

Drill Log: CFD0178

Easting	584150.53	Hole Length	173 m	Prospect	Supremo T3	Drill Started	Apr 03, 2012	Comment
Northing	6974201.58	Azimuth	274 °	Target	T3	Drill Completed	Apr 05, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	AFage	Core Size	NQ	
Survey method	RTK GPS	Elevation	1258.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.8	OVb			
10.8 - 37.4	MxF	augn	Fol-str	Mixed gneiss, felsic dominant. Patchy .5-1% limonite. .2-.4 crosscutting limonite veinlets.
		10.8 - 19.3	Fracture Controlled Weak Clay	Patchy Weak Silicification
		19.3 - 25.0	Fracture Controlled Moderate Clay	Pervasive Weak Silicification
		25.0 - 25.4	Pervasive Intense Clay	
		25.4 - 29.7	Fracture Controlled Weak Clay	
		29.7 - 29.9	Pervasive Intense Clay	
		30.2 - 30.3	Pervasive Intense Clay	
		32.9 - 33.9	Pervasive Intense Clay	
37.4 - 38.7	FC	fgrn		Dacite, wk-str clay alt, brittle, 1-3% lim.
		37.5 - 37.8	Pervasive Intense Clay	
38.7 - 41.1	YC	bx		breccia, intense silicification, 1-3% limonite, last 35cm is either a QV or HU-intensely silicified. Patchy strong clay alt.
		39.9 - 40.4	Pervasive Moderate Silicification	
41.1 - 65.2	MxF	augn	Fol-str	Mixed gneiss, felsic dominant, patchy silicification, 0-1% dis. Limonite, .2-.4cmlim veinlets. Patchy moderate sericite.
		47.8 - 53.9	Selective Repl Weak Sericitisation	
		59.0 - 63.9	Pervasive Moderate Silicification	
65.2 - 66.3	FC	fgrn		(relatively) fresh dacite dike. 0.1% patchy limonite
		66.3 - 74.9	Patchy Moderate Clay	Pervasive Weak Sericitisation
66.3 - 113.3	MxF	augn	Fol-str	Mixed gneiss, strong silicification, 0.5-1% dis lim 69-74.2; 1-2% dis sooty sulfides from 74.2-74.9m. 0.5% dis lim 91.1-91.4. 0.1% xcutting 0.1-0.3cm veinlets +/- sulfide 107-113.3m.
		74.9 - 120.0	Pervasive Strong Silicification	
113.3 - 113.8	YO	bx		breccia, strongly silicified, dark grey matrix supported, light pink quartz rich clasts. 0.5% sulfide in matrix
113.8 - 134.8	MxF	silc		Mixed gneiss, mixed gneiss, strong silicification, 0.1% sulfide veinlets from 123-134.8m
		120.0 - 136.1	Patchy Strong Sericitisation	Patchy Weak Sericitisation Patchy Weak Chlorite
134.8 - 136.1	DIOR	cgrn	Fol-wk	weakly foliated diorite
136.1 - 139.3	YC	silc		intensely silicified rock with fragments of silicified gneiss, quartz vein material, 2-4% disseminated sooty sulfides, crosscutting sulfide veinlets (stockwork?), sooty sulfide bands (foliation parallel?), 10cm of moderate clay alteration at 138.2m with limonite veinlets.
		136.1 - 138.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		138.2 - 138.3	Pervasive Moderate Clay	
		138.3 - 145.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
139.3 - 140.0	DIOR	mgrn	Fol-wk	weakly foliated diorite
140.0 - 141.1	FG	silc	Fol-str	silicified augen gneiss with 0.1% crosscutting 5cm bull quartz veins, 0.1cm sulfide + limonite veinlets
141.1 - 141.8	DIOR	cgrn	Fol-wk	weakly foliated diorite
141.8 - 143.7	FG	silc	Fol-str	silicified augen gneiss with 0.1% crosscutting 5cm bull quartz veins, 0.1cm sulfide + limonite veinlets

143.7 - 145.5	MxF	silc		Intensely altered mixed gniess, 2-3% sulfide/limonite in 2-10cm foliation parallel bands and in 0.1-0.6cm veinlets. Silicified. In some areas host rock is unrecognizable; FG and diorite textures are evident as well.
145.5 - 152.0	DIOR	silc	Fol-mod	weakly foliated diorite. 30% of interval is an intensely silicified rock which may either be altered FG or Diorite. 2% foliation parallel sulfide bands in an intensely foliated/deformed/altered rock from 150.6-151.05m.
		145.5 - 173.0	Pervasive Strong Silicification	Patchy Moderate Sericitisation Patchy Weak Chlorite
152.0 - 168.8	MxF	silc	Fol-str	FG, intense silicification, patchy zones of 0.1% sulfide or limonite in 0.1-0.4cm veinlets. 10-20cm zones of diorite make up 15% of interval
168.8 - 169.4	DIOR	cgrn		massive coarse diorite
169.4 - 173.0	MxF	silc	Fol-str	mixed gniess, silicified

Drill Log: CFD0179

Easting	584150.74	Hole Length	146 m	Prospect	Supremo T3	Drill Started	Apr 05, 2012	Comment
Northing	6974149.65	Azimuth	270 °	Target	T3	Drill Completed	Apr 08, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Hgrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1242.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 8.8	FG	augn	Fol-str	Felsic gneiss with weak fracture controlled clay, local intense silic altn, 0.5-1.5% disseminated limonite, 0.1% cross-cutting limonite veinlets
		6.0 - 7.5	Fracture Controlled Weak Clay	Pervasive Weak Silicification
		7.5 - 8.7	Pervasive Intense Silicification	Fracture Controlled Weak Clay
		8.7 - 8.8	Pervasive Intense Clay	
8.8 - 12.4	DIOR	mass		Diorite dyke, porf- fine grained, local intense pervasive clay, 0-3% disseminated limonite, 0.1% cross-cutting limonite veinlets
		10.4 - 10.5	Pervasive Intense Clay	
		10.7 - 10.9	Pervasive Intense Clay	
		11.0 - 11.2	Pervasive Intense Clay	
		12.0 - 12.6	Pervasive Intense Clay	
12.4 - 29.8	FG	augn	Fol-str	Felsic gneiss, local intense silicification, 0-2% disseminated limonite, weak fracture-control clay alternation with local intense clay alteration. 0.1 % cross-cutting limonite veinlets
		12.6 - 19.6	Fracture Controlled Weak Clay	Patchy Moderate Silicification
		19.6 - 20.0	Pervasive Intense Clay	
		20.0 - 24.0	Fracture Controlled Weak Clay	
		24.0 - 24.2	Pervasive Intense Clay	
		24.2 - 25.3	Pervasive Strong Silicification	Fracture Controlled Weak Clay
		25.3 - 26.0	Pervasive Intense Silicification	
		26.0 - 28.7	Fracture Controlled Weak Clay	
29.8 - 30.5	DIOR	phyr		Diorite dyke, porf, 0.25-2.5% disseminated limonite, intense pervasive clay alteration
		29.8 - 30.0	Pervasive Intense Clay	
30.5 - 33.9	FG	augn	Fol-str	Felsic augen gneiss, 0.5-1% disseminated limonite, 0.1-0.5% disseminated hematite, 0-0.1% disseminated pyrite, limonite clay-altered veinlets,
		31.1 - 31.5	Patchy Intense Clay	
		32.3 - 32.4	Pervasive Intense Clay	
		33.3 - 34.0	Patchy Intense Clay	
33.9 - 34.2	Yx	bx		Crackle breccia, limonite-clay matrix, FG clasts
		34.0 - 34.5	Pervasive Moderate Sericitisation	Patchy Intense Clay
34.2 - 34.5	FG		Fol-str	Felsic gneiss, mod-sericitized, pyrite pits, mod-intense cross-cutting limonite veinlets, moderate pervasive clay
34.5 - 35.0	Ylim	bx		Clay-limonite matrix breccia with FG clasts, intense pervasive clay,
35.0 - 38.4	FG	augn	Fol-str	Felsic gneiss, local moderate pervasive clay, 0.5-2% disseminated limonite, 0-1% disseminated hematite, local disseminated weak-mod sericite alteration, 0-0.25% disseminated and discrete pyrite, cross-cutting moderately clay-altered limonite veinlets
		35.5 - 36.2	Pervasive Weak Sericitisation	
		36.2 - 38.6	Pervasive Weak Silicification	
38.4 - 40.3	IV	fgrn		Andesite dyke, fine-grained, porphyritic, fresh and strongly altered sections, cross-cutting limonite veinlets, pyrite pits. Unclear contact

