm wide silica-limonite matrix micro bx with fgrr rounded qtz clasts. Link: N-S strike moderate dip parallel w/ core axis. Laminated qtz-limonite w/lim selvedge w/ fgrr silica-lim matrix in wider sections. Silica vinlets possibly sigmoidal geometry from T5 vertical structure to the "link" structure. 0.5% subhedral py and hem observed on upper contact of T5 structure.
113.8 - 115.2	BtS	mgrn	Fol-wk	Mod perv sil-ser altn. 1-2% diss limonite. Interval contains laminated chacedonic qtz-lim vein possibly mod dipp link structure striking N-S. Strong clay alteration at upper contact including 0.25% fc lim.
115.2 - 118.0	BtS	mgrn	Fol-str	~1% calcite/Fe-carb planar veinlets
118.0 - 119.2	BtRQM	fgrr	Fol-str	Strong ervasive clay and mod silica flooding. Fol texture still visible. 1% diss lim and !5 ervasive fe-carb altn. 0.25% fol parallel fe-carb and calcite veining.
		118.0 - 123.0	Replaces Felsics Weak Clay	Replaces Mafics Moderate Sericitisation

119.2 - 123.2	BtS	mgrn	Intense pervasive sil-ser, farc ctrl Fe-carb, 2-3% diss limonite with frac ctrl hematite. Both N-S limonite veinset and ENE calcite and limonite veins.		
		123.0 - 124.3	Replaces Felsics Strong Clay	Fracture Controlled Weak Clay	Pervasive Weak Sericitisation
123.2 - 124.4	HU	fgrn	Faulted, Intense alteration pevsively, ?5% diss oxides, 3% lim, 1% frac hem and 1% blebby sooty py seen in farctures. Fault zone contains stronger clay.		
		124.3 - 131.3	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Sericitisation	Replaces Felsics Moderate Clay
124.4 - 126.1	BtRQM	fgrn	Fol-str	Strong prvasive Fe-carb altn with moderate clay, 0.25% diss limonite.	
126.1 - 131.3	BtS	fgrn	Fol-str	Wk Zone: Pervasive clay and sericite alteration of Bts, moderate carbonate alteration. 1% calcite and Fe-carb planar veins both foliation parallel and x-cuttin N-S trending. Local 15 diss limonite over 25% of interval.	
131.3 - 133.2	HU	mud	Intense pervasive clay alteration, 3-5% diss lim and fracture controll/stockwork hematite. Crackle breccia immature texture. Possible dacite but wk foliation possible. 1-2mm wide limonite veinlets vertical N-S trending.		
		131.3 - 133.8	Pervasive Strong Clay	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay
133.2 - 135.0	BtS	silc	Fol-wk	Zone: Strong pervasive silica-ser altn, mod fracture control clay/limonite. 3% diss limonite. Local crackle bx textures observed. 0.5% fe-carb stockwork interstitially.	
		133.8 - 139.6	Replaces Felsics Strong Silicification	Replaces Mafics Strong Sericitisation	Fracture Controlled Moderate Clay
135.0 - 135.3	YC	silc	angular silicified clasts in 1% clay-limonite matrix w/ 0.5% diss sooty sulphides. Breccia wall trandinf ENE using folation, dipping steeply to the north		
135.3 - 139.5	BtS	silc	Fol-mod	Zone: Strong pervasive silica-ser altn of bts, mod fracture control clay. 2-3% disseminated oxide minerals.	
139.5 - 140.8	YO	bxm	mod sil-ser altered Bts clast w/ 1% diss lim and hematite clasts in .5% limonitic clay matrix supported breccia. Varying clast sizes 1mm to 30mm locally clast supported.		
		139.6 - 139.9	Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification	
		139.9 - 144.3	Fracture Controlled Strong Clay	Replaces Felsics Strong Silicification	Replaces Mafics Moderate Sericitisation
140.8 - 144.3	BtS	silc	Mineralized Bts, strong silica-ser perv altn. Intense fracture contrll clay with descrete silicified clast breccia in 0.25% diss limonite and clay matrix. Crackle bx textures locally with interstitial clay.		
144.3 - 144.9	YO	matx	clay-limonite matrix micro breccia and sub rounded mineralized bts clast Yx and Ylim. Clas size increases downhole and silicifaction decreases.		
		144.3 - 149.5	Replaces Mafics Weak Sericitisation	Pervasive Weak Silicification	
144.9 - 146.7	BtS	mgrn	Fol-str	Transitional Zone: Strong silica w/ moderate pervasive sericite altn. 1.5% diss limonite, unoxidized windows reveal 0.5% brassy py and sooty py disseminations.	
146.7 - 149.4	MxM	mgrn	Fol-str	Weak sericite alteration and 0.15 fracture controlled limonite.	
149.4 - 150.5	BtS	silc	Fol-wk	Mod silica-ser altn of bts with 0.5% diss oxides. 3 descrete foliation parallel clay-(1%)limonite fault gouge. Slicken-lines on Bts uphole indicate Southward movement at 60degree dip.	
		149.5 - 150.5	Replaces Mafics Strong Sericitisation	Replaces Felsics Moderate Silicification	Fracture Controlled Strong Clay
150.5 - 152.4	BtS	silc	Zone: Strong to intense silica-ser altn with fracture cntrolled clay. 3-5% diss lim w. frc ctrl hematite. 150.3-150.1 contains E-NE strucutre interpreted from foliation. Structure contains strong clay-limonite and zone is intensified here.		
		150.5 - 152.4	Pervasive Intense Silicification	Pervasive Intense Sericitisation	Fracture Controlled Strong Clay
152.4 - 152.9	Ylim	Clast	mineralized bts clasts in clay-limonite interstitial matrix. Locally more mature. Contains 2% diss limonite.		
		152.4 - 153.0	Replaces Matrix Strong Clay	Replaces Clasts Strong Silicification	Replaces Clasts Moderate Sericitisation
152.9 - 153.3	BtS	silc	Fol-str	Zones: intense pervasive silic-ser altn, 3% diss oxides, sooty sulphide dissmenation visible in unoxidized window.	
		153.0 - 155.0	Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation	
153.3 - 155.0	MxM	mgrn	Fol-str	Silica sericite altered bts w/ 0.5% fracture controlled limonite.	
155.0 - 158.0	MxF	cgrn	Fol-str	Weak local clay repalcement of felsic and .1% fracture ctrl limonite.	
		155.0 - 158.0	Replaces Mafics Weak Sericitisation		
158.0 - 162.3	BtS	mgrn	Fol-str	Zone: Mod silica-ser alteration of schist, varying lim-hem content, 1-3% locally. Weak fracture controlled clay. 0.25% fol parallel qtz veins.	
		158.0 - 162.4	Replaces Mafics Moderate Sericitisation	Replaces Felsics Weak Clay	

162.3 - 163.1	YO	matx	Zone: Sil-ser altered bts w/3% diss oxide clasts in clay-lim matrix bx. Dominantly clast supported, silicified clast micro bx within matrix.		
162.4 - 163.1			Replaces Matrix Intense Clay	Replaces Clasts Moderate Silicification	
163.1 - 166.1	BtS	mgrn	Fol-str	Zone: strong sil-ser altn. 1% diss limonite up to 2% diss hematite locally.	
163.1 - 166.2			Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation	Replaces Felsics Weak Clay
166.1 - 179.6	MxF	cgrn	Fol-str	Strong qsp altn, weak fracture control oxidation, locally higher with clay alteration. Pyrite occurs as blebs or euhedral cubes.	
166.2 - 179.6			Pervasive Strong Silicification	Replaces Mafics Strong Sericitisation	
179.6 - 179.9	HU	silc	4-15cm wide porcelanic qtz and limonite matrix micro breccia vein, followed by >3% disseminated oxide HU, a deep red hematite vein along the contact with a 7cm wide opaque buck qtz vein and then more mineralized HU.		
179.6 - 182.0			Replaces Mafics Strong Sericitisation	Pervasive Strong Silicification	
179.9 - 181.5	FG	silc	Fol-str	Silicified FG with strong sericite altn of mafics. 1% diss fngr sooty and brassy py within foliation and along mulit oriented fractures. Limonite veinlets x-cutting core-13/m.	
181.5 - 184.5	BtS	cgrn	Zone: intense clay-ser pervasive alteration, brecciated buck qtz veins present and high freq hematite fracture and crackle bx textures. 3-5% disseminated oxides.		
182.0 - 184.5			Replaces Felsics Strong Silicification	Replaces Mafics Strong Sericitisation	Fracture Controlled Weak Clay
184.5 - 221.0	MxF	augn	Fol-str	Variably altered, weakly silicified throughout. .25% fine grain brass pyrite dissemination and .1% fracture controlled limonite.	
184.5 - 212.0			Fracture Controlled Weak Silicification		

Drill Log: CFD0312

Easting	584692.45	Hole Length	209 m	Prospect	Supremo T4-5	Drill Started	Jul 10, 2013	Comment
Northing	6973251.62	Azimuth	274 °	Target	T5	Drill Completed	Jul 11, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	GNewton	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1041.42 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			Large cobbles, angular to subangular. Mainly AmBtS, minor FG
9.0 - 13.2	AmBtS	lamn	Crenul	Very broken dark green Fgr to Mgr AmBtS. Fractures // foln & other orientations, locally rubbly. Minor beds of more felsic material, often silicified, beds // foln.
		9.3 - 13.2	Patchy Moderate Silicification	Vein Selvege Weak Epidote Patchy Weak Calcite
13.2 - 17.0	SZ	mylo	Fol-str	Gradational upper contact with AmBtS: increase in Epid+HmCte stringers & intensifying foln. Contact // foln.
		13.2 - 17.0	Pervasive Strong Chlorite	Vein Selvege Moderate Epidote Patchy Weak Silicification
17.0 - 27.5	AmBtS	lamn	Fol-str	Gradational upper contact with SZ: weaker fracturing/foliation. Broken dark green Fgr to Mgr AmBtS. Fractures // foln & other orientations, locally rubbly. Minor beds of more felsic material, often silicified, beds // foln.
		17.0 - 27.5	Patchy Moderate Silicification	Vein Selvege Weak Epidote Patchy Weak Calcite
27.5 - 34.7	SZ	mylo	Fol-str	Gradational upper contact with AmBtS: increase in Epid+HmCte stringers & intensifying foln. Contact // foln.
		27.5 - 34.7	Pervasive Strong Chlorite	Vein Selvege Moderate Epidote Patchy Weak Silicification
34.7 - 69.0	AmBtS	lamn	Fol-str	Gradational upper contact ith SZ. Decreasing intensity of foln & fracturing. Contact // foln. Slivers of hematized & silicified felsic gneiss cut by Chl stringers: 47.85-48.35 & 54.5-55.15.
		34.7 - 62.5	Pervasive Strong Chlorite	Vein Selvege Moderate Epidote Patchy Weak Silicification
		62.5 - 69.0	Pervasive Moderate Chlorite	Vein Selvege Weak Epidote Patchy Weak Silicification Sericite along foliation locally
69.0 - 153.5	BtS	lamn	Fol-str	Gradational upper contact with AmBtS over ~1m. BtS is finer-grained, decreased epidote. Minor slivers, <20cm wide, of hematized, silicified felsic gneiss // foln. Strongly foliated at low angle TCA. Foliation crenulated locally, especially where sericite is strongest along foln. Massive opaque white Qz vn 142.13-142.38m.
		69.0 - 112.7	Pervasive Moderate Chlorite	Vein Selvege Weak Epidote Patchy Weak Calcite
		112.7 - 113.3	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		113.3 - 119.5	Pervasive Weak Silicification	Pervasive Moderate Chlorite Vein Selvege Weak Calcite
		119.5 - 127.7	Replaces Felsics Moderate Clay	Pervasive Moderate Chlorite Vein Selvege Weak Calcite
		127.7 - 138.5	Patchy Weak Silicification	Patchy Moderate Chlorite Replaces Felsics Weak Clay Foln-// bands 30-50cm wide of silicification. Clay replacing Fsp sericite along foln
		138.5 - 140.3	Pervasive Moderate Silicification	Pervasive Moderate Clay Replaces Felsics Moderate Sericitisation
		140.3 - 142.1	Pervasive Moderate Silicification	Replaces Felsics Weak Clay Pervasive Moderate Sericitisation
		142.4 - 147.8	Patchy Weak Silicification	Replaces Mafics Weak Chlorite Replaces Felsics Weak Sericitisation
		147.8 - 151.6	Patchy Weak Silicification	Replaces Mafics Moderate Chlorite Replaces Felsics Weak Sericitisation
		151.6 - 192.9	Patchy Weak Silicification	Patchy Moderate Chlorite Replaces Felsics Moderate Sericitisation Felsic intervals silicified, hematized locally. BtS intervals chloritized. Ser along foliation locally in both.
153.5 - 192.9	MxM	band	Fol-mod	Gradational upper contact with BtS: increase in amount & thickness of felsic bands.
192.9 - 197.9	FC		Fol-wk	Sharp upper & lower contacts, roughly // foln. Weakly to moderately foliated. Cut by minor Qz vns & Lim stringers, also foln-//. Contains 15-20cm slivers of gneiss & BtS // foln.
		192.9 - 197.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation

197.9 - 199.7	BtS	lamn	Fol-mod	Sharp upper contact with FC. Strongly foliated at low angle TCA.			
		197.9 - 199.7	Pervasive Weak Silicification		Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Sericitisation	
199.7 - 201.9	MxM			Gradational upper & lower contacts with BtS. Increasing oxidation & clay alteration. Orange, locally silicified, crumbly where not.			
		199.7 - 201.9	Pervasive Strong Clay		Replaces Felsics Moderate Sericitisation	Patchy Weak Silicification	Crumbly where not silicified
201.9 - 209.0	BtS	lamn	Fol-mod	Gradational upper contact with crumbly FG: decreasing oxidation & clay alteration. Strongly foliated at low angle TCA.			
		201.9 - 209.0	Pervasive Weak Silicification		Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Sericitisation	

Drill Log: CFD0313

Easting	584783.45	Hole Length	236 m	Prospect	Supremo T4-5	Drill Started	Jul 13, 2013	Comment
Northing	6973300.79	Azimuth	270 °	Target	T5	Drill Completed	Jul 16, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	GNewton	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1070.67 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments			
0.0 - 9.3	OVb			Cobbles & boulder fragments, mainly fresh BtS.			
9.3 - 24.0	BtS		Fol-mod	Very broken, crumbly, oxidized & clay-altered. 2 sets of Lim +/- Cte stringers/Vns: 1 foln-//, 1 X-cutting.			
		9.3 - 11.8	Pervasive Strong Clay	Vein Selvege Moderate Calcite			
		11.8 - 16.7	Pervasive Intense Clay				Obliterates textures locally
		16.7 - 23.9	Pervasive Strong Clay	Patchy Weak Silicification			Locally silicified & more competent
		23.9 - 26.2	Pervasive Weak Silicification	Pervasive Strong Clay			Clay replacing Fspr, along foln planes & fractures, locally perva:
24.0 - 28.6	MxF		Fol-mod	Planar contact // foln with overlying BtS. Sericite replacing Fspr & growing along foln. Minor bands of BtS, mainly FG. Bands of FG & BtS are foln //			
		26.2 - 28.6	Pervasive Moderate Silicification	Replaces Felsics Weak Clay			
28.6 - 41.7	BtS		Fol-mod	Planar upper contact with MxF // foln. Foln // beds of FG become very infrequent (+/- 5%).			
		28.6 - 34.4	Pervasive Weak Silicification	Replaces Mafics Strong Chlorite	Replaces Felsics Weak Sericitisation		Silica overprinting Chl (almost all mafics Chltd) & minor Ser al foln
		34.4 - 41.7	Pervasive Moderate Chlorite	Patchy Moderate Calcite	Replaces Felsics Weak Sericitisation		Calcareous throughout locally. Ser along foln.
41.7 - 45.3	FG		Fol-wk	Planar upper contact with BtS // foln. Silicified, gneiss with vfgr diss Hm throughout.			
		41.7 - 45.3	Pervasive Moderate Silicification	Replaces Felsics Weak Sericitisation			
		45.3 - 53.6	Pervasive Moderate Chlorite	Fracture Controlled Weak Clay	Patchy Moderate Calcite		Calcareous throughout locally. Ser along foln.
45.3 - 53.6	BtS		Fol-mod	Planar upper contact with MxF // foln. Foln // beds of FG become very infrequent (+/- 5%). Strong Chl replacing mafics & minor chl vns // foln. Cte+Lim stringers // foln & X-cutting foln.			
53.6 - 73.4	MxM		Fol-mod	Planar upper contact with BtS // foln. Interbedded FG & BtS. Gneiss is silicified & hematized. Schist is chloritized & sericitized. Rare 2-3cm Qz Vns, mainly foln-//. Rock & Qz vns cut by hairline Cte+Lim stringers, foln-// & at random orientations.			
		53.6 - 73.4	Patchy Moderate Silicification	Fracture Controlled Moderate Clay	Patchy Moderate Chlorite		FG intervals & some BtS silicified. Some non-silicified BtS calcareous.
73.4 - 74.1	HU			Gradational upper contact with BtS above; clay altn increases over ~10cm, obliterating texture.			
		73.4 - 74.1	Pervasive Intense Clay				
74.1 - 75.1	BtS		Fol-mod	Gradational upper contact with HU: decreasing clay altn, visible texture. Strongly oxidized & clay-altered.			
		74.1 - 75.1	Pervasive Strong Clay				Weakly calcareous throughout. Ser along foln.
75.1 - 85.8	BtS		Fol-mod	Gradational upper contact: decreasing oxidation & clay alteration. Fgr-Mgr BtS with strongly oxidized patches (<30cm core length, ~20% of interval). Chl replacing Bt throughout, clay alteration in oxidized patches.			
		75.1 - 85.8	Patchy Moderate Clay	Pervasive Strong Chlorite	Pervasive Weak Calcite		
85.8 - 90.9	BtS		Fol-mod	Gradational upper contact: increasing oxidation & clay alteration. Strong-to intensely clay-altered BtS. Foln obscured & locally erased.			
		85.8 - 90.9	Pervasive Strong Clay	Pervasive Moderate Calcite	Pervasive Moderate Chlorite		
90.9 - 94.8	BtS		Fol-mod	Gradational upper contact with BtS: decreasing oxidation & clay alteration. Broken, moderately-to-strongly clay-altered BtS. No strong veins/fabrics other than schistosity.			
		90.9 - 94.8	Pervasive Moderate Clay	Pervasive Moderate Calcite	Pervasive Moderate Chlorite		

94.8 - 97.3	BtS		Fol-mod	Gradational contact: decreasing oxidation & Lim.	
		94.8 - 97.3	Fracture Controlled Weak Clay	Pervasive Strong Calcite	Pervasive Moderate Chlorite
97.3 - 99.2	HU			Gradational upper contact: increasing intensity of clay altn. Intensely clay-altered, weak, obscured foliation visible locally.	
		97.3 - 99.2	Pervasive Intense Clay	Pervasive Moderate Calcite	
99.2 - 100.3	Yx			Gradational contact over ~10cm: increasing density of veins/Bx Matx. Clast supported, ~5% matx, 95% in-situ btS clasts. Strong to locally intense Clay altn, highly calcareous throughout clasts & matx. Lim & Hm in both clasts & matx.	
		99.2 - 103.5	Pervasive Strong Clay	Pervasive Moderate Calcite	Replaces Mafics Moderate Chlorite
100.3 - 101.0	Ycarb			Gradational contact over ~10cm: increasing % matx. Clast-supported, 70% rounded orange, clay altered & oxidized BtS clasts in orange clay Matx. Both clasts & matx calcareous, except for rare silicified clasts. White Cte Vns cutting across mat & around clasts. Lim+Hm in both Matx & clasts.	
101.0 - 101.6	Yx			Gradational contact over ~10cm; rock more coherent/less fractures. Clast supported, ~5% matx, 95% in-situ btS clasts. Strong to locally intense Clay altn, highly calcareous throughout clasts & matx. Lim & Hm in both clasts & matx.	
101.6 - 103.5	BtS		Fol-wk	Gradational upper contact: decreasing brecciation into BtS. Strongly clay altered, calcareous & cut by Cte Vns.	
103.5 - 104.6	BtS		Fol-mod	Gradational upper contact; decreasing clay altn/oxidation. Weakly clay altered BtS, cut by Cte Vns.	
		103.5 - 104.6	Fracture Controlled Moderate Clay	Pervasive Moderate Calcite	Pervasive Moderate Chlorite
104.6 - 106.3	BtS			Gradational upper contact: increasing altn/oxidation. Strong to intense clay altn, minor Cte stringers.	
		104.6 - 107.3	Pervasive Strong Clay	Pervasive Moderate Calcite	
106.3 - 107.0	BtS		Fol-wk	Gradational upper contact: decreasing alteration/oxidation. Patchy clay altn, minor Cte Vns.	
107.0 - 114.2	BtS		Fol-wk	Biotite schist, moderate chlorite replacement throughout, patchy 1.25% limonite with carbonate, kpatches of moderate to strong clay alteration, gradational lower contact. Localized intervals of strong clay.	
		107.3 - 114.2	Patchy Strong Clay	Pervasive Moderate Chlorite	Pervasive Moderate Calcite
114.2 - 118.7	BtS		Fol-mod	Chloritized and clay altered biotite schist, clay intensity increases to strong along fractures. Fol'n parallel qtz veining.	
		114.2 - 118.7	Fracture Controlled Moderate Clay	Pervasive Weak Calcite	Pervasive Moderate Chlorite
118.7 - 121.4	BtS		Fol-wk	Strong limonite and hematite through biotite schist, strong sericite. Strong clay along fractures through rubbly zone, patchy carbonate matrix brecciated qtz vein with angular clasts from 120.75-120.87m. 1.5% disseminated limonite throughout, .5% hematite along foliation.	
		118.7 - 121.4	Fracture Controlled Strong Clay	Patchy Moderate Calcite	Replaces Felsics Moderate Sericitisation
121.4 - 123.6	BtS		Fol-mod	Chloritized biotite schist, thin x-cutting calcite veinlets, very weak limonite along fractures	
		121.4 - 123.6	Pervasive Weak Chlorite		
123.6 - 125.8	BtS		Fol-mod	Moderate clay replacement of feldspars, moderate sericite through biotite schist, limonitic carbonate veining cutting foliation. Disseminated .75% limonite.	
		123.6 - 125.8	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation	
125.8 - 131.4	BtS		Fol-mod	Biotite schist, thin networks of limonitic carbonate veining crosscutting fabric and running parallel TCA, moderate pervasive chlorite/clay alteration increasing to strong along localized fractures.	
		125.8 - 131.4	Patchy Strong Clay	Pervasive Moderate Chlorite	
131.4 - 135.9	BtS		Fol-wk	Heavily fractured, strongly clay altered along fractures, pervasive 1% limonite. Patch of moderate silicification.	
		131.4 - 135.9	Fracture Controlled Strong Clay	Pervasive Weak Calcite	Patchy Moderate Silicification
135.9 - 158.9	BtS		Fol-mod	Biotite schist interval, moderate clay along fractures and replacing feldspars, patchy moderate silicification. .25% fracture controlled limonite throughout, with very thin patches of .5% limonite at beginning of unit.	
		135.9 - 158.9	Fracture Controlled Moderate Clay	Pervasive Moderate Chlorite	Patchy Moderate Silicification
158.9 - 170.5	BtS		Fol-mod	Fractured and broken interval of biotite schist, moderate clay along fractures, patches of moderate silicification. Weak pervasive sericite.	
		158.9 - 170.5	Fracture Controlled Moderate Clay	Patchy Moderate Silicification	Pervasive Moderate Chlorite
170.5 - 184.3	BtS		Fol-mod	localized moderate to strong clay along fractures in biotite schist, patchy silicification, moderate sericite throughout. Limonitic carbonate veins crosscutting fabric. .25% fracture controlled limonite. Localized increase in feldspar size to .5cm	
		170.5 - 184.3	Fracture Controlled Moderate Clay	Patchy Moderate Silicification	Pervasive Moderate Chlorite
184.3 - 195.0	MxF		Fol-mod	Coarse silicified feldspar augens with white mica defining foliation, gradational transitions to finer feldspars and biotite content in thin patches. Coarse muscovite, .5% fracture controlled hematite along well-developed fractures. Very rubbly zone from 187-187.8m with moderate clay.	
		184.3 - 195.0	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation

195.0 - 204.7	FG	Fol-mod	Patchy strong silicification of felsic gneiss, fine pyrite along foliation oxidizing to hematite (.1%). 70cm zone from 198.3-199m with 1% disseminated limonite and .25% disseminated hematite. Moderate clay along fractures, and in rubble zones. Patchy strong silicification. Thin limonite+calcite stringers both at random orientations and in a set of parallel fractures which cut foliation.	
	195.0 - 198.3	Patchy Strong Silicification	Pervasive Moderate Sericitisation	
	198.3 - 199.0	Pervasive Moderate Clay	Pervasive Weak Sericitisation	
	199.0 - 204.7	Patchy Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay
204.7 - 208.9	FG	Fol-mod	Strongly silicified felsic gneiss, multiple generations of sharp fractures throughout with limonitic infill. Feldspar augens are clay altered and weakly pitted out. Moderate sericite alteration. Foliation parallel qtz veins with limonite on fractured surfaces.	
	204.7 - 208.9	Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
208.9 - 211.9	MxF	Fol-mod	Strong sericite and silicification throughout, with strong sericite concentrated within thin slips of biotite schist (30cm). Patchy oxidation with .75% disseminated limonite throughout. Weak clay along fractures.	
	208.9 - 211.9	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay
211.9 - 213.4	MxF	Fol-mod	Strongly oxidized mixed gneiss with foliation parallel dominant fracture system with strong clay along it's plane, continues over entire interval. Strong sericite and moderate silicification throughout. Thin immature breccia textures forming over 10cm intervals within relict schistose texture.	
	211.9 - 213.4	Pervasive Moderate Silicification	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation
213.4 - 223.3	MxF	Fol-mod	Interval with strong pervasive silicification of felsic gneiss panels, moderate chlorite alteration of interleaved biotite schist. 1% brassy and oxidizing fine pyrite distributed along foliation. Thin hematite veinlets crosscutting foliation of gneiss. Patchy oxidation with weak clay alteration throughout.	
	213.4 - 223.3	Pervasive Strong Silicification	Patchy Weak Clay	Replaces Mafics Moderate Chlorite
223.3 - 225.4	BtS	Fol-str	Intensely sericitized biotite schist, strong disruption of foliation, fine pink hematite in patchy disseminations, strong silicification. Foliation parallel qtz veins, and crosscutting limonitic calcite veinlets.	
	223.3 - 225.4	Pervasive Intense Sericitisation	Pervasive Strong Silicification	Fracture Controlled Weak Clay
225.4 - 228.4	MxF	Fol-mod	Oxidized and fractured felsic gneiss interval, moderate pervasive silica with moderate clay along fractures in broken zones, thin interval of unoxidized and strongly calcareous biotite schist from 225.88-226.3m. .75% disseminated limonite with increase to 1% along fractures.	
	225.4 - 228.4	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification	
228.4 - 236.0	BtS_carb	Fol-mod	Biotite schist, thin felsic intervals (30cm). Strongly calcareous, with trace fracture controlled limonite and moderate white clay in some fracture zones. Weak chlorite alteration.	
	228.4 - 236.0	Pervasive Strong Calcite	Pervasive Weak Chlorite	

Drill Log: CFD0314

Easting	583151.8	Hole Length	134 m	Prospect	Sumatra	Drill Started	Jul 16, 2013	Comment
Northing	6973999.52	Azimuth	174 °	Target		Drill Completed	Jul 17, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Ebuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1143.86 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 24.9	BtS	pblst	Fol-mod	Biotite schist, commonly pitted along foliation, moderate pervasive clay alteration targeting feldspars. Some fracture zones disaggregated, trace fracture controlled limonite.
		6.0 - 24.9	Replaces Felsics Moderate Clay	Replaces Mafics Weak Chlorite
24.9 - 26.3	MsS	pblst	Fol-mod	Oxidized qtz-fs-msc schist, 1% disseminated limonite, moderate clay replacement of feldspars, fractures contain strong limonite + moderate clay alteration. Moderate sericite.
		24.9 - 26.3	Replaces Felsics Moderate Clay	Pervasive Moderate Silicification Pervasive Moderate Sericitisation
26.3 - 35.3	BtS	pblst	Fol-mod	Variably coarse porphyroblasts of feldspars in biotite schist, weak fracture controlled limonite, foliation parallel buck quartz veins with no visible selvage. weak to moderate clay along fracture planes. Thick quartz vein from 39.0-39.4m, of same character as thinner (<5cm) veins in interval.
		26.3 - 35.3	Replaces Felsics Moderate Clay	Replaces Mafics Weak Chlorite Fracture Controlled Moderate Clay
35.3 - 46.2	MxM	pblst	Fol-str	Coarse quartz domains in felsic slips through pitted and clay altered biotite schist. Limonite-carbonate veinlets make appearance crosscutting foliation, schist begins to become carbonate-rich along foliation. Very weak foliation through coarse feldspar biotite schist from 37.55-38.3, .25% fracture controlled limonite and multiple generations of limonite stringers.
		35.3 - 46.2	Fracture Controlled Moderate Clay	Replaces Mafics Weak Chlorite Patchy Moderate Silicification
46.2 - 52.0	MsS	musc	Fol-str	Zone: gradational upper contact (oxidizing) with biotite schist unit. Heavily oxidized (2.5% limonite, 2% hematite) schistose host. Relict foliation-hosted (disseminated) mineralization. Foliation now defined by muscovite/sericite and qtz. Strong clay along fracture surfaces in rubble zones (47.10-47.80m, 50-50.7m), which are completely disaggregated. Strong silica/sericite throughout, quartz veins fractured and broken up. Strongest mineralization appears to be hosted along foliation.
		46.2 - 52.0	Fracture Controlled Strong Clay	Pervasive Strong Silicification Pervasive Strong Sericitisation
52.0 - 55.4	MsRQM	qtz	Fol-str	Zone: continuation of previous unit. Strong foliation defined by thin quartz ribbons. 1.5% disseminated limonite, with second generation of hematitic oxiation accounting for .75%. Strong fracture controlled clay alteration, coarse sericite, foliation parallel quartz veining. Foliation decreases in strength at end of unit.
		52.0 - 55.4	Fracture Controlled Strong Clay	Pervasive Strong Sericitisation Pervasive Moderate Silicification
55.4 - 60.9	BtS	pblst	Fol-mod	Biotite schist, moderate pervasive sericite, .5% fracture controlled limonite, moderate clay replacing feldspars throughout.
		55.4 - 60.9	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
60.9 - 70.0	BtS	silc	Fol-mod	Heavily altered biotite schist. Patches of strong silicification, strong clay replacement of feldspars, moderate patchy clay. Quartz veining, coarse areas of muscovite.
		60.9 - 70.0	Fracture Controlled Moderate Clay	Patchy Strong Silicification Pervasive Moderate Sericitisation
70.0 - 72.6	MsS	musc	Fol-mod	Fractured muscovite-sericite schist, coarse feldspars in areas. Moderate pervasive silica, up to 1% limonite along fractures. Coarse muscovite defining foliation. Moderate clay along fractures.
		70.0 - 72.6	Fracture Controlled Moderate Clay	Pervasive Strong Sericitisation Pervasive Moderate Silicification
72.6 - 73.9	MsS	musc	Fol-mod	Zone: strongly fractured and broken schist, strong pervasive clay and carbonate alteration. 1.5-2% disseminated limonite. Multiple generations of limonite/carbonate fracture fill veinlets, strongest oxides along most broken interval (72.7-73.3m).
		72.6 - 73.9	Fracture Controlled Strong Clay	Patchy Strong Calcite Pervasive Moderate Sericitisation

73.9 - 77.7	BtS_carb	pblst	Fol-mod	Moderate chlorite after pervasively calcareous biotite schist. Multiple generations of limonitic carbonate veinlets crosscutting foliation and generating mild stockwork patterns. Foliation parallel quartz veins. Moderate sericite/clay replacement of feldspar at end of unit, with beginning of strong fracture controlled clay.		
		73.9 - 77.7	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Sericitisation	Pervasive Strong Calcite	
77.7 - 81.3	MsS	musc	Fol-mod	Weaker zone: heavily fractured schist, 1.5% limonite along fractures, strong patchy clay alteration on most fractured zones, multiple generations of limonite		
		77.7 - 81.3	Patchy Strong Clay	Pervasive Moderate Sericitisation		
81.3 - 96.5	BtS_carb	pblst	Fol-mod	Calcareous biotite schist. Multiple generations of buck quartz veining, moderate chlorite throughout, trace fracture controlled limonite.		
		81.3 - 92.9	Replaces Mafics Moderate Chlorite	Pervasive Strong Calcite	Fracture Controlled Moderate Clay	
		92.9 - 134.0	Replaces Mafics Moderate Chlorite	Pervasive Strong Calcite	Patchy Strong Epidote	
96.5 - 134.0	BtS_carb	pblst	Fol-mod	Biotite schist with strong carbonate throughout. Patchy strong epidote, moderate pervasive chlorite. Areas of strong fracturing and associated strong clay alteration. Rare thin slips of felsic gneiss (20-30cm).		

Drill Log: CFD0315

Easting	583453.84	Hole Length	293 m	Prospect	Sumatra	Drill Started	Jul 17, 2013	Comment
Northing	6974402.9	Azimuth	180 °	Target		Drill Completed	Jul 19, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Ebuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1246.78 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
		0.0 - 6.0		
6.0 - 7.9	HU		Fol-wk	Zone: intense clay alteration of host with barely visible schistose texture in areas. 3% disseminated limonite, 1% hematite. Local Ylim with strong limonite-clay matrix from 6.0-6.3m. Clasts are weakly foliated and generally insitu, no rotation, angular.
		6.0 - 7.9	Pervasive Intense Clay	Pervasive Strong Sericitisation
7.9 - 8.6	BtS		Fol-mod	Weak zone through biotite schist. Strong pervasive clay alteration with moderate chlorite, foliation approx. 45 degrees TCA. Moderate sericite, heavily oxidized along plentiful fractures, with 1.5% limonite/clay along fractures. Dominantly rubble.
		7.9 - 8.6	Pervasive Strong Clay	Pervasive Moderate Sericitisation Replaces Mafics Moderate Chlorite
8.6 - 9.8	BtS		Fol-mod	Zone: 2% disseminated limonite along foliation of biotite schist. Biotite strongly altered to sericite, thin bands of quartz + sericite define relict foliation. Moderate to strong clay along fractures through rubble zone. Patch of pervasive white clay alteration from 9.4-9.7m.
		8.6 - 9.8	Fracture Controlled Strong Clay	Pervasive Strong Sericitisation
9.8 - 11.0	Ylim		Fol-wk	Zone: breccia with limonite-clay matrix defined by strong pervasive clay alteration of schistose host. Interval is dominantly rubble, with breccia textures formed through removal of clay matrix in areas. Clasts are angular and appear to be insitu, no sense of rotation or movement, and display schistose texture. 1.5-2% disseminated limonite. Strong chlorite from 10.60-10.80m in heavily fractured host.
		9.8 - 11.0	Pervasive Strong Clay	Pervasive Moderate Sericitisation Patchy Strong Chlorite
11.0 - 13.2	BtS		Fol-mod	Weak zone: strongly clay altered biotite schist, biotite replaced by chlorite and sericite. Moderate foliation running approx. 45 degrees TCA. 1.5% limonite disseminated along foliation.
		11.0 - 13.2	Pervasive Strong Clay	Pervasive Moderate Sericitisation Replaces Mafics Moderate Chlorite
13.2 - 14.3	Ylim		Fol-wk	Strong zone: strong-intense clay matrix-supported limonitic breccia. Fine to medium sized angular clasts of relict schistose host. Pervasive strong clay alteration with 3% limonite. Increase to 3.5% limonite over intensely altered interval from (start at block) 13.65-14.0m. End of unit slightly more structured with moderate pervasive clay and more competent rock.
		13.2 - 14.3	Pervasive Intense Clay	Pervasive Strong Sericitisation
14.3 - 19.8	BtS		Fol-mod	Zone: strong sericite and moderate clay alteration of biotite schist, 2% disseminated limonite along foliation. Moderate silicification accompanies sericite alteration within competent schistose sections. Local Ylim breccias up to 20cm in sized defined by intense clay alteration leading to complete disaggregation of interval. Increase in limonite to 3% within these intervals.
		14.3 - 19.8	Pervasive Strong Clay	Pervasive Moderate Sericitisation Pervasive Moderate Silicification
19.8 - 21.3	BtS		Fol-mod	Weak zone: strong silica-sericite alteration of biotite schist. Heavily fractured with area of rubble from 20.10-20.40m. Strong white clay along fractures, lower levels of limonite throughout. 1% disseminated limonite, peak of 1.5% along fractures.
		19.8 - 21.3	Fracture Controlled Strong Clay	Pervasive Strong Sericitisation Pervasive Strong Silicification
21.3 - 22.2	Ylim		Fol-wk	Zone: 2.5% disseminated limonite through clay matrix of Ylim breccia. Moderate-sized clasts, with breccia generally disaggregated. End of unit becomes competent biotite schist over final 30cm.
		21.3 - 22.2	Pervasive Strong Clay	Pervasive Moderate Sericitisation

22.2 - 28.9	BtS	Fol-mod	Heavily fractured and strongly silica-sericite altered biotite schist. Strong clay alteration leads to disaggregation of host and large intervals of rubble. Thin intervals could be interpreted as clay-matrix breccia when not fully decomposed. 1% fracture controlled limonite with .5% fracture controlled hematite.
22.2 - 28.9		Pervasive Strong Clay	Pervasive Strong Sericitisation Pervasive Strong Silicification
28.9 - 29.5	BtS	Fol-mod	Strong zone: strong 2% disseminated limonite and 1.5% disseminated hematite along foliation of biotite schist host. Interval broken by 10cm strong clay-matrix breccia cutting 45 degrees TCA (appears to be along foliation) with large angular clasts of schistose host. Strong disseminations of oxides fade out at point of breccia, however matrix now plays host to very strong limonite. Unit ends at block.
28.9 - 29.5		Pervasive Moderate Clay	Fracture Controlled Strong Clay Pervasive Moderate Sericitisation
29.5 - 32.5	BtS	Fol-mod	Moderate pervasive clay and sericite alteration of biotite schist. 1.5% disseminated limonite. Patch of strong pervasive silicification from 31.6-32.10m with near obliteration of foliation.
29.5 - 32.5		Pervasive Moderate Clay	Pervasive Moderate Sericitisation Patchy Strong Silicification
32.5 - 34.6	BtS	Fol-mod	Strong clay alteration of biotite schist, however rock is still competent. 1% disseminated limonite, moderate sericite along foliation.
32.5 - 34.6		Pervasive Strong Clay	Pervasive Moderate Sericitisation
34.6 - 56.4	FG	Fol-mod	Felsic gneiss, strong white/yellow clay alteration of feldspars along foliation and moderate pervasive sericite. Rare thin (20cm) slips of biotite schist with moderate pervasive clay alteration. Fractures through unit contain moderate clay. Up to .75% fracture controlled limonite, and .25% limonite throughout foliation of unit. Patchy silicification.
34.6 - 56.4		Replaces Felsics Strong Clay	Fracture Controlled Moderate Clay Pervasive Moderate Sericitisation
56.4 - 59.9	FG	Fol-mod	Weak zone: felsic gneiss with 1% disseminated hematite along foliation. Cut by NNE-SSW trending structure with moderate clay along plane. This structure is on the same trend as numerous fractures and some quartz veins. Moderate pervasive sericite and silica.
56.4 - 59.9		Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
59.9 - 61.6	FG	Fol-mod	Felsic gneiss with .5% disseminated limonite. Abrupt contact at bottom of unit with strongly clay altered unit. Moderate silica, sericite throughout.
59.9 - 61.6		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
61.6 - 62.4	BtS	Fol-mod	Zone: Strongly clay altered biotite schist. Beginning of unit is nearly HU, foliation is defined by remnant oxidizing pyrite cubes, and later reappears as biotite at bottom of unit. 2% disseminated limonite.
61.6 - 62.4		Pervasive Strong Clay	Pervasive Moderate Sericitisation
62.4 - 65.2	FG	Fol-mod	Moderately silicified felsic gneiss, .75% fracture controlled limonite and weak clay along fractures.
62.4 - 65.2		Fracture Controlled Weak Clay	Pervasive Moderate Silicification
65.2 - 69.2	FG	Fol-mod	Zone: strong patchy clay alteration of felsic gneiss, and moderate fracture controlled clay. 1.5% disseminated limonite throughout, with increase to 2.5 over last 15cm. Foliation can be nearly completely obliterated in areas.
65.2 - 69.2		Patchy Strong Clay	Fracture Controlled Moderate Clay Pervasive Moderate Sericitisation
69.2 - 71.6	BtS	Fol-mod	Strong pervasive clay alteration of biotite schist, .5% fracture controlled limonite.
69.2 - 71.6		Pervasive Moderate Clay	
71.6 - 73.5	FG	Fol-wk	Heavily fractured felsic gneiss, strong white clay alteration leading to disaggregation in areas, .75% fracture controlled limonite, moderate sericite.
71.6 - 73.5		Pervasive Strong Clay	Pervasive Moderate Sericitisation
73.5 - 83.6	FG	Fol-mod	Felsic gneiss with moderate clay replacement of feldspar augens and moderate clay along fractures. .25% fracture controlled limonite.
73.5 - 83.6		Replaces Felsics Moderate Clay	Fracture Controlled Moderate Clay Pervasive Moderate Sericitisation
83.6 - 89.0	FG	Fol-wk	Weak zone: interval of strongly silicified felsic gneiss, with local silicified-clast breccias. Breccias are clast supported with white/yellow strong clay matrix. Matrix runs ~140ppm As. Local areas of complete disaggregation. Silicified host contains .75% disseminated hematite, and .5% fracture controlled limonite. End 30cm of interval contains strong pervasive clay alteration and 2.5% disseminated limonite.
83.6 - 89.0		Fracture Controlled Strong Clay	Pervasive Strong Silicification Pervasive Moderate Sericitisation
89.0 - 100.2	MxF	Fol-mod	Mixed felsic dominant gneiss. Thin patches of foliation-concordant strong to intense clay along fractures. up to 1% fracture controlled limonite, with concentrations along some clay zones (up to 10cm in width). Moderate pervasive clay alteration of schistose units, moderate pervasive silicification of felsics.
89.0 - 100.2		Fracture Controlled Strong Clay	Replaces Mafics Moderate Clay Replaces Felsics Moderate Silicification

100.2 - 108.2	BtS	Fol-wk	Weakly foliated biotite schist. Moderate pervasive clay-chlorite alteration, carbonate along foliation and in crosscutting veins, including a steeply dipping SSW striking structure similar to that seen earlier in the hole..25% fracture controlled limonite.		
100.2 - 108.2		Pervasive Moderate Clay		Replaces Mafics Moderate Chlorite	
108.2 - 125.1	MxF	Fol-mod	Mixed felsic dominant gneiss. Moderate chlorite after biotite in schistose panels, moderate silicification of felsics. FG portions tend to be strongly fractured. 1% limonite along these fractures. Unit terminates in ~2m interval of biotite schist.		
108.2 - 125.1		Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite		Replaces Felsics Moderate Silicification
125.1 - 126.7	Ylim	Fol-wk	Zone: limonite-matrix breccia through biotite schist. Breccia is immature, but intensely clay altered to the point of incompetency. 2.5% disseminated limonite, 2.5% disseminated hematite giving dark red colouration. Extremely As-rich (1.02%). Gradational contact with upper biotite schist unit. Breccia runs along pre-existing foliation.		
125.1 - 126.7		Pervasive Intense Clay		Pervasive Moderate Sericitisation	
126.7 - 133.4	BtS	Fol-mod	Chloritic and carbonate-rich biotite schist with 40cm interval of strongly silicified felsic gneiss. Late randomly oriented carbonate veinlets. .25% fracture controlled limonite.		
126.7 - 133.4		Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite		Patchy Strong Silicification
133.4 - 136.7	FG	Fol-mod	Felsic gneiss with moderate pervasive clay replacement of feldspars starting at 134.20m. 1% disseminated limonite. Interval is very qtz-vein rich, with largest vein approx. 30cm in width. Moderate silicification at beginning of unit.		
133.4 - 136.7		Patchy Moderate Silicification	Replaces Felsics Moderate Clay		Fracture Controlled Moderate Clay
136.7 - 143.0	MxF	Fol-mod	Felsic gneiss with thin slips of moderate chloritized biotite schist within, up to 40cm in width. Strong silicification of felsics, .75% fracture controlled limonite. Localized mod-strong clay with breakdown of rock along fractures.		
136.7 - 143.0		Patchy Strong Silicification	Replaces Mafics Moderate Chlorite		
143.0 - 145.5	BtS	Fol-mod	Zone: interval of biotite schist with carbonate with 3 discrete strongly oxidized zones: 143-143.63m; 144.1-144.4m; 144.8-145.5m. Zones are characterized by strong clay alteration, strong sericite, and loss of calcite which is pervasive throughout chloritized biotite schist host. All zones follow foliation of host, and only the first is broken down. Extremely As-rich, up to 1.34% @ 145m.		
143.0 - 145.5		Patchy Strong Sericitisation	Patchy Strong Clay		Patchy Moderate Chlorite
145.5 - 177.5	MxM	Fol-mod	Panel of mixed gneiss, dominantly biotite schist. Interleaved with slips of felsic gneiss up to 2.5m in width. Biotite schist pervasively calcareous, with wispy calcite patches incorporated along foliation. Rare, thin, strongly oxidized patches dominantly hosted in biotite schist, which contain up to 2.5% limonite and 1% hematite. Rare patches hosted in felsic gneiss run lower As under XRF analysis. Oxidized zones: 160.75-160.90m, 171.5-172m.		
145.5 - 177.5		Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Silicification		Fracture Controlled Moderate Clay
177.5 - 178.3	BtS	Fol-mod	Zone: hosted in biotite schist, strong pervasive clay alteration and 2.5% disseminated limonite and 1% disseminated hematite, both along foliation. Strong pervasive sericite. Schist leading into mineralized portion contains carbonate, which disappears in zone.		
177.5 - 178.3		Pervasive Strong Clay		Pervasive Strong Sericitisation	
178.3 - 183.6	MxF	Fol-mod	Strong fracture controlled clay at beginning of interval through felsic gneiss, moderate silicification of felsics, moderate chlorite alteration of biotite schist with carbonate.		
178.3 - 183.6		Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Silicification		Pervasive Moderate Calcite
183.6 - 184.3	FG	Fol-mod	Thin zone: 1.5% disseminated limonite through felsic gneiss, strong clay and limonite along fracture which crosscuts foliation.		
183.6 - 184.3		Pervasive Strong Sericitisation	Pervasive Moderate Silicification		Replaces Felsics Moderate Clay
184.3 - 200.4	MxF	Fol-mod	Dominantly felsic gneiss panel, patchy oxidation and moderate fracture controlled clay. Thin patches of 1% disseminated limonite and 1% disseminated hematite from 193.3-193.6m, 198.8-199m. Felsics contain fine hematite staining along foliation. moderate patchy silicification.		
184.3 - 200.4		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite		Fracture Controlled Moderate Clay
200.4 - 204.8	BtS	Fol-mod	Carbonate-rich biotite schist. 1% fine brassy pyrite along foliation. Moderate pervasive chlorite alteration.		
200.4 - 204.8		Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite		

204.8 - 223.9	MxF	Fol-mod	Mixed felsic dominant gneiss. Localized oxidation and crackle-breccia texture through qtz veined area from 205.5-205.8m with 1% disseminated hematite and .5% fracture controlled limonite in this location. Felsic panels are strongly sericitized and silicified, while mafics are moderately chloritized and contain pervasive calcite. Felsics become more strongly silicified at bottom of interval. Moderate clay along some fractures, which can also lead to strong limonite.
204.8 - 223.9		Replaces Mafics Moderate Chlorite	Patchy Strong Silicification Patchy Strong Sericitisation
223.9 - 225.2	Ylim		Immature carbonate-clay matrix breccia, 1.5% disseminated limonite throughout. Breccia is weakly developed, pervasively carbonated, contains small angular clasts. Sense of brecciation is at low angle to core axis. Hosted in strongly altered biotite schist, finishing with strong silicification over 25cm where limonite becomes constrained to fractures within a complex fracture network.
223.9 - 225.2		Pervasive Strong Calcite	Pervasive Moderate Clay Patchy Strong Silicification
225.2 - 228.7	BtS	Fol-mod	Strong-intense clay alteration of biotite schist, in addition to strong chlorite replacing biotite. Decomposition of 1m intervals, with .5% purple hematite disseminated in patches of clay, and .5% fracture controlled limonite. Patchy calcite throughout schist, and .5% limonite-calcite veinlets crosscutting fabric in competent areas of core.
225.2 - 228.7		Replaces Mafics Strong Chlorite	Pervasive Strong Clay Pervasive Moderate Calcite
228.7 - 232.3	FG	Fol-mod	Strong pervasive white-yellow clay alteration of felsic gneiss. Patchy .75% disseminated hematite along foliation, fractures strongly clay altered leading to decomposition of host. Mature clay-matrix supported breccia from 231.50-231.85m, sharp, angular clasts up to 2cm in size with well-preserved foliation, moderately rotated. No orientation discernable due to cohesiveness of rock (disintegrates).
228.7 - 232.3		Pervasive Strong Clay	
232.3 - 233.0	BtS	Fol-wk	Strong pervasive clay alteration of biotite schist. Schistose fabric almost obliterated. Fabric best defined by fine pyrite cubes oxidizing to hematite. Moderate fracture controlled clay with 2% limonite.
232.3 - 233.0		Pervasive Strong Clay	Fracture Controlled Moderate Clay
233.0 - 236.9	FG	Fol-str	Zone: Felsic gneiss with strong sericitization, moderate clay replacement of feldspars, with thin patches of MsRQM within. Strongly silicified throughout, with increase in silica content to bottom of unit. Localized clay-matrix brecciation of quartz veins (5-10cm), with moderate white clay in thin clast-supported breccias. Clasts are fragments of the quartz veins. 1.5% disseminated limonite throughout unit, with foliation obliterated at end due to silicification.
233.0 - 236.9		Pervasive Strong Silicification	Pervasive Strong Sericitisation Replaces Felsics Moderate Clay
236.9 - 237.2	HU	Fol-wk	Zone: strong pervasive clay alteration of host which shows weak relict foliation. 2.5% disseminated limonite, 1% disseminated hematite.
236.9 - 237.2		Pervasive Strong Clay	
237.2 - 240.4	BtS	Fol-mod	Zone: Strong silicification of intensely altered biotite schist. 10cm YO breccia at 230m with rounded 1cm clasts which are yellow-clay altered and hosted in a fine silica-rock flour matrix, cutting 45 degrees TCA. Strong fracture controlled clay in areas, and 2% disseminated limonite along foliation of schist throughout. Thin 1-2cm foliation parallel quartz veins, and patches of heavy fracturing of silicified host with yellow-white clay infill, almost crackle breccia.
237.2 - 240.4		Pervasive Strong Silicification	Patchy Moderate Clay
240.4 - 241.1	HU	Fol-wk	Zone: strong pervasive clay alteration of previously schistose host. 3% disseminated limonite, increase along fractures, 1% disseminated hematite.
240.4 - 241.1		Pervasive Strong Clay	
241.1 - 245.9	BtS	Fol-mod	Zone: 2% disseminated limonite and 1% disseminated hematite along foliation of intensely altered biotite schist. Moderate clay along fractures, strong pervasive silicification, moderate sericite. Brick-red strong hematite is concentrated in areas of lesser clay alteration along foliation.
241.1 - 245.9		Pervasive Strong Silicification	Pervasive Moderate Sericitisation Fracture Controlled Moderate Clay
245.9 - 247.0	YC	Fol-wk	Zone: Brecciated interval begins with 40cm of matrix-supported, moderately rounded clasts of schistose host material suspended in a grey-coloured rock-flour/silica matrix. Clasts are limonitic and clay altered, and patchy brick red hematitic oxidation is present on rims of clasts (yellow-limonite within). Grades into intensely silicified YC breccia. Same morphology as beginning of interval, however all clasts intensely silicified to give the appearance of complete incorporation into a single solid rock. No clasts altered/pitted out, relict foliation faintly visible in some clasts, but overprinted in others.
245.9 - 247.0		Pervasive Intense Silicification	
247.0 - 248.5	Ylim		Zone: 2% disseminated hematite and 1.5% disseminated limonite through poly-brecciated interval. Dark, strongly silicified and hematitic host breccia with fine to medium sized (<1cm) rounded and clay altered clasts, cut by strongly limonitic breccias at 45 degrees TCA with angular clasts of the deep red host. Less silicified patches exhibit relict foliation with mineralization disseminated throughout.
247.0 - 248.5		Pervasive Strong Silicification	Replaces Felsics Moderate Clay
248.5 - 250.1	BtS	Fol-mod	Zone: 1.5% limonite, 1% hematite disseminated through biotite schist along foliation. Strong silicification at bottom of unit.
248.5 - 250.1		Patchy Strong Silicification	Pervasive Moderate Sericitisation
250.1 - 254.7	BtS	Fol-mod	Patchy strong silicification of biotite schist with strong sericite. Thin (<1cm) banded and chalcedonic quartz veins crosscutting foliation at bottom of unit.
250.1 - 254.7		Patchy Strong Silicification	Patchy Strong Sericitisation

254.7 - 274.5	MxM	Fol-mod	Mixed mafic dominant gneiss. Beginning of unit contains patchy oxidation and up to .75% disseminated limonite in patches, with weakly foliated biotite schist panels with coarse (up to 0.5cm) feldspars. Moderate patchy clay alteration, strong chlorite after mafics. Mafic intervals below 262m are dominantly AmBts. Up to .5% limonite along fractures. Felsic intervals moderately silicified. Mafics also contain variable amounts of calcite.		
	254.7 - 274.5	Replaces Mafics Moderate Calcite	Replaces Mafics Strong Chlorite	Replaces Felsics Moderate Silicification	
274.5 - 287.0	MxF	Fol-mod	Mixed felsic gneiss, patchy strong white clay alteration through felsics, moderate pervasive clay alteration of biotite schist. .75% fracture controlled limonite throughout, and patches of up to .5% disseminated hematite through silicified schistose areas		
	274.5 - 287.0	Fracture Controlled Strong Clay	Patchy Moderate Silicification	Replaces Felsics Strong Clay	
287.0 - 289.4	BtS	Fol-mod	Strongly altered biotite schist, silicification through area reminiscent of upper zone of strong silicification without brecciation. Well developed random fracture networks with moderate clay along surfaces. Foliation nearly overprinted by silicification.		
	287.0 - 289.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay	
289.4 - 293.0	BtS	Fol-mod	Moderately silicified and white-clay altered biotite schist. Patch of 1.5% limonite at 291.5m.		
	289.4 - 293.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay		

Drill Log: CFD0316

Easting	583455.45	Hole Length	44 m	Prospect	Sumatra	Drill Started	Jul 19, 2013	Comment
Northing	6974402.48	Azimuth	180 °	Target		Drill Completed	Jul 21, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1246.81 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 7.5	BtS		Fol-mod	Biotite schist, moderate pervasive chlorite, moderate fracture controlled clay.
		6.0 - 7.5	Pervasive Moderate Chlorite	Fracture Controlled Moderate Clay
7.5 - 18.2	BtS		Fol-mod	Weak zone: heavily fractured biotite schist with 1.5% disseminated oxides along foliation (1% limonite, .5% hematite). Moderate yellow clay alteration of feldspars along foliation, strong pervasive sericite, and moderate pervasive silicification. Unit is mostly rubble from 12.2m onwards. Up to .75% fracture controlled hematite in some areas. No carbonate present within unit.
		7.5 - 18.2	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay Pervasive Moderate Silicification
18.2 - 19.3	BtS		Fol-str	Biotite schist with coarse muscovite defining a strong foliation. Moderate white clay along fractures. Foliation is low angle TCA, approx. 20 degrees.
		18.2 - 19.3	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
19.3 - 21.6	BtS		Fol-mod	Zone: biotite schist with 1% disseminated limonite and coarse sericite. Strong fracture controlled clay with heavy oxidation which decomposes host to almost breccia-like appearance. Local white clay band crosscutting foliation from 21.38-21.48m.
		19.3 - 21.6	Pervasive Strong Sericitisation	Fracture Controlled Strong Clay
21.6 - 27.3	BtS		Fol-mod	Biotite schist with moderate sericite and moderate white clay alteration of feldspars along foliation. Pyrite cubes along foliation oxidizing to hematite. Weak fracture controlled limonite. At bottom of unit, strong silica influx along 2 foliation-cutting fracture surfaces.
		21.6 - 27.3	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
27.3 - 28.1	BtS		Fol-mod	Zone: strongly oxidized biotite schist. Foliation still visible in competent pieces of core, however strong pervasive clay alteration of whole unit causes decomposition of lower portion of unit. 2% disseminated limonite.
		27.3 - 28.1	Pervasive Strong Clay	Pervasive Moderate Sericitisation
28.1 - 30.2	Ylim			Zone: limonite-clay matrix breccia. Clast supported, with intense clay alteration with 1% disseminated limonite forming matrix. Clasts display relict foliation and are oxidized brick-red, containing 1% hematite along foliation. Unbrecciated but heavily fractured and disaggregated interval of biotite schist with disseminated hematite and moderate silicification from 28.8-28.95m, reduced to rubble.
		28.1 - 30.2	Fracture Controlled Strong Clay	Pervasive Strong Silicification
30.2 - 32.4	HU			Zone: strong clay and sericite alteration through interval of 2.5% disseminated limonite and 2% disseminated hematite. Clay is both pervasive and strong along fractures. Unit contains complex fracture networks through competent core with no specific orientation. Very weak foliation can be visible in some areas, and unit grades out into schistose rock in the next unit.
		30.2 - 32.4	Pervasive Strong Clay	Pervasive Strong Sericitisation
32.4 - 36.3	BtS		Fol-str	Zone: strong pervasive clay alteration of biotite schist, 1.5% disseminated limonite and patchy 1.5% disseminated hematite. Complex oxidation patterns throughout the schist in addition to fine and complex fracture networks as seen earlier in the hole (31.8m). Moderate to strong sericite throughout.
		32.4 - 36.3	Pervasive Strong Clay	
36.3 - 42.0	BtS		Fol-mod	strong white clay alteration through biotite schist. Strong coarse sericite, patchy .75% limonite throughout the interval.
		36.3 - 42.0	Pervasive Strong Clay	Pervasive Moderate Sericitisation
42.0 - 44.0	FG		Fol-mod	Moderate clay replacement of feldspars, moderate pervasivesilicification, patchy disseminated limonite up to .75%.
		42.0 - 44.0	Replaces Felsics Moderate Clay	Pervasive Moderate Silicification

Drill Log: CFD0317

Easting	583352.48	Hole Length	270.4 m	Prospect	Sumatra	Drill Started	Jul 21, 2013	Comment
Northing	6974236.56	Azimuth	180 °	Target		Drill Completed	Jul 24, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1217.37 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 10.0	FG		Fol-mod	Strongly white-clay altered felsic gneiss. Heavily fractured, .75% disseminated limonite. Foliation oriented 23 degrees TCA.
		6.0 - 10.0	Pervasive Strong Clay	Pervasive Moderate Sericitisation
10.0 - 10.8	Ylim			Zone: thin area of brecciation. Initially clast supported with strong hematite forming crackle-breccia matrix, progressing to strong clay matrix Ylim from 10.3-10.7m, matrix supported. 10.5m runs 4223ppm As. Assuming SW-dipping foliation, breccia wall cuts NNE-SSW, steeply dipping to the NW.
		10.0 - 10.8	Pervasive Strong Clay	Pervasive Moderate Sericitisation
10.8 - 31.6	MxF		Fol-mod	Mixed felsic gneiss. FG portions are moderately white clay altered along foliation (replacement of feldspar), biotite schist portions are mod-strongly clay+chlorite altered. .25% fracture controlled limonite.
		10.8 - 31.6	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
31.6 - 65.1	MxF		Fol-mod	Moderate pervasive silicification of felsic gneiss dominant panel. Common foliation-cutting 1cm quartz veins with calcite selvage, thin biotite schist slips (30cm) contain carbonate along foliation and moderate chlorite alteration. Rare 3cm wide carbonate veins. cutting along same plane as quartz.
		31.6 - 65.1	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
65.1 - 65.2	Ycarb			Thin carbonate-matrix breccia. Matrix supported, small, angular rotated clasts. 1% disseminated limonite. Does not run As under XRF analysis. Breccia shares common plane with qtz veins in area.
		65.1 - 65.2	Pervasive Strong Calcite	
65.2 - 70.5	FG		Fol-mod	Oxidized zone of felsic gneiss. Strong silicification, .5% disseminated limonite and hematite. Moderate clay alteration zone from 70-70.15m with 1.5% disseminated limonite. Zone follows plane of previous breccia, and is moderately broken down.
		65.2 - 70.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
70.5 - 85.9	MxF		Fol-mod	Silicified felsic gneiss. Rare thin pitted bands of white mica, trace fracture controlled limonite.
		70.5 - 85.9	Pervasive Strong Silicification	Replaces Mafics Moderate Clay
85.9 - 93.0	BtS		Fol-mod	Strong epidote + chlorite alteration of biotite schist.
		85.9 - 93.0	Patchy Strong Epidote	Replaces Mafics Moderate Chlorite
93.0 - 130.5	MxF		Fol-mod	Silicified felsic gneiss, coarse white mica along foliation in patches, trace fracture controlled limonite.
		93.0 - 130.5	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Weak Clay
130.5 - 131.0	IV		Fol-wk	Green dike with 3% carbonate, weak foliation defined by carbonate grains
		130.5 - 158.8	Patchy Moderate Silicification	Patchy Weak Sericitisation
131.0 - 131.2	FG		Fol-str	gneiss, moderate sericite
131.2 - 135.5	IV		Fol-wk	Green dike with 3% carbonate, weak foliation defined by carbonate grains
135.5 - 135.7	FG		Fol-str	gneiss, moderate sericite
135.7 - 135.9	IV			Green dike, grading from calcite rich dike with weakly defined foliation to massive dike
135.9 - 136.9	FG		Fol-str	gneiss, weak sericite

136.9 - 137.4	IV	Fol-str	green dike
137.4 - 137.5	FG	Fol-str	gneiss, moderate sericite
137.5 - 137.9	IV		Green dike, bleached for first 20cm with chalcedonic quartzveins marking upper contact
137.9 - 138.7	FG	Fol-str	gneiss, weak sericite
138.7 - 139.0	IV		green dike
139.0 - 139.4	FG	Fol-str	gneiss, weak sericite
139.4 - 139.6	IV		green dike
139.6 - 139.7	FG	Fol-str	gneiss, weak sericite
139.7 - 140.7	IV	Fol-mod	green dike with felsic bands forming a foliation (no parallel to metamorphic foliation)
140.7 - 142.0	FG	Fol-str	gneiss, weak sericite
142.0 - 144.2	IV		green dike
144.2 - 145.7	FG	Fol-str	gneiss
145.7 - 146.1	IV		green dike, weak foliationparallel to contact on lower contact
146.1 - 146.3	FG	Fol-str	gneiss
146.3 - 146.7	IV		green dike
146.7 - 148.6	FG	Fol-str	gneiss
148.6 - 150.4	IV	Fol-wk	green dike, weak foliation defined by 1% calcite grains
150.4 - 151.2	FG	Fol-wk	gneiss
151.2 - 151.4	IV		green dike
151.4 - 152.7	FG	Fol-str	gneiss
152.7 - 155.7	IV	Fol-wk	green dike, weak foliation defined by 1% calcite grains and veinlets
155.7 - 155.9	FG	Fol-str	gneiss,silicified
155.9 - 156.4	IV	Fol-wk	green dike, 1% carbonate defining a foliation
156.4 - 156.5	FG	Fol-str	gneiss, weak silicification
156.5 - 159.1	IV	Fol-wk	green dike, 1% carbonate defining a foliation. bleached for last 90cm,1% disseminated limonite for last 30cm
	158.8 - 159.5	Pervasive Strong Sericitisation	
159.1 - 161.3	YO	bx	Zone, mixed breccias. Clay matrix breccia with 5% limonite from 159.6-159.8m.clay matrix breccia with 1% limonite from 159.8-160.2m. silicified medium grained clast breccia with 2-3% limonite from 160.2-161.3m
	159.5 - 159.8	Pervasive Intense Clay	
	159.8 - 171.6	Pervasive Weak Clay Pervasive Moderate Sericitisation Pervasive Moderate Silicification	
161.3 - 161.6	IV		clay altered dike, 1% disseminated limonite
161.6 - 163.4	FG	Fol-str	Gneiss, 0.6% disseminated limonite, strong sericite
163.4 - 164.1	IV		clay altered dike, 0.2% disseminated limonite
164.1 - 164.8	FG	Fol-str	Gneiss, 0.6% disseminated limonite, strong sericite
164.8 - 165.1	IV		clay altered dike, 1% disseminated limonite
165.1 - 166.9	FG	Fol-str	Gneiss, 0.6% disseminated limonite, strong sericite
166.9 - 167.1	IV		clay altered dike, 1% disseminated limonite
167.1 - 167.6	FG	Fol-str	Gneiss, 0.6% disseminated limonite, strong sericite
167.6 - 167.9	IV		clay altered dike, 1% disseminated limonite
167.9 - 172.5	HU		Intensely altered gneiss, strong sericite, silica with 1% disseminated limonite from 167.9-169.25m. Strong clay alteration with zones of silicification and brecciation, 2% disseminated limonite from 169.3-172.3m
	171.6 - 172.0	Pervasive Strong Clay	
	172.0 - 178.5	Pervasive Moderate Sericitisation Pervasive Moderate Silicification	

172.5 - 172.8	IV		clay altered dike
172.8 - 177.9	FG	Fol-str	Gneiss, strong sericite, 0.5% disseminated limonite
177.9 - 179.2	IV		clay altered dike
		178.5 - 201.0	Patchy Weak Sericitisation Patchy Weak Silicification
179.2 - 247.4	MxF	Fol-str	Mixed gneiss, variable weak sericite, silica alteration. 0.2% disseminated limonite and hematite from 218-240m
		201.0 - 248.0	Pervasive Weak Sericitisation Pervasive Weak Silicification
247.4 - 264.0	Amph	Fol-str	Amphibole rich rock. Possible contact zone between schistose and gneissic dominant packages. strongly foliated, coarse feldspars, weak-moderate chlorite, epidote alteration. Had a high SG (almost 3)
		248.0 - 264.0	Patchy Moderate Epidote Patchy Moderate Chlorite
264.0 - 270.4	MxF	Fol-str	Fresh mixed augen gneiss

Drill Log: CFD0318

Easting	583453.18	Hole Length	200 m	Prospect	Sumatra	Drill Started	Jul 24, 2013	Comment
Northing	6974217.84	Azimuth	176 °	Target		Drill Completed	Jul 27, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1233.04 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 54.2	FG	0.0 - 15.0 musc	Fol-str	Pervasive Strong Sericitisation
		15.0 - 30.0		Altered gneiss, strong sericite from 0-15m, strong silica and sericite from 15-30 and back into strong sericite from 30-48m. Strong silica and sericite with fracture controlled clay from 48-54.2m 0.25% fracture controlled limonite. variable 0.1-0.5% disseminated limonite.
		30.0 - 48.0		Pervasive Strong Sericitisation
		48.0 - 54.2		Pervasive Strong Sericitisation Pervasive Strong Silicification
54.2 - 55.0	Ylim			Clay-limonite matrix. Breccia. 5mm-4cm clasts of altered gneiss. 4% limonite
		54.2 - 55.0		Pervasive Strong Clay
55.0 - 57.0	FG	musc	Fol-str	Gneiss with strong silica and sericite lateration, strong clay along fractures, 0.5% fracture controlled and 1% disseminated limonite
		55.0 - 57.0		Pervasive Strong Silicification Pervasive Strong Sericitisation
57.0 - 59.1	Ylim	bx		Zone of mixed breccia (70%) and gneiss (30%). Breccia is a clay-limonite matrix breccia with clasts of altered gneiss. contacts are at ~ 20 deg TCA. 4% limonite
		57.0 - 59.1		Pervasive Strong Clay
59.1 - 69.0	FG	musc	Fol-str	Gneiss with strong silica and sericite lateration, strong clay along fractures, 0.5% fracture controlled and 1% disseminated limonite+hematite
		59.1 - 69.0		Pervasive Strong Silicification Pervasive Strong Sericitisation
69.0 - 81.3	HU	silc		Intensely silicified rock, no primary or metamorphic textures visible (a weak foliation can sometimes be seen). 0.5% Limonite disseminated and in veinlets. Some areas resemble a extremely silicified breccia, notably around 71m
		69.0 - 81.3		Pervasive Intense Silicification
81.3 - 117.9	FG	musc	Fol-str	Gneiss with strong silica and sericite alteration 0.2% fracture controlled and 0.5% disseminated limonite + hematite
		81.3 - 117.9		Pervasive Strong Silicification Pervasive Strong Sericitisation
117.9 - 129.6	IV		Fol-mod	Variably textured, foliated intermediate dike. In places resembles country rock but foliation of dike is at 50 deg TCA instead of 20 in host rock. Dike is amphibole rich, fine grained and usually except for where it is sericite and clay altered. Small zones of country rock at 125-125.25, 126.3-126.4
		117.9 - 129.6		Replaces Mafics Weak Chlorite
129.6 - 131.4	YO	bx		White clay matrix breccia. 0.2% limonite. Clasts are 1-2mm of sericite, silica altered gneiss
		129.6 - 131.4		Pervasive Intense Clay
131.4 - 134.0	IV			foliated green dike. Moderate-strong chlorite alteration
		131.4 - 137.4		Replaces Mafics Weak Chlorite
134.0 - 134.1	FG		Fol-str	Gneiss, strong silica and sericite alteration
134.1 - 137.4	IV			Massive green dike. Weak chlorite. Short section of gneiss from 134.83-134.88, 135.62-136m
137.4 - 143.6	MxM		Fol-str	Amphibole rich foliated rock. Moderate chlorite and epidote alteration. Discrete massive IV dikes from 138.56-138.59, 138.82-139, 141.68-142.03m
		137.4 - 143.0		Replaces Mafics Moderate Chlorite
		143.0 - 167.0		Replaces Mafics Moderate Epidote
				Pervasive Moderate Sericitisation Pervasive Moderate Silicification

143.6 - 151.6	IV			Zone of green massive fine grained dikes (last one is strongly magnetic) intercalated with FG. 0.3% disseminated limonite with moderate sericite alteration from 144.5-147.4
151.6 - 165.0	MxF	Fol-str		Gneiss with weak-moderate sericite and silica alteration
165.0 - 166.3	IV			fine grained massive green magnetic dike
166.3 - 180.8	Amph	Fol-str		Foliated amphibole rich rock with weak-moderate chlorite and epidote alteration
		167.0 - 200.0	Replaces Mafics Moderate Chlorite	Replaces Mafics Moderate Epidote
180.8 - 189.5	IV			massive green fine grained weakly magnetic dikes intercalated with mixed felsic gneiss
189.5 - 200.0	MxM	Fol-str		amphibole rich metamorphic rock with mixed FG. Discrete green dikes from 191.08-191.12, 193.11-193.48, 193.85-194.22, 194.3-195.22, 197.10-197.28m

Drill Log: CFD0319

Easting	583300.98	Hole Length	134 m	Prospect	Sumatra	Drill Started	Jul 28, 2013	Comment
Northing	6974099.75	Azimuth	0 °	Target		Drill Completed	Jul 29, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1186.64 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 68.0	MxF	augn	Fol-str	Mixed gneiss, felsic dominant. variable weak-moderate sericite and weak silica alteration throughout. From 6-57m, 0.1-0.3% disseminated limonite and 0.2% fracture controlled limonite. from 57-59.1 0.5% disseminated and limonite veins parallel TCA. from 59.1- 66.4 2% disseminated limonite and hematite. From 66.4-68m, 1.5% disseminated sooty sulphides.
		6.0 - 69.0	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
68.0 - 69.0	MV			Logged as MV to pull out unit - at 68m: 3cm brecciated quartz vein, with limonite selvage. At 68.66m a 2cm Realgar orpiment vein. At 69m, a 1 cm porcelanic quartz vein. All veins trending roughly N-S. host rock is biotite schist with strong sericite alteration and 2% disseminated sooty sulphides
69.0 - 95.8	MxM	augn	Fol-str	Mixed gneiss, variable weak silica, sericite alteration
		69.0 - 98.2	Replaces Mafics Weak Calcite	Patchy Weak Sericitisation Patchy Weak Silicification
95.8 - 98.2	IV		Fol-wk	Green dike with weak foliation. contacts are clay-chlorite altered
98.2 - 115.1	FG	amyg	Fol-str	Augen gneiss, 0.3% disseminated hematite
115.1 - 115.3	IV			Massive grey intermediate dike
115.3 - 118.7	FG		Fol-str	Augen gneiss, 0.3% disseminated hematite
118.7 - 119.6	IV			Massive grey intermediate dike
119.6 - 120.8	FG		Fol-str	Augen gneiss, 0.3% disseminated hematite
120.8 - 121.0	IV			Massive grey intermediate dike
121.0 - 132.2	FG		Fol-str	Augen gneiss, 0.3% disseminated hematite
132.2 - 134.0	AmBtS		Fol-str	Amphibole bearing schist, weak chlorite, epidote
		132.2 - 134.0	Replaces Mafics Weak Epidote	Replaces Mafics Weak Chlorite