40.3 - 42.4	FG	augn	Fol-str	FG, moderate pervasive sericite, limonite veinlets, 1% limonite/hematite after 41.8m.		
42.4 - 42.5	YC	bx		Silica-clast breccia with limonite clay matrix		
42.5 43.3	FC	fgrn		Dacite dyke with local FG, intensely altered, fine grained aphanitic, irregular contact nearly parallel-to-drilling, runs 3000-21,900ppm As, (runs higher than local FG on XRF) minor limonite veinlets, extremely weak foliation		
43.3 46.3	FG	augn		Augen gneiss, weakly silicified, 0-0.75% disseminated limonite, 0-1% disseminatd hematite, minor cross-cutting limonite veinlets		
		44.0 - 46.3	Pervasive	Weak Silicification		
46.3 48.6	IV	fgrn		Andesite dyke, fine-grained aphanitic, fresh with minor 0.25-1% disseminated limonited patches, limonite and andesite veinlets		
48.6 - 57.0	FG	augn		Felsic gniess, augens, 0-0.5% disseminated limonite, local intense pervasive clay and sericite alteration, weak pervasive silica alteration. 0.3% disseminated hematite		
		51.5 - 51.9	Pervasive	Weak Sericitisation		
		51.9 - 57.0	Patchy	Intense Clay	Pervasive Weak Sericitisation	Pervasive Weak Silicification
57.0 - 57.2	DIOR	phyr		Diorite dyke, intense pervasive clay alteration		
		57.0 - 59.0	Patchy	Intense Clay		
57.2 - 57.6	FG	augn		Felsic gneiss, intense pervasive clay alteration, 0-0.5% limonite		
57.6 57.8	DIOR	phyr		Diorite dyke, porphyritic, intense pervasive clay alteration		
57.8 - 80.5	MxF	augn		Mixed gneiss, local 0-3% disseminated limonite, 0-0.25% disseminated hematite, local fracture controlled weak clay alteration and local intense pervasive clay alteration, local weak silicification.		
		60.2 - 69.6	Pervasive	Weak Sericitisation	Patchy Weak Silicification	Fracture Controlled Weak Clay
		69.6 - 70.5	Pervasive	Intense Clay		
		71.6 - 72.9	Pervasive	Weak Silicification		
		76.2 - 80.5	Pervasive	Weak Sericitisation		
80.5 - 85.2	YC	bx		Clay matrix silicified clast breccia, from 80.3-82m, strong sericite with 0.3-1% limonite. 82-83.1m intense bleaching, with 1-2% fine grained disseminated sulphides. 83.1-85.2m 2-3% limonite within matrix and crosscutting veinlets.		
		80.5 - 85.2	Pervasive	Intense Clay		
85.2 87.9	MxF		Fol-str	Mixed gneiss, 0-2% disseminated limonite, 0-1% disseminated hematite, 0-1% disseminated pyrite, weak fracture control clay cross-cutting veinlets of limonite, hematite and pyrite, patchy silica and sericite alteration		
87.9 88.0	PyF			Pyritic fault, intense clay with 5-10% sooty sulphides, most of unit was washed away. Trace realgar and orpiment		
88.0 - 134.9	MxF		Fol-str	Mixed gneiss, 0-1% disseminated limonite, 0-1% disseminated hematite, 0-1% disseminated pyrite, weak fracture control clay cross-cutting veinlets of limonite, hematite and pyrite, patchy silica and sericite alteration		
		91.2 - 146.0	Patchy	Weak Silicification		
134.9 - 136.8	DIOR	phyr		Diorite dyke, porphyritic, gradational contact with MXF, quartz veining throughout		
136.8 - 138.8	MxF			Mixed gneiss, 0-1% disseminated hematite, patchy weak fracture control clay, weak-moderate silica alteration, quartz veining, patchy pervasive sericite alteration, local 0.1% pyrite veinlets		
138.8 - 139.1	DIOR	phyr		Diorite dyke, porphyritic, isotropic, gradational contact with MXF, quartz veining throughout		
139.1 - 146.0	MxF		Fol-str	Mixed gneiss, 0-1% disseminated hematite, patchy weak fracture control clay, weak-moderate silica alteration, quartz veining, patchy pervasive sericite alteration, local 0.1% pyrite veinlets		

Drill Log: CFD0180

Easting	584175	Hole Length	146 m	Prospect	Supremo T3	Drill Started	Apr 05, 2012	Comment
Northing	6974200	Azimuth	270 °	Target	T3	Drill Completed	Apr 08, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ	
Survey method	estimated	Elevation	1257.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 12.7	OVB			
12.7 - 28.6	FG		Fol-str	FG, strongly fractured, 1% disseminated limonite, hematite from 18.9-21m
		18.8 - 24.6		Pervasive Moderate Sericitisation
28.6 - 29.9	IV	mass		massive fine grained andesite
29.9 - 50.4	FG	augn	Fol-str	FG, 0.1% fracture controlled limonite, 2% disseminated limonite and moderate sericite from 46.5-46.7m
		31.1 - 46.3		Patchy Moderate Silicification
		46.3 - 48.3		Pervasive Moderate Sericitisation
		48.3 - 51.5		Patchy Weak Clay
50.4 - 51.4	Yx	bx		Crackle breccia, dark green matrix, 0.5% disseminated limonite, weak pervasive clay
51.4 - 70.3	MxF	augn	Fol-str	FG, patchy weak clay alteration, 0.1 fracture controlled limonite
		51.5 - 68.1		Pervasive Weak Sericitisation
70.3 - 74.1	FC	mass		FC, 1-3% disseminated limonite, weak pervasive clay alteration, patchy silicification
		72.1 - 76.8		Pervasive Strong Clay
74.1 - 79.1	FG	augn	Fol-str	Augen gneiss, 0.5 % disseminated limonite, moderate - strong pervasive sericite alteration
		76.8 - 78.9		Pervasive Weak Sericitisation
		78.9 - 86.1		Pervasive Strong Sericitisation
			Patchy Moderate Clay	Patchy Weak Silicification
79.1 - 86.1	Yx		Fol-mod	FG with a stockwork of limonite veinlets (up to 2%) with intense sericite, local intense clay, local intense silicification,
86.1 - 87.9	YC	bx		Silicified clast breccia, weak-moderate clay, polymictic silicified clasts, 1-3% disseminated limonite, hematite
		86.1 - 89.1		Patchy Weak Clay
				Patchy Moderate Sericitisation
87.9 - 97.8	FG	augn	Fol-str	FG, 1-2% disseminated limonite, hematite. Strong pervasive sericite. 2% disseminated sooty sulfides from 88.6-88.75m.
		89.1 - 97.1		Pervasive Moderate Sericitisation
		97.1 - 104.9		Pervasive Weak Sericitisation
97.8 - 103.9	MxF		Fol-str	Mixed gneiss, silicified, weak-moderate pervasive sericite alteration, 1% disseminated limonite/hematite from 101.1-103.8m
103.9 - 105.4	YC	bx		clay-matrix-silicified clast breccia. 1-2% disseminated limonite or clay (transitional zone)
		104.9 - 105.4		Pervasive Strong Clay
105.4 - 111.7	FG		Fol-str	Intensely altered (bleached) FG, 2-5% disseminated sooty sulfides either disseminated or in veinlets or 2-10cm bands. 0.3% 1cm quartz veins with disseminated brassy pyrite and chalcedonic selvage.
		105.4 - 126.0		Patchy Moderate Sericitisation
				Pervasive Moderate Silicification
111.7 - 123.9	FG		Fol-str	FG, moderate pervasive sericite, moderate silicification, local 1-2cm sulfide veinlets
123.9 - 125.3	Yx	bx		FG with a stockwork of sooty sulfide and minor limonite veinlets (up to 2%) with intense sericite, local intense clay, local intense silicification,
125.3 - 126.0	MxF		Fol-str	FG, intense sericite alteration and bleaching
126.0 - 146.0	MxF		Fol-str	FG is weakly silicified with local weak sericite alteration.
		126.0 - 133.0		Patchy Weak Sericitisation
				Patchy Weak Silicification