Drill Log: CFD0320

Easting	583302.5	Hole Length	134 m	Prospect	Sumatra	Drill Started	Jul 29, 2013	Comment
Northing	6974138.81	Azimuth	5 °	Target		Drill Completed	Jul 30, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1192.47 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.5	OVb			
3.5 - 42.0	MxF		Fol-str	Augen gneiss. Fresh from 3.5-8m, patchy weak sericite and 0.1% fracture controlled limonite from 8-19.42m. 0.5% disseminated limonite and moderate sericite from 19.42-20.3m. variable weak-intense porcelanic silicification and 1-4% disseminated Sooty sulphides / orpiment? weird bleaching. limonite near fractures from 20.3- 22.35 and 23.25-24.7m. weak silicification and bleaching from 24.7-42m
		8.0 - 19.4	Patchy Weak Sericitisation	Patchy Weak Silicification
		19.4 - 20.3	Pervasive Moderate Sericitisation	
		20.3 - 24.7	Pervasive Intense Silicification	
		24.7 - 42.0	Pervasive Weak Silicification	
42.0 - 42.3	IV			Massive green fine grained dike
42.3 - 43.0	MxF		Fol-str	weak sericite altered augen gneiss
		42.3 - 43.0	Pervasive Weak Sericitisation	
43.0 - 45.4	IV			Massive green fine grained dike, contacts are strongly chlorite altered
		43.0 - 54.0	Replaces Mafics Weak Chlorite	Replaces Mafics Weak Epidote
45.4 - 48.7	MxM		Fol-str	Mixed gneiss, weak chlorite
48.7 - 49.1	IV			Massive grey fine grained dike
49.1 - 54.0	MxM		Fol-str	Mixed amphibole gneiss, weak chlorite, epidote alteration
54.0 - 63.2	MxF		Fol-str	Mixed gneiss, weak sericite, 0.1% disseminated limonite, bleached
		54.0 - 63.2	Pervasive Weak Sericitisation	
63.2 - 64.8	IV		Fol-wk	fine grained grey dike with a weak foliation
64.8 - 66.9	MxF		Fol-str	Mixed gneiss, weak sericite, 0.1% disseminated limonite, bleached
		64.8 - 66.9	Pervasive Weak Sericitisation	
66.9 - 69.1	IV			Fine grained dyke, very carbonate rich
		66.9 - 69.1	Pervasive Moderate Calcite	
69.1 - 70.9	FG		Fol-mod	Felsic gneiss, strongly silicified.
		69.1 - 70.9	Pervasive Strong Silicification	
70.9 - 75.2	IV			fine grained IV, pervasive calcite and x-cutting carbonate veins, patches of coarser phenocrysts. 20cm of fresh biotite schist within.
		70.9 - 97.1	Pervasive Strong Silicification	silicified felsic gneiss within fresh IV
75.2 - 77.2	FG		Fol-mod	Fractured and silicified gneiss with weak limonite along fractures. Weak sericite/
77.2 - 89.8	IV			Thick unit of strong-intensely carbonated ultramafic dyke. Variably fine and coarse grained. Portions appear to be magnesite.
89.8 - 92.6	HU			Intense silica-sericite-carbonate alteration. Brecciated interval with purple oxidized clasts set in carbonate-silica matrix, breccia is monolithic with angular clasts. Chalcedonic quartz veining with carbonate selvage.
92.6 - 93.6	FG			xeolith within IV
				xeolith within IV
93.6 - 95.8	IV			fine grained IV

Drill Log: CFD0321

Easting	583400.93	Hole Length	149 m	Prospect	Sumatra	Drill Started	Jul 30, 2013	Comment
Northing	6974085.87	Azimuth	5 °	Target		Drill Completed	Aug 01, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1204.88 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 24.5	MxM			Biotite-rich gneiss with minor layers of biotite schist. Pervasively silicified with local fracture controlled to disseminated Lim. Minor opaque Qz stringers & Vns @ 20 TCA. Fractures // foln & // veins.
		6.0 - 11.3	Pervasive Weak Silicification	Replaces Felsics Moderate Sericitisation Ser. // foln
		11.3 - 12.2	Pervasive Moderate Clay	
		12.2 - 15.7	Pervasive Weak Silicification	Replaces Felsics Moderate Sericitisation Ser. // foln
		15.7 - 17.9	Patchy Weak Silicification	Replaces Felsics Moderate Sericitisation Patchy Moderate Chlorite
		17.9 - 24.5	Pervasive Weak Silicification	Fracture Controlled Weak Clay Replaces Felsics Moderate Sericitisation Clay altn+Lim along fractures
24.5 - 25.0	MV			Sharp planar upper contact with MxM. No selvages along contacts. Fractured, vuggy Qz Vn. Spaces infilled with VFgr powdery Lim.
		24.5 - 25.0	Fracture Controlled Weak Clay	Clay altn+Lim along fractures
25.0 - 37.6	MxM			Broken & rubbly sharp, unaltered upper contact with Qz Vn. Biotite-rich gneiss with minor layers of biotite schist. Pervasively silicified with local fracture controlled to disseminated Lim. Minor opaque Qz stringers & Vns @ 20 TCA. Fractures // foln & // veins.
		25.0 - 25.7	Pervasive Moderate Clay	
		25.7 - 35.5	Patchy Weak Clay	Pervasive Weak Silicification Replaces Felsics Moderate Sericitisation Ser // foln. Chl replacing mafics in BtS intervals
		36.9 - 46.1	Pervasive Weak Silicification	Replaces Felsics Weak Sericitisation
37.6 - 37.9	MV			Sharp planar contacts with MxM. <1cm Lim selvages. 90% white opaque Qz, 10% pink Cgr strained Ksp. Minor Lim along fractures.
37.9 - 60.8	MxM			Sharp planar upper contact with Qz Vn. Biotite-rich gneiss with minor layers of biotite schist. Pervasively silicified with local fracture controlled to disseminated Lim. Minor opaque Qz stringers & Vns @ 20 TCA. Fractures // foln & // veins.
60.8 - 61.9	HU			mineralized augen gneiss. Gouged faulted conact with the augen gneiss above. Pevasive limonite and sericite.
		60.8 - 61.9	Pervasive Strong Sericitisation	
61.9 - 63.0	MxF			strongly altered and silicified augen gneiss
		61.9 - 63.0	Strong Silicification	
63.0 - 83.0	MxF			minor alteration, competent gneiss
		63.0 - 82.9	Patchy Weak Albite	Patchy Weak Sericitisation
		82.9 - 86.1	Patchy Weak Sericitisation	
83.0 - 86.1	FLT			wide fault zone with local gouging
86.1 - 86.9	IV			
		86.1 - 113.7	Patchy Weak Sericitisation	Patchy Weak Albite

86.9 - 142.0	MxF	thick intersection of felsic gneiss. Ductile deformation at lower contact with diorite	
131.0 - 142.0	Patchy Weak Sericitisation	Patchy Moderate Albite	
142.0 - 149.0	DIOR	medium grained. Biotite, albite,epidote, hematite. Feldspars are hematite stained.	

Drill Log: CFD0322

Easting	583397.83	Hole Length	134 m	Prospect	Sumatra	Drill Started	Aug 01, 2013	Comment
Northing	6974125.46	Azimuth	5 °	Target		Drill Completed	Aug 02, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1209.07 mASL					

Litholoav and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 34.7	MxF	augn		
		18.8 - 46.0	Patchy Strong Sericitisation	Patchy Moderate Silicification
34.7 - 36.6	IV	mass		
36.6 - 46.0	MxF	augn		
46.0 - 59.0	IV	mass		
		46.0 - 59.0	Patchy Strong Clay	Patchy Moderate Chlorite
59.0 - 134.0	MxF	augn		
		59.0 - 95.4	Patchy Moderate Albite	Patchy Moderate Sericitisation
		103.6 - 134.0	Patchy Moderate Albite	Patchy Moderate Sericitisation Patchy Weak Silicification

Drill Log: CFD0323

Easting	584225.22	Hole Length	445.3 m	Prospect	Supremo T3	Drill Started	Aug 02, 2013	Comment
Northing	6973854.84	Azimuth	270 °	Target	T3	Drill Completed	Aug 07, 2013	
Projection	UTM7-NAD83	Dip	-70 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1157.88 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments	
0.0 - 4.8	OVb			Boulders of felsic geiss	
4.8 - 39.0	MxF	band		Mainly FG, ~20% BtS beds // foln. Competent, fractures mainly // foln.	
		4.8 - 39.0	Patchy Weak Silicification	Patchy Weak Chlorite	Patchy Weak Calcite
					Some FG intervals silicified, BtS intervals mainly chloritized & locally calcareous.
39.0 - 68.4	FG	band		Foln-// upper cotact with MxF: end of BtS beds. 10cm foln-// Qz Vn at contact.	
		39.0 - 42.2	Pervasive Weak Silicification		
		42.2 - 47.9	Pervasive Weak Silicification	Pervasive Moderate Sericitisation	Replaces Felsics Weak Albite
		47.9 - 55.8	Pervasive Weak Silicification		
		55.8 - 59.3	Pervasive Weak Silicification	Pervasive Moderate Sericitisation	Replaces Felsics Weak Albite
		59.3 - 63.2	Pervasive Weak Silicification		
		63.2 - 68.8	Patchy Weak Silicification		
68.4 - 69.3	HU	bx			
		68.8 - 70.0	Pervasive Strong Silicification		
69.3 - 74.5	FG	band			
74.5 - 76.0	BtS	band			
76.0 - 77.0	HU	bx			
		76.0 - 77.0	Patchy Strong Silicification		
77.0 - 82.5	BtS	band			
82.5 - 85.0	MV	bx			
85.0 - 115.0	MxF	band			
		103.6 - 106.4	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	Pervasive Moderate Albite
		108.9 - 114.5	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	
		114.5 - 120.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	
115.0 - 118.0	HU	bx		silicified wall rocks	
118.0 - 209.0	MxF	band		supremo felsic gneiss with local panels of of biotite schist up to several metres wide	
209.0 - 234.0	MxF	mgrn	Fol-str	Hematite staining of felsic gneiss, local sil-ser altn at contacts with mafic schist intervals 5-60cm wide. Weak fracture controlled clay-limonite.	
		209.0 - 234.0	Fracture Controlled Moderate Sericitisation		
234.0 - 244.3	BtS	mgrn		Moderate pervasive sericite altn, and clay replacement of fspars. Weakly silicified. .5% diss limonite throughout.	
		234.0 - 251.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Moderate Albite
244.3 - 245.1	BtS	silc		Strong silica-ser altn w/ mod fracture controlled clay, 1% diss hematite. Brecciated buck qtz veins common.	
245.1 - 251.1	BtS	fgrn		Oxidized (.25% diss) w/ moderate pervasive sericite and clay replacement. Minor hematite stringers.	

251.1 - 251.7	FLT	silc	silicified clasts of felsic gneiss, 1% diss lim-clay matrix.		
251.1 - 251.7			Replaces Matrix Strong Clay	Pervasive Moderate Sericitisation	Replaces Clasts Moderate Silicification
251.7 - 254.3	BtS	silc	Strong to intense silica flooding after clay replacement of fspar. Weak 0.25% , 0.5% locally diss limonite. 1cm wide buck qtz vein w/ lim selvage runnin low angle to core axis		
251.7 - 254.3			Pervasive Intense Silicification	Replaces Felsics Strong Clay	
254.3 - 274.3	MxF	mgrn	Weak fracture controlled alteration and oxidation otherwise fresh.		
272.3 - 274.7			Pervasive Strong Clay	Patchy Weak Sericitisation	
274.3 - 277.7	DIOR	mgrn	mgrn intermedite dyke, upr and lwr contacts with FG display mod to strong pervasive clay with 1-.25% diss limonite lessening inwards. Central unaltered interval contains diss brassy py and calcite stringers.		
275.4 - 277.7			Pervasive Moderate Clay		
277.7 - 322.7	MxF	band	weak frac ctrl sil-ser altn and limonite. Otherwise fresh.		
277.7 - 320.0			Pervasive Weak Silicification	Fracture Controlled Weak Sericitisation	
322.3 - 370.0			Replaces Felsics Moderate Clay	Pervasive Weak Sericitisation	Pervasive Weak Silicification
322.7 - 370.6	FG	band	Weak clay-ser altn of spars throughout, locally frac ctrl mod. Pervasive weak silica throughout. 0.25% diss lim w/ local zones up to 0.5%		
370.0 - 373.1			Pervasive Strong Silicification	Replaces Felsics Strong Sericitisation	Fracture Controlled Weak Clay
370.6 - 373.1	BtS	fgrn	Strong perv sil-ser altn and mod clay repl of fspars. Local crackle bx texture assoc. with limonite-clay veins. 0.5% diss lim, 1% diss rusty subhedral pyrite.		
373.1 - 374.2	YC	matx	Intense silica and clay alteration, sub-angular clasts of silica and lesser schist, mostly unrecognizable with pervasive alteratin. 3-5% diss limonite, 1% diss fngr sooty sulphide. Possible dyke material as clasts.		
373.1 - 374.2			Pervasive Intense Clay	Replaces Clasts Intense Silicification	
374.2 - 375.0	HU	silc	Intense silica flooding of aphanitic dyke w/ strong perv clay altn. Fine laminated silica veinlets, sooty sulphide veinlets, and minor frac ctrl hematite. 1-2% diss oxides throughout, .25% sooty sulphide veinlets.		
374.2 - 378.5			Pervasive Intense Clay	Pervasive Intense Silicification	
375.0 - 376.0	YC	bxm	sil-ser altered bts/btrqm clasts in silica-limonite matrix bx. 2-3% diss lim and fngr sooty pyrite.		
376.0 - 378.4	YC	silc	Intense perv silica-clay altn. Angular to sub angular silicified clasts (dyke) in silica (0.5% limonite) martix supported bx. 3% diss lim 0.5% fngr sooty pyrite in matx and in frac within clasts. Silica veins throughout. Intense brecciation. Minor frac ctrl realgar present, some disseminations.		
378.4 - 379.6	BtS	pblst	Strong sil-ser altn of med grn schist, 0.5% diss limonite.		
378.5 - 379.5			Replaces Mafics Strong Sericitisation	Pervasive Moderate Silicification	
379.5 - 383.0			Pervasive Weak Silicification	Replaces Mafics Weak Sericitisation	
379.6 - 383.1	BtS	pblst	Weakly sil-ser altered schist, minor frac ctrl and diss limonite.		
383.0 - 391.4			Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation	
383.1 - 384.5	YC	bxi	sil-ser alt bts clasts in fngr sil-cy-limonite matrix. 3-5% limonite matrix, 1% diss lim , sooty py and rusty ehuhedral py in clasts.		
384.5 - 391.4	BtS	silc	Strongly fractured, perv sil-ser altn, frac ctrl mod clay, 0.5% diss lim w/ local hematite staining.		
391.4 - 397.5	BtRQM	fgrn	Increased clay alteration of strong ser-sil altered schist/rqm. Inc >1% diss hematite, 0.5-1% diss lim. Add of 0.5% rusty sub-euhedral pyrite.		
391.4 - 397.2			Replaces Felsics Strong Clay	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
397.2 - 397.5			Pervasive Moderate Sericitisation	Pervasive Moderate Sericitisation	
397.5 - 397.9	Ylim	bxm	5% cy-lim matrix breccia with sub rounded silica clasts.		
397.5 - 397.9			Pervasive Intense Clay	Replaces Clasts Strong Silicification	
397.9 - 401.5	FG	band	Mod ser-sil altn, mod cy repl of fspars. .25% frac ctrl lim.		
397.9 - 401.4			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
401.4 - 403.9			Pervasive Strong Silicification	Pervasive Strong Fe-carb	

401.5 - 402.5	Ycarb	bxv		Dominant crackle breccia texture surrounding large ~5cm white calcite vein. Sil-fe-carb stockwork veins throughout. /Calcite vein- halo of 0.2-3cm sub rounded to rounded clasts of FE-carb bts, selvedge of fngrr silica-fe-crb matrix microbreccia. Vein dips near vertical to the west. / Possibly exploiting/overprinting a fine gain silica-limonite laminated vein seen along LCA.
402.5 403.9	Ycarb	bxv		Second large calcite vein and associated intense silica flooded sil-lim matrix breccias. Clasts of fe-carb altered BtS, center of calcite vein/fold nose is full of 5% fine grain sooty pyrite. Veins described in vein tab. Throughout the Ycarb interval the clast size lessens downhole on average.
403.9 405.0	MxM	band		Augen gniess wk sil-ser altn, 0.5% frac ctrl limonite.
			403.9 - 445.3	Pervasive Weak Silicification
405.0 445.3	MxM	band		Variable minor altn

Drill Log: CFD0324

Easting	583989.84	Hole Length	200 m	Prospect	Supremo T3	Drill Started	Aug 07, 2013	Comment	Poor recovery 50-53m. Redrilled top 60m as CFD0325.
Northing	6973107.71	Azimuth	280 °	Target	T3 South of Latte	Drill Completed	Aug 09, 2013		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	CFinnegan	Core Size	NQ2		
Survey method	RTK GPS	Elevation	955.99 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.2	OVb			
3.2 - 8.3	UM	fgrn		chromium magnetite bearing ultramafic (leuwistonite) no fabric
8.3 - 200.0	BtS_carb	band		
		8.3 - 16.7	Pervasive Strong Sericitisation	Pervasive Weak Silicification
		24.7 - 32.9	Pervasive Strong Sericitisation	Pervasive Weak Silicification
		182.5 - 186.0	Patchy Weak Sericitisation	Patchy Weak Silicification
		193.0 - 196.7	Patchy Weak Sericitisation	Patchy Weak Silicification

Drill Log: CFD0325

Easting	583990.29	Hole Length	71 m	Prospect	Supremo T3	Drill Started	Aug 09, 2013	Comment	Redrill of top of CFD0324
Northing	6973106.72	Azimuth	270 °	Target	T3 South of Latte	Drill Completed	Aug 10, 2013		
Projection	UTM7-NAD83	Dip	-45 °	Geologist		Core Size	NQ2		
Survey method	RTK GPS	Elevation	955.98 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb			
3.0 - 11.2	UM	mass		chromium-magnetite bearing. Fault gauge at contact with next unit
11.2 - 71.0	BtS_carb	band		pervasive alteration. Very little fresh rock

Drill Log: CFD0326

Easting	584107.72	Hole Length	214.02 m	Prospect	Supremo T3	Drill Started	Aug 10, 2013	Comment
Northing	6973478.34	Azimuth	270 °	Target	T3	Drill Completed	Aug 12, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	JCurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1037.68 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.0	OVb	mgn		Mixed mafic gneiss
8.0 - 44.7	MxM	mgn		Weak clay-sericite altn
44.7 - 45.2	BtS	biot		Mod to strong sericitization, weak to mod frac ctrl clay. 1% diss lim and 1% frac ctrl hem.
		44.7 - 45.2	Replaces Mafics Strong Sericitisation	Fracture Controlled Moderate Clay
45.2 - 51.4	MxM	mgn		Incr clay-ser altn in Bt interval, minor oxidation
		45.2 - 51.4	Fracture Controlled Moderate Sericitisation	Fracture Controlled Moderate Clay
51.4 - 51.8	BtS	mgn		Strong clay-ser altn, locally crenulated in strongest altered interval, minor brecciated qtz veins, 1% diss limonite
		51.4 - 51.8	Replaces Mafics Moderate Sericitisation	Fracture Controlled Moderate Clay
51.8 - 79.2	MxM	band		Weak clay-ser frac ctrl alteration
79.2 - 91.0	MxM	augn		Increased frac ctrl clay-ser, local sil-ser altn w/ limonite. (cy-lim fault @ 89.23-.28, 0.25% diss lim) 88.5-88.7 fnger brassy pyrite observed
		79.2 - 91.0	Fracture Controlled Strong Sericitisation	Fracture Controlled Strong Clay Pervasive Strong Silicification
91.0 - 98.0	MxM	augn		Weakly altered
		91.0 - 140.0	Replaces Mafics Weak Sericitisation	Fracture Controlled Weak Silicification
98.0 - 103.0	MxM	augn		strong fracture control clay faults
103.0 - 140.0	MxF	band		Mixed fresh gneiss, minor sericite altn locally.
140.0 - 140.9	MxF	band		Mod silica-ser pervasive altn, 1% calcite/fe-carb veins. 20cm of 2% sooty py along foliation and in thin silica veinlets.
		140.0 - 141.0	Pervasive Moderate Silicification	Replaces Mafics Moderate Sericitisation
140.9 - 143.4	BtS	biot		Weakly sericitized schist, 0.25% fracture ctrl Fe-Carb altn, 0.15% blebby brassy py, 0.1% 4-2mm silica-fe carb veinlets.
		141.0 - 144.5	Replaces Mafics Weak Sericitisation	Fracture Controlled Weak Fe-carb
143.4 - 144.6	BtS	fgrn		Strong clay-ser pervasive altn, locally faulted. 1% perv fe-carb altn, 2 zones of strong 2% lim-hem disseminations.
		144.5 - 145.5	Pervasive Strong Clay	Replaces Mafics Moderate Sericitisation
144.6 - 144.8	Ylim	bxm		silica floods rounded clasts in weakly limonitic clay matrix
144.8 - 145.6	BtS	mgn		Strong perv clay-ser altn, fe-carb altn throughout with local 2% zones of diss lim and hematite.
		145.5 - 176.0	Pervasive Strong Silicification	Replaces Felsics Strong Clay Replaces Mafics Strong Sericitisation
145.6 - 146.9	BtS	mgn		Weak clay-ser altn of bts, fract ctrl fe-carbaltn.

146.9 - 149.8	BtS_carb	silc	Intense silicification of bts w/ carbonate bands, strong network of calcite and fe-carb veinlets. Most commonly steep N-S with a few mod dipping to the west, The steep N-S veins cross cut and off set the moderate dipping calcite veins minor angular brecciation observed in nose of larger calcite veins. 0.25% sulphide veinlets, 0.5% diss sooty py and 2-3% diss frac ctrl lim and hematite.
149.8 - 151.4	YC	silc	Intense silica flooding with strong sericite alt. Strong stock work of dolomitic veins and planar silica-sulphide veins. Minor 0.25 brassy and sooty pyrite diss with frac ctrl limonite, local 5 matrix infill of silica-sooty py. Silica-sooty py veins seem to offset calcite veins.
151.4 - 153.7	HU	silc	Intense perv sil and cy alteration. Silica flooding of clasts in silica-clay-limonite matrix micro to crackle breccia. Increased clay content ass. With increased 5% diss oxides (clay faults). 15 diss lim and 0.25% rusty subheral py throughout.
153.7 - 154.5	BtS	mgrn	Chloritized schist with minor frac ctrl hematite and weak frac ctrl clay.
154.5 - 157.0	BtRQM	fgrn	Weak silica, mod ser alt. of bt, mod frac ctrl clay. Pervasive fe-carb alteration.
157.0 - 157.3	BtS	mud	strong sil and perv clay alt., 3-5% diss oxides, no CO3
157.3 - 163.5	BtRQM	fgrn	Mod per sil-ser alt., locally strong. 0.25% diss lim, abundant fe-carb alteration.
163.5 - 165.9	BtS	mgrn	Strong clay replacement of fspars and weak silicification. 0.25% frac ctrl lim and 0.5% diss hematite, lack of CO3 alt. Minor calcite veining.
165.9 - 168.5	BtS	mgrn	Mod perv clay and CO3 altered schist, common calcite veining, weak oxidation.
168.5 - 170.8	BtS	fgrn	Strong perv sil-clay alteration of mgrn bts, 95% oxide. 3% diss lim with 2% frac ctrl hematite. Complex steep dipping calcite and limonite veining with conjugate frac filled carbonate.
170.8 - 173.1	HU	fgrn	Intense clay alteration with local intense silica replacement of felsic mins. Possible dyke material. 3-5% diss lim and hem stringers.
173.1 - 176.0	BtS	mgrn	Silicified, mod frac ctrl cy, 15 diss limonite throughout, stronger along fractures.
176.0 - 179.5	BtRQM	mgrn	sil-ser altered bts, common calcite veining. 0.25% frac ctrl limonite.
176.0 - 182.5 Pervasive Moderate Silicification Pervasive Moderate Sericitisation Fracture Controlled Weak Clay			
179.5 - 182.3	BtS	mgrn	Mod to strong altered bts, 1% diss lim throughout, 2-3% frac ctrl lim and strong clay.
182.3 - 214.0	MxM	mgrn	Chlorite altered schist, weak local cy rep of felsic, 0.25% frac ctrl fe-carb alt. locally. Minor brassy py.
182.5 - 214.0 Replaces Mafics Moderate Chlorite Replaces Felsics Weak Clay Pervasive Weak Silicification			

Drill Log: CFD0327

Easting	584108.2	Hole Length	269 m	Prospect	Supremo T3	Drill Started	Aug 12, 2013	Comment
Northing	6973478.39	Azimuth	270 °	Target		Drill Completed	Aug 15, 2013	
Projection	UTM7-NAD83	Dip	-60 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1037.72 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.7	OVB			
6.7 - 34.1	MxM	pblst	Fol-str	Altered gneiss. Moderate sericite and weak silica alteration, 0.2% fracture controlled limonite; 0.25% disseminated limonite from 18-22m
		6.7 - 34.1	Pervasive Moderate Sericitisation	Pervasive Weak Silicification
34.1 - 94.0	MxF	augn	Fol-str	Fresh gneiss with patches of alteration. Moderate k-spar alteration from 65-68.1, 85-89m. Patchy weak silicification. Broken zone from 90-92.2m
		65.0 - 69.1	Pervasive Moderate K-feldspar	
		85.0 - 89.0	Pervasive Moderate K-feldspar	
94.0 - 137.7	MxM	pblst	Fol-str	Mixed mafic dominant gneiss. Variable weak chlorite, sericite alteration. 0.25% disseminated hematite from 134-137.7m
		100.0 - 138.3	Patchy Weak Sericitisation	Patchy Weak Silicification
137.7 - 141.5	FC	fgrn		Clay altered felsic dike. 0.3-1% disseminated limonite from 138.5-141.54m
		138.4 - 142.3	Pervasive Strong Clay	
141.5 - 144.8	MxM		Fol-str	Clay altered schist. 1% disseminated limonite from 141.54-143.3m
		142.3 - 144.8	Pervasive Intense Clay	
144.8 - 174.3	MxF	augn	Fol-str	Augen gneiss, blocky with fracture controlled clay from 165-170m, weak sericite and 0.3% disseminated limonite from 170-174.25m
		165.0 - 170.0	Fracture Controlled Weak Clay	
		170.0 - 174.3	Pervasive Weak Sericitisation	
174.3 - 198.4	MsS		Fol-str	Strong to intense sericite overprinted schist, 1% disseminated limonite from 174.25-198.38m with patches of ~5-10cm of 30% densely spaced limonite veinlets
		174.3 - 175.5	Pervasive Strong Sericitisation	
		175.5 - 198.4	Pervasive Intense Sericitisation	
198.4 - 200.0	FC			silicified, weakly clay altered felsic dike
		198.4 - 200.6	Pervasive Moderate Silicification	Pervasive Weak Clay
200.0 - 200.4	MxM		Fol-str	area of schist between dikes
200.4 - 200.6	FC			silicified, weakly clay altered felsic dike
200.6 - 206.2	MxM	pblst	Fol-str	weakly chlorite altered gneiss
		200.6 - 229.1	Replaces Mafics Weak Chlorite	
206.2 - 207.2	IV			plagioclase-porphyritic intermediate dike
207.2 - 212.4	MxM		Fol-str	weakly chlorite altered gneiss. Patchy weak sericite alteration
212.4 - 214.6	IV			Multiphase intermediate dike. Grey fine grained/ dark grey medium grained
214.6 - 229.1	MxM		Fol-str	weakly chlorite altered gneiss. Limonite-clay vein crackle breccia with 2% disseminated limonite from 222.36-222.8m; 0.5% disseminated limonite from 225.9-228.4m. 1% disseminated limonite and 4% open space calcite veins from 228.4-229.1m
229.1 - 236.0	YC	bx		Multiphase breccia, strongly silicified throughout. Limonite / Sooty sulphide matrix silicified clast breccia from 229.1-230.05m. White silica matrix silicified clast breccia from 230.05-230.9m. calcite vein matrix crackle breccia from 230.9-233.5m. porcelanic white silica matrix breccia from 233.5-235.7m. Sooty sulphide matrix breccia from 235.7-236.02m. clasts are dominantly of altered biotite gneiss
		229.1 - 236.0	Pervasive Strong Silicification	

236.0 - 247.9	MxM		Fol-str	Biotite gneiss, 1% disseminated limonite and moderate sericite alteration from 246.85-247.85m
		246.9 - 247.9	Pervasive	Moderate Sericitisation
247.9 - 248.2	YO	bx		porcelanic quartz-carbonate matrix silicified clast breccia
248.2 - 269.0	MxM		Fol-str	Mixed biotite gneiss. 2% limonite veinlets from 248.2-248.65m

Drill Log: CFD0328

Easting	583203.82	Hole Length	170 m	Prospect	Sumatra	Drill Started	Aug 14, 2013	Comment
Northing	6974049.57	Azimuth	180 °	Target		Drill Completed	Aug 16, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1161.01 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
		0.0 - 34.5	Replaces Mafics Weak Sericitisation	Fracture Controlled Weak Clay
6.0 - 34.5	MxM	mgrn	Fol-str	Variable weak alteration, minor sericite, frac ctrl clay and silica. Local diss hematite.
34.5 - 35.6	BtS	pblst	Fol-str	Moderate clay-sericite altn, 25 diss limonite w/ frac ctrl hematite. 5% weakly brecciated qtz veins.
		34.5 - 35.6	Replaces Mafics Moderate Sericitisation	Pervasive Moderate Clay
35.6 - 84.0	MxM	mgrn	Fol-str	moderate sericite altn, weak fra ctrl clay locally, increased degree of fracturing, minor oxidation fracture surfaces. Short (51.3-.5) limonitic interval associated with buck qtz vein. 3% limonite with strong sericite and clay from 54.85-55.45m. 1% disseminated limonite with strong clay and sericite from 64.3-65.2m. Augne bearing starting at 72m. strong sericite from 78.5-84m
		35.6 - 54.9	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Clay
		54.9 - 55.5	Pervasive Strong Sericitisation	Pervasive Strong Clay
		64.3 - 65.2	Pervasive Strong Sericitisation	Pervasive Strong Clay
		78.5 - 84.0	Pervasive Strong Sericitisation	
84.0 - 88.4	Ylim	bx		Intensely clay and sericite altered rock with 3%disseminated limonite from 84-84.15m;followed by a mostly unconsolidated clay-limonite matrix breccia with <1cmclasts of quartzvein and altered biotite gneiss to end of interval.
		84.0 - 88.4	Pervasive Intense Clay	
88.4 - 170.0	MxM	mgrn	Fol-str	Zone at start of interval. Intensely sericite altered gneiss with 2% disseminated limonite from 88.4-89.05m. Strong sericite altered gneiss with 0.5-1% disseminated limonite from 89.05-100.75m. 0.5% disseminated limonite andlimonite veinlets with strong sericite from 137.2-140m. Patchy weak silicification and chlorite alteration over rest of interval
		88.4 - 89.1	Pervasive Intense Sericitisation	
		89.1 - 100.8	Pervasive Strong Sericitisation	
		137.2 - 140.0	Pervasive Strong Sericitisation	

Drill Log: CFD0329

Easting	583203.1	Hole Length	197 m	Prospect	Sumatra	Drill Started	Aug 16, 2013	Comment
Northing	6974114.28	Azimuth	180 °	Target	Main Structure	Drill Completed	Aug 17, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1168.06 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.5	OVB			
6.5 - 52.1	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration, variable weak silicification. strong sericite and 2% disseminated limonite and hematite from 50.9-52.15m
		6.5 - 50.9	Replaces Mafics Weak Chlorite	Patchy Weak Silicification
		50.9 - 52.2	Pervasive Strong Sericitisation	
52.1 - 52.6	Ylim	bx		Clay-limonite matrix breccia. Intense clay overprint, 5% limonite
		52.2 - 52.6	Pervasive Intense Clay	
52.6 - 102.0	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration, variable weak silicification. strong sericite and 2% disseminated limonite and hematite from 52.63-54.48m and 101.8-102m
		52.6 - 54.7	Pervasive Strong Sericitisation	
		54.7 - 101.8	Replaces Mafics Weak Chlorite	
		101.8 - 102.6	Pervasive Strong Sericitisation	
102.0 - 102.3	MV			Milky quartz vein with 1% disseminated oxidized cubic pyrite and limonite selvage
102.3 - 108.9	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration, variable weak silicification. strong sericite and 2% disseminated limonite and hematite from 102.3-102.6m and 108.85-108.9m
		108.9 - 109.4	Pervasive Intense Clay	
108.9 - 109.4	Ylim	bx		clay-limonite matrix breccia. 4% limonite and intense clay
109.4 - 150.5	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration, variable weak silicification. strong sericite and 2% disseminated limonite and hematite from 109.35-110m. strong clay and sericite fwith 0.7% disseminated limonite from 130.2-134m (1.5% limonite from 133-133.75m.Strong sericite with 2% disseminated limonite/Sooty sulphides + hematite from 138.35-139.2m. Strong sericite, silica and bleaching with 0.2-0.5% disseminated limonite from 132.2-149.15m. 1.5% limonite with strong sericite and weak clay with patches of chalcidonic silicification from 149.15 - grading into sooty sulphides 2-4% disseminated + veinlets at 150.05- 150.47
		109.4 - 110.0	Pervasive Strong Sericitisation	
		110.0 - 130.2	Replaces Mafics Weak Chlorite	
		130.2 - 134.0	Pervasive Strong Clay	Pervasive Strong Sericitisation
		134.0 - 150.5	Pervasive Strong Sericitisation	Pervasive Strong Silicification
150.5 - 151.9	YC	bx		Multiphase mineralized breccia. from 150.47- 151.2 is intensely silicified clast breccia with clay limonite matrix (5% limonite). from 151.2-151.9 is clay altered throughout with barely any recognizable textures (5% limonite).
		150.5 - 151.9	Pervasive Intense Silicification	Pervasive Strong Clay
151.9 - 197.0	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration. Variable weak silicification. From 180-189.25m : weak-moderate clay, sericite alteration, 0.1-0.5% disseminated limonite.
		151.9 - 180.0	Replaces Mafics Weak Chlorite	
		180.0 - 189.3	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
		189.3 - 197.0	Replaces Mafics Weak Chlorite	

Drill Log: CFD0330

Easting	583251.17	Hole Length	125 m	Prospect	Sumatra	Drill Started	Aug 17, 2013	Comment
Northing	6974082.07	Azimuth	0 °	Target		Drill Completed	Aug 18, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1175 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 69.5	MxM	pblst	Fol-str	Mixed biotite gneiss, weak chlorite alteration. From 35.2-35.65m: crackle breccia defined by limonite veinlets (3% limonite interval). From 35.65-40.6m : 0.25 disseminated limonite and weak-moderate sericite
		6.0 - 35.7		Replaces Mafics Weak Chlorite
		35.7 - 46.0		Pervasive Moderate Sericitisation
		46.0 - 69.5		Replaces Mafics Weak Chlorite
69.5 - 69.6	YC	bxm		Vertical E-W silicified clast micro breccia. Silica-1% limonite matrix. Oriented in 4 separate bands of breccia.
		69.5 - 70.7		Pervasive Moderate Silicification Pervasive Moderate Sericitisation
69.6 - 70.7	FG	band	Fol-str	Silicified gneiss, 0.255 subhedral hematite, 0.5% frac ctrl lim. Common brecciated qtz veining.
70.7 - 107.0	MxM	band	Fol-str	Bt dominant gneiss, minor sericite and chlorite altn.
		70.7 - 107.0		Replaces Mafics Weak Chlorite Replaces Felsics Weak Sericitisation
107.0 - 116.0	FG	band		Weak silica-ser altn, clay replacement of spar, minor frac ctrl lim and diss hematite.
		107.0 - 116.0		Pervasive Weak Silicification Fracture Controlled Weak Sericitisation Replaces Felsics Weak Clay
116.0 - 125.0	MxF	band		Minor sericite altn and diss hematite.

Drill Log: CFD0331

Easting	583352.6	Hole Length	110 m	Prospect	Sumatra	Drill Started	Aug 18, 2013	Comment
Northing	6974086.63	Azimuth	3 °	Target		Drill Completed	Aug 19, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1195.11 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.6	OVb			
6.6 - 15.7	MxM	pblst	Fol-str	Mixed biotite gneiss. 0.1-0.25% fracture controlled and disseminated limonite. Weak sericite alteration
6.6 - 15.7				Pervasive Moderate Sericitisation
				Fracture Controlled Moderate Clay
15.7 - 20.7	MsS	musc	Fol-str	Intensely sericite - muscovite altered gneiss. 3-6% disseminated limonite and hematite. Possible Hu / Clay? Breccia from 17.7-18m
15.7 - 17.7				Pervasive Intense Sericitisation
17.7 - 18.0				Pervasive Strong Clay
18.0 - 20.7				Pervasive Intense Sericitisation
20.7 - 31.6	MxM	pblst	Fol-str	Biotite gneiss with strong sericite and 0.1% fracture controlled clay-limonite and 0.5-1.5% disseminated limonite+hematite. Strongly fractured
20.7 - 31.6				Pervasive Moderate Sericitisation
31.6 - 32.0	HU			Intense clay with 4% limonite
31.6 - 32.0				Pervasive Intense Clay
32.0 - 79.2	MxM	pblst	Fol-str	Biotite gneiss. From 32-48.05m: Strong sericite with 0.25% Limonite veinlets and 1-2% disseminated limonite (Sooty sulphides from 39.8-42m). From 48.05- 71.8: moderate sericite and variable bleaching with 0.2-0.5% disseminated limonite. From 71.8-79.2m: Strong sericite and local bleaching, 2% disseminated limonite with 5cm patches of 4% limonite. possible brecciation of quartz veins from 78.3-78.9m.
32.0 - 48.0				Pervasive Strong Sericitisation
48.0 - 71.8				Pervasive Moderate Sericitisation
71.8 - 72.9				Pervasive Strong Sericitisation
79.2 - 85.0	IV	mass		Green mafic dike. nonmagnetic. chlorite alteration with 0.2% disseminated limonite on margins
85.0 - 110.0	MxF		Fol-str	Mixed felsic gneis, variable weak silicification

Drill Log: CFD0332

Easting	585002.34	Hole Length	200 m	Prospect	Supremo T7	Drill Started	Aug 19, 2013	Comment
Northing	6974051.79	Azimuth	270 °	Target	T7	Drill Completed	Aug 21, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1246.61 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.3	OVb			
6.3 - 22.2	MxM	pblst	Fol-str	Mixed Biotite gneiss
22.2 - 26.3	FG		Fol-str	Felsic gneiss
26.3 - 28.1	DIOR		Fol-wk	Weakly foliated green rock (meta-mafic-dike?)
28.1 - 51.8	MxM	pblst	Fol-str	Mixed Biotite gneiss
		28.1 - 51.8	Replaces Mafics Moderate Chlorite	Patchy Weak Sericitisation
51.8 - 53.5	BtS		Fol-mod	Zone through schistose host. Strong sericite alteration leading up to interval, 2% diss hematite. Foliation // qtz veins cut by later qtz vein along common fracture set with clay-limonite along fractures.
		51.8 - 53.5	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
53.5 - 58.0	MxM	pblst	Fol-str	Mixed Biotite gneiss. Heavy chlorite alteration.
		53.5 - 58.0	Replaces Mafics Strong Chlorite	
58.0 - 59.5	BtS	pblst	Fol-mod	Thin zone, up to 1.5% hematite along foliation, moderate sericite, weak clay replacement of feldspar porphyroblasts
		58.0 - 59.5	Patchy Strong Sericitisation	Replaces Felsics Weak Clay
59.5 - 65.1	MxM		Fol-str	Mixed biotite gneiss, relict augens in felsic portions, weak fracture controlled limonite.
		59.5 - 65.1	Replaces Mafics Moderate Chlorite	
65.1 - 65.9	MsS		Fol-mod	Thin zone, up to 1.5% disseminated hematite, strong clay along fractures, moderate sericite throughout.
		65.1 - 65.9	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation
65.9 - 72.2	MxM		Fol-mod	Patchy strong clay alteration and disaggregation of mafic portions. Heavily fractured and clay altered over last ~1.5m. Strong chlorite.
		65.9 - 72.2	Patchy Strong Clay	Patchy Strong Chlorite
72.2 - 73.4	Ylim			Interval of strong limonite + hematite, with clast supported, limonite/hematite clay matrix breccia from 72.8-73.4m. Heavily fractured at start of interval.
		72.2 - 73.4	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
73.4 - 80.3	MsS		Fol-str	Strong sericite alteration, strongly fractured, with moderate clay along fractures. Up to .5% diss limonite.
		73.4 - 80.3	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
80.3 - 86.6	MsS		Fol-str	Strong zone, patches of HU through schistose host, strong clay alteration, up to 4% diss hematite, strong sericite.
		80.3 - 86.6	Pervasive Strong Sericitisation	Pervasive Strong Clay
86.6 - 94.9	MxF		Fol-str	Patchily oxidized felsic dominant gneiss. Patch of strong silica-sericite alteration from 88.9-89.2m with exposed sulphide-facies mineralization window. Thin patches of up to 1.5% diss hematite.
		86.6 - 94.9	Patchy Strong Silicification	Patchy Strong Sericitisation
94.9 - 95.7	IV		Fol-wk	Foliated dark green mafic dyke? Pervasively carbonated with Fe-carb patches.
		94.9 - 95.7	Pervasive Strong Calcite	

95.7 - 103.2	MxS	Fol-wk	Zone: oxidized schist, moderate pervasive sericite. Strong zone runs from 99.15-100.7m with strong pervasive clay altn and up to 3% hematite and 1% limonite. Weak halo surrounding the core zone with moderate silica and up to 1% limonite.		
		95.7 - 103.2	Patchy Strong Clay	Pervasive Moderate Sericitisation	Patchy Moderate Silicification
103.2 - 119.0	MxF	Fol-str	Mixed felsic gneiss, strong to intense silicification in patches, patchy white-limonite clay alteration, mafics strong calcite alteration.		
		103.2 - 119.0	Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Weak Clay
119.0 - 147.8	MxF	Fol-str	Mixed felsic gneiss.		
		119.0 - 147.8	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite	
147.8 - 150.7	FG	Fol-str	Thin weak zone. Heavily fractured felsic gneiss, up to 1% diss limonite, strong clay along some fractures, moderate sericite.		
		147.8 - 150.7	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation	
150.7 - 165.0	MxF	Fol-str	Mixed felsic dominant gneiss, patchy strong silica and sericite. Local YO brecciation from 153-154m through unmineralized rock, rotated angular clasts of felsic gneiss, brecciation occurs throughout 1m interval.		
		150.7 - 165.0	Patchy Strong Sericitisation	Patchy Strong Silicification	
165.0 - 167.3	MxF	Fol-str	Weak zone beginning with gradational oxidation contact through biotite schist. .5% diss limonite, moderate sericite.		
		165.0 - 167.3	Pervasive Moderate Sericitisation		
167.3 - 200.0	MxF	Fol-str	Mixed felsic gneiss, coarse augens, patches of strong clay-chlorite alteration, mod silica.		
		167.3 - 200.0	Patchy Strong Clay	Patchy Strong Chlorite	Pervasive Moderate Silicification

Drill Log: CFD0333

Easting	585027.7	Hole Length	197 m	Prospect	Supremo T7	Drill Started	Aug 21, 2013	Comment
Northing	6974052.37	Azimuth	270 °	Target		Drill Completed	Aug 23, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1245.25 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVb	augn	Fol-mod	Felsic gneiss boulders
5.0 - 11.4	MxF	mgrn		Minor fract ctrl oxidation, weak sericite altn.
11.4 - 13.6	MxF	mgrn	Fol-str	Strong pervasive silica-ser altn, local strong clay replacement and frac ctrl. 3 short interval 1-2cm of clay-limonite matrix breccias. Clasts are strongly silicified. Possible foliation parallel faults. 3% diss hematite w/ lesser limonite.
13.6 - 22.4	MxM	11.4 - 13.6 mgrn 13.6 - 19.0 19.0 - 21.3 21.3 - 22.4	Replaces Mafics Strong Sericitisation Fol-str Replaces Mafics Weak Sericitisation Pervasive Strong Silicification Pervasive Strong Clay	Replaces Felsics Strong Clay Pervasive Moderate Silicification mixed schist, minor 1% calcite/fe-carb planar veins. 2% frac ctrl oxides @18.43-18.53. Increased silicification downhole leading up to next weak zone. Pachy Weak Silicification
22.4 - 23.2	FG	silc		Silicified gneiss, w mod sericite altnand frac ctrl clay. Intense clay altered fault zone w common qtz vein ~15cm w 1% limonite. Strong alterationand 3% diss hematite in footwallof fault
		22.4 - 22.7	Pervasive Strong Silicification	Replaces Mafics Moderate Sericitisation
		22.7 - 23.0	Pervasive Intense Clay	Replaces Felsics Moderate Silicification
		23.0 - 23.2	Pervasive Strong Silicification	Replaces Mafics Moderate Sericitisation
23.2 - 37.0	MxM	band		Variable weak alteration, silica of FG, chlorite, epidote of BtS, minor frac ctrl clay-limonite.
		23.2 - 37.0	Fracture Controlled Weak Sericitisation	
37.0 - 39.2	MxF	augn		Mineralized gneiss and 10% opaque massive qtz vein. Mod sili-ser altn, weak fc clay, feldspar augens completely replaced by clay. One discrete interval of intense clay altered micro breccia.
		37.0 - 39.0	Replaces Felsics Strong Clay	Replaces Mafics Strong Sericitisation Pervasive Strong Silicification
39.2 - 42.1	MV	silc		Massive white opaque qtz vein.uppe rcontact appears foliation parallel
		42.0 - 89.0	Replaces Mafics Weak Sericitisation	Pervasive Weak Silicification
42.1 - 89.0	MxF	augn	Fol-str	Mixed gneiss, common 1% qtz veining, fracturecontroll limonite and increased alteration associated with these veins. Minor intervals of oxidation throughout and 0.1% diss hem in fg lith intervals
89.0 - 90.5	FG	silc		Strong silica sericite altered felsic gneiss w/ fracture ctrl clay. 2% diss limonite, 2% buck qtz veins.
		89.0 - 90.5	Pervasive Strong Silicification	Replaces Mafics Moderate Sericitisation Fracture Controlled Moderate Clay
90.5 - 113.2	MxF	augn		Mixed gneiss, moderate chlorite altn of schist, patches of carbonate, silicification of felsics. Some fractures weakly clay altered.
		90.5 - 113.2	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Weak Clay
113.2 - 118.5	BtS		Fol-mod	Zone: strong disseminations of hematite (up to 3%) and limonite (up to 1%) through schist. Patchy oxidation windows around 114.5m, moderate sericite and clay alteration throughout.
		113.2 - 118.5	Pervasive Moderate Sericitisation	Pervasive Moderate Clay

118.5 - 121.3	BtS	band	Biotite schist dominant, thin slips of felsic gneiss sub 10cm. 30cm of fine grained, green dyke with weak foliation defined by carbonate.		
118.5 - 121.3			Replaces Mafics Moderate Chlorite	Patchy Moderate Calcite	
121.3 - 122.0	BtS	Fol-mod	Thin zone, strong 30cm of 2% limonite and 1.5% hematite disseminated in a clay zone. Thin patch of disseminated hematite at end of unit. Moderate pervasive clay, with white clay alteration between two mineralized patches. Weak sericite.		
121.3 - 122.0			Pervasive Moderate Sericitisation	Patchy Moderate Clay	
122.0 - 132.3	MxF	band	Mixed gneiss, foliation parallel qtz veins, fine pink colouration to gneiss due to disseminated hematite, weak chlorite alteration of mafics.		
122.0 - 132.3			Patchy Moderate Silicification	Replaces Mafics Weak Chlorite	
132.3 - 140.6	MxF		Broad zone: heavily fractured mixed gneiss, areas of intense alteration to HU, with strong limonite, hematite, and local limonite-clay matrix breccia (135-135.30m) across entire zone, with the exception of: 132.6-133m; 137-137.5m; 137.8-138.3m, which are clay-chlorite altered, porphyroblastic, green biotite schist panels. Up to 3% patchy limonite and 2% patches of hematite. common quartz veins up to 30cm wide.		
132.3 - 140.6			Patchy Strong Silicification	Patchy Strong Sericitisation	Fracture Controlled Moderate Clay
140.6 - 150.8	MxM		Weak patchy zone. Strong chlorite in mafic portions along with clay alteration of feldspar porphyroblasts. Felsic slips are strongly altered, silicified, fractured. Weaker oxidation than previous unit, except for thin patch at 143m with 1% disseminated limonite along with strong clay in a fracture/fault zone (30cm)		
140.6 - 150.8			Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay	Patchy Strong Silicification
150.8 - 156.2	HU		Zone: heavily fractured, intense alteration to HU levels. Strong clay along fractures, strong disseminations of hematite along foliation, sometimes bound by thin, deformed quartz veins (2-3cm wide). Areas of strongly porphyroblastic relict biotite schist. strong silica-sericite alteration throughout.		
150.8 - 156.2			Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Strong Clay
156.2 - 164.5	MxF	augn	Weak zone: mixed felsic gneiss with moderate fracture controlled clay, patchy silica. Moderate clay replacement of feldspar augens, heavily fractured from 158-159.7m. 1% disseminated limonite. Moderate sericite in patches. Up to .75% hematite in patches. 3 quartz veins in mineralized area, up to 25cm thick.		
156.2 - 164.5			Patchy Moderate Sericitisation	Fracture Controlled Moderate Clay	Patchy Moderate Silicification
164.5 - 175.2	MxF	silc	Strongly silicified and bleached mixed gneiss. Strong silica-sericite-pyrite (As) alteration, with blebby, white-brassy arsenian pyrite (1.5%) both as blebs within foliation, as well as along common fracture set oriented at (XX XX). Patches of weak limonitic oxidation of bleached rock common (.5% disseminated).		
164.5 - 175.2			Pervasive Strong Silicification	Pervasive Strong Sericitisation	
175.2 - 179.5	MxF		Oxidized felsic dominant gneiss. Bt-amph schist interval (178.6-179.5) is unoxidized, weakly chloritized. Moderate sericite-silica throughout, up to 1.5% disseminated limonite, with .5% hematite along fractures.		
175.2 - 179.5			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Replaces Mafics Weak Chlorite
179.5 - 185.3	FG	augn	Zone: felsic gneiss, up to 2% limonite disseminated throughout, 1% hematite, clay alteration along fractures with weak breccia textures forming along some strongly clay altered planes. Moderate clay replacement of feldspar augens, moderate sericite throughout. Brassy pyrite along same fracture planes as earlier unit, oxidizing to a deep red.		
179.5 - 185.3			Pervasive Moderate Sericitisation	Fracture Controlled Strong Clay	Patchy Moderate Silicification
185.3 - 197.0	MxF	augn	Mixed gneiss, up to .5% limonite along fractures, moderately silicified throughout. Numerous thin clay-rich fracture/fault zones.		
185.3 - 197.0			Pervasive Moderate Silicification	Fracture Controlled Strong Clay	

Drill Log: CFD0334

Easting	584986.19	Hole Length	137.8 m	Prospect	Supremo T7	Drill Started	Aug 23, 2013	Comment
Northing	6974500.41	Azimuth	270 °	Target		Drill Completed	Aug 25, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	JCurrie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1213.02 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVb	augn		FG, minor oxidation
		0.0 - 34.0	Replaces Mafics Weak Sericitisation	Patchy Weak Silicification
5.0 - 33.0	FG	augn	Fol-str	Fresh gneiss, minor 0.1% diss hem and frac ctrl limonite locally.
33.0 - 58.2	MxF	band	Fol-str	Local minor frac ctrl clay and limonite. Common Fe-carb planar veins (vertical N-s). 44.85-45.4 1% frac ctrl oxides.
		34.0 - 58.2	Fracture Controlled Weak Clay	Fracture Controlled Weak Fe-carb
58.2 - 59.7	BtS		Fol-str	Strong zone. Heavy (3.5%) disseminated hematite along foliation, strong sericite, moderate pervasive clay alteration. Gradational oxidation contacts with upper and lower contacts.
		58.2 - 59.7	Pervasive Moderate Clay	Pervasive Strong Sericitisation
59.7 - 64.5	MxF	augn	Fol-str	Weak intermediary zone. Upto .5% disseminated limonite, moderate to strong yellow-clay replacement of feldspars through FG portions, up to .5% frac cont hematite. Moderate sericite throughout.
		59.7 - 64.5	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
64.5 - 68.4	MxF	augn	Fol-str	Strong zone. Visible oxidation windows through strongly oxidized MxF. Up to 3% disseminated hematite, 1% limonite, strong silicification throughout in addition to strong sericite. Rare quartz veining.
		64.5 - 68.4	Pervasive Strong Silicification	Pervasive Strong Sericitisation
68.4 - 83.7	MxF	augn	Fol-str	Mixed gneiss, up to .25% frac cont limonite. Thin patch of 1.5% fracture controlled hematite on fracture oriented (A,B: 40, 040) which cuts old qtz vein oriented (40, 185) from 71.5-71.68m. Qtz vein is vuggy, oxidation off fracture seems to bleed along vein margin into host.
		68.4 - 83.7	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite
83.7 - 84.9	FG		Fol-wk	Thin patch of yellow-white clay pervasive clay alteration of felsic gneiss, with development of limonite-carbonate matrix brecciation. Up to 20cm wide breccia zones, clast supported, .75% limonite within fine matrix.
		83.7 - 84.9	Pervasive Moderate Clay	Fracture Controlled Moderate Fe-carb
84.9 - 88.8	MxF	augn	Fol-str	Mixed gneiss, strong silicification, augens up to 1cm, patches of .25% disseminated hematite. Opaque qtz vein from 87.13-87.5m.
		84.9 - 88.8	Pervasive Strong Silicification	
88.8 - 90.5	Ycarb			Interval of brecciation with 2% disseminated limonite and 1% disseminated hematite. Interval begins with Ycarb with weak breccia development, grades into YC from 89.15-89.55m. Thin clay matrix interval from 89.55-89.70m. End of unit is weakly brecciated MxF. Common dismembered quartz veins throughout, strong patchy silicification.
		88.8 - 90.5	Patchy Strong Fe-carb	Patchy Strong Silicification
90.5 - 137.8	MxF	augn	Fol-str	Mixed gneiss, coarse feldspar augens. Moderate silicification throughout, weak chlorite after mafics, thin patches of weak, fracture controlled oxidation at: 93.1-93.25m; 109.45-109.80m; 133.05-133.55m. Up to .25% fracture controlled limonite across the unit.
		90.5 - 137.8	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0335

Easting	585015.5	Hole Length	140 m	Prospect	Supremo T7	Drill Started	Aug 24, 2013	Comment
Northing	6974500.7	Azimuth	270 °	Target	T7	Drill Completed	Aug 25, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1214.99 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVb			
		0.0 - 5.0		
5.0 - 30.0	FG	augn	Fol-str	Felsic gneiss, patches of white clay alteration with weak oxidation throughout (up to .5% disseminated limonite). Weak fracture controlled clay in some areas.
		5.0 - 30.0	Patchy Moderate Clay	
30.0 - 52.8	MxF	augn	Fol-str	Mixed gneiss, thin 20cm BtS slips. Moderate silicification, trace frac cont limonite, moderate clay and chlorite after mafics.
		30.0 - 52.8	Replaces Mafics Moderate Clay	Replaces Mafics Moderate Chlorite
52.8 - 58.6	MxF		Fol-str	Zone. Strong pervasive sericite alteration and up to 1% limonite and 3% disseminated hematite throughout. Oxidation window revealing strong sulphidation of relict schistose host at 57.65m. Patchy strong silica. Heavily clay altered and broken down from 56-57m. Oxidation gradationally weakens over last 50cm.
		52.8 - 58.6	Patchy Strong Clay	Pervasive Strong Sericitisation Patchy Strong Silicification
58.6 - 65.5	MxF	augn	Fol-str	Mixed gneiss, moderate silicification, weak fracture controlled clay alteration
		58.6 - 65.5	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
65.5 - 67.3	FG	silc	Fol-str	Thin zone, up to 3% disseminated hematite in areas, strong patchy silicification. At 66.5m, broken area with dismembered qtz vein and 1.5% disseminated limonite. Strongest mineralization centered from 65.8-66.9m. Moderate clay replacement of feldspar augen.
		65.5 - 67.3	Replaces Felsics Moderate Clay	Patchy Strong Silicification
67.3 - 90.0	MxF	augn	Fol-str	Mixed gneiss, patchy moderate epidote alteration, up to .25% fracture controlled limonite, weak chlorite after mafics.
		67.3 - 90.0	Patchy Moderate Epidote	Replaces Mafics Moderate Chlorite Patchy Moderate Silicification
90.0 - 92.6	MxF		Fol-str	Zone: moderate white-yellow clay replacement of feldspar augen, strong disseminated mineralization with up to 2.5% disseminated hematite from 91-91.6m. Strong sericite throughout. Visible oxidation windows reveal strong disseminated fine grained sulphide.
		90.0 - 92.6	Pervasive Strong Sericitisation	Replaces Felsics Moderate Clay
92.6 - 94.3	MxF		Fol-str	Half unit of strongly silicified felsic gneiss, coarse augen. Lower 1m consists of calcite-rich biotite schist with gradational lower contact with biotite altering to sericite.
		92.6 - 94.3	Patchy Strong Silicification	Patchy Moderate Chlorite
94.3 - 107.7	MxF		Fol-str	Zone: mixed gneiss. Strongest disseminations of hematite and limonite from 94.25-97.2m, 99.9-100.6m, and 103-104.9m, all containing up to 3.5% hematite. Some qtz veins present, also heavily fractured fault from 101-101.3m.
		94.3 - 107.7	Replaces Felsics Moderate Clay	Patchy Strong Sericitisation Patchy Strong Silicification
107.7 - 115.2	MxF	silc	Fol-str	Strong silicification of felsic-dominant gneiss, up to .5% fracture controlled limonite and patches of strong sericite. Strong silica-sericite from 114-115m with approx. 1% disseminated oxides.
		107.7 - 115.2	Patchy Strong Silicification	Patchy Strong Sericitisation
115.2 - 140.0	MxF	augn		Mixed felsic dominant gneiss. Moderate silicification throughout, patches of minor bleaching. .25% fracture controlled limonite. Strongly clay altered fault from 136.7-137m.
		115.2 - 140.0	Pervasive Moderate Silicification	Patchy Moderate Sericitisation

Drill Log: CFD0336

Easting	584182.9	Hole Length	110 m	Prospect	Supremo T3	Drill Started	Aug 25, 2013	Comment
Northing	6974286.84	Azimuth	270 °	Target	T3	Drill Completed	Aug 26, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Ebuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1280.81 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVb			
4.0 - 53.9	MxF		Fol-str	Mixed gneiss with weak chlorite alteration of mafics and minor patches of bleaching and white clay alteration.
		4.0 - 53.9	Patchy Moderate Silicification	Patchy Moderate Clay
53.9 - 57.6	MsS		Fol-str	Oxidized schistose host, approx. 1% disseminated limonite, moderate sericite, moderate pervasive clay replacement of feldspars.
		53.9 - 57.6	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
57.6 - 60.2	FG	silc		Intensely silicified felsic gneiss, near-unrecognizable in some areas. First 10cm of unit is a clay-matrix breccia, unoxidized, almost complete decomposition of host which ends abruptly at silicified gneiss. From 60-60.2m, matrix supported strongly oxidized breccia, 2% disseminated limonite, small rounded clasts of silicified host.
		57.6 - 60.0	Pervasive Intense Silicification	
		60.0 - 60.2	Replaces Clasts Strong Silicification	Replaces Matrix Moderate Clay
60.2 - 64.8	FC	fgrn		Strong zone: intensely altered and oxidized felsic dyke. Liseegang oxidation banding, moderate pervasive clay alteration. Lower contact obscured and difficult to identify due to alteration. Strong limonite-hematite throughout (2.5%, 3.5%).
		60.2 - 64.8	Pervasive Moderate Clay	
64.8 - 67.3	HU			Strong zone: hydrothermally unrecognizable unit. Thin (10cm) YC brecciation, with unit ending in YC breccia from 66.6-67.1m. Breccia composed of silicified clasts of wallrock, angular, matrix-supported. Fine grey silica-rock flour matrix visible in thin, unoxidized patch at 66.8m. Strong limonite, hematite throughout (2.5%, 3.5%).
		64.8 - 67.3	Patchy Strong Silicification	Pervasive Strong Clay
67.3 - 69.8	FG		Fol-str	Shoulder to zone, moderate pervasive white clay alteration of feldspars, patches of purple-pink hematite, moderate sericite.
		67.3 - 69.8	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
69.8 - 77.8	FG	silc	Fol-str	Strong silica and sericite alteration of felsic gneiss. Patchy weak oxidation.
		69.8 - 77.8	Pervasive Strong Silicification	Pervasive Strong Sericitisation
77.8 - 78.9	FG		Fol-str	Shoulder to zone, pervasive yellow-white clay alteration of first 1.5m leading into fine disseminated purple-pink hematite through silicified gneiss. .5% limonite along fractures, .5% fine hematite.
		77.8 - 78.9	Patchy Moderate Clay	Patchy Strong Silicification
78.9 - 82.2	BtS	pblst	Fol-str	Zone: strong to intense (in patches) sericite alteration of schistose host, with patches of up to 2.5% disseminated hematite. Strong silicification, thin bands of pitting and moderate clay alteration.
		78.9 - 82.2	Patchy Strong Sericitisation	Pervasive Strong Silicification Replaces Felsics Moderate Clay
82.2 - 89.8	BtS	pblst	Fol-str	Weak zone: similar to previous, less intense sericitization throughout (patches of un-sericitized biotite visible) 1% disseminated limonite, patches of 2% hematite. End of unit contains areas of moderate to strong clay-chlorite decomposition of schist.
		82.2 - 89.8	Pervasive Strong Sericitisation	Patchy Moderate Silicification
89.8 - 97.6	MxF	silc	Fol-str	Mixed gneiss, moderate silicification, weak chlorite after mafics.
		89.8 - 97.6	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
97.6 - 99.6	MxF			Zone: up to 2.5% disseminated hematite (centered on 98.6-99m) with strong sericite and moderate patchy clay replacement of feldspars. 1% disseminated limonite throughout.
		97.6 - 99.6	Pervasive Strong Sericitisation	Patchy Moderate Clay
99.6 - 110.0	MxF	augn	Fol-str	Mixed gneiss, weak chlorite after biotite, patches of strong silicification.
		99.6 - 110.0	Patchy Strong Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0337

Easting	584176.79	Hole Length	110 m	Prospect	Supremo T3	Drill Started	Aug 26, 2013	Comment
Northing	6974310.71	Azimuth	270 °	Target		Drill Completed	Aug 27, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1287.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVB			
4.0 - 33.0	MxF	augn	Fol-str	Mixed gneiss, patchy white clay alteration, strong clay-chlorite alteration of biotite schist, patchy moderate silica-sericite, weak oxidation.
		4.0 - 33.0	Patchy Moderate Clay	Patchy Moderate Sericitisation Patchy Moderate Silicification
33.0 - 42.8	MxF	augn	Fol-str	Mixed gneiss with increase in clay alteration of feldspar augen, patches of strong clay alteration. .5% fracture controlled hematite, .5% disseminated limonite.
		33.0 - 42.8	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
42.8 - 44.4	YC	bx		Zone: first 20cm (42.8-43m) is intense clay alteration, clay matrix of breccia. Remainder of unit composed of polyphase silicified clast breccia, angular clasts of silicified gneiss and schist hosted in a fine, hematite-oxidized matrix, further brecciated and cemented by a chalcedonic, banded, rock-flour silica matrix. Up to 3% hematite, 1.5% limonite.
		42.8 - 44.4	Pervasive Strong Silicification	Fracture Controlled Moderate Clay
44.4 - 52.9	HU			Zone: intensely altered rock, up to 3% limonite and 3% hematite disseminated throughout. Protolith unknown, possible portion of FC. Strong sericite,silica, clay.
		44.4 - 52.9	Pervasive Strong Silicification	Pervasive Strong Sericitisation Pervasive Strong Clay
52.9 - 63.0	MxF	augn	Fol-str	Patchy strong silica-sericite alteration of gneiss.
		52.9 - 63.0	Patchy Strong Silicification	Strong Sericitisation
63.0 - 79.9	MxF	augn	Fol-str	Mixed gneiss, moderate to strong white-yellow clay replacement of feldspar augen. Up to .5% disseminated limonite.
		63.0 - 79.9	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
79.9 - 82.7	FG			Zone: strong silicification, up to 2.5% patchy hematite and 1% disseminated limonite.
		79.9 - 82.7	Pervasive Strong Silicification	Patchy Strong Sericitisation
82.7 - 86.6	MxF	augn	Fol-str	Moderate sericite, weak chlorite-clay alteration of mafics
		82.7 - 86.6	Pervasive Moderate Sericitisation	Replaces Mafics Weak Chlorite Replaces Mafics Weak Clay
86.6 - 89.5	FG			Zone: moderate pervasive clay, strong sericite. 2% disseminated limonite, patches of up to 2% disseminated hematite.
		86.6 - 89.5	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
89.5 - 95.0	FG	augn	Fol-str	White clay alteration of gneiss, moderate pervasive sericite.
		89.5 - 95.0	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
95.0 - 110.0	MxF	augn	Fol-str	Mixed gneiss, patches of strong silica-sericite, up to .5% fracture controlled limonite.
		95.0 - 110.0	Patchy Strong Silicification	Patchy Strong Sericitisation

Drill Log: CFD0338

Easting	584260.57	Hole Length	242 m	Prospect	Supremo T3	Drill Started	Aug 27, 2013	Comment	Drilled to >200m to try to install
Northing	6974627.42	Azimuth	270 °	Target		Drill Completed	Aug 29, 2013		piezometer
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Ebuitenhuis	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1258.52 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVb			
4.0 - 22.0	MxF	augn	Fol-str	Mixed gneiss, patches of moderate-strong clay replacement of feldspar augen, moderate chlorite alteration of schist. Thin aphanitic green-brown mafic dyke from 17.3-18.2m.
		4.0 - 22.0	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite
22.0 - 27.2	FC	fgrn		Zone: felsic dyke, strong pervasive clay alteration, 2% disseminated limonite, 1% fracture controlled hematite. Liseegang oxidation banding throughout, strong silicification from 26.0-26.2m.
		22.0 - 27.2	Pervasive Strong Clay	Patchy Strong Silicification
27.2 - 30.2	HU			Zone: strong pervasive clay, 3% disseminated limonite, 1% frac cont hematite. Local patches of sub-10cm YC breccia with clay-limonite matrix and small (<1cm) clasts
		27.2 - 30.2	Pervasive Strong Clay	
30.2 - 32.8	FC	fgrn		Zone: oxidized felsic dyke, thin 10cm Ylim brecciation in areas. 1.5% disseminated limonite. Moderate to strong pervasive clay alteration, hematitic oxidation infiltrating off fractures.
		30.2 - 32.8	Pervasive Strong Clay	
32.8 - 50.7	MxF	augn	Fol-mod	Oxidized mixed gneiss. Up to 1% disseminated limonite, patches of strong clay along fractures, blotchy .5% hematite bleeding into host rock off of fractures. Patchy moderate silicification.
		32.8 - 50.7	Patchy Moderate Silicification	Fracture Controlled Strong Clay
50.7 - 68.3	FG	augn	Fol-str	Weakly oxidized felsic gneiss, patchy strong white clay replacement of feldspars and up to 1% fine pink hematite in patchy disseminations.
		50.7 - 68.3	Patchy Strong Clay	Patchy Moderate Silicification
68.3 - 72.4	IV	cgrn		Dark aphanitic groundmass with coarse (up to 1cm) feldspar phenocrysts. Moderate fracture controlled clay alteration and up to .5% fracture controlled limonite.
		68.3 - 72.4	Fracture Controlled Moderate Clay	
72.4 - 78.1	FG	augn	Fol-str	Moderate white clay alteration in up to .75% fracture controlled limonite and .5% finely disseminated pink hematite.
		72.4 - 78.1	Patchy Moderate Sericitisation	Replaces Felsics Moderate Clay
78.1 - 84.3	MxM	silc	Fol-mod	Mixed gneiss, strong patchy silicification, moderate chlorite and epidote after mafics, weak leucoxene.
		78.1 - 84.3	Patchy Strong Silicification	Patchy Moderate Epidote Replaces Mafics Moderate Chlorite
84.3 - 99.2	MxF		Fol-str	Moderate white clay alteration, up to .75% fracture controlled limonite, .25% frac cont hematite, strong chlorite after biotite.
		84.3 - 99.2	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay Patchy Moderate Silicification
99.2 - 102.5	FG	silc	Fol-str	Strongly silicified felsic gneiss. Patch of 1.5% disseminated hematite from 99.2-100.7m with strong silica-sericite alteration.
		99.2 - 102.5	Patchy Strong Silicification	Patchy Strong Sericitisation
102.5 - 118.6	FG	augn	Fol-mod	Felsic gneiss, moderate yellow/white clay alteration of feldspar augen. Moderate fracture controlled clay. .75% fracture controlled limonite.
		102.5 - 118.6	Replaces Felsics Moderate Clay	Fracture Controlled Moderate Clay