Drill Log: CFD0181

Easting	584201.22	Hole Length	161 m	Prospect	Supremo T3	Drill Started	Apr 08, 2012	Comment
Northing	6974198.11	Azimuth	270 °	Target	T3	Drill Completed	Apr 10, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	AWainwright	Core Size	NQ	
Survey method	RTK GPS	Elevation	1257.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments	
0.0 - 6.0	OVb				
6.0 - 17.0	FG	augn	Fol-mod	typical augen gneiss host rocks	
		6.0 - 10.0	Pervasive Weak Sericitisation	Pervasive Weak Silicification	generally bleached pale rock
		10.0 - 26.0	Patchy Weak Albite	Replaces Mafics Weak Chlorite	
17.0 - 17.7	DIOR	mass	Fol-wk	syn-metamorphic diorite? Dominantly unfoliated; weak foliation near margins	
17.7 - 30.1	MxF	band	Fol-mod	mixed gneiss; <10% dark chlorite altered bands; typical host sequence	
		26.0 - 29.0	Patchy Weak Sericitisation	Patchy Weak Clay	Pervasive Weak Silicification
					increased bleaching and softening of the rock; uphole from clay altered fault zone
		29.0 - 30.5	Patchy Strong Clay	Patchy Weak Sericitisation	Patchy Weak Silicification
					clay altered fault zone may be weakly mineralized
30.1 - 30.4	YO	bxi		partly incohesive interval with strong clay-silica alteration of gneiss frags; soft, clay altered matrix; minor silicified frags; fault zone	
30.4 - 40.0	MxF	augn	Fol-mod	typical augen gneiss dominant mixed gneiss sequence; <5% <10cm mafic bands	
		30.5 - 33.0	Patchy Moderate Sericitisation	Pervasive Moderate Silicification	Patchy Weak Albite
					footwall of fault zone; fairly coarse dissemination noted; bleached white rock
		33.0 - 40.0	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite	fresh basement host rocks
40.0 - 40.7	YO	bxi		incohesive interval; clay matrix with clay-sil altered gneiss fragments; matrix-supported	
		40.0 - 40.8	Strong Clay		mostly incohesive material; strong clay altered matrix with relatively unaltered gneissic frags
40.7 - 42.4	FG	augn	Fol-mod	typical augen gneiss	
		40.8 - 42.0	Patchy Weak Clay	Weak Albite	footwall below fault breccia
		42.0 - 48.2	Pervasive Moderate Chlorite	Weak Epidote	mostly mafic dike zone; typical incipient alteration
42.4 - 47.8	IV	mass		fresh intermediate dike; fine-grained; chilled margins	
47.8 - 63.0	MxF	augn	Fol-mod	<5% <10cm mafic bands; dominant augen bearing felsic gneiss	
		48.2 - 54.0	Pervasive Weak Silicification	Replaces Felsics Weak Albite	Patchy Weak Clay
					bleached, fairly limonitic zone
		54.0 - 55.0	Pervasive Moderate Albite	Patchy Strong Clay	Patchy Weak Silicification
					white bleached locally incohesive clay altered zone
		55.0 - 62.0	Pervasive Weak Silicification	Patchy Weak Albite	Replaces Mafics Weak Chlorite
					relatively fresh host rocks
		62.0 - 64.2	Patchy Moderate Silicification	Patchy Moderate Clay	Patchy Weak Albite
					altered, mineralized interval related to breccia zone
63.0 - 64.0	YC	bxm		silicified clasts fairly common in the interval with altered wallrock as well; strong limonite; local soft domains; minor bull quartz frags	
64.0 - 66.8	FG	augn	Fol-mod	typical augen gneiss; footwall below short mineralized interval	
		64.2 - 73.5	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite	fairly fresh host rocks + IV dike zone
66.8 - 67.5	IV	mass		green dike; fine grained; porphyritic to equigranular	

67.5 - 87.8	FG	augn	Fol-mod	typical augen gneiss			
		73.5 - 79.2	Pervasive Strong Silicification		Pervasive Strong Albite		strongly altered gneissic host; hard scratch, opaque porcelanic white with patchy hematite
		79.2 - 82.2	Pervasive Strong Silicification		Replaces Mafics Weak Chlorite		pervasively altered zone with hard scratch and patchy green alteration of mafic components
		82.2 - 86.9	Pervasive Moderate Silicification		Pervasive Moderate Albite		bleached white opaque interval; moderate scratch; flooded appearance;
		86.9 - 100.2	Replaces Mafics Moderate Chlorite	Patchy Weak Silicification	Patchy Weak Albite		fairly fresh interval with green mafic zones and minor bleached white silica/albite altered bands
87.8 - 101.4	MxM	band	Fol-mod	highly variable interval dominated by dark, chl altered segments; local coarse low-strain enclaves; mostly foliated, starin changes are gradational			
		100.2 - 102.5	Replaces Felsics Moderate Clay		Replaces Mafics Weak Chlorite		limonite zone in hangingwall above mineralized interval? Rock softer; clay alteration of feldspars
101.4 - 102.0	DIOR	mgrn		Very weak foliation. Well defined contacts with bounding gneissic unit.			
102.0 - 107.7	FG	augn		Broken ground. Gauge material-fault? Sericite on fracture planes with oxidized euhedral pyrite crystals (1mm)			
		102.5 - 107.8	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation	Patchy Weak Silicification		Pitted appearance (intense hydrothermal activity) in augen gneiss. Stylolitic seams of white mica -silvery appearance
107.7 - 108.4	DIOR	mgrn	Fol-mod	7cm wide chilled margin (basal contact). Pervasive chloritization (after biotite) defining a moderate foliation. Carbonate throughout.			
		107.8 - 108.4	Pervasive Moderate Calcite		Moderate		Pervasive calcite infilling around mafic crystals.
108.4 - 113.2	FG	augn		Intensely limonitic interval cross-cut by two fine grained dioritic (?) dykes at 110.75-111.0m and 109.32m.			
		108.4 - 113.0	Replaces Felsics Strong Clay	Pervasive Moderate Calcite	Replaces Mafics Moderate Chlorite		Calcite local to discrete fine grained mafic dykes cross-cutting interval.
		113.0 - 114.3	Pervasive Moderate Calcite	Replaces Felsics Moderate Clay			Between carbonate and calcite alteration all primary mineralog has been replaced.
113.2 - 116.0	DIOR	mgrn		Moderately limonitic diorite dyke. At 114.3m potential contact. Interval becomes strongly limonitic. No mafic minerals preserved- Possible dacite dyke (earlier? Cross-cut by diorite)			
116.0 - 128.0	FG	bx		Strongly brecciated throughout, milled with siliceous clasts. Augen not evident.			
		114.3 - 116.0	Replaces Felsics Strong Clay				
		116.0 - 118.0	Replaces Felsics Intense Clay	Replaces Clasts Strong Silicification	Patchy Moderate Calcite		Intensely brecciated interval with milled clay matrix and entire silicified clasts. Patchy intervals where the clay matrix reacts w HCL.
		118.0 - 125.8	Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Fracture Controlled Weak Calcite		Early Si event. Pitted. Weak to strongly brecciated with calcite commonly found on in fractures. Calcite also weakly pervasive discrete intervals and within clay gauge material. Dendritic Mn fractures, in gauge material and in dissolution seams
128.0 - 138.1	MxF	augn	Fol-str	Alternating intervals of feldspar augen with fg mafic matrix (biotite/chlorite) and strongly foliated (biotite dominated) mafic segregations also a with well developed foliation.			
		128.0 - 135.2	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Sericitisation		Chlorite +/- sericite (some crystal appear K-rich) defining foliation. Clay replacement of feldspar becomes more subdued towards base of interval. Strongest clay replacement in limonitic zones.
		135.2 - 139.1	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Sericitisation			White mica seen in dissolution seams? Foliation parallel. Also found preferentially replacing feldspar giving a greenish foggy appearance.
138.1 - 143.2	MxM	biot	Fol-str	Mafic dominated interval. Strong biotite foliation with secondary calcite pervasive throughout. Minor leucocratic intervals with silica flooding.			
		139.1 - 146.8	Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification	Fracture Controlled Weak Calcite		Mafic dominated interval with abundant chlorite replacement mafics. Calcite pervasive throughout mafic intervals. Minor epic associated with calcite veining. Discrete zones of silica flooding with sericitic foliation and AsFeS veining.

143.2 - 145.1	UX	mgrn	Fol-str	Strong biotite foliation after amphibole. Carbonate alteration (weaker than previous interval. Feldspar strongly deformed in part (particularly at margins). Upper contact bounded by intense silica alteration, brecciation and mm-cm scale AsFeS veining (very fine sulphide mineralisation). Lower contact cross-cut by a pegmatite with large biotite crystals.			
145.1 - 161.0	MxF	band	Fol-str	Interbanded leucite (with feldspar augen) and melanocratic intervals. Melano dominated by biotite and feldspar, strangely sharp contacts with feldspar augen intervals. Carbonate veining at margins with mafic intervals. Zones of intense silica +/- albite + dolomite. Within these zones relict feldspar augen are present.			
		146.8 - 152.0	Replaces Felsics Moderate Albite	Patchy Moderate Silicification	Replaces Felsics Weak Sericitisation	Several zones from 20cm to 150cm of strong albite + Si + sericite alteration. Preferential to felsic intervals within the gneissic package? Pervasive calcite alteration of mafic intervals.	
		152.0 - 161.0	Selective Repl Moderate Sericitisation	Pervasive Moderate Calcite	Replaces Mafics Weak Chlorite	Sericite along foliation planes. Calcite pervasive throughout discrete mafic intervals.	

Drill Log: CFD0182

Easting	584173.33	Hole Length	155 m	Prospect	Supremo T3	Drill Started	Apr 08, 2012	Comment
Northing	6974151.88	Azimuth	265 °	Target	T3	Drill Completed	Apr 11, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	HGrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1243.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 7.6	OVb			
7.6 - 22.6	FG	augn	Fol-str	Mixed gneiss, 0.5-2% disseminated limonite, 0-0.5% disseminated hematite, weak fracture control clay, local weak-moderate pervasive sericite alteration, local patchy silica alteration, cross-cutting limonite veinlets and local quartz veins, intense pervasive clay alteration from 13.53-13.70m and 16.37-16.45m
		7.6 - 13.5	Patchy Weak Sericitisation	Fracture Controlled Weak Clay Patchy Weak Silicification
		13.5 - 13.7	Pervasive Intense Clay	
		13.7 - 16.4	Patchy Weak Sericitisation	Fracture Controlled Weak Clay Patchy Weak Silicification
		16.4 - 16.5	Pervasive Intense Clay	
		16.5 - 33.7	Patchy Moderate Silicification	Patchy Weak Sericitisation
22.6 - 22.8	DIOR	phyr		Minor diorite dyke, porphyritic and isotropic, gradational contact
22.8 - 25.5	MxF		Fol-str	Mixed gneiss, 0-0.5% disseminated limonite, 0-0.5% disseminated hematite, weak fracture control clay, moderate pervasive silica alteration, 0.1% cross-cutting limonite veinlets, 0.1% foliation-directed pyrite veinlets
25.5 - 26.0	FC	phyr		Diorite dyke, porphyritic and isotropic, gradational contract, local intense pervasive clay
26.0 - 33.7	FG	augn	Fol-str	Mixed gneiss, 0-0.5% disseminated limonite, 0-0.5% disseminated hematite, weak fracture control clay, moderate pervasive silica alteration, 0.1% cross-cutting and oblique limonite veinlets and 0.01 pyrite veinlets
33.7 - 42.0	IV	phyr		Andesite dyke, porphyritic, fresh with patchy 1-2% disseminated limonite sections and local intense pervasive clay alteration
		33.7 - 42.0	Pervasive Intense Clay	
42.0 - 62.6	FG	augn		Felsic augen gneiss, local quartz veining parallel to foliation and cross-cutting, 0-1% patchy limonite, local weak sericite and silica alteration
		42.0 - 57.0	Patchy Weak Sericitisation	Fracture Controlled Weak Clay Patchy Weak Silicification
		57.0 - 62.6	Pervasive Moderate Silicification	Patchy Intense Clay
62.6 - 63.0	Ylim	bx		Limonite clay-matrix breccia with felsic gneiss clasts, contact is approx 45 degrees to core
		62.6 - 63.0	Pervasive Intense Clay	
63.0 - 69.8	FG		Fol-str	Augen gneiss, weak pervasive sericite alteration, patchy intense clay alteration, 0.5% disseminated limonite, cross-cutting limonite veinlets and 0.1% patchy pyrite.
		63.0 - 66.4	Fracture Controlled Weak Clay	Patchy Weak Sericitisation
		66.4 - 66.5	Pervasive Intense Clay	
		66.5 - 69.8	Fracture Controlled Weak Clay	Patchy Weak Sericitisation
69.8 - 69.9	PyF		Fol-wk	Pyritic fault, pyritic massive clay composition, pyrite grains within
		69.8 - 69.9	Pervasive Intense Clay	
69.9 - 70.7	FG		Fol-str	Felsic gneiss, 1.5% disseminated limonite, 0.15% disseminated hematite, weak pervasive clay, 0.1% limonite veinlets
		69.9 - 70.7	Pervasive Weak Clay	
70.7 - 71.8	FC		Fol-wk	Dacite dyke, fine grained with very weak foliation, fresh and altered parts, 0-3% disseminated limonite, runs up to 3934ppm As on the XRF, contact dipping 50 degrees to the core, foliations at different orientation than neighboring FG
		70.7 - 71.8	Pervasive Moderate Silicification	Pervasive Weak Sericitisation

71.8 - 109.2	MxF	Fol-str	Mixed gniess, 0.5-1% disseminated limonite, 0-0.25% disseminated hematite, 0.1% cross-cutting and foliation-parallel limonite veinlets, 0.1% foliation-parallel limonite veinlets, weak-moderate patchy sericite alteration, weak patchy silica alteration		
			71.8 - 88.7	Fracture Controlled Weak Clay	Patchy Weak Silicification
			88.7 - 108.7	Patchy Moderate Silicification	Pervasive Weak Sericitisation
			108.7 - 109.6	Pervasive Strong Silicification	
109.2 - 110.4	YC	bxv	Limonitic clay matrix breccia, intense clay with local silicified clasts, 0.25 to 0.5% diss limoninte		
			109.6 - 110.7	Pervasive Intense Clay	Patchy Strong Silicification
110.4 - 111.4	Yx	bxi	Strongly silicified limonitic matrix breccia, in place clasts, 2% disseminated limnrite. Local moderate clay altn.		
111.4 - 155.0	MxF	Fol-str	Mixed gniess, 0.25% fracture controlled limonite and disseminated hematite. Local quartz sericite altn. Interlieved with bt-amph schist		
			111.4 - 121.6	Pervasive Moderate Silicification	
			122.0 - 122.9	Selective Repl Moderate Albite	Pervasive Moderate Silicification
			122.9 - 131.1	Pervasive Moderate Silicification	
			131.1 - 132.5	Selective Repl Weak Clay	Patchy Strong Silicification
			132.5 - 155.0	Pervasive Moderate Silicification	Patchy Weak Sericitisation

Drill Log: CFD0183

Easting	584225	Hole Length	194 m	Prospect	Supremo T3	Drill Started	Apr 11, 2012	Comment
Northing	6974200	Azimuth	270 °	Target	T3	Drill Completed	Apr 14, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	estimated	Elevation	1258.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments			
0.0 - 4.1	OVb						
		0.0 - 49.5	Patchy Weak Albite		Patchy Weak Chlorite	Patchy Weak Epidote	Minor alteration combined with weak disseminated or fracture controlled limonite
4.1 - 12.9	MxF	augn	Fol-mod	Mixed gneiss, felsic dominated. Local mafic dyke (weak fabric) intruding. Weak sericite +/- albite alteration with local chlorite alteration of mafics (esp. in dyke). Oxidized throughout with 0.1% lim, 0.1% hm, both as staining of feldspars. Lower contact is			
12.9 - 14.5	IV	mgn	Fol-wk	Med grain, subhedral amphibole and qtz. Med grain.			
14.5 - 68.5	MxF	augn	Fol-str	Commonly augen bearing, .25 blebbing brassy pyrite and disseminated hematite. Local minor albite and chlorite altn and carbonate stringers.			
		49.5 - 49.8	Replaces Mafics Moderate Chlorite				chlorite after biotite in mafic segregation.
		49.8 - 57.9	Selective Repl Weak Sericitisation		Selective Repl Weak Calcite		Both chlorite and white mica are overgrowing preferential to tl main foliation.
		57.9 - 60.2	Replaces Mafics Moderate Chlorite				chlorite after biotite in mafic segregation.
		60.2 - 64.3	Selective Repl Weak Clay		Selective Repl Weak Calcite	Replaces Mafics Weak Chlorite	Both chlorite and white mica are overgrowing preferential to tl main foliation. In part sericite? Has broken down to clay. Partial clay alteration along main foliation.
		64.3 - 64.8	Pervasive Moderate Silicification		Vein Selvege Moderate Calcite		Sharply defined zone of strong silicification. Remnant feldspar augen throughout. Zone bound by hairline calcite veining at up and lower contact. Lower contact oxidized to limonite. Capping broken, oxidized zone below.
		64.8 - 66.3	Selective Repl Weak Chlorite		Replaces Felsics Weak Sericitisation	Patchy Weak Calcite	Weak breakdown of feldspar to clay, chlorite replacement of foliation defining biotite. Weak sericite overgrowing foliation. Patchy calcite in tiny, discrete tensional voids?
		66.3 - 80.2	Patchy Moderate Silicification		Replaces Mafics Weak Chlorite	Patchy Moderate Clay	Very broken zone of abundant fracturing. Competent intervals silicified. Feldspar in rubble typically degraded to clay.
68.5 - 68.8	RQM	qtz	Fol-str	High strain qtz ribbons on upper contact of clay rich YC			
68.8 - 69.1	YC	bxm		Intense clay altered, silicified clasts 2-4% limonite.			
69.1 - 70.2	FC	fgrn		Relict felspar phenocrysts, 2% limonite, hematite veinlets.			
70.2 - 82.2	FG						
		80.2 - 82.4	Replaces Felsics Moderate Clay		Patchy Moderate Silicification	Fracture Controlled Weak Albite	Zone of moderate bleaching. Feldspar breaking down to clay. Broken with competent silicified zones. Permeating fractures appear to be albitized.
82.2 - 89.1	MxM	band	Fol-str	Interbanded biotite schistose and felsic plag dominated gneiss. Biotite oxidizing in part to limonite-hematite. Pitted texture in both felsic and mafic intervals (removal of carbonate?).			
		82.4 - 89.1	Replaces Mafics Moderate Chlorite		Selective Repl Weak Sericitisation	Selective Repl Weak Clay	Mafic schistose bands altered to chlorite after biotite. Weak sericite overgrowths along foliation. In some cases have degraded to clay?