118.6 - 126.4	FG	augn	Fol-str	Zone: felsic gneiss with patchy mineralization characterized by strong sericite and silicification, with thin (1m) white clay bleaching and replacement of feldspar augen. Patchy 2% disseminated hematite and .5% patches of sooty sulphide.		
		118.6 - 126.4	Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Moderate Clay	
126.4 - 138.5	MxF	silc	Fol-str	Mixed gneiss, moderate sericite alteration at beginning of unit that grades out over 1m span into moderate-strong silicification for remainder of unit. Moderate chlorite after mafics.		
		126.4 - 138.5	Patchy Moderate Sericitisation	Pervasive Strong Silicification		
138.5 - 173.6	MxF	augn	Fol-str	Mixed gneiss, moderate pervasive clay replacement of feldspar, moderate pervasive sericite.		
		138.5 - 173.6	Pervasive Moderate Sericitisation	Pervasive Moderate Clay		
173.6 - 181.5	MxF	augn	Fol-str	Mixed gneiss, moderate silicification and mod-strong clay/chlorite alteration of biotite schist causing pitting.		
		173.6 - 181.5	Pervasive Moderate Silicification	Replaces Mafics Strong Chlorite	Replaces Mafics Moderate Clay	
181.5 - 186.1	FG		Fol-str	Moderate pervasive clay replacement of feldspars, moderate sericite alteration of felsic gneiss. Up to .75% disseminated limonite.		
		181.5 - 186.1	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation		
186.1 - 188.8	FG		Fol-str	Zone: strong disseminations of hematite through gneissic foliation. Up to 3% diss hematite, with oxidation window from 186.3-186.7m revealing strongly disseminated sooty sulphide. Strong mineralization is restricted to two intervals: 186.1-186.85m, and 187.85-187.8m. Space in between is strongly sericitized but contains little sulphides/oxides.		
		186.1 - 186.9	Pervasive Strong Sericitisation	Pervasive Strong Silicification		
		186.9 - 187.9	Pervasive Moderate Sericitisation	Replaces Felsics Moderate Clay		
		187.9 - 188.8	Pervasive Strong Sericitisation	Pervasive Moderate Silicification		
188.8 - 196.0	FG		Fol-str	Weak zone through felsic gneiss. 1.5% disseminated limonite throughout, .5% blotchy hematite oxidation off of fractures. Weak to mod clay alteration along fractures in broken areas, moderate sericite throughout, moderate patchy silica.		
		188.8 - 196.0	Pervasive Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Weak Clay	
196.0 - 208.3	FG		Fol-str	Moderate pervasive sericitization of felsic gneiss, weak fracture controlled clay. Up to .75% disseminated limonite.		
		196.0 - 208.3	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay		
208.3 - 209.4	Ylim	bxi		Thin Ylim breccia. Clast supported, weakly developed. Moderate clay alteration, 2cm thick dismembered quartz veins. 2% limonite.		
		208.3 - 209.4	Fracture Controlled Moderate Clay			
209.4 - 220.0	FG	augn	Fol-str	Oxidized felsic gneiss. Patches of white clay replacement of feldspar, .5% disseminated limonite, moderate pervasive sericite. Thin FC dyke from 218.36-218.64m.		
		209.4 - 220.0	Patchy Moderate Clay	Pervasive Moderate Sericitisation		
220.0 - 221.3	FG	silc	Fol-str	Intensely silicified felsic gneiss, cut by late Fe-carb veinlets. Thin qtz ribbons barely visible due to silicification.		
		220.0 - 221.3	Pervasive Intense Silicification			
221.3 - 224.9	MxF		Fol-str	Mixed gneiss, 1% disseminated limonite, strong pervasive sericite.		
		221.3 - 224.9	Pervasive Strong Sericitisation	Weak Clay		
224.9 - 228.6	FG		Fol-str	Zone: felsic gneiss with 1.5% disseminated hematite from 224.85-226.4m. 1.5% disseminated limonite over entire interval. Thin Ylim breccia from 226.4-226.65m, matrix-supported, strong clay. End of unit transitions gradationally with lowering of oxides to .5% limonite.		
		224.9 - 228.6	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation		
228.6 - 232.8	MxF		Fol-mod	Felsic gneiss, moderate silicification and white clay replacement of feldspars, moderate chlorite after mafics. Thin fine grained IV from 230.03-230.46.		
		228.6 - 232.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay		
232.8 - 236.3	FG		Fol-wk	Thin zone: 1% disseminated limonite through felsic gneiss, weak clay alteration of feldspars. .25% fracture controlled hematite.		
		232.8 - 236.3	Fracture Controlled Strong Clay	Replaces Felsics Moderate Clay		
236.3 - 242.0	MxF	augn	Fol-str	Mixed gneiss, strong patchy silicification, moderate chlorite after mafics. Thin aphanitic IV from 237.79-237.86m.		
		236.4 - 242.0	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite		

Drill Log: CFD0339

Easting	584331.12	Hole Length	132 m	Prospect	Supremo T3	Drill Started	Aug 29, 2013	Comment
Northing	6974724.9	Azimuth	270 °	Target	T3	Drill Completed	Sep 01, 2013	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1244.65 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 7.0	FG		Fol-str	Felsic gneiss, 1.5% disseminated limonite, moderate pervasive clay alteration.
		6.0 - 7.0	Pervasive Moderate Sericitisation	Pervasive Moderate Clay
7.0 - 8.5	Ylim	bx		Limonite-clay matrix breccia, clast supported, moderate to strong clay. Heavily fractured. Thin FC from 7.45-7.60m. Moderate silicification at beginning of unit. 2.5% disseminated limonite.
		7.0 - 8.5	Replaces Matrix Strong Clay	Replaces Clasts Moderate Sericitisation Patchy Moderate Silicification
8.5 - 15.1	FC	fgrn		Felsic dyke, local clay-matrix Ylim brecciation from 9.3-10m, up to 1.5% disseminated limonite and moderate pervasive clay alteration of dyke.
		8.5 - 19.1	Pervasive Moderate Clay	
15.1 - 17.4	IV	fgrn		Aphanitic green maficdyke. .75% fracture controlled limonite, moderate pervasive clay alteration.
17.4 - 19.1	FC	fgrn		2% disseminated limonite and moderate pervasive clay alteration of felsic dyke. Moderately fractured, .25% hematite oxidation along fractures.
19.1 - 23.6	FG	augn	Fol-str	Felsic gneiss, shoulder to zone. Moderate white clay replacement of feldspars, and weak silicification throughout. .5% disseminated limonite.
		19.1 - 23.6	Replaces Felsics Moderate Clay	Pervasive Weak Silicification
23.6 - 48.6	FG	augn	Fol-str	Felsic gneiss, weak fracture controlled clay, up to .75% fracture controlled limonite, patchy oxidation and bleaching.
		23.6 - 48.6	Fracture Controlled Moderate Clay	Patchy Moderate Silicification
48.6 - 50.7	FG			Thin zone: 2% disseminated limonite with moderate sericitization. Strong patch of clay alteration from 48.2-48.6, obscuring original foliation. Resembles thin FC dyke (?).
		48.6 - 50.7	Patchy Strong Clay	Pervasive Moderate Sericitisation
50.7 - 54.4	FG	augn	Fol-str	Felsic gneiss, moderate silicification with patchy white clay alteration and moderate pervasive sericite. .5% fracture controlled limonite.
		50.7 - 54.4	Pervasive Moderate Sericitisation	Patchy Moderate Clay Patchy Moderate Silicification
54.4 - 62.6	FG	augn	Fol-mod	Moderate zone; felsic gneiss with strong clay along some fractures, up to 2% disseminated limonite. Patches of strong silicification with many fine fractures infilled with limonite.
		54.4 - 62.6	Patchy Strong Silicification	Pervasive Moderate Sericitisation Fracture Controlled Strong Clay
62.6 - 64.1	FG		Fol-mod	Thin zone: 2.5% limonite and .5% disseminated hematite through felsic gneiss. Moderate pervasive clay, sericite alteration.
		62.6 - 64.1	Pervasive Moderate Sericitisation	Pervasive Moderate Clay
64.1 - 81.0	FG	augn	Fol-mod	Oxidized felsic gneiss, 1% disseminated limonite. Patches of moderate sericite and silicification, moderate fracture controlled clay throughout. <1m patches of up to 1.5% disseminated limonite.
		64.1 - 80.9	Patchy Moderate Sericitisation	Patchy Moderate Silicification Fracture Controlled Moderate Clay
		80.9 - 83.4	Pervasive Strong Clay	Patchy Moderate Silicification Patchy Moderate Sericitisation
81.0 - 83.4	FC	fgrn		Start of T3 zone: thin branch of FC dyke from 80.85-81.02m, followed by silicified and sericitized felsic gneiss from 81.02-81.75m, then dyke until unit termination. Strong pervasive clay alteration of dyke, 2.5% disseminated limonite throughout.
83.4 - 83.9	Ylim	bx		Clast supported Ylim breccia with clay-limonite fine matrix. Monomictic clasts of sericitized and silicified felsic gneiss. 2.5% limonite.
		83.4 - 83.9	Replaces Matrix Strong Clay	Replaces Clasts Moderate Sericitisation Replaces Clasts Moderate Silicification

83.9 - 89.3	FC	fgrn	Zone: moderate to strong pervasive clay alteration of fine grained felsic dyke. Heavily fractured, moderate clay along fractures.		
		83.9 - 89.3	Pervasive Strong Clay	Fracture Controlled Moderate Clay	
89.3 - 95.6	FG	augn	Fol-str	Oxidized felsic gneiss. Strong silicification throughout, strong sericite. Fractured, with moderate clay alteration along fracture planes, locally reaching crackle-breccia textures. 2% disseminated limonite. Unit finishes after ~30cm felsic dyke.	
		89.3 - 95.6	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
95.6 - 98.4	FG	augn	Fol-str	Strong zone, 2.5% limonite + 1% patches of disseminated hematite through felsic gneiss. Ylim breccia from 97.4-97.8m with limonite-clay matrix, clast supported. Patches of strong clay alteration.	
		95.6 - 98.4	Patchy Strong Clay	Patchy Strong Silicification	Fracture Controlled Moderate Clay
98.4 - 110.0	FG	augn	Fol-str	Oxidized felsic gneiss. Up to 1% limonite with patches of .5% additional disseminated hematite. Some rubbly/fractured areas with moderate clay. Weak to moderate sericite throughout.	
		98.4 - 110.0	Fracture Controlled Moderate Clay	Patchy Moderate Sericitisation	Patchy Moderate Silicification
110.0 - 132.0	MxF	augn	Fol-str	Mixed gneiss, moderate silicification, weak chlorite after mafics. Trace fracture controlled limonite.	
		110.0 - 132.0	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	

Drill Log: CFD0340

Easting	583003.51	Hole Length	212 m	Prospect	Latte	Drill Started	Sep 11, 2013	Comment
Northing	6973157.36	Azimuth	0 °	Target	Latte infill	Drill Completed	Sep 13, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	Jscott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1111.08 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 18.7	BtS_carb		Fol-mod	Biotite schist with massive carbonate bands (~15% carbonate bands, up to 1m wide). Alteration consists of weak ser-carb. Local broken (fractured) zones with local rubble over ~20cm. 0.1% foliation-controlled lim, along with fracture controlled lim.
		6.0 - 18.7	Pervasive Weak Sericitisation	Pervasive Weak Fe-carb
18.7 - 22.9	BtS_carb		Fol-mod	Biotite schist with massive carbonate bands (~35% carb bands, up to 1m wide). Alteration is moderate ser-carb. 0.25% lim.
		18.7 - 22.9	Pervasive Moderate Sericitisation	Pervasive Weak Fe-carb
22.9 - 25.2	HU			Highly clay altered and friable, likely after biotite schist. Some relic foliation is locally visible. Strong to intense clay over ser alteration. 1% lim, 0.5% hm throughout.
		22.9 - 25.2	Fracture Controlled Strong Clay	Pervasive Weak Sericitisation
25.2 - 32.7	BtS_carb		Fol-mod	Biotite schist with rare massive carbonate bands (<5%, up to 15cm wide). Alteration is weak ser-carb. 0.1% dis and fc lim. Lower contact is gradational over ~20cm.
		25.2 - 32.7	Pervasive Weak Sericitisation	Pervasive Weak Fe-carb
32.7 - 76.6	MsS		Fol-mod	Feldspar-muscovite schist, likely retrograde metamorphic after BtS due to similar textures. Weak to moderate pervasive ser-carb alteration throughout. Local carbonate veining develops rare breccias exhibiting expansion-type space filling textures. 0.25%lim as disseminations throughout.
		32.7 - 76.6	Pervasive Moderate Sericitisation	Pervasive Weak Fe-carb
76.6 - 79.1	YO	Clast		Clast-supported breccia. Clasts are heterolithic and generally rounded to subrounded. Clast sizes range from <1mm to ~10cm. Clasts are RQM, MSS, and MV. No re-brecciated clasts observed. Matrix is aphanitic and carbonate-dominated (non-calcitic). Alteration throughout is moderate sil, weak ser-carb. 0.25%lim.
		76.6 - 79.1	Replaces Clasts Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Fe-carb
79.1 - 87.2	MsS		Fol-mod	Feldspar-muscovite schist. Weak to moderate pervasive ser-carb alteration throughout. 0.25%lim as disseminations throughout. 0.1% fc hm. Lower contact is sharp breccia wall.
		79.1 - 87.2	Pervasive Moderate Sericitisation	Pervasive Weak Fe-carb
87.2 - 88.3	YO	bxv		Mature breccia with heterolithic small (<1cm) clasts. Clasts are well rounded, with fewer subrounded clasts. Weak silica alteration of both clasts and matrix. Weak ser alteration of matrix. Carbonate alteration weak throughout. 0.5% lim as disseminations (/pervasive). Local discrete sulphide windows, up to 5cm. Sulphide accounts for ~4% of overall rock, with 0.25% sooty sulphide within the windows, for less than 0.1% sooties overall. Lower contact is a gradual transition into intense clay altered HU over ~30cm.
		87.2 - 88.3	Pervasive Moderate Silicification	Replaces Matrix Moderate Sericitisation Pervasive Weak Fe-carb
88.3 - 90.4	HU			Intense clay alteration obscures protolith. Local faint bx textures visible. Top of unit is only limonite, with both hm and sooty sulphide increasing downhole. Over entire unit, lim 1.5%, hm 1.5%, and sooty 1.5%. Lower contact is gradual waning of clay alteration over 50cm.
		88.3 - 90.4	Pervasive Intense Clay	
90.4 - 95.4	YC	bxl		Silicified clast breccia. Silica flooding is intense and pervasive, altering both clasts and matrix. Breccia is dominantly closely-packed (clast supported), and immature with angular to subangular clasts which do not exhibit a jigsaw fit. Some evidence of earlier sericite alteration (due to tan colour), with some later Fe-carbonate alteration associated with fracture-controlled lim-hm (0.25% and 0.1% each). Common very fine-grained sooty sulphides account for 0.75% overall, but are locally up to 5% over 15cm. Rare pyrite euhdra, partially altered to hematite (<0.1%). Local carbonate-quartz (locally chalcedonic) expansion-joint filling and brecciation (<2% overall). Lower contact is disaggregated wallrock (ripped) over ~10cm.
		90.4 - 95.4	Pervasive Intense Silicification	Patchy Weak Sericitisation Fracture Controlled Weak Fe-carb

95.4 - 96.9	BtS	Fol-mod	Muscovite-feldspar schist, likely after biotite schist. Much of the phyllosilicates have been partially pseudomorphed by fine-grained sooty sulphides. Alteration is weak to moderate sericite-silica with local fracture-controlled Fe-carb. 1% sooty sulphide, 0.1% lim, 0.1% hm (lim hm fc). Local expansion-filling carb-qtz.	
95.4 - 96.9		Pervasive Weak Silicification	Pervasive Weak Sericitisation	Fracture Controlled Weak Fe-carb
96.9 - 109.4	HU		Strong clay alteration overprinting strong ser-sil alteration washing out primary textures. Locally friable and highly broken due to high clay content. Moderate Fe-carb alteration. Local very faint breccia textures and local indication of massive unfoliated areas, possibly indicating the obscured intrusion of a dacite dyke within this area, with the massive dyke brecciating the wallrock. However, due to intense alteration overprinting, this observation has low certainty associated. 1.5% lim, 0.75% hm both as "disseminations" (pervasive) throughout.	
96.9 - 109.4		Pervasive Strong Clay	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
109.4 - 118.0	BtS	Fol-mod	Biotite schist. Moderate sericite alteration. Weak silica alteration. 2% sooty sulphides replacing biotite together with sericite. 0.5% lim, 0.25% hm, both fracture controlled.	
109.4 - 118.0		Patchy Moderate Sericitisation	Pervasive Weak Silicification	
118.0 - 124.3	HU	Fol-wk	Non-ore-zone HU. Protolith unrecognizable, probably BtS/MsS. Intense silica flooding overprints earlier moderate to strong sericite alteration (pervasive). Locally brecciated with clay matrix (120.3 to 122.8m). 0.1% lim, 0.1% hm, both fracture-controlled.	
118.0 - 124.3		Pervasive Intense Silicification	Pervasive Moderate Sericitisation	
124.3 - 126.6	BtS	Fol-str	Highly deformed biotite schist. Foliation fabric becomes irregular and strongly variable. Lower contact is brecciated by the intruding diorite over ~1m. Moderate ser alteration with weak Fe-carb. 0.25% lim, 0.1% hm, fracture controlled.	
124.3 - 126.6		Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb	
126.6 - 128.6	DIOR	phyr	Medium-grained feldspar porphyritic dioritic dyke. Weak ser altn. 0.1%lim, dis.	
126.6 - 128.6		Pervasive Moderate Sericitisation		
128.6 - 130.5	DIOR	phyr	Diorite dyke, as above. Strong ser altn, moderate sil, both pervasive. 0.5% lim, 0.5% hm, as disseminations locally (patchy). Lower contact is sharp intrusive at 30 TCA.	
128.6 - 130.5		Pervasive Strong Sericitisation	Pervasive Moderate Silicification	
130.5 - 134.7	HU	Fol-wk	Non-ore-zone HU. Protolith is faintly visible locally, and appears to be variable BtS and diorite, with zones locally visible exhibiting foliation, and others with porphyritic textures. The zone appears to be a fluid-flooded brecciated contact zone between the diorite and the biotite schist. Alteration consists of strong sericite overprinted by intense silica flooding. 0.1% sooty sulphides as disseminations with 0.1% lim.	
130.5 - 134.7		Pervasive Intense Silicification	Pervasive Strong Sericitisation	
134.7 - 170.5	MsS	Fol-str	Muscovite-sericite schist, likely retrograde met. after BtS. Local qtz ribbon development (RQM). Alteration is moderate to weak sericite with moderate fracture-controlled Fe-carb. 0.25% lim and 0.1% hm overall, patchy (diss.) and fracture controlled. Increase in lim-hm from 155 to 156.4m. 0.1% sooties as disseminations.	
134.7 - 170.5		Pervasive Moderate Sericitisation	Patchy Weak Fe-carb	
170.5 - 172.6	HU	mass	Highly altered by clay over sericite +/- Fe-carb. Faint foliation fabric locally observed through alteration, indicating likely BtS protolith. 0.75% lim, 0.25% hm, FC.	
170.5 - 172.6		Fracture Controlled Intense Clay	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb
172.6 - 179.0	YC	Poly	Heterolithic silicified clast breccia. Breccia is clast supported with aphanitic silica matrix. Clasts are subangular to subrounded, and between<1mm and 15cm in size, withthe dominant size being in the range of 0.2-1.0cm. Alteration throughout is moderate to strong sericite (clast-dominated) with intense silica flooding overprint. 1.5% sooty sulphide disseminations overall (locally up to 5% over 1m, and down to 0.25% over 1m). 0.25% lim and 0.1% hm, fc.	
172.6 - 179.0		Pervasive Intense Silicification	Replaces Clasts Strong Sericitisation	Fracture Controlled Weak Fe-carb
179.0 - 183.3	BtS	Fol-mod	Biotite Schist. Weak to moderate sil-ser alteration. 0.75% disseminated sooty sulphides. 0.1% lim and 0.1% hm, FC.	
179.0 - 183.3		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
183.3 - 186.2	BtS	Fol-mod	Strongly broken biotite schist with moderate clay alteration. 0.1% lim, FC.	
183.3 - 186.2		Fracture Controlled Moderate Clay	Patchy Weak Sericitisation	
186.2 - 212.0	BtS	Fol-mod	Biotite schist. Fresh, mostly unaltered. Local weak very patchy sericite. Local minor fracture-controlled lim-hm (<0.1%). END OF HOLE.	
186.2 - 212.0		Patchy Weak Sericitisation		

Drill Log: CFD0341

Easting	582976.09	Hole Length	248.42 m	Prospect	Latte	Drill Started	Sep 13, 2013	Comment
Northing	6973132.95	Azimuth	0 °	Target	Latte Infill	Drill Completed	Sep 15, 2013	
Projection	UTM7-NAD83	Dip	-65.5 °	Geologist	JScott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1114.73 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 62.3	BtS_carb		Fol-mod	Biotite schist with common formational carbonate bands up to 1.2m wide (massive to weakly foliated with local crackle breccia textures). Alteration is variable up to weak sericite with fracture-controlled weak Fe-carbonate alteration. 0.1% lim overall, generally fracture controlled (up to 0.25% over 1.5m) with 0.1% fracture-controlled hm. Broken zones from 24.6 to 24.8m and 26.0 to 29.1m. Veins consist of 1% carb-qtz veins locally wispy and at dominantly low to moderate angles TCA.
		6.0 - 62.3	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Fe-carb
62.3 - 62.8	YO			Heterolithic clast-supported moderately mature breccia. Clasts are subrounded to subangular and between 1.5cm and 1mm in size. Matrix is aphanitic, possibly clay with silica. Alteration is strong silica over clay. 1% lim and 1% hm as disseminations (patchy).
		62.3 - 62.8	Pervasive Strong Silicification	Replaces Matrix Moderate Clay
62.8 - 78.9	BtS_carb		Fol-mod	Biotite schist, as above.
		62.8 - 78.9	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Fe-carb
78.9 - 81.1	BtS_carb		Fol-mod	Biotite schist with carbonate bands, as above, but with increased alteration intensity. Moderate sericite (pervasive) and weak Fe-carbonate (fracture controlled) 0.25% lim as disseminations and 0.1% hm (fc). Lower contact is sharp intrusive contact with brecciated wallrock extending into diorite over ~5cm (@20TCA).
		78.9 - 81.1	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb
81.1 - 83.9	DIOR	phyr		Feldspar porphyritic diorite dyke (andesitic?). Feldspar-qtz phenocrysts (cg and mg, respectively) with an aphanitic mafic groundmass. Likely subvolcanic feeder. No fabric. Alteration comprises weak sericite alteration of clasts and weak fracture-controlled Fe-carb (ankerite) alteration. Hematite staining of feldspars (also fc) for 0.1% with fracture-controlled lim (0.1%). Lower contact is sharp intrusive at ~75TCA.
		81.1 - 83.9	Replaces Clasts Weak Sericitisation	Fracture Controlled Weak Fe-carb
83.9 - 90.0	BtS		Fol-mod	Biotite schist, as above, but with no carbonate bands. Weak frac-controlled ser-Fe-carb. 0.1% lim and 0.1% hm (fc). Lower contact sharp breccia wall at 50TCA.
		83.9 - 90.0	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Fe-carb
90.0 - 90.5	YO	bxi	Fol-str	Brecciated and/or strongly sheared biotite schist with evidence for fluid-flow related to shearing (low temperature phyllosilicates along flow/shear fabrics). Alteration is moderate clay-(-/+ sil). 1% lim and 1.5% hm along fabric.
		90.0 - 90.5	Pervasive Moderate Clay	Pervasive Weak Silicification Patchy Weak Fe-carb
90.5 - 95.4	BtS		Fol-mod	Biotite schist, as above. Lower contact is gradational increase in intensity of alteration over 5cm.
		90.5 - 95.4	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Fe-carb
95.4 - 105.9	MsS		Fol-mod	Biotite schist as above, but with all biotite replaced by muscovite/sericite (MsS?). Unclear if replacement is hydrothermal or regional shear retrogression. Moderate sericite alteration with weak fracture-controlled Fe-carb. 0.1% lim (diss).
		95.4 - 109.0	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb

105.9 - 109.0	YO	bx	Fol-str	Intrusive breccia. Equigranular Diorite (dacite?) appears to intrude and disaggregate the MsS, with very irregular but sharp contacts. Some of the MsS in this zone exhibits very tight shear fabrics (locally mylonitic), indicating a strong strain zone both before and after dyke intrusion and brecciation (multiple phases of shearing). Shear zones are defined by bands of fine-grained phyllosilicates creating ghost-like ribbons at moderate angles TCA (~40TCA), whereas dyke intrusion is at a generally higher angle TCA (dominantly ~55TCA). Alteration is moderate sericite, frac-controlled fe-carb, as above. No evidence of hornfelsing, indicating low thermal gradient between units. Lower contact is gradational where diorite intrusion breccia gives way to more traditional mature "YO" breccia.		
109.0 - 119.0	YC	bx		Breccia zone with channels of mature heterolithic fine-grained clast-supported breccia with subrounded clasts, interspersed by areas of more intact muscovite-sericite schist (possibly/likely breccia fragments) up to 40 cm in width. The larger clasts include massive quartz (rare) up to 12cm wide, and common larger schist fragments. Larger fragments are angular to subangular. Size distribution is bimodal between the smaller (<1cm) and larger (>5cm) clasts. Matrix is aphanitic and strongly clay altered. Fragments are weakly silica altered. Fe-carbonate alteration is weak throughout. 1% limonite throughout, with only local hm up to 2% over 10cm (0.1% overall). 15cm bull qtz vein at 118.4m.		
		109.0 - 119.0	Replaces Matrix Strong Clay	Replaces Clasts Weak Silicification	Pervasive Weak Fe-carb	
119.0 - 123.3	BtS		Fol-mod	Biotite-muscovite-feldspar schist. Foliation is highly variable, but no folds are observed. Alteration is moderate sericite with weak fracture controlled fe-carb. 0.25% lim, 0.1%hm, fc.		
		119.0 - 123.3	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb		
123.3 - 128.9	YO	bx		YO breccia, as described above. Clay alteration of matrix is intense, with some clasts becoming broken apart by clay. 0.25% lim throughout.		
		123.3 - 128.9	Replaces Matrix Intense Clay	Replaces Clasts Weak Silicification	Fracture Controlled Weak Fe-carb	
128.9 - 132.8	YO	bx		YO breccia, similar to above. Breccia is completely sulphide facies and locally intensely broken. Clay alteration is even more intense, obscuring some of the primary textures. 0.25% sooty sulphides throughout, dominantly within the matrix.		
		128.9 - 133.8	Replaces Mafics Intense Clay	Replaces Clasts Weak Silicification		
132.8 - 133.8	PyF	bx		"PYF" unit. Continuation of YO from uphole, but with intense sooty sulphide mineralization forming blebs and bands, locally forming the matrix to breccias where they disaggregate the wall-rock. Intense clay alteration persists. 10% sooty sulphides over 1m. Sulphides are too fine grained to determine species.		
133.8 - 143.2	BtS_carb		Fol-mod	Biotite schist with carbonate bands up to 20cm wide. Alteration accross the unit is highly variable. From the upper contact to 136.6m alteration is dominated by moderate sericite with weak silica. From 136.6m to the end of the unit, epidote-sericite are common, generally as wispy bands together with carbonate (dolomite?). 0.1% disseminated brassy pyrite.		
		133.8 - 136.6	Patchy Moderate Sericitisation	Patchy Weak Silicification		
		136.6 - 143.2	Patchy Weak Sericitisation	Patchy Weak Epidote		
143.2 - 143.8	PyF	bx		"PYF" unit. Semi-massive black sooty sulphide with clay alteration (moderate) and silica (moderate). Local brecciation of silicified clasts by aphanitic clay matrix. 12% sulphide with 0.5% disseminated brassy pyrite. Upper and lower contacts are sharp fault contacts, cross-cutting foliation at roughly 55TCA.		
		143.2 - 143.8	Pervasive Moderate Clay	Replaces Clasts Moderate Silicification		
143.8 - 151.7	BtS		Fol-mod	Biotite-muscovite-feldspar schist. Moderate patchy sericite alteration. Local patchy silica. Local chlorite alteration (in veins and vein halos). Local patchy epidote (weak). 0.25% disseminated brassy pyrite (locally up to 2%, typically with epidote). 0.1% fracture-controlled lim.		
		143.8 - 151.7	Patchy Moderate Sericitisation	Patchy Weak Silicification	Patchy Weak Epidote	
151.7 - 159.2	HU		Fol-mod	A very complicated zone which does not really fit into our existing classification scheme. In oxidized rock, this unit would be weathered and broken apart with abundant limonite and hematite staining throughout with incipient fe-carb. However, without those features overprinting a lot more complexity is apparent. It is for this reason the unit is attributed an "HU" classification despite many other features being visible. The main host rock is an intensely silica altered biotite schist in which all mafic minerals have been replaced by sooty sulphides (and rarely brassy pyrite). Local patchy underlying sericite alteration imparts a tan-grey colour with a hint of green. Quartz veining is also important in this unit, carrying in semi-massive sulphide comprised of coarse-grained stibnite and arsenopyrite. These veins are oriented very shallowly to the core axis at ~20TCA. The main mineralized veins are at: 153.14 to 153.34m (15% stibnite, 8% aspy, 1% orpiment) and at 157.67 to 157.86m (8% stibnite, 4% aspy, 1% realgar). One nearby qtz vein could be measured (not strongly mineralized, but does host some sooty sulphide), adjacent the main veins. This vein indicated a dip-direction/dip of 130/85 (a strike direction of 40deg). Total sulphide over the whole unit, 1% stibnite, 0.5% aspy, 2.5% sooty sulphides, 0.1% orpiment, 0.1% realgar, and 0.1% lim.		
		151.7 - 159.2	Pervasive Intense Silicification	Patchy Moderate Sericitisation		
159.2 - 162.5	MsS		Fol-mod	Muscovite-qtz schist. Strongly silicified throughout. 0.1% lim, 0.25% sooty sulphides, both as disseminations.		
		159.2 - 162.5	Pervasive Strong Silicification			

162.5 - 163.1	PyF	bx	"PYF" unit. Sulphide-facies silica-clay zone with weak brecciation/disagregation. 2.5% sooty sulphide.		
162.5 - 163.1			Pervasive Intense Silicification	Pervasive Intense Clay	
163.1 - 183.4	HU	bx	Highly altered and oxidized unit. Brecciation is common, usually only partly annealed. Clay is abundant and intense, with local areas of intense silica flooding, becoming chalcedonic. Carbonate veining is common with associated fe-carb alteration (up to 2% calcite veins). Breccia clasts are subrounded and generally closely packed (clast supported). 3% lim and 2% hm throughout.		
163.1 - 183.4			Patchy Intense Clay	Patchy Intense Sericitisation	Patchy Moderate Sericitisation
183.4 - 190.1	BtS		Fol-mod	Biotite schist, moderate patchy alteration by sericite with local silica.	
183.4 - 210.6			Patchy Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Weak Clay
190.1 - 199.5	BtS		Fol-mod	Biotite schist, as above. With 1% sooty sulphides, 0.5% lim and 0.75% hm.	
199.5 - 210.6	BtS		Fol-mod	Biotite schist as above. 0.1% hm and lim.	
210.6 - 213.7	BtS		Fol-mod	Biotite schist. Moderate ser altn. 0.25% sooties, 0.75% lim, 0.75% hm (patchy/diss).	
210.6 - 213.7			Patchy Moderate Sericitisation		
213.7 - 222.0	BtS		Fol-mod	Biotite schist. Moderate and patchy ser-sil with patchy local clay. Strongly broken from 218.5 to 222m. 0.1% sooty sulphide, 0.25% lim, 0.25% hm (fracture controlled).	
213.7 - 222.0			Patchy Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Moderate Clay
222.0 - 226.6	YO	bx	Complicated breccia zone. Upper portion to 223.4m is traditional "YO" type mature clay-rich clast-supported breccia with limonite. From 223.4 to end of unit is very much an unoxidized "HU" and is moderately to strongly brecciated. Silica flooding in this part of the unit is intense and pervasive, locally with the appereance being that of either carbonate bands or massive quartz veins disaggregated and replaced byamorphous silica. Local clay alteration along fractures. Rare foliation observed in highly altereddclasts. Local chlorite grains within silica flooding zones. Sooty sulphide ~0.5% overall, but is strongly locally distributed and is up to 2.5% over 15cm locally. 0.25% lim.		
222.0 - 223.4			Fracture Controlled Intense Clay	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
223.4 - 226.6			Pervasive Intense Silicification	Patchy Weak Sericitisation	Fracture Controlled Weak Clay
226.6 - 229.3	YC	bx	Weakly brecciated biotite schist with strong to moderate silicification of clasts and with a dominantly chalcedonic matrix. Breccias occur locally and account for ~ 40% of the interval. Alteration is moderate sericite throughout with patchy silica and fracture-controlled fe-carb. Common carbonate (calcite) veings locally brecciate as well, and are late and barren.		
226.6 - 229.3			Pervasive Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Moderate Fe-carb
229.3 - 248.4	BtS		Fol-mod	Biotite schist. Variable alteration. Moderate sericite, local patchy but strong silica, weak fracture-controlled Fe-carb. 0.1%lim, 0.1% disseminated py. EOH.	
229.3 - 248.4			Patchy Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Weak Fe-carb

Drill Log: CFD0342

Easting	582928.85	Hole Length	242 m	Prospect	Latte	Drill Started	Sep 15, 2013	Comment
Northing	6973169.11	Azimuth	357.7 °	Target	Latte Infill	Drill Completed	Sep 17, 2013	
Projection	UTM7-NAD83	Dip	-65.4 °	Geologist	JScott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1106.73 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.8	OVb			
5.8 - 46.5	BtS_carb		Fol-mod	Biotite schist with common massive carbonate bands up to 1.2m in length. Alteration is variable with patchy weak sericite with local fracture-controlled fe-carb. Local sericite to moderate. Local fracture controlled clay (very local, strong when occurs). Lim 0.1% overall, locally up to 0.75%. Hm 0.1% overall, locally up to 0.75%. Interesting shear zone/breccia (unmineralized) from 21.88 to 22.19m. Strong fabric with local well-rounded clasts and low-temperature alteration minerals (Fe-carb, wispy sericite/illite). Hm seam with clay from 10.25 to 10.50, may carry weak minz. Zone of increased hm dissemination (0.75% hm) from 19.61 to 26.9m. Lower contact is sharp intrusive at 40TCA.
		5.8 - 46.5	Patchy Weak Sericitisation	Fracture Controlled Weak Fe-carb
46.5 - 50.8	DIOR	phyr		Feldspar porphyritic mafic to intermediate dyke (andesitic). "Diorite" as per logging terminology. Moderate sericite alteration of feldspars with weak alteration of groundmass. Weak hematite staining of feldspars, 0.25% hematite overall including as disseminations in groundmass. Lower contact is sharp intrusive, disaggregating wallrock over ~5cm at 30TCA.
		46.5 - 50.8	Pervasive Weak Sericitisation	Fracture Controlled Weak Fe-carb
50.8 - 54.3	YO	bx	Fol-mod	Brecciated sericite altered biotite schist (muscovite schist). Dominant lithology is biotite schist, strongly to moderately altered by sericite which has been disaggregated by aphanitic-matrix typical "YO" breccia with rounded to subrounded clasts. Common carbonate (fe-carb and calcite) alteration of bx matrix and along fractures. 0.25% lim, 0.1% hm.
		50.8 - 54.3	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
54.3 - 90.0	BtS		Fol-mod	Biotite Schist. Variable alteration. Patchy sericite, fracture-controlled fe-carb. 0.1% lim and hm throughout, patchy (fc). Mylonite seam from 61.28 to 61.55m with strongly developed mylonitic fabric. Massive qtz vein from 63.55 to 63.75m (bull qtz).
		54.3 - 90.0	Patchy Moderate Sericitisation	Fracture Controlled Weak Fe-carb
90.0 - 102.7	YO	bx		Brecciated highly altered muscovite-feldspar schist (after biotite schist). Breccia comprises roughly 70% of interval. Breccia is mature, clast-supported, with subrounded clasts generally below 1cm. Alteration is moderate pervasive sericite with strong to intense patchy clay. Moderate fracture-controlled Fe-carb. 0.75% and 0.1% hm (local up to 0.75%) and 0.1% sooties (locally restricted in windows of up to 4% over 10cm).
		90.0 - 102.7	Pervasive Moderate Sericitisation	Patchy Intense Clay Fracture Controlled Moderate Fe-carb
102.7 - 104.4	PyF		Fol-mod	Sooty-sulphide dominated foliated unit (BtS). Alteration is intense silica and moderate clay. 2.5% sooty sulphide with 0.25% fracture-controlled hm.
		102.7 - 104.4	Pervasive Intense Silicification	Pervasive Moderate Clay
104.4 - 116.6	BtS		Fol-mod	Biotite schist. Alternating zones of sericite alteration with weak lim-hm and areas of strong silicification with up to 2% sooty sulphides. Changes are generally very sudden and sometimes occur across joints or annealed fractures. In other places, it looks like the sulphide-silica is exploiting and propagating along foliation. 0.5% sooties overall, 0.1% brassy py, 0.25% lim and 0.25% hm.
		104.4 - 116.6	Patchy Intense Sericitisation	Patchy Intense Silicification
116.6 - 120.7	HU			Pervasively intensely silica altered with underlying moderate to strong patchy sericite alteration obscuring all primary textures. 0.5%lim, 0.25%hm, 0.1% sooties.
		116.6 - 120.7	Pervasive Intense Silicification	Pervasive Intense Sericitisation