89.1 - 109.5	MxM	band	Fol-str	Patchy silicification/albitization throughout- selective to felsic intervals. Mafic intervals are strongly foliated with metamorphic biotite defining the foliation. Biotite selectively replaced by chlorite in part. Shearing intensifies at contacts with silicified intervals. At 99.1 mm-scale (to 2 mm) blebs of sooty pyrite- trace. Commonly intergrown with biotite. Low As levles- XRF			
				89.1 - 99.0	Replaces Mafics Moderate Chlorite	Selective Repl Weak Silicification	Selective Repl Weak Sericitisation Patchy silicification of felsic gneiss. White mica overgrowing foliation (secondary or metamorphic?).
				99.0 - 100.5	Replaces Felsics Moderate Albite	Selective Repl Weak Silicification	Selective Repl Weak Sericitisation Feldspars appear albitized- milky white, homogenous appear
				102.7 - 106.4	Pervasive Strong Silicification	Selective Repl Weak Sericitisation	Selective Repl Moderate Albite Felsics preferentially silica flooded. Euhedral 1-2mm pyrite xst on fractures within siliceous interval. Mafic intervals continue t have weak chloritization and carbonate pervasive throughout.
109.5 - 114.3	MxF	silc	Fol-str	Minor interval of felsic gneiss with selective silicification and albitization of felsics.			
				113.2 - 113.7	Selective Repl Strong Albite	Patchy Moderate Silicification	Replaces Felsics Weak Sericitisation Zone of intense albitization? Of feldspars. Milky white, opaque homogenous character with poorly constrained grain boundari Weak silicification pervasive throughout interval. Flecks of very fine grained white mica disseminated throughout.
				113.7 - 127.5	Selective Repl Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Albite Continued selective silicification + alb+ sericite of felsic interval with. Carbonate pervasive throughout mafic intervals. Feldspar porphyroblasts? Have calcite rims in mafic bands.
114.3 - 121.7	MxM	pblst	Fol-str	Minor felsic intervals no wider than 30cm with Si+alb alteration. From 120.77-121.1m mafic bands contain feldspar porphyroblasts? With carbonate rims. Feature continues into following intervals.			
121.7 - 125.0	MxF	silc	Fol-str	Felsics are weakly to moderately silicified with white mica overgrowing foliation. Weak albitization permeating from minor hairline veins? Minor mafic intervals still exhibiting porphyroblastic feldspar (3-4 mm diameter).			
125.0 - 135.4	MxM	biot	Fol-str	Relatively homogenous biotite rich mafic unit with well developed biotite foliation. Patchy silicified intervals throughout. Rare porphyroblastic texture as seen previously. Blebby pyrite (2mm) patchy throughout. Carbonate alteration pervasive.			
				134.6 - 137.0	Pervasive Intense Silicification	Replaces Felsics Moderate Albite	Selective Repl Moderate Sericitisation Massive milky quartz vein with irregular margins (60cm wide). Moderate silicification/albitization of surrounding country rock
135.4 - 143.7	MxF	silc	Fol-str	Patchy silicification/albitization of felsics. Mafics still exhibit porphyroblastic texture in part. At 140.26-140.27- aphanetic mafic dyke trending subparallel to main foliation.			
				137.0 - 142.9	Pervasive Moderate Silicification	Selective Repl Moderate Silicification	Selective Repl Moderate Albite Continued silicification of felsic intervals. Selective albitization feldspars. Pervasive carbonate throughout mafic schist interval
				142.9 - 146.7	Pervasive Intense Clay		Puggy fault gauge- limonitic clay matrix.
143.7 - 149.2	YC	bxv		Limonitic clay matrix. Small rounded silicified clasts from ~3mm-6mm. Majority unconsolidated.			
				146.7 - 148.6	Pervasive Strong Calcite	Pervasive Moderate Clay	Replaces Felsics Weak Sericitisation Mid brecciated zone core becomes strongly calcareous. Calcite exists with arsenic for ~40cm then As tapers out. Very fine grained white mica. So strongly limonitic it is difficult to tell what the sericite is replacing (felsic replacement).
				148.6 - 151.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay	Silicified interval. Pervasive weak limonite throughout. Low As
149.2 - 156.9	MxF	band		Moderately hydrothermally altered. Transitional- 30% unoxidized. 50/50 mafic and felsic banding. Felsic intervals exhibit silicification and poorly developed crackle breccia textures. Rare patchy breakdown to limonitic clay. At 153.0m abundant fine 'sooty' pyrite (2300 As XRF).			
				151.0 - 152.1	Selective Repl Moderate Clay	Selective Repl Moderate Sericitisation	More intensely altered interval. Strongly limonitic. Weak crackle texture with sooty py.
				152.1 - 160.4	Replaces Felsics Moderate Clay	Patchy Weak Silicification	Replaces Felsics Weak Albite Patchy silicification/albitization. Clay alteration intensifying at 156m. Pitted appearance in part- leaching of carbonate?
156.9 - 160.0	MxF	band		Broken ground. Heavily fractured. Limonite on fracture planes and pervasive throughout (weak-moderate). Puggy limonitic clay in part.			

160.0 - 166.0	MxF	silc	Fol-str	Transitional zone. 30% oxidized. Intensely silicified/albitized in part. Grey fg matrix from 164.32m to end of interval- fine grained 'sooty' pyrite and silica? Well developed foliation- appears sheared in part. XRF reading from 3000-5500 ppm As. Increased shearing at 164. 35m		
		160.4 - 167.0	Pervasive Strong Silicification	Replaces Felsics Moderate Albite	Replaces Felsics Moderate Sericitisation	Strong silicification throughout with albitization of plag. At 164. character changes- introduction of sooty pyrite giving core a massive grey appearance. Grey a combination of sooty pyrite, 1 grained sericite and silica?
166.0 - 169.0	HU			Intensely altered to limonite. Rare relict feldspar- most like felsic gneiss. Original texture mostly obliterated. At 167m 13 200ppm As. At 167.77m 3cm wide stibnite vein? Sooty in appearance- fg with poorly constrained margins. Brecciated limonite vein encompassing. XRF- >10% Sb, and 2.3% As. Interval capped by a 5cm wide quartz vein.		
		167.0 - 170.0	Pervasive Strong Clay	Patchy Weak Silicification		Intensely altered to clay. Pervasive limonite throughout. Prima structures unrecognizable but appear brecciated in part. Total replacement.
169.0 - 175.1	FG	silc		Intense silica flooding. Almost cherty in part. "Sooty" stylolitic seaming throughout and zones with fg. Grey matrix (fg 'sooty' py? And silica?). Cross-cut by a fragmented opaque quartz vein from 171.26m (20cm wide). Transitional zone with 60% oxidation.		
		170.0 - 176.8	Patchy Intense Silicification	Replaces Felsics Moderate Sericitisation	Fracture Controlled Weak Clay	Silica flooded largely. Minor zones exhibiting clay alteration (where fracturing is greatest). Fine grained sericite recognizeat in unoxidized intervals. Sooty pyrite throughout and commonly dissolution seams - albite? Permeating from these structure
175.1 - 175.8	YC	silc		Strongly silicified interval with silicified matrix and clasts. Mafic precursor? Low As and cross-cut by stockwork of hairline Ca-veins.		
175.8 - 179.2	MxF	band	Fol-str	System is tapering out. Still trace 'sooty' veining- foliation parallel. Rare 'sooty' stylotites? Silicified and albitized. XRF- 2300 on sooty vein at 176.73m. Clay altered in part.		
		176.8 - 194.0	Patchy Strong Silicification	Patchy Strong Albite	Replaces Felsics Moderate Sericitisation	Patchy zones of strong silicification/albitization. At times appear to be preferential to felsic band and other times obliterates all units. Abundant hairline Ca-veining with albitized? Haloes.
179.2 - 194.0	MxF	band	Fol-str	Still strongly silicified/albitized/sericitized in part. In some cases appears to be preferential to felsic intervals in others it completely obliterates mafic/felsic boundaries.		

Drill Log: CFD0184

Easting	584201.48	Hole Length	170 m	Prospect	Supremo T3	Drill Started	Apr 11, 2012	Comment
Northing	6974151.96	Azimuth	270 °	Target	T3	Drill Completed	Apr 13, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ	
Survey method	RTK GPS	Elevation	1243.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 10.6	FG	band	Fol-mod	Oxidized felsic gneiss
9.0 - 16.6			Pervasive Weak Silicification	Patchy Weak Albite
10.6 - 11.4	MV	mass		Large quartz-carbonate vein
11.4 - 16.6	FG	band	Fol-mod	similar felsic gneiss to previous
16.6 - 18.0	DIOR	cgrn		Old diorite dike, weakly foliated, fairly fresh, cut by uncommon quartz veins
16.6 - 18.0			Selective Repl Weak Chlorite	
18.0 - 24.0	FG	band	Fol-mod	Felsic gneiss intruded by short dacite dikes, which are fairly fresh
18.0 - 24.0			Pervasive Weak Silicification	
24.0 - 25.1	FC	phyr		dacite dike, some phenocrysts still visible, rare small specks of sooty pyrite
25.0 - 28.5			Pervasive Weak Silicification	Patchy Moderate Clay
25.1 - 28.5	FG	augn	Fol-mod	More felsic gneiss, becomes clay altered towards end of unit
28.5 - 30.1	FC	phyr		Another dacite, a little more oxidized than the previous version especially at margins, rare sooty pyrite
30.1 - 52.0	FG	band	Fol-mod	Long interval of altered felsic gneiss, rare augens, not much limonite, rare patches of brassy py
30.1 - 52.0			Pervasive Weak Silicification	Patchy Weak Albite Patchy Weak Clay
52.0 - 54.1	FG	mass	Fol-wk	Very altered FG, well mineralized, but short
52.0 - 54.1			Patchy Intense Silicification	Patchy Moderate Albite
54.1 - 73.0	FG	band	Fol-mod	Mixture of felsic gneiss and old diorite dikes, patchy QS alteration with assoc. rare sooty pyrite
54.1 - 63.8			Pervasive Weak Silicification	Patchy Weak Sericitisation
63.8 - 73.0			Pervasive Weak Silicification	Patchy Weak Albite Patchy Weak Sericitisation
73.0 - 79.7	IV	mgrn		Fn to med grained mafic dike, separated by lobe of FG, poor contacts, minor visible chill margin on lower contact.
79.7 - 89.4	FG	augn	Fol-str	Augen bearing felsic gneiss, local strong diss limonite and hem within highly deformed gneiss. Minor clay replacement.
79.7 - 99.0			Patchy Moderate Silicification	
89.4 - 90.0	FC	fgrn		Aphanitic non phenocrystic dacite dike, minor planar calcite veins.
90.0 - 127.0	FG	band	Fol-mod	Locally augen bearing felsic gneiss, moderate silicification, clay replacement and sericitization is patchy. Weak fracture controlled limonite throughout locally up to 3% with intense clay.
99.0 - 105.1			Patchy Moderate Silicification	Patchy Moderate Clay
109.7 - 116.2			Patchy Moderate Albite	Pervasive Moderate Silicification
127.0 - 161.3	MxF	band	Fol-mod	Felsic gneiss and bt-amph schist. Local intervals of med gr. Mafic dike. Chlorite, sericite, silicification present.
129.2 - 141.0			Patchy Moderate Clay	Patchy Weak Silicification
141.0 - 143.0			Patchy Moderate Clay	Pervasive Moderate Silicification
159.1 - 162.0			Pervasive Moderate Silicification	Patchy Moderate Clay
161.3 - 161.3	PyF	bxi		Short clay/sulphide matrix bx. Angular silicified clasts

161.3 - 170.0	MxM	band	Fol-mod	Mixture of bt-amph schist and grey felsic gneiss
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Drill Log: CFD0185

Easting	584222.69	Hole Length	223.05 m	Prospect	Supremo T3	Drill Started	Apr 13, 2012	Comment
Northing	6974152.73	Azimuth	266 °	Target	T3	Drill Completed	Apr 17, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1243.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments			
0.0 - 9.0	OVB						
9.0 - 33.5	MxF	augn	Fol-mod	Commonly augen bearing gneiss, mafic segregations dominated by amphibole and qtz. Weak disseminated limonite and hematite.			
9.0 - 93.6			Pervasive Weak Silicification	Patchy Weak Albite			
33.5 - 33.6	FC	phyr	Fol-wk	Relict feldspars stretched into weak fabric foliation parallel.			
33.6 - 37.4	FG	augn	Fol-str	FG, minor patchy albite altn and fracture controlled limonite.			
37.4 - 37.7	FC	fgrn		Aphanitic, sharp contacts with FG			
37.7 - 38.9	FG	augn	Fol-str	FG, augen bearing, minor limonite.			
38.9 - 39.4	FC	fgrn		Aphanitic, sharp contacts with FG			
39.4 - 42.0	FG	band	Fol-mod	FG, augen bearing, minor limonite.			
42.0 - 42.8	FC	fgrn		Aphanitic, sharp contacts with FG			
42.8 - 52.6	MxF	band	Fol-mod	FG, rarely augen bearing, minor limonite.			
52.6 - 53.9	FC	fgrn		Aphanitic, sharp contacts with FG			
53.9 - 95.4	MxF	augn	Fol-str	FG, augen bearing, minor limonite.			
93.6 - 109.4			Patchy Weak Clay	Patchy Weak Albite			Weak to moderate clay replacement, clay fault at 103.95
95.4 - 97.1	FC	fgrn		Aphanitic, sharp contacts with FG			
97.1 - 101.3	MxF	band	Fol-mod	Patchy 1% FC limonite and bleached felsic gneiss			
101.3 - 102.6	IV	mass		Mafic dike, aphanitic, non porphyblastic			
102.6 - 112.7	FG	band	Fol-mod	Fracture controlled limonite and albite altn			
112.7 - 113.2	FC	phyr		Aphanitic, sharp contacts with FG			
113.2 - 149.0	MxF	band	Fol-mod	Felsic gneiss, commonly augen bearing, patchy 1-2% limonite and clay altn			
118.8 - 125.3			Patchy Weak Albite	Patchy Weak Silicification			
125.3 - 139.7			Patchy Strong Silicification	Patchy Moderate Clay			Patchy strong silica associated with fine grain sulphide. Intense clay for 20 cm at 138.9
139.7 - 142.5			Patchy Moderate Silicification	Patchy Weak Sericitisation			
148.2 - 148.5			Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation			
149.0 - 166.8	MxM	band	Fol-mod	Amph-Bt schist dominated, moderate chlorite replacement.			
159.7 - 173.0			Patchy Moderate Silicification	Selective Repl Moderate Albite			
166.8 - 176.9	FG	band	Fol-mod	Patchy strong silicification and albite altn. Patchy moderate clay replacement.			
173.0 - 179.4			Replaces Felsics Strong Clay	Patchy Moderate Silicification	Patchy Moderate Sericitisation		Patchy strong clay replacing micas, locally pervasive, commonly along foliation planes combo'd with limonite.
176.9 - 179.1	IV	pblst		Strongly altered intermediate dike, relict textures observed. 60% pervasive clay altn			

179.1 - 180.9	YC	bxi	Limonitic clay matrix breccia, angular to sub angular clasts. Locally intensely silicified.			
		179.4 - 180.9	Pervasive Intense Clay	Selective Repl Strong Silicification		~70 silicified clast breccia, intense limonitic clay matrix, locally silicified.
180.9 - 183.3	HU	silc	Silica flooded, 5% fine grain sulphide, local vein breccias, patchy relict dike textures?			
		180.9 - 186.3	Patchy Strong Silicification	Selective Repl Moderate Sericitisation	Patchy Moderate Clay	
183.3 - 184.5	YC	matx				
184.5 - 185.0	IV	silc				
185.0 - 186.0	FG	silc				
186.0 - 186.2	YO	bxi				
186.2 - 187.4	IV	pblst				
		186.3 - 207.0	Patchy Moderate Sericitisation	Patchy Weak Albite		
187.4 - 223.1	MxM	band	Fol-mod			
		207.0 - 207.3	Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation		
		207.3 - 223.1	Patchy Moderate Silicification			

Drill Log: CFD0186

Easting	584125	Hole Length	128 m	Prospect	Supremo T3	Drill Started	Apr 14, 2012	Comment
Northing	6974100	Azimuth	270 °	Target	T3	Drill Completed	Apr 17, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	estimated	Elevation	1229.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments			
0.0 - 9.7	OVB			Mix of soil and gneissic boulders.			
9.7 - 10.9	MxM	biot	Fol-str	Mafic schist. Oxidized.			
10.9 - 12.1	HU	mud		Zone. Strong clay alteration in part with associated strong limonite. ~3000ppm As. Relict gneissic texture. Mafic dominant.			
		10.9 - 12.3	Pervasive Strong Clay		Selective Repl Moderate Sericitisation		Zone of intense limonitic clay alteration. White mica on relict foliation planes.
12.1 - 14.8	MxM	biot	Fol-str	Strongly foliated mafic schist.			
		12.3 - 22.4	Patchy Moderate Silicification		Replaces Felsics Moderate Albite	Replaces Felsics Moderate Sericitisation	Interval largely silicified. Patchy albite replacement of felsics or pervasive in part.
14.8 - 29.3	MxF	band	Fol-str	Felsic dom. Rare plag augen. Silicified in part- patchy. Minor bleaching. At 22.7- 5cm wide zone of strong limonite/clay alteration (>1000ppm As) bleached to either side. Limonite on fractures throughout interval. Additional minor zone at 25.7- 26m- characterized by moderate clay/sericite alteration, minor siliceous banding and limonite on fracture planes (>1500ppm As).			
		22.4 - 23.0	Replaces Felsics Moderate Clay		Replaces Felsics Moderate Sericitisation		Narrow zone where feldspars have partially broken down to cl
		23.0 - 25.6	Patchy Moderate Silicification		Replaces Felsics Moderate Sericitisation	Replaces Felsics Weak Albite	
		25.6 - 26.0	Replaces Felsics Moderate Clay		Replaces Felsics Moderate Sericitisation		Mineralized zone with moderate clay alteration and limonite. Abundant sericite.
		26.0 - 35.0	Patchy Moderate Silicification		Replaces Felsics Moderate Sericitisation		Patchy silicification. Sericite throughout. Zone at 33m appears be associated with silification.
29.3 - 40.4	MxF	band		Felsic dom. Patchy zones of increased fracturing (29.3-31.0m, 35-37.37m, 39-40.35m), limonite on fracture planes through broken zones with increased As. Patchy silicification/bleaching. Bleaching increasing towards end of interval.			
		35.0 - 40.3	Replaces Felsics Moderate Albite		Replaces Felsics Weak Clay	Replaces Felsics Moderate Sericitisation	Bleached zone. Albite replacement of plag. White mica throughout- foliation parallel.
		40.3 - 41.0	Replaces Felsics Moderate Clay		Replaces Felsics Moderate Sericitisation		Mineralized with moderate clay alteration. Mafics still partially recognizable.
40.4 - 41.5	HU	mud		Zone. Strongly altered to clay with limonite pervasive throughout.			Limonite-hematite veining at 40.9-41.0m. Patchy silicification. Vuggy (after carbonate?).
		41.0 - 60.4	Patchy Moderate Silicification		Replaces Felsics Moderate Albite	Replaces Felsics Moderate Sericitisation	Alternating sequences of silification vs. albitization (bleached zones). Sericite throughout. From 47.2-48. Vuggy with open spaced quartz crystallisation. Plag exhibiting weak clay alteration
41.5 - 50.2	MxF	augn	Fol-str	Patchy limonitic alteration throughout-largely fracture controlled. Vuggy in part with open spaced quartz crystallization. Patchy silicification/albite/sericite.			
50.2 - 50.6	MxF	band	Fol-mod	Zone- narrow. Patchy oxidation. Unoxidized characterized by fine grey, silica+sericite+felpar +/- pyrite matrix with blebby pyrite overgrowing foliation. Oxidized patches strongly limonitic/hematitic.			
50.6 - 60.4	MxF	augn		Pervasive limonite. Trace sulphidic banding trending parallel to foliation (replaced by limonite, pyrite overgrowing foliation) around 58m. Abundant fracturing. Minor quartz veining foliation parallel.			