120.7 - 121.7	YO			Clay-limonite-sooty-sulphide matrix breccia with fine-grained rounded heterolithic clasts. Appearance is that of partially annealed fault gouge. Sulphide window for 15cm from 121m. 1.5% lim, 0.5% hm, 0.25% sooty.	
120.7 - 121.7			Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification	
121.7 - 137.7	HU			Intensely silica altered with loca fracture-controlled clay, both probably over sericite. Primary textures obliterated. Strongly broken throughout. 1.5% lim, 0.5% hm, 0.1% sooties.	
121.7 - 137.7			Pervasive Intense Silicification	Pervasive Strong Sericitisation	Fracture Controlled Strong Clay
137.7 - 138.3	YO	bx		Fault gouge breccia with clay matrix and HU clasts. Partly annealed. 0.1% lim.	
137.7 - 138.3			Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification	
138.3 - 147.1	HU			HU, as above. No clay.	
138.3 - 147.1			Pervasive Intense Silicification	Pervasive Strong Sericitisation	
147.1 - 150.5	YO			Fault gouge breccia with clay matrix and strongly silicified heterolithic clast matrix. Clasts are subrounded to subangular and between 1mm and 1.5cm in diameter. Matrix supported. 1%lim, 0.25% hm.	
147.1 - 150.5			Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification	
150.5 - 158.0	BtS		Fol-mod	Biotite schist. Strong patchy silica over moderate to strong sericite with fracture-controlled Fe-carb. 0.5% lim, 0.25% hm. 0.1% sooties.	
150.5 - 158.0			Patchy Strong Silicification	Patchy Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
158.0 - 161.8	HU			Silica flooded unit with primary textures obscured. Strongly broken with abundant clay from 158.3 to 159.1m. Fracture-controlled Fe-carb. 0.25%lim.	
158.0 - 161.8			Pervasive Strong Silicification	Fracture Controlled Strong Clay	Fracture Controlled Moderate Fe-carb
161.8 - 162.7	YC	bx		Silicified clast breccia. Clasts are angular to subangular and closely packed. Clasts and matrix are intensely silica flooded with light green sericite? alteration unerlying. 0.1% sooties.	
161.8 - 162.7			Pervasive Intense Silicification	Patchy Strong Sericitisation	
162.7 - 168.7	HU			Intensely silica flooded unit. Some faint evidence of both massive and foliated units, possibly a dacite intruding biotite schist, however alteration obscures determination of any meaningful relationship. Local patchy earlier sericite alteration. Local carbonate veins with Fe-carb halos. 0.75% disseminated sooties, 0.25% fc lim and 0.25% fc hm. Lower contact is sharp breccia wall at 65TCA.	
162.7 - 168.7			Pervasive Intense Silicification	Patchy Strong Sericitisation	Fracture Controlled Moderate Fe-carb
168.7 - 169.9	YC	bx		Silicified clast breccia, dominantly with silicic matrix. Clasts are heterolithic and subangular. Clast supported. Fault gouge breccia (partly annealed with clay) from 169.57 to end of unit. 0.5%lim, 0.1% hm, 0.1% sooties (as one discrete 8cm zone at top of unit, where 4% sulphides over 8cm).	
168.7 - 169.9			Pervasive Intense Silicification	Fracture Controlled Strong Clay	
169.9 - 171.5	MBSLT		Fol-wk	Metabasalt, weakly to moderately foliated. Complete replacement of mafic minerals by chlorite with associated sericite and lesser fuchsite. All alteration/retrograde metamorphism is overprinted by strong silica flooding. 0.1% disseminated sooty sulphides.	
169.9 - 171.5			Pervasive Strong Silicification	Replaces Mafics Strong Chlorite	Patchy Moderate Sericitisation
171.5 - 172.6	Ylim	bx		Fault gouge breccia dominated by clay-rich matrix and with silicified clasts of surrounding wallrock. 0.75% lim, 0.5% hm.	
171.5 - 172.6			Replaces Matrix Strong Clay	Replaces Clasts Strong Silicification	
172.6 - 200.7	BtS		Fol-mod	Biotite schist. Weak to moderate silicification throughout. Irregular carbonate veins are common (~1%) with weak Fe-carb halos. Common replacement of biotite throughout by sooty sulphides. 0.75% sooty sulphides throughout, locally up to 2% over 2m. From top of unit to 178.5m, discrete metabasalt seams of up to 25cm are common, accounting for ~5% of the rock.	
172.6 - 200.7			Pervasive Moderate Silicification	Fracture Controlled Weak Fe-carb	
200.7 - 212.9	FC	mass		Aphanitic intermediate (dacite) dyke. Massive with no visible phenocrysts. Alteration is moderate to strong ser-sil. Limonite is restricted tightly to fracture halos, and sooty sulphides occur as disseminations at 0.1%.	
200.7 - 212.9			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	

212.9 - 214.2	BtS	Fol-mod	Dacite-BtS contact zone. BtS from 212.9 to 213.34m and again from 213.73 to end of unit. Between these zones is part of the aphanitic and intensely silica altered dacite, together with abundant sooty sulphides. The upper BtS unit may be a break-off or raft within the dacite. This unit as a whole is strongly mineralized with 2.5% sooty sulphides, decreasing rapidly from 214m to end of unit.	
			212.9 - 214.2	Patchy Intense Silicification
214.2 - 220.0	BtS	Fol-mod	Biotite schist. Moderate to weak sil-ser alteration. 0.1% fc lim. Bottom 30cm is a massive bull qtz vein.	
			214.2 - 220.0	Patchy Moderate Silicification Patchy Moderate Sericitisation
220.0 - 242.0	BtS	Fol-mod	Biotite schist. Fresh. 0.1% dis brassy py. EOH.	
			220.0 - 242.0	Patchy Weak Sericitisation

Drill Log: CFD0343

Easting	582877.17	Hole Length	275 m	Prospect	Latte	Drill Started	Sep 17, 2013	Comment
Northing	6973170.8	Azimuth	0 °	Target	Latte Infill	Drill Completed	Sep 19, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	JScott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1105.25 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 23.3	BtS_carb	Fol-mod		Biotite schist with carbonate bands up to 1.2m in length. Strongly broken down to 16m with common clay seams. Alteration is weak chlo-ser. 0.1% hm, 0.1% lim, weak fc Fe-carb.
		6.0 - 23.3	Pervasive Weak Sericitisation	Replaces Mafics Weak Chlorite Fracture Controlled Weak Fe-carb
23.3 - 25.2	DIOR	phyr		Feldspar porphyritic andesite dyke (diorite). Massive. Moderate sericite alteration of phenocrysts and weak chlorite alteration of groundmass. 0.1% fc lim and hm. Lower and upper contacts are sharp intrusive. at 55TCA.
		23.3 - 25.2	Replaces Felsics Moderate Sericitisation	Replaces Mafics Weak Chlorite
25.2 - 36.9	BtS_carb	Fol-mod		Biotite schist with local carbonate vands. Moderate sericite alteration (to weak), with local silicification. 0.1% hm as disseminations.
		25.2 - 36.9	Pervasive Moderate Sericitisation	Patchy Weak Silicification
36.9 - 41.6	YO	bx		Brecciated biotite schist. Breccia intervals are up to 1m wide with an aphanitic matrix and heterolithic clasts. Clasts are angular to subangular and highly variable in size. Matrix is competent and well-annealed. Silicification and sericite are both weak to moderate throughout. 0.25% lim as diss.
		36.9 - 41.6	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
41.6 - 44.2	BtS	mylo	Fol-str	Biotite schist, locally developing mylonitic textures and ribbon quartz. Moderate sericite alteration. 0.25% lim.
		41.6 - 44.2	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb
44.2 - 45.1	YO	bx		Breccia zone. Aphanitic matrix with heterolithic angular clasts, as above. Matrix and clasts moderately silicified. 0.5% lim, 0.25% hm.
		44.2 - 45.1	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
45.1 - 63.6	BtS	Fol-str		Biotite schist with local zones of ribbon quartz mylonite development. Moderate sericite alteration. Weak fracture-controlled fe-carb. 0.25%lim, decreasing downhole. 0.1% fc hm. Narrow YO as above at 46.3m (10cm). Broken clay and gouge zones at 53.6 to 54.1.
		45.1 - 63.6	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb
63.6 - 64.6	RU	Fol-mod		Talc schist, possibly after metabasalt. Moderately silicified, weak sericite alteration, sulphide windows with mottled red-brown oxide permeation. 0.25% lim, 0.25% hm, 0.25% sooty sulphide.
		63.6 - 64.6	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
64.6 - 75.7	BtS	Fol-mod		Biotite schist with local carbonate bands, locally brecciated and broken by YO-type intrusion. Some limited qtz-carb veins brecciating locally. Alteration is moderate to weak sericite with FC fe-carb. 0.25% lim, 0.25% hm.
		64.6 - 75.7	Pervasive Moderate Sericitisation	Fracture Controlled Weak Fe-carb
75.7 - 77.1	HU			Highly altered unit with protolith not clearly discernable. Alteration is dominantly sericite with some possible local clay. Texture is faint, but appears to possibly be either an aphanitic dacite intruding and brecciating, or otherwise an aphanitic-matrixed yo-type breccia. Textures are faint so determination is difficult. Very strong hematite (3%). 0.25% lim.
		75.7 - 77.1	Pervasive Strong Sericitisation	
77.1 - 95.0	BtS	Fol-mod		Biotite schist. Weak ser alteration. Weak FC Fe-carb alteration. 0.1% FC lim, 0.1% hm diss.
		77.1 - 95.0	Pervasive Weak Sericitisation	Fracture Controlled Weak Fe-carb

95.0 - 106.7	YO	bx	Fol-mod	Locally brecciated and broken biotite schist. Breccias have an aphanitic clay-dominated matrix, locally simply breaking the rock and showing no transport; in other places abundant transport and rounding is exemplified. Biotite schist remains dominant unit undergoing brecciation. Common carbonate alteration of wall rock and replacement of bx matrix. Moderate to strong sericite alteration with moderate fe-carb. 0.25% lim, 0.1% hm.		
		95.0 - 106.7	Pervasive Strong Sericitisation	Fracture Controlled Strong Fe-carb		
106.7 - 109.2	YC	bx		Heterolithic silicified clast breccia. Matrix and clasts are altered by silica, with some of the matrix being clay-rich. Clasts are subrounded to subangular and generally closely packed. 1.25% lim, 0.1% hm, with sulphide dominant from 108.42 to end of unit. In lower portion sooties are 4% (1% overall).		
		106.7 - 109.2	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		
109.2 - 119.3	BtS		Fol-mod	Biotite schist. Moderately silicified and sericite altered throughout. Upper portion to 111.65 is strongly oxidized with no sulphide. Lower portion is 99% sulphide facies. Sooty sulphides occur as biotite of BtS, with up to 10% sulphide over 25cm. Overall 4% sulphide as foliation-sympathetic disseminations.		
		109.2 - 119.3	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification		
119.3 - 124.0	BtS	mylo	Fol-str	Locally mylonitic (quartz ribboned) biotite schist. Alteration is moderate to strong sericite. 0.25% hm as disseminations.		
		119.3 - 124.0	Pervasive Moderate Sericitisation			
124.0 - 131.4	BtS	mylo	Fol-str	Strongly deformed biotite schist, locally mylonitic (126.4 to 129.0m). Local sooty sulphide "horizons" of up to 60cm wide, locally as discrete massive bands up to 1cm. Alteration is strong sericite, moderate silica, and strong local clay. 1% sooty sulphide throughout. 0.25% fc lim.		
		124.0 - 131.4	Pervasive Strong Sericitisation	Patchy Moderate Silicification	Patchy Strong Clay	
131.4 - 132.8	Ylim	bx		Clay-rich limonite-dominated breccia. Probable annealed fault gouge. No textures remain. Local heterolithic subrounded clasts, strongly matrix supported. 2% lim. 0.25% hm.		
		131.4 - 132.8	Pervasive Intense Clay			
132.8 - 138.2	HU			Pervasive intense silica flooding, likely overmoderate to strong sericite. Local fracture-controlled clay. 1.5% diss sooties, 0.75% hm (fc), 0.25% lim (fc).		
		132.8 - 138.2	Pervasive Intense Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Strong Clay	
138.2 - 160.2	BtS		Fol-mod	Biotite schist with local mylonitic quartz ribbons. Alteration is moderate to locally strong ser-sil (ser dominant). Alteration increases to intense silica over strong sericite from 156.5 to end of unit. 1% diss sooties, 0.75% lim, 0.25% hm (fc).		
		138.2 - 156.5	Pervasive Moderate Sericitisation	Patchy Moderate Silicification		
		156.5 - 165.9	Pervasive Intense Silicification	Pervasive Strong Sericitisation		
160.2 - 164.8	FC	mass	Fol-wk	Possible dacite. Determination difficult due to strong alteration (intense ser-sil, local clay). Weak evidence of equigranular intermediate to felsic dyke of Qtz-fldspar-bt/hbl, highly overprinted. Very weak local fabric, but is faint. 0.75% diss sooties, 0.1% fc lim.		
164.8 - 165.9	HU			Intense sil-ser obscure all primary textures. Strongly broken throughout. 0.25% sooties (diss), 0.75% lim, 0.25% hm.		
165.9 - 166.9	PyF		Fol-wk	Pyrite (sooty sulphide) fault. Similar to some YO breccias, but sulphide facies. Moderate fabric development at 35TCA. Breccia with subangular heterolithic clasts. Matrix is sulphide and clay. Alteration is strong sil-ser-clay. 5% sooties, 1% lim, 0.5% hm.		
		165.9 - 166.9	Replaces Clasts Strong Silicification	Replaces Clasts Strong Sericitisation	Replaces Matrix Strong Clay	
166.9 - 180.5	HU		Fol-wk	Intense sericite alteration (perv) with patchy strong silicification. Strong fc clay alteration. Primary textures obscured. Protolith likely BtS, however some faint massive areas are visible indicating possible dacite dyke. Ylim (clay matrix, fault gouge) from 171.0 to 171.6m. 0.25% sooties (diss), 2% lim, 0.75% hm (fc).		
		166.9 - 180.5	Pervasive Intense Silicification	Pervasive Intense Sericitisation	Fracture Controlled Strong Clay	
180.5 - 187.9	BtS		Fol-mod	Biotite schist. Moderate ser-sil altn. 0.5% lim (fc) 0.25% hm (fc), 0.25% sooties (diss).		
		180.5 - 197.4	Pervasive Strong Sericitisation	Pervasive Moderate Silicification		
187.9 - 197.4	MsRQM		Fol-str	Ribbon quartz mylonite. Strongly developed quartz ribbons. Alteration is mod-str sil-ser. 0.1% lim (fc) 0.1% hm (diss).		
197.4 - 201.9	BtS		Fol-mod	Biotite schist. Weak ser, mod sil. 1.25% diss sooties.		
		197.4 - 201.9	Pervasive Moderate Silicification	Pervasive Weak Sericitisation		
201.9 - 205.4	MsRQM		Fol-str	RQM, as above. Zone of BtRQM from 204.1 to 204.9m.		
		201.9 - 206.1	Pervasive Strong Sericitisation	Pervasive Moderate Silicification		
205.4 - 206.1	RU		Fol-str	Talc schist within RQM. Presume early small bands of mafic/ultramafic, now revealed by talc and fuchsite. Same alteration as above.		
206.1 - 213.4	MsRQM		Fol-str	RQM, as above. Weak ser, mod sil. 0.1% sooties. Lower contact is sharp breccia wall at 50TCA. Less foliated "bts" from 208.9 to 210.3m - possible early mafic dyke.		
		206.1 - 213.4	Pervasive Weak Sericitisation	Pervasive Weak Silicification		

213.4 - 213.7	YC	bx		Narrow YC silicified clast breccia with silicic matrix. Alteration of strong sil after sericite. 0.5cm wide semi-massive sulphide band as upper contact at 50TCA (no ori). 0.5% sooty sulphides. 0.1% fc lim.
		213.4 - 213.7	Pervasive Strong Silicification	Pervasive Strong Sericitisation
213.7 - 244.3	MsRQM		Fol-str	RQM, as above. Moderate sericite, weak sil. 0.1% diss sooties. 217.1 to 217.24m: narrow YC, as above. No significant sooty sulphide. Additional occurrences of weakly foliated biotite schist, likely representing early mafic dykes at: 228.28 to 229.09m.
		213.7 - 244.3	Pervasive Moderate Sericitisation	Pervasive Weak Silicification
244.3 - 250.0	FC	mass		Massive intermediate intrusive aphanitic dyke (dacite). Upper contact is 35cm wide zone in which RQM is broken and disaggregated along foliation with intrusion of silica-sooty sulphide veinlets up to 0.5cm wide. Unit is strongly sericite-silica altered. Lower portion from 249.2 to end of unit is darker with stronger silicification and lesser sericite alteration. 0.1% diss sooties.
		244.3 - 250.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation
250.0 - 262.5	BtS		Fol-mod	Biotite schist (locally muscovite schist). Moderate to weak sil-ser alteration. 0.1% sooty sulphide.
		250.0 - 262.5	Pervasive Moderate Sericitisation	Pervasive Weak Sericitisation
262.5 - 263.9	FC	mass		Andesite dyke, bleached white. Dominantly aphanitic with very rare anhedral feldspar phenocrysts in an aphanitic groundmass. Bleaching is likely from intense ser-sil alteration and partial oxidation related to strong fracture-controlled lim-hm (0.5% total). 0.25% diss sooty sulphides. Upper contact is clay-rich and rips apart overlying BtS over ~10cm. Lower contact is gradational waning of bleaching over ~5cm.
		262.5 - 263.9	Pervasive Intense Silicification	Pervasive Intense Sericitisation
263.9 - 272.0	IV			Andesite dyke. Fine grained to aphanitic. Fresh. 0.1% brassy pyrite disseminations. Lower contact is sharp across a 10cm zone of fault gouge.
272.0 - 275.0	BtS		Fol-mod	Biotite schist. Weak ser alteration. 0.1% diss brassy pyrite. 0.1% diss hm. EOH.
		272.0 - 275.0	Patchy Weak Sericitisation	

Drill Log: CFD0344

Easting	583027.6	Hole Length	242 m	Prospect	Latte	Drill Started	Sep 20, 2013	Comment
Northing	6973135.47	Azimuth	0 °	Target	Latte Infill	Drill Completed	Sep 21, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	JScott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1115.18 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 99.1	BtS_carb	Fol-mod		Biotite schist with massive carbonate bands (up to 2m wide). Alteration is weak to moderate ser. Local fracture-controlled moderate fe-carb. Lim-hm 0.25% each as disseminations. Carbonate possibly provides permeability from surface, as the rock surrounding these bands is more strongly altered by hm-lim and fe-carb. Locall YO-type breccia development (up to 30cm) where clay-rich matrix brecciates biotite schist (mostly muscovite schist).
		6.0 - 99.1	Patchy Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
99.1 - 100.9	DIOR	phyr		Massive diorite. Feldspar porphyritic (anhedral). Alteration is patchy sericite alteration of the matrix with ubiquitous replacement of feldspars by sericite. Strong fracture-controlled hm (0.5%) with 0.1% lim. Lower contact is sharp, possibly faulted into place, at roughly 80TCA. Alteration adjacent contact within diorite is strong sericite (extending in ~30cm). Upper contact is similar, but alteration into diorite is only over ~10cm. Wallrock alteration is strong silica flooding up to 15cm in hanging wall only.
		99.1 - 100.9	Patchy Moderate Sericitisation	
100.9 - 106.7	BtS_carb	Fol-mod		Biotite schist with abundant carbonate bands (up to 80cm), decreasing in abundance downhole. Alteration is moderate sericite with fracture-controlled Fe-carb. Small interval with fuchsine for 5cm at 104.15m indicating possible discrete mafic lenses (mbslt?). 0.25% diss lim, 0.1% diss hm.
		100.9 - 106.7	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
106.7 - 117.7	YO	bx		Alternating silicic- and clay-matrix breccia with heterolithic clasts dominated by muscovite schist (after biotite schist). Clasts are subangular to subrounded, and breccia is matrix supported. Alteration is moderate ser-sil with overprinting clay (strong). 1% lim throughout, 0.25% hm.
		106.7 - 117.7	Pervasive Strong Sericitisation	Pervasive Moderate Silicification Replaces Matrix Strong Clay
117.7 - 121.7	BtS_carb	Fol-mod		Biotite schist with carbonate bands. Strong sericite (+/-chl?) with intense local purple hematite staining (of feldspars?). Weak silica. 0.25% lim, 0.5% hm. 0.1% brassy pyrite (diss).
		117.7 - 121.7	Patchy Intense Sericitisation	Patchy Weak Silicification
121.7 - 123.9	MsS	Fol-str		Muscovite/sericite schist, locally developing ribbon quartz mylonite texture. Strong/intense pervasive sericite alteration. Local sooty sulphide up to 5% over 20cm, 1.5% overall. 1% lim, 0.5% hm (diss).
		121.7 - 123.9	Pervasive Intense Sericitisation	
123.9 - 124.7	PyF	Fol-wk		Pyritic "fault" zone. Dominated by sooty sulphides and sericite+/-clay alteration, with weak (possibly early) silicification. Sulphide exhibits weak banding roughly sympathetic to overall rock fabric. 8% sooty sulphide. Dip-direction/dip measurements from the fabric of the sulphides showed: 182/75, 140/75.
		123.9 - 124.7	Pervasive Intense Sericitisation	Pervasive Strong Clay Pervasive Weak Silicification
124.7 - 126.0	MsS	Fol-str		Very strongly foliated sericite schist (light green colour) with bands of semi-massive hematite in sericite. 1% sooty sulphide (dss).
		124.7 - 126.0	Pervasive Intense Sericitisation	Pervasive Weak Silicification
126.0 - 128.0	PyF	Fol-wk		Pyritic "fault" zone locally sulphide-matrix breccia. As above, very strong sericite with local clay, possibly after early silicification. Sulphide is abundant and dominantly foliation-parallel, but locally x-cutting at shallow angles TCA (~5TCA). 10% sooty sulphide. Measurements (dip-direction, dip): 154/68, 178/85, 016/70, 158/74.
		126.0 - 128.0	Pervasive Intense Sericitisation	Pervasive Strong Clay Pervasive Weak Silicification
128.0 - 133.7	MsS	Fol-str		Muscovite-sericite schist with local ribbon quartz mylonite development. Alteration is strong ser-sil with local fracture-controlled fe-carb. Common foliation-parallel sooty sulphide disseminations and common sulphide stringers crossing at low angle TCA (5-10TCA). 2.5% sooties.
		128.0 - 133.7	Pervasive Strong Sericitisation	Pervasive Strong Silicification Fracture Controlled Weak Fe-carb

133.7 - 135.7	PyF	bx	Fol-wk	PYF, as above. 8% sooty sulphide with 1% hm and 1% lim fc. Measurements on fabric of sulphide: 164/85, 182/83.		
		133.7 - 135.7	Pervasive Intense Sericitisation	Pervasive Strong Clay	Pervasive Weak Silicification	
135.7 - 144.6	MsS		Fol-mod	Muscovite-sericite schist. Strongly mineralized with foliation-parallel sooty sulphides. Locally strongly broken due to oxidation and clay together with intense hm-lim (136.0 to 136.6m and 141.4 to 141.7m). Strong ser, mod sil. 2.5% sooties, 1% lim, 1.5% hm (up to 4% hm and 2.5% lim over 60cm).		
		135.7 - 144.6	Pervasive Strong Sericitisation	Pervasive Moderate Silicification		
144.6 - 148.4	Ylim	bx		Limonite-matrix crackle breccia. Matrix disaggregates unit but no evidence of transportation. Local faint silica clasts and matrix. Alteration is strong sil, weak ser, and strong to intense fracture-controlled clay. 6% limonite, 1.5% sooties. 0.25%hm.		
		144.6 - 148.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Intense Clay	
148.4 - 161.2	BtS		Fol-mod	Biotite schist with local zones of quartz ribbon mylonite development. Alteration is strong to locally weak silica alteration with patchy moderate (locally strong) sericite alteration. Oxidation is strong and patchy around fractures and fracture zones. 2% sooty sulphides, 1.25% hm, and 0.75% lim.		
		148.4 - 161.2	Patchy Moderate Silicification	Patchy Moderate Sericitisation		
161.2 - 163.4	HU	bx		Highly sericite and clay altered overprinting primary textures. Strongly broken. 5% hm, 2% lim.		
		161.2 - 163.4	Pervasive Intense Sericitisation	Pervasive Intense Clay		
163.4 - 167.1	BtS		Fol-mod	Biotite schist to muscovite schist. Weak to moderate sericite. 0.25% diss sooties, 0.75% hm, 0.75% lim (fc).		
		163.4 - 167.1	Patchy Moderate Sericitisation			
167.1 - 168.1	HU			Intense ser-clay alteration obscures primary textures. Moderately broken. 6% hm, 3%lim.		
		167.1 - 168.1	Pervasive Intense Sericitisation	Pervasive Intense Clay		
168.1 - 175.1	BtS		Fol-mod	Biotite schist to muscovite schist. Weak to moderate sericite. 0.25% diss sooties, 0.75% hm, 0.75% lim (fc).		
		168.1 - 175.1	Patchy Moderate Sericitisation			
175.1 - 177.1	BtS		Fol-mod	Biotite schist. Weakfracture-controlled sericite. 0.1% diss py.		
		175.1 - 177.1	Fracture Controlled Weak Sericitisation			
177.1 - 191.1	BtS		Fol-mod	Biotite schist with patchy and alternating sericite and silica alteration (both locally strong). 2.5% sooties (up to 4% over 1m) with 1% lim (patchy) and 0.5% lim (fc).		
		177.1 - 191.1	Patchy Moderate Silicification	Patchy Moderate Sericitisation		
191.1 - 202.1	BtS_carb		Fol-mod	Biotite schist with carbonate bands (common). Strong to locally intense sericite alteration. 0.25% sooties (1% over 30cm), 0.75% hm, 0.5% lim (fc).		
		191.1 - 202.1	Pervasive Strong Sericitisation			
202.1 - 207.2	HU			Intensely altered by sericite +/- sil with overprinting moderate clay (locally strong). 1.5% hm, 1% lim as diss.		
		202.1 - 207.2	Pervasive Intense Sericitisation	Patchy Moderate Silicification	Fracture Controlled Strong Clay	
207.2 - 209.4	MsRQM		Fol-str	Strongly sheared muscovite (locally biotite) ribbon quartz mylonite with dramatic change in foliation orientation from 208.5 to 209m where it changes from 50TCA to 15TCA over a short distance. Possible mafic sliver included in shear zone due to presence of mariposite at 208.85m. 1% sooty sulphide with 0.25% hm and 0.25% lim.		
		207.2 - 209.4	Pervasive Strong Sericitisation			
209.4 - 216.0	HU			Intensely altered by sericite +/- sil with overprinting moderate clay (locally strong). 1.5% hm, 1% lim as diss.		
		209.4 - 216.0	Pervasive Intense Sericitisation	Patchy Moderate Silicification	Fracture Controlled Strong Clay	
216.0 - 218.3	PB	mass		Wide metacarbonate band, likely formational from biotite schist. Local vugs appear to be after sulphide, since weathered out. 1% hm, 0.5% lim (fc).		
		216.0 - 218.3	Fracture Controlled Weak Fe-carb			
218.3 - 221.4	HU			HU, as above. Strong to intense clay throughout. Local silica flooded pockets with sulphide. 5% hm, 1% lim, 3% sooties.		
		218.3 - 221.4	Fracture Controlled Intense Clay	Patchy Moderate Sericitisation	Patchy Intense Silicification	
221.4 - 222.4	PyF		Fol-mod	PyF to YS. Sooty sulphide bands aligned to dominant foliation (although slightly lower TCA than typical ~20TCA). Also locally brecciated with sil-sooty sulphide matrix. Strong ser-sil-clay alteration. 5% sulphide, 4% hm, 1% lim.		
		221.4 - 222.4	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Intense Clay	
222.4 - 242.0	BtS		Fol-mod	Biotite schist. Weak ser-sil alteration locally. Weak shear zone developed from 224.0 to 224.8m. 0.1% diss py.0.1% fc lim. EOH.		
		222.4 - 242.0	Patchy Weak Sericitisation	Patchy Weak Silicification		

Drill Log: CFD0345

Easting	583078	Hole Length	269 m	Prospect	Latte	Drill Started	Sep 21, 2013	Comment
Northing	6973104.68	Azimuth	0 °	Target	Latte Infill	Drill Completed	Aug 24, 2013	
Projection	UTM7-NAD83	Dip	-60 °	Geologist	JScott	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1120.94 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.5	OVB			
6.5 - 39.7	BtS_carb		Fol-mod	Biotite schist with common carbonate bands up to 80cm wide. Unit is locally strong to moderately broken over 30cm. Alteration is weak ser with fc fe-carb. Local 40-50cm zones of more intense alteration coincide with local increases in lim-hm (up to 2.5% lim and 1% hm over 50cm). Overall 0.5% lim, 0.25% hm, fc.
		6.5 - 39.7	Patchy Moderate Sericitisation	Fracture Controlled Weak Fe-carb
39.7 - 41.2	IV	mass		Aphanitic mafic to intermediate dyke (andesite). Upper contact is sharp intrusive at 40TCA with thermal? alteration extending 40cm up into wallrock (epidote, chlorite). Unit is strongly broken. Lower half is obscured by intense sericite alteration with local clay. 0.25% lim (diss), 0.25% hm (fc). Lower contact obscured by fractures.
		39.7 - 41.2	Patchy Moderate Sericitisation	
41.2 - 42.2	BtS_carb		Fol-mod	Biotite schist. Moderate sericite alteration. 0.1% lim fc.
		41.2 - 42.2	Pervasive Moderate Sericitisation	
42.2 - 43.0	HU			Intense sericite alteration with strong clay. Strongly broken. 2% hm, 1% lim.
		42.2 - 43.0	Pervasive Intense Sericitisation	Fracture Controlled Strong Clay
43.0 - 108.7	BtS_carb	bx	Fol-mod	Biotite schist with local carbonate bands. Locally weakly brecciated by "YO" breccia with aphanitic clay-rich matrix with limonite. Alteration is variable between moderate and very weak sericite, usually together with increase in limonite abundance (up to 1% over 1m). Overall 0.5% lim.
		43.0 - 108.7	Patchy Moderate Sericitisation	
108.7 - 117.4	YO	bx		Breccia-dominated zone. ~25% biotite/muscovite schist wallrock and clasts. Clasts are generally angular to subangular and comprised of schist and quartz vein. Matrix is clay-dominated replaced partially by silica. Strong sericite alteration of clasts, local moderate silica. 1% lim, 0.5% hm.
		108.7 - 117.4	Replaces Clasts Strong Sericitisation	Replaces Matrix Strong Silicification
				Fracture Controlled Strong Clay
117.4 - 123.3	BtS		Fol-mod	Biotite schist. Strong sericite, local silica alteration. Cross-cut by numerous quartz and carbonate veins, both at widely varying angles and generally highly irregular. Qtz veins wider than carbonate, apparently pull-apart or tension gashes up to 1cm wide. Carbonate is more wispy. 1.5% hm as disseminations with 0.5% lim. Common fe-carb alteration adjacent qtz-carb veins.
		117.4 - 123.3	Pervasive Strong Sericitisation	Patchy Moderate Silicification
				Fracture Controlled Strong Fe-carb
123.3 - 124.5	FC	mass		Intermediate intrusion? Massive. Strongly intruded by qtz-carbonate veins (~5%). Lower contact is sharp intrusive @35TCA. Upper contact is pull-apart of wall-rock with abundant qtz-carb veining. Alteration is moderate ser-sil. 2% hm, 1.5% lim.
		123.3 - 124.5	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
124.5 - 128.1	BtS		Fol-mod	Biotite schist with foliation at low angle TCA (~25TCA). Abundant carbonate-quartz veining, some nearly parallel TCA (~10% carb-qtz veins). Alteration is moderate sericite with moderate vein-controlled Fe-carb. 3% hm, 0.25% lim.
		124.5 - 128.1	Pervasive Moderate Sericitisation	Vein Selvege Strong Fe-carb
128.1 - 131.0	YO	bx		Clay-sericite-carbonate-matrix heterolithic clast breccia. Clasts are subrounded to rounded. Appearance of milling and transport - possible annealed fault gouge. 2% lim.
		128.1 - 131.6	Replaces Matrix Strong Clay	Pervasive Moderate Sericitisation
				Replaces Clasts Moderate Silicification
131.0 - 131.4	YS	bx		As above, but sulphide facies.

131.4 - 149.3	MsS		Fol-mod	Muscovite schist (presumed after biotite). Locally weakly brecciated by YO. Moderate sericite alteration, weak local (patchy) silica. Moderate to strong Fe-carb (fc). 0.75% lim (diss).		
		131.6 - 149.3	Pervasive Moderate Sericitisation	Patchy Moderate Silicification	Fracture Controlled Moderate Fe-carb	
149.3 - 153.3	BtS		Fol-wk	Strongly silica altered formerly biotite schist with moderate underprinting sericite. 1% disseminated sooties. 0.75%lim and 0.25% hm fc.		
		149.3 - 153.3	Pervasive Intense Silicification	Pervasive Strong Sericitisation	Fracture Controlled Moderate Fe-carb	
153.3 - 156.5	YC	bx		YC/YO bx with local YS. Clasts obscured by intense silicification. Matrix dominantly formerly clay and since overprinted. Clasts subrounded to subangular and matrix-supported. 0.75% sooty sulphides only in windows where up to 5% over 10cm. 2% lim, 2% hm.		
		153.3 - 156.5	Pervasive Intense Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Fe-carb	
156.5 - 192.2	BtS		Fol-mod	Biotite schist. Typical Latte foliation-controlled mineralization. Alteration and sulphide abundance waxes and wanes locally, but is largely consistent throughout the unit. Patchy distribution of sooty sulphides, possibly coinciding with zones of biotite, as per the current hypothesis. Patchy sooty zones are typically less than 1m long. Alteration throughout is weak to locally moderate sericite with none to locally strong silica. 0.5% sooty sulphides overall, locally up to 2% over 1m. Fracture-controlled lim-hm, 0.25% lim 0.1% hm.		
		156.5 - 192.2	Patchy Moderate Silicification	Patchy Moderate Sericitisation		
192.2 - 196.7	BtS		Fol-mod	Intensely silicified biotite schist. Silica flooding. Locally strongly broken. 2.5% sooty sulphides with 0.5% fracture-controlled hm.		
		192.2 - 196.7	Pervasive Intense Silicification			
196.7 - 200.1	BtS		Fol-mod	Biotite schist. Moderate to strong patchy sericite with weak to moderate patchy silica. 0.25% hm (fc).		
		196.7 - 200.1	Patchy Moderate Sericitisation	Patchy Moderate Silicification		
200.1 - 200.7	YC	bx		Biotite schist with 35cm silicified clast breccia at the centre with sooty sulphide mineralization extending out into the wallrock. Alteration is intense silica with the matrix being clay. Clasts are subrounded and closely packed. 2% sooty with 0.5% fc hm. Breccia walls (no ori) at roughly 40TCA.		
		200.1 - 200.7	Pervasive Intense Silicification	Replaces Matrix Moderate Clay		
200.7 - 210.5	BtS		Fol-mod	Biotite schist with patchy ser alteration and patchy fe-carb altn. 0.1% brassy pyrite. 0.5% fc lim, 0.25% fc hm.		
		200.7 - 210.5	Patchy Moderate Sericitisation			
210.5 - 212.0	BtS		Fol-mod	Biotite schist. Strongly altered by sericite and carbonate. Local sulphide windows, dominantly oxide. 1% sooties, 3% hm, 1% lim.		
		210.5 - 212.0	Pervasive Strong Sericitisation	Patchy Moderate Fe-carb		
212.0 - 212.7	YC	bx		YC breccia. Angular to subangular clasts, matrix supported in clay-fe-carb-ser matrix. Clasts are silicified and heterolithic. 2% lim, 1% hm.		
		212.0 - 212.7	Replaces Clasts Strong Silicification	Replaces Matrix Strong Fe-carb	Replaces Matrix Moderate Clay	
212.7 - 214.3	HU			Intense clay alteration with abundant hm and lim. No texture preserved. Strongly broken 5% hm, 2.5% lim.		
		212.7 - 214.3	Pervasive Intense Clay			
214.3 - 217.9	RU		Fol-mod	Talc schist. Abundant talc (serpentine, poss.). Moderately sheared. Moderate to stronger sericite alteration with fc fe-carb. 0.1% fc lim, 0.1% fc hm.		
		214.3 - 217.9	Pervasive Strong Sericitisation	Fracture Controlled Strong Fe-carb		
217.9 - 225.0	BtS		Fol-mod	Biotite schist. Strong ser altn, apparently leaching. Moderate silica (patchy). Local sulphide-rich windows amongst bleaching/leaching zones and oxidation zones. 0.5% sooty overall (locally upto 2% over 70cm). 0.25% lim, 0.25% hm (fc).		
		217.9 - 225.0	Pervasive Intense Sericitisation	Fracture Controlled Weak Fe-carb		
225.0 - 225.8	HU			Intense clay alteration after sericite. No primary textures. 5% hm, 1.5% lim.		
		225.0 - 225.8	Pervasive Intense Clay	Pervasive Strong Sericitisation		
225.8 - 227.4	BtS		Fol-mod	Intensely sericite altered biotite schist. 0.25% lim and 0.25% hm as fc.		
		225.8 - 227.4	Pervasive Intense Sericitisation			
227.4 - 232.1	HU			Intensely altered sulphide-facies possibly biotite schist? Intense sericite and silica alteration/flooding with local fracture-controlled fe-carb. Sulphide abundance increases downhole with up to 2.5% sooties over 30cm, overall 0.5% sooty with 0.25% lim and 0.5% hm (fc).		
		227.4 - 232.1	Pervasive Intense Sericitisation	Pervasive Intense Silicification	Fracture Controlled Moderate Fe-carb	

232.1 - 234.4	PB	mass		Massive metacarbonate band, likely formational with BtS. No texture. Locally broken or partially broken with fe-carb alteration propagating along hairline veinlets. Lower contact is sharp and foliation-parallel.
		232.1 - 234.4	Fracture Controlled Weak Fe-carb	
234.4 - 237.1	BtS		Fol-mod	Strong to intensely sericite altered biotite schist. Unit is nearly complete sericite. 0.1% lim and hm fc.
		234.4 - 237.1	Pervasive Intense Sericitisation	
237.1 - 239.0	PyF		Fol-wk	Sooty-sulphide-dominated and locally brecciated unit with abundant silica-sericite (+/-carbonate?). 4% sooty sulphide. Fabric of pyritic fault is strongly variable, but dominant sulphide stringers are oriented at roughly 20-25TCA (no ori).
		237.1 - 239.0	Pervasive Intense Sericitisation	Pervasive Intense Silicification
239.0 - 245.6	YO	bx		Pervasive and intense sericite alteration throughout with local moderate silica. Breccia is matrix supported with subangular generally fine-grained clasts (<1cm). Fracture-controlled lim-hm (0.1% each).
		239.0 - 245.6	Pervasive Intense Sericitisation	Patchy Moderate Silicification
245.6 - 246.6	PyF	bx	Fol-wk	Sooty sulphide dominated zone with sooties occurring as foliation-parallel (foliation-defining) disseminations and locally as semi-massive bands up to 2cm wide. Locally brecciated "rock flour" replaced by sooty sulphide (complex genetic history probable). Strong ser-sil throughout. 6% sooty sulphide.
		245.6 - 246.6	Pervasive Intense Sericitisation	Pervasive Strong Silicification Strong Clay
246.6 - 269.0	BtS		Fol-mod	Biotite schist. Weak patchy ser alteration (locally weak sil). Strongly broken from top of unit to 256m, then becoming more competent. 0.1% diss py. EOH.
		246.6 - 269.0	Patchy Weak Sericitisation	Patchy Weak Silicification

Drill Log: CFD0346

Easting	583101.29	Hole Length	250 m	Prospect	Latte	Drill Started	Sep 24, 2013	Comment
Northing	6973128.17	Azimuth	5 °	Target	Latte Infill	Drill Completed	Sep 26, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1118.95 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 9.7	BtS_carb		Fol-mod	Biotite schist with large carbonate component (>30% of interval). Weakly oxidized, weak fracture controlled clay alteration.
		6.0 - 9.7	Fracture Controlled Weak Clay	Pervasive Moderate Calcite
9.7 - 28.6	BtS_carb		Fol-mod	Interval of biotite schist with carbonate. Bands of carbonate can be pure white, or tinged pink. Moderate chlorite throughout. Strong clay and decomposition of host through fault zone running from 15.3-17.9m with 10cm strongly limonitic interval within at approximately 16.9-17m. Common carbonate veins running parallel TCA with slightly irregular margins.
		9.7 - 28.6	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
28.6 - 48.8	BtS_carb		Fol-mod	Oxidized biotite schist with carbonate. Faded, bleached look to unit, moderate sericite in patchy domains. Carb dispersed as thin (1cm) bands (pink-white) as well as pervasive throughout foliation. .5% disseminated limonite in patches.
		28.6 - 48.8	Fracture Controlled Weak Clay	Pervasive Moderate Calcite
48.8 - 49.0	Ycarb	bxm		Thin Ycarb breccia. Fine limonite-clay matrix, all competent. Clasts are monomictic, subrounded to angular and up to 1cm in size. Pervasive carbonate.
		48.8 - 49.0	Pervasive Strong Calcite	Pervasive Weak Clay
49.0 - 50.7	BtS_carb		Fol-mod	Oxidized biotite schist. Pervasive carbonate, moderate sericite, thin intervals with near-breccia appearance. 1% disseminated limonite throughout.
		49.0 - 50.7	Pervasive Moderate Calcite	Pervasive Moderate Sericitisation
50.7 - 68.8	BtS_carb	bxm	Fol-mod	Biotite schist, strong carbonate alteration. Bands of foliation parallel carbonate up to 30cm in width which are cut by a generation of Fe-carb veinlets and breccias. Brecciated intervals are up to 15cm discrete corridors, as well as 1m + areas of weak breccia development. Also a pure white carbonate breccia also following the common breccia orientation (XX, XXX) but with no limonite component. Up to 1% limonite throughout, associated with carbonate, as well as patches of .25% hematite.
		50.7 - 68.8	Pervasive Moderate Sericitisation	Pervasive Strong Calcite
68.8 - 77.6	BtS_carb		Fol-mod	Biotite-carbonate schist. Build up of strong sericite towards bottom of unit, patchy red-orange oxidation throughout, up to .75% disseminated limonite.
		68.8 - 77.6	Pervasive Moderate Calcite	Patchy Strong Sericitisation
77.6 - 78.8	BtS_carb		Fol-wk	Coarse feldspar porphyroblasts within biotite schist. Green tinge at beginning of unit where unoxidized, patchy strong disseminations of sooty sulphide difficult to see. Appear brecciated by Fe-carb fluid: dark sulphide-rich areas unreactive to acid. 1% patchy arsenian pyrite/sooty sulphide.
		77.6 - 78.8	Patchy Moderate Calcite	Pervasive Weak Clay
78.8 - 84.7	MsS		Fol-mod	Strong sericite and carbonate alteration of biotite schist, biotite completely replaced throughout. Crosscutting carbonate veinslets throughout, .75% disseminated limonite.
		78.8 - 84.7	Pervasive Moderate Calcite	Pervasive Strong Sericitisation
84.7 - 90.2	Ycarb	bx		Fe-carb matrix to patchily brecciated interval. Interval begins with 1m qtz vein, heavily fractured and with strong Fe-carb breccia network throughout creating angular clasts with little to no rotation (crackle breccia). Brecciation continues throughout, with strong sericite alteration and strong oxidation. Late, coarse, white carbonate phase also present, creating .5cm thick veinlets cutting oxidized schist, also creating rare matrix supported angular breccias.
		84.7 - 90.2	Pervasive Moderate Calcite	Patchy Strong Sericitisation Fracture Controlled Weak Clay
90.2 - 98.2	BtS_carb		Fol-mod	Strongly sericitized schistose unit. Bands of carbonate up to 20cm in thickness, in addition to pervasive calcite. Dismembered quartz veins occasionally weakly brecciated by carbonate.
		90.2 - 98.2	Pervasive Moderate Calcite	Pervasive Strong Sericitisation

98.2 - 107.5	BtS_carb	Fol-mod	Shoulder to zone: patches of intense sericite alteration with weak clay, rock so altered by fluids that weak breccia textures present, but very immature. Patches of oxidation and moderate clay alteration, up to 1% patchy limonite.		
	98.2 - 107.5	Patchy Intense Sericitisation	Patchy Moderate Clay		
107.5 - 108.3	YS	bx	Zone: clay-sulphide matrix breccia, unoxidized, subrounded clasts of host and old quartz veins supported by matrix.		
	107.5 - 108.3	Pervasive Strong Clay	Replaces Clasts Strong Sericitisation	Replaces Clasts Moderate Silicification	
108.3 - 114.2	HU	Fol-mod	Continuation of zone, intense sericite and strong pervasive clay alteration of what was most likely a schistose host. Thin breccia zones (10cm or less) with rock-flour and clay-sulphide matrix. Up to 2.5% disseminated sooty pyrite, with common concentrations in stringers and veinlets. Patches of moderate pervasive calcite alteration, post-mineralization.		
	108.3 - 114.2	Pervasive Strong Clay	Pervasive Strong Sericitisation	Patchy Moderate Calcite	
114.2 - 117.1	HU	Fol-mod	Intense sericite alteration with a green tinge (Cr w/in mica) of host. 1.5% sooty pyrite present as stringers and veinlets with concentrations in areas up to 2.5cm thick. Moderate patches of carbonate alteration as late calcite veinlets and flooding. Weak to moderate late silicification in some areas.		
	114.2 - 117.1	Pervasive Moderate Clay	Pervasive Strong Sericitisation	Patchy Moderate Calcite	
117.1 - 120.2	HU	Fol-mod	Zone, same as above but greater amount of sooty pyrite stringers and veinlets. 2% sooty pyrite, strong clay, moderate calcite.		
	117.1 - 120.2	Pervasive Strong Clay	Pervasive Strong Sericitisation	Patchy Moderate Calcite	
120.2 - 123.5	BtS_carb	Fol-str	Abrupt end to sulphide facies zone. Strongly sericite altered biotite schist, ribbons of quartz visible, no biotite remaining, moderate silicification, strong foliation evident. YO breccia from 122.5-123m: brown orange colouration, fine grained rock-flour matrix with angular clasts of host.		
	120.2 - 123.5	Pervasive Moderate Silicification	Fracture Controlled Weak Clay		
123.5 - 126.1	BtS_carb	Fol-mod	Zone: patchily oxidized biotite schist, up to 2.5% disseminated sooty pyrite throughout, weak clay along fractures and moderate silicification.		
	123.5 - 126.1	Pervasive Moderate Silicification	Fracture Controlled Weak Clay	Pervasive Moderate Sericitisation	
126.1 - 127.9	BtS_carb	Fol-mod	Heavily fractured and strongly sericitized schist. Intervals of complete breakdown of rock, with increased limonite (1%) in those areas. Pale, orange-brown colouration and weak silicification.		
	126.1 - 127.9	Pervasive Weak Silicification	Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation	
127.9 - 131.1	BtS_carb	Fol-mod	Zone: disseminated sooty pyrite throughout relict schistose host. Thin YO brecciation at 129.1-129.2m with clast supported, limonite-clay matrix breccia. Moderate silicification throughout, moderate sericite, oxidation bleeding in off of fractures for .75% fc limonite. Carbonate veinlets along late fractures. Bottom of unit, sulphidation abruptly stops in contact with schist.		
	127.9 - 131.1	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation	
131.1 - 147.5	BtS_carb	Fol-mod	Biotite schist, moderate clay replacement of feldspars and weak sericite for first 6m (alteration halo around zone). Common carbonate veining cross cutting foliation, and no significant carbonate content within schist unit or foliation. Oxidation stops at 137m depth. Strong patches of epidote and chlorite over last 2m.		
	131.1 - 146.0	Replaces Felsics Moderate Clay	Patchy Weak Sericitisation		
	146.0 - 147.5	Patchy Strong Epidote	Patchy Strong Chlorite		
147.5 - 150.8	BtS	Fol-str	Moderate to strong sericitization of biotite schist, heavily fractured over interval with weak clay along fractures. Trace sooty sulphide (?) in areas, pale oxidation throughout, up to .75% fracture controlled limonite. Sericite increases significantly at lower 30cm of unit.		
	147.5 - 150.8	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay	Patchy Moderate Silicification	
150.8 - 152.0	BtS	Fol-mod	Zone: strong dissemination of sooty pyrite along schistose foliation: 2.5% sooty py. Oxidation along crosscutting thin veinlets, with 20cm of strong oxidation from 151.4-151.6m along common fracture/structural plane (see structural data).		
	150.8 - 152.0	Pervasive Strong Sericitisation	Pervasive Moderate Clay		
152.0 - 165.1	BtS_carb	Fol-mod	Biotite schist, thin patches of moderate sericite, common opaque white dismembered quartz veins, moderate silicification and weak .5% fracture controlled limonite in areas. Rare, thin, foln parallel carbonate bands, and pervasive fine carbonate and thin late veinlets. Patches of weak epidote.		
	152.0 - 165.1	Patchy Moderate Silicification	Patchy Weak Epidote	Pervasive Moderate Calcite	
165.1 - 168.1	BtS_carb	Fol-mod	Thin interval with patchy zones. Moderate sericite and silica at 165.07-166.3m with up to 1.5% disseminated sooty pyrite. Fading of sericite to normal background BtS_carb levels between this first zone and a second, very thin patch from 167.9-168.1m with 1% disseminated sooty pyrite.		
	165.1 - 168.1	Patchy Strong Sericitisation	Patchy Moderate Silicification		
168.1 - 179.4	BtS_carb	Fol-mod	Biotite schist with thin bands of carbonate. Buildup of strong epidote alteration from 172m to end of unit. Weak to moderate chlorite throughout.		
	168.1 - 172.0	Pervasive Moderate Chlorite	Pervasive Moderate Calcite		
	172.0 - 179.4	Pervasive Strong Epidote	Pervasive Moderate Chlorite		

179.4 - 181.4	BtS_carb	Fol-mod	Thin oxidized zone: biotite schist with carbonate, 1.5% disseminated limonite, unoxidized 10cm interval at 181m. Areas of sooty pyrite/deep red oxidation do not effervesce with HCl. Unit ends in strong sericitization.		
	179.4 - 181.4	Replaces Felsics Moderate Clay	Pervasive Moderate Calcite	Pervasive Moderate Sericitisation	
181.4 - 195.1	BtS_carb	Fol-str	From beginning of unit to 182m, purple hematite-like mineral intermixed with carbonate, followed immediately by strong pervasive epidote and chlorite which fades after 184 to moderate levels. Patchy strong epidote throughout, strong carbonate over interval with complete replacement patches. Moderate chlorite. From 192.5-end of unit, intense sericitization and carbonate begins, leading to near HU levels of alteration.		
	181.4 - 192.5	Patchy Strong Epidote	Pervasive Moderate Chlorite	Pervasive Moderate Calcite	
	192.5 - 195.1	Pervasive Intense Sericitisation	Pervasive Strong Calcite		
195.1 - 198.8	BtS_carb	Fol-mod	Zone: intense sericite with patches of strong disseminated sooty pyrite, leading into moderate to strong pervasive clay alteration and 2.5% disseminated limonite. Zone fades over last 1m. Preserved banded carbonate over last 1m.		
	195.1 - 198.8	Patchy Strong Sericitisation	Pervasive Strong Clay		
198.8 - 205.0	BtS_carb	Fol-mod	Variably oxidized and fractured biotite schist. Moderate to strong patcehs of chlorite, with strong calcite component throughout whole interval. Some fractures contain moderate clay alteration and up to 1% limonite.		
	198.8 - 205.0	Patchy Moderate Chlorite	Fracture Controlled Moderate Clay	Patchy Moderate Epidote	
205.0 - 205.7	RU	Fol-str	Thin RU unit with 1mm magnetite grains and strong foliation. Bright green colouration along highly strained component, very strong carbonate component. Relict thin pyroxenitic dyke.		
	205.0 - 205.7	Pervasive Strong Fuchsite	Pervasive Strong Calcite		
205.7 - 214.2	BtS_carb	Fol-mod	Patchy strong sericitization of schist. Strong carbonate component, patches of moderate to strong silicification. Rare bands of carbonate throughout, .5% fracture controlled limonite. Moderate chlorite in weakly sericitized areas.		
	205.7 - 214.2	Patchy Strong Sericitisation	Patchy Moderate Chlorite	Fracture Controlled Weak Clay	
214.2 - 214.6	BtS_carb band	Fol-mod	Thin zone: finely carbonate banded schist, space between bands replaced by sooty pyrite. Approx. 2% sooty py.		
	214.2 - 214.6	Pervasive Strong Calcite			
214.6 - 220.8	BtS_carb	Fol-mod	Chloritized biotite schist interval, common banded carbonate, patchy strong sericite alteration. Thin metabasaltic interval from 218.5-219.4m. Large, non-banded, domainal carbonate at 217.5m.		
	214.6 - 220.8	Patchy Strong Calcite	Pervasive Moderate Chlorite	Fracture Controlled Weak Clay	
220.8 - 225.1	HU	Fol-mod	Unit with intense sericite alteration, no original fabric present. Light green tinge to unit, due to V/Cr within sericite? Patches of .5% sooty pyrite, and .5% limonitic oxidation off of some fractures. Thin areas with moderate clay decomposition along fractures.		
	220.8 - 225.1	Pervasive Intense Sericitisation	Fracture Controlled Weak Clay		
225.1 - 229.6	BtS	Fol-str	Schistose unit with strong sericitization, moderate silica, little to no calcite present. Heavily fracture over beginning of interval, moderate clay, up to 1.5% fracture controlled limonite.		
	225.1 - 229.6	Pervasive Strong Sericitisation	Patchy Moderate Silicification	Fracture Controlled Moderate Clay	
229.6 - 233.1	HU	Fol-str	Zone: up to 2% disseminated sooty pyrite in patches, thin veinlets. Moderate clay along fractures, oxidation (.5% limonite) along fractures. Patches of intense sericitization where no sooty py present. Late thin calcite veining in areas. 20cm rock flour/sooty pyrite matrix breccia at bottom of unit.		
	229.6 - 233.1	Patchy Intense Sericitisation	Fracture Controlled Moderate Clay	Patchy Moderate Silicification	
233.1 - 237.2	BtS	Fol-mod	Strongly clay altered zone shoulder. Thin patches (<2cm) of sooty pyrite veinlets (rare). Clay-chlorite decomposition of schistose host. Heavily fractured over first 3m, becoming slightly more competent further down.		
	233.1 - 237.1	Pervasive Strong Clay	Pervasive Moderate Sericitisation		
	237.1 - 250.0	Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite		
237.2 - 250.0	BtS_carb	Fol-mod	Biotite schist, thin carbonate bands, moderate chlorite after biotite, weak to mod clay along fractures.		

Drill Log: CFD0347

Easting	583127.41	Hole Length	242 m	Prospect	Latte	Drill Started	Sep 26, 2013	Comment
Northing	6973102.8	Azimuth	0 °	Target	Latte Infill	Drill Completed	Sep 28, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1123.07 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb			
3.0 - 43.3	BtS_carb	band	Fol-mod	Biotite schist with carbonate banding. Patches of up to .75% limonite. Moderate to locally strong clay-chlorite alteration of schist. Thin slip of 1% disseminated limonite from 11.5-11.7m. End of unit sees moderate epidote alteration for 2m prior to end.
		3.0 - 43.3	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite Patchy Moderate Epidote
43.3 - 45.3	BtS_carb		Fol-mod	Moderate to strong clay alteration and breakdown of first 1m in interval. 1% disseminated limonite throughout, but pervasive carbonate alteration. Oxidation fades at contact with next unit.
		43.3 - 45.3	Pervasive Strong Calcite	Patchy Moderate Clay Patchy Weak Sericitisation
45.3 - 50.5	BtS_carb	band	Fol-mod	Continuation of beginning schistose unit. Moderate chlorite alteration, and weak to moderate clay replacement of feldspar. Pink-white carbonate bands common (up to 5cm).
		45.3 - 50.5	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay Replaces Felsics Weak Clay
50.5 - 95.2	BtS_carb		Fol-mod	Oxidized biotite schist unit. Strong pervasive carbonate alteration, preserved carbonate bands. Local Ycarb breccias, very immature, sub 10cm. Patch of deep red-purple oxidation from 59.4-59.8m. Patches of moderate to strong pervasive clay alteration. Oxidation varies from up to 2% disseminated limonite down to thin patches of very weak oxidation no greater than 1m in size. Patches of strong sericite replacement.
		50.5 - 95.2	Pervasive Strong Calcite	Patchy Moderate Clay Patchy Strong Sericitisation
95.2 - 104.1	BtS_carb	bx	Fol-mod	Biotite schist, complete oxidation, moderate to strong sericitization. Localized 10cm YO brecciation, ranging from in-situ crackle breccias to a thin YO mature breccia with small (sub .5cm) semi-rounded clasts of host from 100.5-100.7m. Thick white calcite veins crosscut foliation in an open-space, tension-fill fashion. Moderate clay replacement of feldspar porphyroblasts.
		95.2 - 104.1	Pervasive Moderate Sericitisation	Patchy Moderate Calcite Fracture Controlled Moderate Clay
104.1 - 115.2	MsRQM	mylo	Fol-str	Strongly foliated and sericitized unit. Intense patches of sericite alteration, and preserved quartz ribbons. Patchy pale orange oxidation, with unoxidized portions displaying typical grey sericitized rock. Possible thin foliated dacitic dykes in some areas (?), also possible they're just intense areas of alteration and bleaching. Crosscutting thick carbonate veins, locally brecciating host (109.5m). UP to 1% patchy limonite.
		104.1 - 115.2	Pervasive Intense Sericitisation	Pervasive Moderate Silicification
115.2 - 117.9	YO	bx		Interval of intensely altered YO breccia. Brecciation varies in intensity, from clast supported to weakly matrix supported. Dominantly carbonate matrix (white), but moderate silica overprint. Strong sericite, moderate silica, moderate carbonate.
		115.2 - 117.9	Patchy Strong Sericitisation	Patchy Moderate Silicification Replaces Matrix Moderate Calcite
117.9 - 122.4	MsS		Fol-mod	Interval of more schistose rocks. Moderate to strong pervasive sericite, moderate patches of clay alteration. Patch from 121.7-122.2 which is oxidized along fractures and resembles a dacitic dyke, weakly foliated. Common crosscutting thick white carbonate veins at beginning of interval. up to 1.5% disseminated limonite.
		117.9 - 122.4	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay
122.4 - 126.3	YO	bx		YO breccia: crackle breccias grade into limonite-clay matrix supported breccias with fine subrounded clasts of host rock. Breccias are polyphase, with corridors of orange-matrix breccia cutting the deeper red oxidized host rock (crackle). Moderate silica alteration. Strong carbonate component along fractures as late veinlets and coarse white crosscutting/brecciating veinlets.
		122.4 - 126.3	Patchy Moderate Silicification	Patchy Moderate Clay
126.3 - 130.2	MsRQM		Fol-mod	Intense silica-sericite alteration. Random crosscutting carbonate veinlets, blebs of white-brassy pyrite, weak clay along some fractures. High strain.
		126.3 - 130.2	Pervasive Intense Sericitisation	Pervasive Moderate Silicification

130.2 - 136.0	YO	bx	Fol-mod	Intense sericite alteration and moderate to strong pervasive clay alteration through brecciated zone. Polymictic matrix supported (rock flour) brecci with rounded clasts of quartz veins and host rocks. Common sooty sulphide veinlets and concentrations (1%). Localized breakdown due to strong white clay alteration.		
		130.2 - 136.0	Pervasive	Strong Sericitisation	Patchy Strong Clay	
136.0 - 140.3	HU		Fol-mod	Strong white-clay and sericite alteration of unrecognizable host. Complete breakdown and fracturing through most of the unit. Some competent pieces of core show YO brecciation. Bottom 1m of unit has green Cr/V tinge, purple hematite replacement (.15%). Rare thin veinlets of sooty pyrite along strong foliation at bottom of unit		
		136.0 - 140.3	Pervasive	Strong Clay	Pervasive Strong Sericitisation	
140.3 - 142.9	HU		Fol-mod	Zone: up to 2% disseminations of sooty pyrite along foliation of relict schistose unit. Foliation and relict feldspar porphyroblasts visible in some patches. Strong patches of clay, thin sooty sulphide veinlets.		
		140.3 - 142.9	Patchy	Strong Clay	Pervasive Strong Sericitisation	
142.9 - 146.4	HU		Fol-mod	Intense silica-sericite alteration, occasional patches of relict foliation. .5% thin sooty sulphide veinlets, cutting at random orientations.		
		142.9 - 146.4	Pervasive	Intense Sericitisation	Pervasive Strong Silicification	Pervasive Moderate Clay
146.4 - 148.7	HU		Fol-mod	Zone: intense silica-sericite alteration, up to 2% patchy sooty pyrite. Large concentration from 148-148.6m within a PyF-style area. Hard contact with bottom of unit, no workable ori. Contact is approx. 45 degrees TCA, could be estimated from structure in above units.		
		146.4 - 148.7	Pervasive	Intense Sericitisation	Pervasive Strong Silicification	Pervasive Moderate Clay
148.7 - 150.0	BtS		Fol-str	Zone: abrupt end to previous PyF/HU zone leading into silicified and oxidized schistose rock. Weak breccia textures wit limonite-clay infill, patcy strong disseminations of unoxidized sooty pyrite (1.5% patchy). Fold nose visible at 149.2m, no orientation available.		
		148.7 - 150.0	Pervasive	Moderate Sericitisation	Pervasive Moderate Clay	Pervasive Moderate Silicification
150.0 - 155.3	BtS		Fol-mod	Oxidized biotite schist, heavily fractured and moderate clay along fractures. Milky quartz vein at 153m with opaque cream-white quartz vein/silicification zone. .5% disseminated limonite throughtout, as well as clay replacement of feldspars.		
		150.0 - 155.3	Patchy	Moderate Silicification	Replaces Felsics Moderate Clay	
155.3 - 155.6	BtS		Fol-mod	Thin zone: 2% disseminated sooty pyrite in thin patch. Leading into zone, unoxidized rock is strongly sericitized, then becomes sulphidized along foliation, then sulphide fades and oxidation takes over on other shoulder. Thin sooty veinlets crosscut zone.		
		155.3 - 155.6	Pervasive	Moderate Sericitisation	Pervasive Moderate Silicification	
155.6 - 164.4	BtS		Fol-mod	Biotite schist, patchy oxidation. .5% patches of hematite in areas without limonite oxidation, moderate clay replacement of feldspars. Becomes heavily fractured towards bottom of unit.		
		155.6 - 164.4	Replaces	Felsics Moderate Clay	Pervasive Moderate Sericitisation	
164.4 - 167.5	BtS		Fol-mod	Zone: 2% disseminated sooty pyrite through schistose foliation. Moderate oxidation at beginnning of zone, leading to fracture controlled limonite in bulk. Fractured at beginning of unit, becoming more competent in sulphide-rich zones.		
		164.4 - 167.5	Pervasive	Moderate Silicification	Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation
167.5 - 171.0	BtS		Fol-mod	Zone shoulder, oxidized biotite schist, oxidation fades at 170m to reveal strong sericitization which weakens at end of unit. Moderate fracture controleld clay, up to .75% disseminated limonite.		
		167.5 - 171.0	Replaces	Felsics Moderate Clay	Patchy Strong Sericitisation	
171.0 - 193.4	BtS		Fol-mod	Biotite schist, carbonate throughtout foliation and in foliation parallel bands. Patches of strong epidote, localized bands of moderate sericite, including sericitization haloes around thin qtz-carbonate veins. Patc of purple-red hematite from 186.5-188.5, corresponding with increase in epidote.		
		171.0 - 193.4	Vein Selvedge	Moderate Sericitisation	Patchy Strong Epidote	
193.4 - 194.9	BtS_carb		Fol-mod	Zone: begins with moderate clay alteration along foliation parallel fractures (shear-like) followed by strong sericitization until 193.9m. Strong disseminated sooty pyrite from 193.9-194.6m (2.5% disseminated) with moderate clay along a single bright orange oxidized fracture, followed by pervasive carbonate. Fine sooty pyrite veinlets cutting disseminated mineralization, as well as blebs of brassy pyrite along foliation, unoxidized, non-mineral phase. Strong white carbonate appears to brecciate a relict quartz vein in th mineralized zone, and abundant sooty pyrite concentrated in veinlets cuts the carbonate rich part, occasionally concentrating along the old qtz vein margin. Sulphide fades out to thin veinlets cutting strongly sericitized host to end of unit.		
		193.4 - 193.9	Pervasive	Strong Sericitisation		
		193.9 - 194.6	Pervasive	Strong Calcite	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay
		194.6 - 194.9	Pervasive	Strong Sericitisation		
194.9 - 199.9	BtS_carb		Fol-mod	Patces and bands of strong epidote alteration, coarse pyrite aggregates along foliation 1% (metamorphic pyrite). Patches of strong calcite influx.		
		194.9 - 199.9	Patchy	Strong Epidote	Pervasive Strong Calcite	

199.9 - 202.0	MsRQM	Fol-str	Strong sericite replacement and sense of shearing. Local areas with preserved biotite along foliation, broken and oxidized from 200.7-201.6m, up to .75% limonite along fractures. Local bands of carbonate preserved, common foliation parallel quartz veins exhibiting strain.		
	199.9 - 202.0	Pervasive	Strong Sericitisation	Pervasive Moderate Calcite	
202.0 - 231.9	BtS_carb	Fol-mod	Biotite schist, common carbonate bands, areas of strong retrogression (increase in epidote, chlorite alteration along foliation). Local thin shear zones with strong chlorite and calcite alteration. Trace fracture controlled limonite, common disseminated brassy metamorphic pyrite (1%). Local thin intervals of metabasalt present, amphibole dominant.		
	202.0 - 231.9	Patchy	Strong Epidote	Patchy Strong Chlorite	Pervasive Moderate Calcite
231.9 - 234.0	PB		Thick interval of marble. Strong concentrations of calcite in surrounding rocks, banding within marble visible.		
234.0 - 242.0	BtS_carb	Fol-mod	Very chloritic biotite schist. Common carbonate banding, including two 40cm thick white marble bands. Lower portion of unit moderately fractured and strongly clay altered.		
	234.0 - 242.0	Patchy	Strong Epidote	Patchy Strong Clay	Pervasive Strong Chlorite

Drill Log: CFD0348

Easting	583177.65	Hole Length	272 m	Prospect	Latte	Drill Started	Sep 28, 2013	Comment
Northing	6973126.29	Azimuth	0 °	Target	Latte Infill	Drill Completed	Sep 30, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	Ebuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1122.31 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 33.2	BtS_carb		Fol-mod	Biotite schist, carbonate bands up to 70cm wide. Moderate patches of clay-chlorite alteration of biotite, patchy oxidation (.5% lim). Pervasive carbonate. Oxidation increases over last 2.5m of interval.
		6.0 - 33.2	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay Pervasive Moderate Calcite
33.2 - 33.5	Ycarb	bx		Thin Ycarb breccia, pervasive Fe-carbonate, angular clasts of oxidized wallrock within. 1.5% disseminated limonite.
		33.2 - 33.5	Pervasive Strong Calcite	Pervasive Weak Clay
33.5 - 38.8	BtS_carb		Fol-mod	Oxidized biotite schist, pervasive calcite, weak clay along fracture planes.
		33.5 - 38.8	Pervasive Moderate Calcite	Fracture Controlled Weak Clay
38.8 - 50.4	BtS_carb		Fol-mod	Biotite schist, carbonate veining and along foliation, patches of clay decomposition and fracturing. .25% fracture controlled limonite.
		38.8 - 50.4	Fracture Controlled Moderate Clay	Replaces Mafics Weak Chlorite
50.4 - 66.9	BtS_carb		Fol-mod	Oxidized biotite schist. Thick bands of carbonate at beginning of interval up to 70cm in width. Coarse white mica throughout foliation, local crackle breccia textures, offset in foliation. Strong pervasive carbonate along foliation, as well as Fe-carb veinlets and vein-breccias cutting foliation. Up to 1% disseminated limonite.
		50.4 - 66.9	Pervasive Strong Calcite	Fracture Controlled Weak Clay Patchy Strong Sericitisation
66.9 - 68.5	Ycarb	bx		Polybrecciated interval. Dominantly Ycarb breccias, pervasive carbonate throughout interval with thin local changes in colour of oxidation to a pale bleached looking orange. Pale areas have unoxidized portions revealing fine grey matrix supporting subrounded clasts, with patches of possible sooty sulphide (?).
		66.9 - 68.5	Pervasive Weak Clay	Pervasive Strong Calcite
68.5 - 68.7	YO	bx		Thin mineralized breccia. As ~2000ppm. Hard contacts with YO-orange matrix breccia on up-hole contact and oxidized schistose rock/Ycarb breccia on lower contact. Clasts are large, oxidized, angular. Matrix is fine and oxidized to red hematite, no carbonate within interval. Later fractures and thin veinlets of calcite along breccia margin.
		68.5 - 68.7	Fracture Controlled Weak Clay	
68.7 - 77.0	Ylim	bx		Polybrecciated interval of breccia with carbonate-rich areas and carbonate-absent areas. Fe-carb makes up most of unit, however patches are weakly silicified and contain no carbonate. Windows of unoxidized rock reveal areas with pervasive carbonate within the matrix, and areas without, in addition to strong sericitization masked by oxidation. A late, coarse, white carbonate phase brecciates some areas. At 72m, a thin mostly unoxidized breccia (3cm wide) contains strong disseminations of sulphide in the matrix, and brecciates mostly unoxidized (?) clasts of wallrock, while rock on each side is oxidized. Matrix runs ~4500ppm As, wallrock <200ppm. This breccia shares the same orientation as the previous mineralized breccia at 68.5m.
		68.7 - 77.0	Patchy Strong Sericitisation	Patchy Moderate Silicification Patchy Strong Calcite
77.0 - 92.8	Ycarb	bx		Interval of mostly Fe-carb breccia. Local sub 50cm thick areas of moderate silicification and unoxidized rock, revealing strong sericite alteration and rare sooty pyrite. Latest brecciation appears to be coarse white carbonate phase. Breccia maturity varies from large, slightly rotated clasts with preserved foliation, to matrix-supported breccias with a fine rock-flour matrix and subangular clasts of varying size. Heavily altered interval.
		77.0 - 92.8	Pervasive Strong Calcite	Patchy Moderate Sericitisation Patchy Moderate Silicification
92.8 - 93.6	YO	bx		Unoxidized YO breccia, polymictic, clasts are strongly sericitized, subangular to subrounded, fine grained rock flour matrix. Lower contact is strongly clay altered and merges with foliation of host rock.
		92.8 - 93.6	Replaces Matrix Weak Clay	Replaces Clasts Strong Sericitisation

93.6 - 99.4	BtS			Silicified and fractured schistose interval, moderate clay along fractures, moderate sericite, last 1.5m strong sericite and en-echelon fractures infilled with coarse white carbonate. Unit ends with moderate clay alteration along a dyke contact. Fine Sooty sulphides present in last 1.5m.f
93.6 - 99.4		Patchy Moderate Silicification	Patchy Strong Sericitisation	Fracture Controlled Moderate Clay
99.4 - 113.4	FC	fgrn		Zone: heavily fractured dacite dyke. Fine disseminated sooty pyrite (.5%) and in veinlets (.5%) throughout, oxidized along fractures. Local YO immature brecciation with clay-limonite matrix. Strong patchy sericite alteration, silicification throughout.
99.4 - 113.4		Patchy Moderate Silicification	Patchy Strong Sericitisation	Fracture Controlled Moderate Clay
113.4 - 126.1	FC	fgrn		Silicified and fractured dacite dyke. Moderate clay along fractures, rare thin sooty sulphide veinlets (?). Moderate sericite throughout. Weak oxidation off of fractures
113.4 - 126.1		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay
126.1 - 149.5	FC	fgrn		Zone: Strongly silicified dacite dyke. Patchy disseminations of sooty pyrite, 2%, dark red oxidation bleeding off of frctures, weak fracture controleld clay. Up to 2.5% disseminated sooty py at bottom of interval.
126.1 - 149.5		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay
149.5 - 162.5	FC	fgrn		Silicified felsic dyke, fractured, thin sooty pyrite veinlets throughout (.75%) as well as faded patches of .5% disseminations. .5% fracture controlled limonite.
149.5 - 162.5		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay
162.5 - 163.8	BtS	Fol-str		Thin interval of strongly silicified and sericitized biotite schist with intense disseminated sooty sulphide along foliation (3%). Surrounding dyke also has up to 1% disseminated sooty pyrite adjacent to schist. Very good evidence for lithological permeability: schist accomdated large amount of fluid that couldn't pass through dyke as well.
162.5 - 163.8		Pervasive Strong Sericitisation	Pervasive Moderate Clay	
163.8 - 172.3	FC	fgrn		Heavily fractured felsic dyke, 1% sooty pyrite along fractures through dyke. Silicified and sericitized. Lower contact is sharp with sericitized schist.
163.8 - 172.3		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
172.3 - 172.9	BtS	Fol-str		Strongly sericitized biotite schist. Strong carbonate veining and patches of pervasive carbonate.
172.3 - 172.9		Pervasive Strong Sericitisation	Pervasive Moderate Calcite	
172.9 - 177.7	IV	cgrn		Coarse grained mafic dyke. Moderate sericite alteration coming off a common fracture plane, moderate silica.
172.9 - 177.7		Fracture Controlled Moderate Sericitisation	Fracture Controlled Moderate Clay	
177.7 - 189.4	IV	cgrn		Zone: strong disseminations of sooty pyrite, with localized 10cm brecciation with sulphide matrix. Patches of up to 2.5% disseminated sooty py. Also concentrations of sooty pyrite along common fracture set. Hematitic fracture controlled oxidation begins at 185.5m, increasing to near complete oxidation at 187.4m. Lower contact with schist visible but no orientation possible.
177.7 - 189.4		Patchy Moderate Sericitisation	Patchy Moderate Calcite	Fracture Controlled Weak Clay
189.4 - 191.5	BtS			Zone: heavily fractured schist, continuation of previous zone. Strong patchy clay leading to breakdown of rock. Up to 2% disseminated hematite after sooty sulphide, strong sericite.
189.4 - 191.5		Patchy Strong Sericitisation	Patchy Strong Clay	
191.5 - 201.4	BtS_carb	Fol-str		unit begins wit moderately to strongly clay altered schist, .5% disseminated limonite to 194. Strong sericite alteration of schist below and .5% hematite bleeding in off fractures.
191.5 - 201.4		Pervasive Strong Sericitisation	Patchy Moderate Clay	
201.4 - 206.0	BtS_carb	Fol-str		Strongly chlorite-epidote altered biotite schist. Common crosscutting calcite veining, moderate fracture controlled clay. Unit ends in chlorite-rich shear/clay zone.
201.4 - 206.0		Patchy Strong Epidote	Pervasive Strong Chlorite	Pervasive Moderate Calcite
206.0 - 208.8	BtS_carb	Fol-str		Thin patch of strongly sericitized biotite schist, oxidized to .75% fracture controlled limonite throughout. Weack clay along fractures.
206.0 - 208.8		Patchy Strong Sericitisation	Fracture Controlled Weak Clay	
208.8 - 219.4	BtS_carb	Fol-mod		Biotite schist, moderate to strong chlorite after biotite, common carbonate bands parallel to foliation. .5% fracture controlled purple hematite.
208.8 - 219.4		Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	
219.4 - 221.3	BtS_carb	Fol-wk		Strong sericite-silica alteration of schist, biotite completely replaced by sericite. Rubble after 220.5m. Pale .5% limonitic oxidation.
219.4 - 221.3		Pervasive Strong Sericitisation	Pervasive Strong Silicification	