60.4 - 63.2	MxF	band		Zone. Strongly altered to clay. Limonitic throughout. Gneissic precursor. Dismembered quartz veins. Alternating intervals with preserved mafics and completely altered clay.				
		60.4 - 63.0		Replaces Felsics Moderate Clay	Pervasive Moderate Clay	Replaces Felsics Moderate Sericitisation	Increase clay alteration. Patchy throughout with local zones of intense clay alteration with no relict texture (62.7-63.0m)	
		63.0 - 65.0		Replaces Felsics Moderate Sericitisation	Replaces Felsics Moderate Albite	Weak Silicification		
63.2 - 70.1	MxF	silc		Intense silicification in part. From 65-66m- opaque quartz vein, intensely fractured with disseminated limonite (after py) throughout. From 66.2- 66.6m: moderate clay alteration with pervasive limonite. Continued quartz-veining downhole- 3 sets: one parallel to foliation, second trending parallel to core axis, third is dismembered with offset. Increased fracturing down-hole.				
		65.0 - 66.0		Pervasive Strong Silicification	Replaces Felsics Weak Sericitisation	Replaces Felsics Weak Albite	Core axis parallel quartz vein. Fractured with dismembered py throughout (along fractures). Silicified margins. Weak brecciated	
		66.0 - 67.7		Pervasive Moderate Clay	Replaces Felsics Moderate Sericitisation		Moderately altered to clay. Moderate limonite + hematitic clay Vuggy in part.	
		67.7 - 70.0		Patchy Moderate Silicification	Replaces Felsics Moderate Sericitisation	Replaces Felsics Moderate Albite	Patchy silicification throughout interval (foliation parallel quartz veining). Silicification intensifying down-hole.	
		70.0 - 72.0		Pervasive Strong Silicification	Patchy Moderate Clay		Strong pervasive silicification. Brecciated in part. Zone with limonitic clay fault gouge with silicified rounded clasts.	
70.1 - 75.2	YC	bx		Zone. Brecciated interval. Mix of intensely silicified breccia- pervasive silicification, clasts not rotated, limonitic stringers throughout. From 72m-74m, ~80% core loss. From 72m to 74m: silicified clast breccia with limonitic clay matrix. Clay becoming less limonitic/brecciated down-hole.				
		72.0 - 74.8		Pervasive Strong Clay	Pervasive Moderate Silicification	Replaces Felsics Moderate Sericitisation	Fault breccia with clay matrix and preserved silicified clasts. Limonite-in-clay content decreases throughout interval.	
		74.8 - 79.9		Patchy Moderate Silicification	Replaces Felsics Moderate Albite	Replaces Felsics Moderate Albite		
75.2 - 77.6	MxF	band		Pervasive oxidation. Weak limonite staining throughout and on fracture planes. Moderate albite and weak clay alteration in part.				
77.6 - 81.3	MxF	silc	Fol-str	Strongly silicified interval. From 80-80.85m intense silicification. At 80.45 massive pyrite along quartz vein selvage. Patchy albite. Partially oxidized- patchy limonite staining. Unoxidized windows with albite+sercite+silica alteration with possible fg. Pyrite. Low As levels.				
		79.9 - 80.9		Pervasive Strong Silicification	Replaces Felsics Moderate Albite		Strong silicification. Margins of silica flooding contain pyrite (patchy/blebby).	
		80.9 - 89.3		Patchy Moderate Silicification	Replaces Felsics Moderate Albite	Replaces Felsics Moderate Sericitisation	Albite + sercite pervasive in part (patchy bleaching).	
81.3 - 86.0	MxF	band	Fol-str	Mixed gneiss. Possible mafic dyke from 82.06-82.69m- porphyroblasts of feldspar with calcite haloes, strong fabric- intensifying at margins. Patchy silicification/albite/sercite throughout. Transitions into felsic dominated down-hole.				
86.0 - 89.5	MxF	silc	Fol-str	Zone of increased albitization of plagioclase. Strong patchy silicification. On selvages of intense silicification is blebby-massive pyrite (1-2%). Fracture controlled limonite. Sercite throughout. Interval cross-cut by sets of foliation perpendicular veins (mm-scale)- majority are Fe-carb, some have strongly limonitic cores, others are fg- biotite? + quartz.				
		89.3 - 90.8		Selective Repl Moderate Clay			Zone in middle of diorite dyke- fracture controlled clay alt(limonitic). Basal contact of dyke is strongly altered to clay. Largely, matrix is limonitic clay with preserved feldspar+qtz phenocrysts. Primary textures obliterated by limonitic clay at contact	
89.5 - 90.8	DIOR	mgrn		Medium grained, equigranular quartz diorite dyke with limonitic contacts. Basal contact is strongly limonitic and altered to clay. Limonitic clay has replaced the matrix with partial preservation of the plagioclase and quartz phenocrysts in the bottom 20cm of the dyke. Dyke looks weakly sericitised. Upper contact is moderately silicified with lesser limonite.				
90.8 - 105.8	MxF	band	Fol-str	Mixed gneiss with patchy- silicification. Sercite alteration throughout. Trace blebby pyrite disseminated- altered to hematite giving core a red spotted appearance. Intervals where pyrite is unoxidized and is commonly euhedral and growing along foliation. Patchy limonite- fracture controlled- weak staining.				
		90.8 - 105.8		Selective Repl Moderate Sericitisation	Patchy Weak Silicification	Replaces Felsics Weak Albite		
105.8 - 106.3	MBSLT	fgrn	Fol-mod	Fine grained mafic dyke? Possible compositional layer in gneiss- however margins appear re-crystallised making it difficult to distinguish. Interval is preferentially carbonate + chlorite altered. Well developed foliation. Cubic pyrite crystals at contacts.				
		105.8 - 106.3		Replaces Mafics Moderate Chlorite	Patchy Moderate Calcite		Selective replacement of mafic dyke.	
106.3 - 119.2	MxF	augn	Fol-str	Mixed gneiss. Weak ser+silica alteration. Uniform banding, felsic dominated. Unoxidized.				
		106.3 - 119.7		Replaces Felsics Moderate Sericitisation	Patchy Weak Silicification	Replaces Felsics Weak Albite		

119.2 - 119.7	IV	pblst	Intermediate dyke, aphanitic ground mass loacl feldspar pblasts.		
		119.7 - 120.0	Patchy Weak Clay	Patchy Weak Silicification	
119.7 - 128.0	MxF	augn	Fol-str	Mixed gneiss. Weak ser+silica alteration. Uniform banding, Felsic dominated. Unoxidized.	
		120.0 - 128.0	Patchy Weak Silicification		