221.3 - 226.6	BtS_carb	Fol-mod	Strong chloritization of biotite schist,patces of strong clay alteration leading to complete breakdown of rock. Patchy .75% hematite. Strong sericite alteration in patches.		
	221.3 - 226.6	Replaces Mafics Strong Chlorite	Patchy Strong Sericitisation		
226.6 - 228.2	BtS_carb	Fol-str	Biotite schist with strong sericite, and patches of clay alteration. Strong deformation including kink folding at 226.8m. Up to 1% disseminated hematite over first 1m, followed by unoxidized grey clay.		
	226.6 - 228.2	Patchy Strong Sericitisation	Patchy Strong Clay		
228.2 - 251.6	BtS_carb	Fol-mod	Biotite schist, rare carbonate bands. Moderate sericite througout, weak fracture controlled clay. Thin (20cm) patches of strong sericite.		
	228.2 - 251.6	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay		
251.6 - 255.0	BtS_carb	Fol-mod	Biotite schist with carbonate, strong pervasive sericite and moderate clay replacement leading to bleaching.		
	251.6 - 255.0	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay		
255.0 - 257.7	BtS_carb	Fol-str	Biotite schist, strong calcite veining, moderate to strong sense of shearing leading into strongly cloritized contact with retrogressed MBSLT.moderate chlorite throughout.		
	255.0 - 257.5	Pervasive Strong Calcite	Replaces Mafics Moderate Chlorite		
257.7 - 272.0	MBSLT	Fol-mod	Lower metabasalt panel, strong clay-chlorite-epidote retrogression from 257.7-265m. Pervasive carbonate throughout interval. Coarse UX texture at lower portion of unit visible. 1% disseminated brassy py.		
	257.7 - 265.0	Pervasive Strong Chlorite	Pervasive Strong Epidote	Patchy Strong Clay	
	265.0 - 272.0	Pervasive Strong Calcite	Patchy Moderate Clay		

Drill Log: CFD0349

Easting	583201.37	Hole Length	254 m	Prospect	Latte	Drill Started	Sep 30, 2013	Comment
Northing	6973108.16	Azimuth	0 °	Target	Latte Infill	Drill Completed	Oct 03, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1124.67 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 38.1	BtS_carb	band	Fol-mod	Biotite schist, common bands of carbonate. Moderate to strong clay alteration and breakdown in areas.
6.0 - 38.1		Patchy Strong Clay		Replaces Mafics Moderate Calcite
38.1 - 39.6	BtS_carb		Fol-mod	Strongly carbonate rich biotite schist. Anomalous As at 39m: blebs of arsenian pyrite along foliation, deep red oxidation in small patches within carbonate. Seems confined to thin area. 1% limonite, .5% arsenian pyrite.
38.1 - 39.6		Pervasive Strong Calcite		
39.6 - 59.3	BtS_carb		Fol-mod	Biotite schist, moderate to strong clay alteration in some patches, weak to moderate chlorite. Up to .5% limonite in patches, disseminated.
39.6 - 59.3		Replaces Mafics Moderate Chlorite		Patchy Strong Clay
59.3 - 82.6	BtS_carb		Fol-mod	Oxidized biotite schist. Bands of pink-white marble common up to 60cm. Moderate patchy clay. Crosscutting coarse white carbonate veins, vuggy in places. Up to 1.5% disseminated limonite.
59.3 - 82.6		Patchy Moderate Clay		Pervasive Moderate Sericitisation
82.6 - 93.1	BtS_carb		Fol-mod	Oxidized schist, muscovite-carbonate. Rare marble bands. Up to 1% disseminated limonite throughout (Fe-carb?). Coarse bands of pyrite/cpy(?) up to 20cm thick at: 86.45m, 91-91.2m. Pure sulphide, oxidized deep red in patches. Unit is cut by black veinlets of chalcedonic qtz.
82.6 - 93.1		Pervasive Moderate Calcite		Pervasive Moderate Sericitisation
93.1 - 109.5	Ycarb	bx		Brecciated interval. Two styles, brecciating oxidized schist. Ylim breccias (10cm) with limonite-silica-rock flour matrix cut schist fabric and entrain angular clasts of schist. Late coarse white carbonate breccia overprints entire unit. Angular clasts. Patchy oxidation throughout, up to 1%. Moderate patchy sericite.
93.1 - 109.5		Patchy Moderate Sericitisation		Pervasive Strong Calcite
109.5 - 114.6	YO	bx		YO breccia, clast supported until 112.9m, where breccia becomes matrix supported. Clasts grade from angular to sub-angular, becoming more rounded until lower portion of breccia from 112.9-end of unit, where clasts are near-rounded. Oxidation cuts out at 113.9m, exposing a silica-rock flour matrix to the breccia. Hard lower contact with schist with disseminated sooty sulphide. Late carbonate along fractures.
109.5 - 114.6		Pervasive Moderate Silicification		Moderate Calcite
114.6 - 120.5	BtS		Fol-str	Zone: Strong sericite, silica alteration of schistose unit. Moderate pervasive carbonate. Patches of 2.5% disseminated sooty pyrite from 114.6-114.8m, 117.8-118.1m, 118.95-119.3m, 119.9-120.3m. Intermixed with strong sericite alteration. Lower contact with dyke oxidized and obscured.
114.6 - 120.5		Patchy Strong Sericitisation		Patchy Moderate Calcite
120.5 - 134.0	FC	fgrn		Dacite dyke, patches of weakly disseminated sooty sulphide (.5%), strongly fractured, weak frac cont clay. Patchily oxidized, .5% limonite.
120.5 - 134.0		Pervasive Strong Silicification		Pervasive Moderate Sericitisation Fracture Controlled Weak Clay
134.0 - 137.2	BtS_carb			Biotite schist with carbonate along foliation, moderate chlorite, patches of strong sericite. Common late carbonate veinlets crosscutting. Well defined lower contact with hFC dyke.
134.0 - 137.2		Patchy Strong Sericitisation		Replaces Mafics Moderate Calcite
137.2 - 141.6	FC	fgrn		Fractured dacite dyke. Thin fracture sets infilled by hematite, tightly spaced from top of unit to 138.7m, with thin patch at 140.4m.
137.2 - 141.6		Pervasive Moderate Silicification		Pervasive Moderate Sericitisation

141.6 - 144.3	BtS_carb	Fol-mod	Moderate to strong chlorite replacement of biotite through schist. Possible thin interval of MBSLT within, but could also be strongly chloritized interval. Moderate calcite wispy veinlets, sharp lower contact with dyke. Patchy epidote, up to 2cm thick bands of marble.		
	141.6 - 144.3	Patchy Strong Epidote	Pervasive Strong Chlorite		
144.3 - 145.7	FC	fgrn	Weakly fractured dacite dyke, silicified. Planar fracture series through middle, same hematite along fractures.		
	144.3 - 145.7	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		
145.7 - 149.0	BtS_carb	Fol-mod	Partly oxidized biotite schist, strong patchy sericite, up to .75% fracture controlled limonite, moderate patchy clay alteration and replacement of feldspars.		
	145.7 - 149.0	Patchy Moderate Clay	Replaces Mafics Moderate Chlorite		
149.0 - 151.2	FC	fgrn	Fractured felsic dyke, up to .5% limonite and weak clay along fractures, fine disseminations of sooty pyrite throughout, up to .25%.		
	149.0 - 151.2	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		
151.2 - 153.7	IV	cgrn	Oxidized andesitic dyke. Coarse feldspars being sericitized and clay replaced, heavily fractured throughout. Up to 1.5% disseminated limonite and patches of .5% hematite.		
	151.2 - 153.7	Fracture Controlled Moderate Clay	Patchy Moderate Sericitisation		
153.7 - 158.8	FC	fgrn	Mineralized dacite dyke. Up to 1% disseminated sooty pyrite, patches of hematitic oxidation along fractures. Thin interval of biotite schist from 158.2-158.8m.		
	153.7 - 158.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay	
158.8 - 167.0	IV	cgrn	Coarse grained andesite. Patches of sericitic alteration along carbonate veinlets, moderate sericite alteration of feldspar phenocrysts, up to .75% fc limonite. Patches of up to .75% disseminated sooty pyrite (161.3m, 166.5m)		
	158.8 - 167.0	Patchy Moderate Sericitisation	Fracture Controlled Weak Clay		
167.0 - 179.5	IV	cgrn	Coarse grained andesite, same dyke as previous unit but with patches of strong sericite alteration. Strong disseminated sooty pyrite from 167.5-166.5 (2.5%) and 176-179m (1.5%). Moderate clay along some fractures, .75% deep red hematitic oxidation bleeding off of fractures.		
	167.0 - 179.5	Patchy Strong Sericitisation	Fracture Controlled Moderate Clay		
179.5 - 193.7	IV	cgrn	Coarse grained andesite, moderate sericitization off of qtz-calcite veinlets bleeding into host. Common qtz-calcite-illite/sericite veinlets crosscutting dyke. Up to .5% fracture controlled limonite. Moderate to strong pervasive sericite bleaching beginning at 192.4m to end of unit (contact with FC).		
	179.5 - 193.7	Vein Seldedge Moderate Sericitisation	Pervasive Moderate Silicification		
193.7 - 200.2	FC	fgrn	Dacite dyke, strong silica-sericite alteration and 1.5% veinlets of sooty pyrite infilling common fracture sets. Weak clay along fractures with sooty py, up to .25% fracture controlled hematite after pyrite.		
	193.7 - 200.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay	
200.2 - 203.4	BtS_carb band	Fol-str	Strongly foliated biotite schist with carbonate bands. Strong chlorite after biotite, patchy strong sericite throughout.		
	200.2 - 203.4	Replaces Mafics Strong Chlorite	Patchy Strong Sericitisation		
203.4 - 206.6	BtS_carb band	Fol-str	Zone: strong disseminations of sooty pyrite concentrated between carbonate bands (after biotite), 2.5%. Fades to strong/intense sericite alteration at 204.6m, Unoxidized. Interval from 204.6-206.1 with intense sericite-silica alteration. Fractured, and with 1% hematite along fractures and patches of sooty pyrite. Unit ends with 2.5% disseminated sooty pyrite and strong sericite alteration.		
	203.4 - 206.6	Patchy Intense Sericitisation	Fracture Controlled Weak Clay	Patchy Strong Silicification	
206.6 - 212.4	HU		Intense sericite alteration and moderate fracture controlled clay alteration. 1% fracture controlled limonite, thin local YO brecciation at 210.15m.		
	206.6 - 212.4	Pervasive Intense Sericitisation	Pervasive Strong Silicification	Fracture Controlled Moderate Clay	
212.4 - 230.0	BtS_carb	Fol-str	Strong chlorite and moderate epidote alteration of biotite schist with carbonate bands. Local strong clay alteration leading to breakdown of rock. Strong sericite at bottom of unit, in addition to greater carbonate content and patches of 1.5% disseminated hematite.		
	212.4 - 230.0	Replaces Mafics Strong Chlorite	Patchy Strong Epidote	Patchy Strong Sericitisation	
230.0 - 238.9	BtS_carb		Strong sericite in patches, moderate silicification, and .5% fracture controlled limonite with .5% disseminated limonite at beginning of interval.		
	230.0 - 238.9	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay	Patchy Strong Chlorite	
238.9 - 240.0	FC	fgrn	Fine grained dacite dyke .5% disseminated limonite, moderate fracture controlled clay.		
	238.9 - 240.0	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation	

240.0 - 254.0	BtS	Fol-mod	Dark qtz-biotite schist. Local strong clay-chlorite alteration leading to breakdown, no carbonate banding present. Moderate silicification.		
	240.0 - 254.0	Patchy Strong Chlorite	Patchy Strong Clay	Pervasive Moderate Silicification	

Drill Log: CFD0350

Easting	583227.75	Hole Length	230 m	Prospect	Latte	Drill Started	Oct 02, 2013	Comment
Northing	6973121.24	Azimuth	0 °	Target	Latte Infill	Drill Completed	Oct 03, 2013	
Projection	UTM7-NAD83	Dip	-65 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1122.74 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVB			
4.0 - 58.7	BtS_carb		Fol-mod	Biotite schist, common marble bands up to 40cm in thickness, moderate chlorite-clay alteration throughout. Some fractures strongly clay altered leading to rubble. Patches of .75% disseminated limonite, single Ycarb breccia cutting marble band at 25.9m (~250ppm As).
		4.0 - 58.7	Replaces Mafics Moderate Chlorite	Patchy Strong Clay
58.7 - 75.3	BtS_carb			Oxidized biotite schist with pervasive carbonate. Strong banding and Fe-carb throughout. Thin dark green IV from 66.85-67.2m, Limonite along fractures. Up to 1.5% disseminated limonite throughout. Moderate clay along some fractures.
		58.7 - 75.3	Pervasive Strong Calcite	Fracture Controlled Moderate Clay Pervasive Moderate Sericitisation
75.3 - 82.5	Ycarb	bx		Fe-carb breccia interval. Varies from matrix supported to immature crackle breccia textures. Pervasive Fe-carb, later overprint by coarse white calcite veins which locally brecciate. 2% disseminated limonite, .25% patches of purple-red hematite, does not run As.
		75.3 - 82.5	Pervasive Strong Calcite	Pervasive Moderate Clay
82.5 - 89.1	YO	bx		Polyphase YO breccia. Oxidized from beginning of unit to 85m, reveals strong sericite-sooty-pyrite matrix overprinted by weak oxidation. Second phase (?) sees influx of dark, metallic, >3000 ppm As matrix in a breccia cutting the rock flour breccia. This sulphide appears to be related to carbonate, as there is a white-calcite breccia phase which appears late in infills and re-brecciates the interval. Unit ends abruptly in strong clay altered zone.
		82.5 - 89.1	Pervasive Strong Silicification	Patchy Strong Calcite Pervasive Strong Sericitisation
89.1 - 94.7	HU	silc		Strongly sericitized and silicified interval. Moderate pervasive clay. Patches of 1% disseminated sooty pyrite.
		89.1 - 94.7	Pervasive Strong Silicification	Pervasive Strong Sericitisation Pervasive Moderate Clay
94.7 - 95.5	HU			Strong pervasive clay, strong sericite, 2% disseminated sooty pyrite. Unit ends in hard contact 45 degrees TCA with sericitized schist.
		94.7 - 95.5	Pervasive Strong Clay	Pervasive Strong Sericitisation
95.5 - 100.7	MsS		Fol-str	Strongly sericitized schist: thin patches (up to 30cm) of 1.5% disseminated sooty pyrite, .5% veinlets. Moderate clay along some fractures.
		95.5 - 100.7	Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
100.7 - 117.6	MsS		Fol-str	Strongly sericitized schist. Weak clay along fractures and .5% fc limonite. Local breakdown due to clay, weak patches of .25% purple hematite.
		100.7 - 117.6	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay
117.6 - 137.8	BtS_carb		Fol-str	Biotite schist, two oxidized patches from 123-125.3m and 128.5-129.4m with 1% disseminated limonite. Pervasive carbonate, patchy strong chlorite. Strong epidote appears from 130m to end of unit in addition to moderate silicification.
		117.6 - 137.8	Replaces Mafics Strong Chlorite	Patchy Strong Epidote Fracture Controlled Moderate Clay
137.8 - 141.3	BtS_carb		Fol-str	Zone: patchy disseminations of 3% sooty sulphide through schist. Complete replacement to sulphide. Inter-zonal areas are strongly sericitized and moderately silicified. Moderate clay along some fractures. Marble band seems to concentrate sulphide in one area (impermeable?).
		137.8 - 141.3	Patchy Strong Sericitisation	Fracture Controlled Moderate Clay
141.3 - 159.5	BtS_carb		Fol-str	Biotite schist with marble banding. Thin patches of moderate to strong sericite. Patches of coarse feldspar porphyroblasts within schist. Common late white calcite veining.
		141.3 - 159.5	Patchy Moderate Sericitisation	Fracture Controlled Moderate Clay

159.5 - 161.0	BtS_carb	Fol-mod	Zone: strongly sulphidized biotite schist. 2.5% disseminated sooty pyrite along foliation, 1cm rough opaque white qtz vein cutting fabric. Moderate pervasive clay and sericite.		
	159.5 - 161.0	Pervasive Moderate Clay	Pervasive Moderate Sericitisation		
161.0 - 163.7	MsS	Fol-str	Strongly sericitized interval, trace sooty pyrite along foliation, weak fracture controlled hematitic oxidation.		
	161.0 - 163.7	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay		
163.7 - 171.0	BtS_carb	Fol-mod	Biotite schist, strong disseminated sooty pyrite in patches, 2%, strong sericite and moderate clay. Sulphide content drops from 168.7-171m. 40cm ultramafic dyke, at bottom of unit, accomodates intense shearing and internal folding. Sharp contact with next unit.		
	163.8 - 171.0	Patchy Strong Sericitisation	Pervasive Moderate Clay		
171.0 - 177.7	FC	fgrn	Felsic dyke, up to 2.5% disseminated sooty pyrite, weak fracture controlled clay. Moderate pervasive sericite, silicification. Local breccias with qtz-carbonate matrix, angular clasts of dyke.		
	171.0 - 177.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
177.7 - 181.5	BtS_carb	Fol-str	Pervasive calcite through biotite schist, moderate sericite, opaque white foln parallel qtz veins. Moderate chlorite.		
	177.7 - 181.5	Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite	Pervasive Moderate Sericitisation	
181.5 - 183.6	FC	fgrn	Silicified dacite dyke, upper contact with schist nearly parallel TCA but obscured by alteration. Moderate to strong sericite increasing in intensity to bottom of unit. .5% disseminated sooty pyrite at 183m, building to 1% at lower contact. Pervasive calcite.		
	181.5 - 183.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Pervasive Moderate Calcite	
183.6 - 185.3	BtS_carb	Fol-str	Sulpidized biotite schist, dyke infringes on unit occasionally but no orientation available. 2.5% dissemianted sooty pyrite, pitted Fe-carbonate along schist foliation in mineralized areas, moderate to strong sericite.		
	183.6 - 185.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
185.3 - 191.7	BtS_carb	Fol-str	Strong chlorite alteration of mafic schist, pervasive calcite and late calcite veinlets cutting foliation. Trace fracture controlled limonite.		
	185.3 - 191.7	Replaces Mafics Strong Chlorite	Pervasive Moderate Calcite	Pervasive Moderate Sericitisation	
191.7 - 194.2	RU	Fol-str	Thin ultramafic dyke from start of unit to 192.3m. Coarse Mt grains, strong talc-clay alteration, late carbonate. Additional thin patch from 193.2-193.5m. In between, strongly chloritized biotite schist.		
	191.7 - 194.2	Pervasive Moderate Calcite	Pervasive Strong Talc	Pervasive Strong Chlorite	
194.2 - 201.8	BtS	Fol-str	Zone: strong sericite-silica shoulder until 195.5m, leading into strong silica-sericite-pyrite zone. 2% disseminated sooty pyrite, also in veinlets, in addition to intense semi-massive concentrations of arsenian pyrite along strained foliation, up to 3cm in width. Unoxidized. Veinlets of sooty sulphide crosscut foliation-controlled sooty pyrite. Zone decreases in intensity from 197.9m to end of unit, with spike in pyrite concentration abruptly at 199m.		
	194.2 - 201.8	Pervasive Strong Sericitisation	Pervasive Strong Silicification	Fracture Controlled Moderate Clay	
201.8 - 211.5	IV	cgrn	Start to unit is variably strongly sericitized, grading into coarse grained black andesite dyke. Common open-space qtz-calcite veins with houndstooth calcite within.		
	201.8 - 206.2	Patchy Strong Sericitisation	Pervasive Moderate Silicification		
	206.2 - 222.0	Patchy Strong Sericitisation	Pervasive Moderate Calcite	Pervasive Moderate Silicification	
211.5 - 222.0	IV	cgrn	Patchy strong disseminated sooty sulphide mineralization of andesite dyke. Strong areas of sericite alteration bleaching the dyke and overprinting igneous textures, leading into strong sooty pyrite (2.5%). Moderate pervasive calcite.		
222.0 - 223.5	BtS	Fol-str	Complete sulphide replacement of biotite schist. 3% disseminated sooty py, moderate to strong pervasive clay alteration.		
	222.0 - 223.5	Pervasive Strong Clay	Pervasive Moderate Sericitisation		
223.5 - 230.0	BtS_carb	Fol-str	Moderate sericite, strong patchy clay, and moderate to strong chlorite alteration of biotite schist. Heavily fractured. Rare thin concentrations of sooty py (.5%)		
	223.5 - 230.0	Pervasive Moderate Sericitisation	Patchy Strong Clay	Replaces Mafics Strong Chlorite	

Drill Log: CFD0351

Easting	583275.91	Hole Length	200 m	Prospect	Latte	Drill Started	Oct 03, 2013	Comment	Piezometer # 4 installed.
Northing	6973111.66	Azimuth	0 °	Target	Latte Infill	Drill Completed	Oct 05, 2013		
Projection	UTM7-NAD83	Dip	-65 °	Geologist	EBuitenhuis	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1120.49 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
		4.0 - 31.6	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite
6.0 - 31.6	BtS_carb	Fol-mod		Biotite schist, common marble banding, moderate to strong pervasive clay leading to breakdown of core in areas. Moderate patchy chlorite. Locally up to 1% limonite/Fe-carb.
31.6 - 33.4	FC	fgrn		Dacite dyke, patch of 1% disseminated limonite with Liesegang banding at 33m, moderate pervasive clay alteration.
		31.6 - 33.4	Pervasive Moderate Clay	
33.4 - 68.1	BtS_carb	Fol-mod		Biotite schist, common marble bands, weak clay along fractures up to moderate in some areas. Moderate chlorite.
		33.4 - 68.1	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
68.1 - 79.7	BtS_carb	Fol-mod		Oxidized biotite schist, pervasive Fe-carbonate, late white calcite veinlets crosscutting and occasionally brecciating host. Rare Ylim breccia intervals with low levels of carbonate. Moderate pervasive sericite grading to strong at bottom of interval. Moderate fc clay.
		68.1 - 79.7	Fracture Controlled Moderate Clay	Pervasive Strong Fe-carb Pervasive Moderate Sericitisation
79.7 - 85.3	BtS_carb	Fol-str		Zone: biotite schist interval with marble bands (white), previously biotite-rich areas now strongly to completely replaced by sooty sulphide. Very abrupt change from limonitic/hematitic oxidation in last unit at contact to sulphide facies here. 3% disseminated sooty pyrite. Strong sulphide smell coming off core while standing above.
		79.7 - 85.3	Pervasive Strong Sericitisation	Pervasive Moderate Clay Pervasive Weak Silicification
85.3 - 87.1	HU	Fol-str		Intense sericite alteration of previously schistose host. .5% thin sooty sulphide veinlets crosscutting unit.
		85.3 - 87.1	Pervasive Intense Sericitisation	Pervasive Strong Silicification
87.1 - 96.6	BtS_carb	Fol-str		Zone: same as last zone, patchy calcite and calcite veinlets, marble banding, strong disseminations of sooty pyrite (3%). .75% fracture controlled hematite and moderate pervasive clay.
		87.1 - 96.6	Pervasive Strong Sericitisation	Pervasive Moderate Clay Patchy Moderate Calcite
96.6 - 103.2	IV			Zone: disseminated sooty pyrite through silicified and strongly sericitized dyke. Dyke's original igneous texture nearly obliterated, appears to be strongly sericitized andesite but also possibly a dacite. 1% fracture controlled hematite, up to 2.5% disseminated sooty pyrite.
		96.6 - 103.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation Fracture Controlled Weak Clay
103.2 - 104.8	BtS	Fol-str		Continuation of zone through schist. String sericite, 2.5% disseminated hematite after pyrite, patchy windows of unoxidized rock revealing disseminated sooty py. Moderate silica.
		103.2 - 104.8	Pervasive Strong Sericitisation	Pervasive Moderate Silicification
104.8 - 108.1	BtS	Fol-str		Strong silicification in patches, strong patchy epidote, beginning of unit contains strong sericite alteration to 105.6m.
		104.8 - 108.1	Patchy Strong Sericitisation	Patchy Strong Epidote Replaces Mafics Moderate Calcite
108.1 - 111.6	IV			Silicified and sericitized IV. .75% hematite off of fractures, weak clay. Unoxidized portion has fractures with moderate sericite bleaching off of them.
		108.1 - 111.6	Fracture Controlled Strong Sericitisation	Pervasive Moderate Silicification
111.6 - 127.5	BtS_carb	Fol-mod		Biotite schist, common marble bands, fol'n parallel opaque/milky qtz veins. Strong patchy chlorite, weak clay along fractures.
		111.6 - 127.5	Pervasive Moderate Chlorite	Patchy Moderate Sericitisation Fracture Controlled Weak Clay

127.5 - 129.8	IV	Similar IV to previous. Moderate to strong pervasive sericite, silica. .5% fracture controlled limonite. Coarse feldspar phenocrysts. Schist for 2m on either side of dyke exhibits high strain and moderate sericite alteration.			
		127.5 - 129.8	Pervasive Strong Sericitisation	Pervasive Strong Silicification	Fracture Controlled Weak Clay
129.8 - 153.1	BtS_carb	Fol-str	Biotite schist, patchy moderate sericite, patchy strong epidote. Locally higher strain than typical schist (areas of sericitization). Patchy domains of calcite.		
		129.8 - 153.1	Patchy Strong Sericitisation	Patchy Strong Epidote	Fracture Controlled Weak Clay
153.1 - 154.3	RU	Fol-str	Thin magnetite rich ultramafic. Thin dyke, strong talc + chlorite alteration.		
		153.1 - 154.3	Pervasive Strong Chlorite	Pervasive Strong Talc	
154.3 - 173.5	BtS_carb	Fol-str	Biotite schist, rare carbonate-rich bands, occasional 1m intervals of metabasalt within. Weak frac cont clay, patchy strong chlorite.		
		154.3 - 173.5	Patchy Strong Chlorite	Pervasive Moderate Calcite	
173.5 - 174.5	BtS	Fol-mod	Zone: 20cm strong sericite shoulders to 2.5% disseminated sooty pyrite through biotite schist. Clay altered and decomposed at 174m for 10cm.		
		173.5 - 174.5	Patchy Strong Sericitisation	Patchy Strong Clay	
174.5 - 189.9	BtS_carb	Fol-str	Biotite schist, rare thin marble bands. Strong chlorite, patchy epidote, moderate clay along some fractures.		
		174.5 - 189.9	Pervasive Strong Chlorite	Patchy Strong Epidote	Fracture Controlled Moderate Clay
189.9 - 195.7	HU	Fol-str	Intensely sericitized interval. Moderate silicification, strong foliation evident in some areas, trace sooty pyrite veinlets.		
		189.9 - 195.7	Pervasive Intense Sericitisation	Pervasive Strong Silicification	
195.7 - 200.0	BtS_carb	Fol-mod	Biotite schist, weak to moderately sericitized. Weak chlorite.		
		195.7 - 200.0	Pervasive Weak Chlorite	Pervasive Moderate Sericitisation	

Drill Log: CFD0352

Easting	585139.37	Hole Length	191 m	Prospect	Supremo T4-5	Drill Started	Oct 05, 2013	Comment
Northing	6973801.87	Azimuth	274 °	Target	NE Structure	Drill Completed	Oct 07, 2013	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Ebuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1198.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 29.0	BtS		Fol-mod	Biotite schist with moderate sericite and chlorite alteration. Moderate clay in patches, decomposing rock along foliation in areas. Strong chloritic shear zone from 13.4-14.55m, intense internal deformation, hard contact with schist.
		6.0 - 29.0	Pervasive Moderate Sericitisation	Patchy Moderate Calcite
29.0 - 30.0	IV		Fol-wk	Fine grained mafic dyke, pervasive calcite and wispy calcite patches which define a weak foliation.
		29.0 - 30.0	Pervasive Moderate Calcite	Pervasive Weak Clay
30.0 - 72.7	BtS	pblst	Fol-mod	Biotite schist, local regions of strong clay-chlorite alteration (ex. 38-40m) and moderate patchy sericite. Unit becomes slightly more felsic towards bottom of interval, with pink feldspar porphyroblasts and a greater white mica component. Thin area of strong oxidation from 64.7-65.2m with 2% disseminated limonite and 1% patchy hematite, and a opaque white and fractured quartz vein. Another thin (<10cm) patch of similar oxidation at 67.6m, with strong clay alteration.
		30.0 - 72.7	Patchy Moderate Sericitisation	Patchy Strong Clay Pervasive Moderate Chlorite
72.7 - 75.2	BtS	pblst	Fol-mod	Thin zone of strong oxidation, up to 1% disseminated hematite and .75% disseminated limonite through schist. Broken up milky qtz vein from 74.3-74.5m. Patches of moderate limonite-clay alteration.
		72.7 - 75.2	Patchy Moderate Clay	Pervasive Moderate Sericitisation
75.2 - 90.5	BtS	pblst	Fol-mod	Biotite schist, moderate pervasive sericite alteration, crosscutting qtz/dolomite veinlets, .25% fracture controlled limonite. Thin mafic dyke with coarse feldspar phenocrysts and weak foliation from 89.9-90.3m.
		75.2 - 90.5	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay Replaces Mafics Weak Chlorite
90.5 - 92.5	BtS		Fol-wk	Zone: strong (2.5%) hematitic oxidation of biotite schist, moderate to strong silicification, moderate clay within broken down areas. Dominantly rubble.
		90.5 - 92.5	Pervasive Strong Silicification	Pervasive Strong Sericitisation Fracture Controlled Moderate Clay
92.5 - 96.9	MxF		Fol-mod	Shoulder to zone, strong yellow clay alteration of felsic gneiss, moderate silicification and sericitization of schist. Heavily fractured.
		92.5 - 96.9	Patchy Strong Clay	Pervasive Moderate Sericitisation Patchy Moderate Silicification
96.9 - 104.0	MxF		Fol-mod	Mixed gneiss, felsic intervals contain fine disseminated hematite (.25%), biotite schist moderately clay-chlorite altered. Common fractures, moderate sericite. .75% fracture controlled limonite.
		96.9 - 104.0	Patchy Moderate Clay	Replaces Mafics Moderate Clay Pervasive Moderate Sericitisation
104.0 - 113.3	BtS		Fol-mod	Strong zone: 2.5% disseminated hematite through sericitized biotite schist. Moderate to strong clay along fractures, common opaque white quartz veins up to 20cm in width; interval begins with ~60cm vein. Veins crosscut foliation and have open space textures: coarsely crystalline, cockscomb.
		104.0 - 113.3	Pervasive Strong Sericitisation	Patchy Strong Clay
113.3 - 121.1	MxF		Fol-mod	Mixed gneiss, felsic intervals ighly fractured, biotite schist strongly chloritized and clay altered. .75% fracture controlled limonite.
		113.3 - 121.1	Replaces Mafics Strong Clay	Replaces Mafics Strong Chlorite
121.1 - 122.1	BtS		Fol-mod	Thin zone of 2.5% disseminated hematite through biotite schist. Strong clay, thin quartz vein.
		121.1 - 122.1	Pervasive Strong Clay	
122.1 - 135.0	BtS		Fol-mod	Biotite schist, strong clay-chlorite replacement in patches, very thin oxidized zones with 2% disseminated hematite over 10cm spans. Heavily fractured.
		122.1 - 135.0	Patchy Strong Clay	Patchy Strong Chlorite

135.0 - 137.2	BtS	Fol-mod	Zone: up to 2.5% disseminated hematite and strong sericite through biotite schist. Intensely fractured from 135-136.5, with intense pervasive clay alteration and core decomposition. Weak silicification of competent core.		
			135.0 - 137.2	Patchy Intense Clay	Patchy Weak Silicification Patchy Strong Sericitisation
137.2 - 141.7	BtS	Fol-mod	Strong sericite and moderate silicification of biotite schist, moderate pervasive calcite alteration. Patches of 1% disseminated hematite.		
			137.2 - 141.7	Pervasive Strong Sericitisation	Pervasive Moderate Silicification Pervasive Moderate Calcite
141.7 - 149.4	BtS	Fol-mod	Zone: common quartz veins through strongly limonitic and hematitic zone (1% and 2.5% disseminated). Intervals of weaker limonite with strong sericitization, as well as deep red, strongly clay altered and broken down intervals.		
			141.7 - 149.4	Patchy Strong Clay	Patchy Strong Sericitisation
149.4 - 156.8	MxF	Fol-mod	Strong clay replacement of feldspars, patchy strong sericite and moderate pervasive calcite through less oxidized core. Moderate chlorite after biotite, up to .75% patchy limonite.		
			149.4 - 156.8	Patchy Strong Clay	Patchy Strong Sericitisation Pervasive Moderate Calcite
156.8 - 160.4	BtS	Fol-mod	Zone: strong hematite (2.5%) disseminated within biotite schist. Moderate sericite-silica alteration, strong fracture controlled clay		
			156.8 - 160.4	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation Pervasive Moderate Silicification
160.4 - 172.6	BtS	Fol-mod	Biotite schist, patchy carbonate rich domains, patchy weak oxidation and silicification/sericitization.		
			160.4 - 172.6	Patchy Moderate Silicification	Patchy Moderate Sericitisation Patchy Weak Chlorite
172.6 - 177.8	BtS	Fol-mod	Weak zone, strong pervasive clay alteration and sericitization of biotite schist. 2% disseminated limonite, .5% fracture controlled hematite.		
			172.6 - 177.8	Pervasive Strong Clay	Pervasive Strong Sericitisation
177.8 - 181.1	MxF	Fol-mod	Clay altered, weakly oxidized mixed gneiss. Moderate chlorite after biotite.		
			177.8 - 181.1	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite
181.1 - 183.7	IV	fgrn	Weakly foliated and chlorite altered mafic dyke. Wisps of calcite define a weak foliation through the unit. Trace fracture controlled hematite.		
			181.1 - 183.7	Pervasive Weak Chlorite	
183.7 - 191.0	MxM	Fol-mod	Moderate clay-chlorite alteration of mafics, fine disseminations of pink hematite through felsic gneiss portions.		
			183.7 - 191.0	Patchy Moderate Silicification	Patchy Moderate Clay Replaces Mafics Moderate Chlorite