Drill Log: CFD0187

Easting	584122.87	Hole Length	119 m	Prospect	Supremo T3	Drill Started	Apr 17, 2012	Comment
Northing	6974046.7	Azimuth	270 °	Target	T3	Drill Completed	Apr 18, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ	
Survey method	RTK GPS	Elevation	1213.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 11.7	OVB			
11.7 - 21.6	Amph	band	Fol-str	Dark green amphibolite, two small faults at 14.1 and 17.6, grades to MxM by 18.5
		11.7 - 21.6	Selective Repl	Weak Epidote Patchy Moderate Clay
21.6 - 33.8	MxF	band	Fol-mod	Felsic gneiss with two small intervals of diorite/mafic schist
		21.6 - 33.8	Pervasive Weak	Silicification
33.8 - 35.4	FG	band	Fol-wk	Short interval of mineralized felsic gneiss
		33.8 - 35.4	Pervasive Moderate	Silicification
35.4 - 65.2	FG	band	Fol-mod	Oxidized felsic gneiss
		35.4 - 65.2	Pervasive Weak	Silicification Patchy Weak Albite
65.2 - 68.4	FG	band	Fol-wk	Short zone, moderately mineralized
		65.2 - 68.4	Pervasive Weak	Silicification Pervasive Weak Clay
68.4 - 70.0	MxM	band	Fol-mod	Mostly folited mafic material, is fresh from start of unit to 69.4
		68.4 - 70.0	Patchy Weak	Silicification Pervasive Weak Clay
70.0 - 83.1	FG	band	Fol-mod	Zone shoulder, felsic gneiss, weakly mineralized, feldspar pitting from 73.4-74.6
		70.0 - 83.1	Pervasive Weak	Silicification Pervasive Weak Clay
83.1 - 86.1	YC	bx		Zone, mixed felsic gneiss and breccia, mostly washed away
		83.1 - 86.1	Patchy Moderate	Clay Patchy Moderate Silicification
86.1 - 89.2	FG	band	Fol-mod	Weak zone, felsic gneiss with small patches of breccia
		86.1 - 97.0	Pervasive Weak	Clay Patchy Weak Silicification
89.2 - 97.0	FG	band	Fol-mod	Zone shoulder, waning mineralization and alteration, small breccia vein at 90.36
97.0 - 104.7	FG	band	Fol-mod	Felsic gneiss, patches of limonite and rare sooty py veins
		97.0 - 104.7	Pervasive Moderate	Silicification Patchy Weak Clay Patchy Weak Albite
104.7 - 105.5	MV	mass		Large quartz vein, may contain relict lamination but unsure, contains limonite in fracture network
		104.7 - 105.5	Pervasive Moderate	Silicification Fracture Controlled Weak Clay
105.5 - 113.3	MxF	band	Fol-mod	Felsic gneiss, patchy strong clay and limonite, sooty stringers
		105.5 - 113.3	Pervasive Moderate	Silicification Patchy Moderate Clay Replaces Felsics Weak Albite
113.3 - 115.0	IV	phyr		Altered undeformed plag porphyritic andesite
		113.3 - 115.0	Pervasive Strong	Chlorite
115.0 - 119.0	MxF	augn	Fol-mod	Nearly fresh felsic gneiss and mafic schist
		115.0 - 119.0	Patchy Moderate	Silicification Patchy Moderate Chlorite

Drill Log: CFD0188

Easting	584147.93	Hole Length	134 m	Prospect	Supremo T3	Drill Started	Apr 17, 2012	Comment
Northing	6974098.83	Azimuth	270 °	Target	T3	Drill Completed	Apr 18, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ	
Survey method	RTK GPS	Elevation	1228.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 17.0	FG	augn	Fol-str	Augen bearing felsic gneiss, minor fracture controlled limonite and disseminated hematite
		9.0 - 17.0	Patchy Weak Silicification	
17.0 - 24.0	DIOR	mgrn		Fine to med grained intermediate dike, local strong limonite and clay alteration.
		17.0 - 24.0	Patchy Moderate Clay	
24.0 - 28.2	FG	band	Fol-mod	Highly broken FG with weak lim
		24.0 - 28.2	Pervasive Weak Silicification	
28.2 - 35.2	FG	band	Fol-mod	Felsic gneiss, less limonite than previous FG
		28.2 - 35.2	Pervasive Weak Silicification	Patchy Weak Clay
35.2 - 36.6	DIOR	mass		Fresh diorite
		35.2 - 36.6	Selective Repl Weak Epidote	
36.6 - 48.0	FG	band	Fol-mod	Felsic gneiss, rare augens, 5cm YC intervals at 42.7 and 44.2
		36.6 - 48.0	Pervasive Weak Silicification	Patchy Weak Clay
48.0 - 52.8	FG	band	Fol-wk	Felsic gneiss with hm after fs, stick rock
		48.0 - 52.8	Pervasive Moderate Silicification	Patchy Weak Albite
52.8 - 67.5	MxF	band	Fol-mod	Dominantly felsic gneiss with some mafic bands, limonite increasing but patchy
		52.8 - 67.5	Pervasive Weak Silicification	Selective Repl Weak Clay
67.5 - 77.9	MxF	band	Fol-mod	Similar unit to previous, but more mineralized
		67.5 - 77.9	Pervasive Weak Silicification	Pervasive Weak Sericitisation Patchy Weak Clay
77.9 - 89.5	FG	band	Fol-mod	Felsic gneiss, patchy lim, diss py
		77.9 - 89.5	Pervasive Weak Silicification	Weak Albite
89.5 - 94.6	FG	augn	Fol-mod	Felsic gneiss, zone shoulder, 0.5% limonite, patchy sooties, clay+ab alt
		89.5 - 94.6	Selective Repl Moderate Clay	Patchy Weak Silicification
94.6 - 96.9	FG	augn	Fol-mod	Zone, felsic gneiss, good alt+min
		94.6 - 96.9	Patchy Moderate Silicification	Patchy Moderate Clay Patchy Weak Sericitisation
96.9 - 106.5	YC	bx		Zone, made up of 5cm-1m intervals of YC with clay matrix. The FG is also highly fractured and barely held together.
		96.9 - 106.5	Pervasive Strong Silicification	Fracture Controlled Strong Clay
106.5 - 115.6	FG	band	Fol-mod	Tail end of zone, felsic gneiss with decent alt and min
		106.5 - 115.6	Patchy Moderate Silicification	Fracture Controlled Weak Clay
115.6 - 122.9	FG	band	Fol-mod	Zone shoulder, weakly mineralized felsic gneiss
		115.6 - 122.9	Pervasive Moderate Silicification	Patchy Weak Albite
122.9 - 124.1	IV	cgrn		Plag and amph porphyritic andesite, undeformed, silicification of groundmass
		122.9 - 124.1	Selective Repl Weak Silicification	

124.1 - 134.0	MxF	band	Fol-mod	Felsic gneiss, moderately altered with fresh patches
124.1 - 134.0		Pervasive Moderate Silicification		Patchy Weak Sericitisation

Drill Log: CFD0189

Easting	584174.58	Hole Length	152 m	Prospect	Supremo T3	Drill Started	Apr 18, 2012	Comment
Northing	6974100.74	Azimuth	270 °	Target	T3	Drill Completed	Apr 20, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1228 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
		0.0 - 68.9	Patchy Weak Albite	Patchy Weak Silicification
9.0 - 51.8	MxF	band	Fol-str	Felsic gneiss dominated, local 0.5% disseminated limonite and albite altn.
51.8 - 55.8	IV	mgrn		Med to fine grain mafic dike, locally altered with patchy disseminated limonite.
55.8 - 82.0	MxF	band	Fol-str	Mixed gneiss, patchy moderate silicification and weak clay altn. Minor zones of disseminated or fracture controlled limonite.
		68.9 - 72.0	Selective Repl Weak Clay	
82.0 - 102.0	FG	amyg	Fol-str	Augen gneiss, moderately silicified
		93.0 - 103.0	Patchy Moderate Silicification	Patchy Weak Clay
102.0 - 113.6	FG	silc		Intensely silicified and mineralized felsic gneiss. Background foliation can be seen, patchy strong clay created fraile unit.
		103.0 - 121.4	Pervasive Moderate Silicification	Patchy Moderate Clay
				Selective Repl Moderate Sericitisation
				Intensely silicified felsic gneiss, disseminated pyrite with minor brassy pyrite blebs. Patchy clay alteration.
113.6 - 117.9	HU	silc		Possible dacite dike unit, Intensely silicified. 50% oxidized disseminated pyrite, 50% sulphide facies.
117.9 - 121.0	FG	silc		3 % disseminated limonite, strong silicification, patchy moderate clay.
121.0 - 123.3	YC	bxi		Clay matrix bx, intensely silicified clasts, very friable, locally strong. 1% disseminated pyrite transtional facies.
		121.4 - 123.5	Pervasive Intense Clay	Pervasive Intense Silicification
				Selective Repl Moderate Sericitisation
123.3 - 128.2	HU	silc		Fine grain sooty sulphide, intensely silicified with moderate clay altn. Weakly oxidized locally.
		123.5 - 128.3	Patchy Moderate Clay	Pervasive Strong Silicification
128.2 - 128.8	YC	bxm		Strong clay and limonite matrix brecca. 0.5 to 1% disseminated limonite.
		128.3 - 134.0	Patchy Intense Clay	Pervasive Strong Silicification
128.8 - 134.3	FG	mylo	Fol-str	Foliation present and coarse qrtz fragments (augens?) fabric is visible but highly altered, intense silica, clay and sulphide content. Locally HU with 80% clay/limonite. Sulphide content 5-10%.
134.3 - 152.0	MxF	band	Fol-str	Patchy bleaching of fresh gneiss with minor fracture controlled limonite.

Drill Log: CFD0190

Easting	584146.68	Hole Length	185 m	Prospect	Supremo T3	Drill Started	Apr 19, 2012	Comment	Drill stopped due to water shortage
Northing	6974052.39	Azimuth	275 °	Target	T3	Drill Completed	Apr 27, 2012		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	AFage	Core Size	NQ		
Survey method	RTK GPS	Elevation	1214.5 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			
9.0 - 28.0	MxF	augn	Fol-mod	Felsic dominant gneiss, patchy limonite, oxidized. 5cm patches of YC
		9.0 - 28.0	Patchy Moderate Albite	Patchy Weak Clay
28.0 - 32.6	DIOR	mgrn		Variably altered/fresh and mineralized/barren diorite dike. Fresh sections are magnetic
		28.0 - 32.6	Patchy Moderate Clay	
32.6 - 57.0	FG	band	Fol-mod	Felsic gneiss, patchy alt and mineralization
		32.6 - 57.0	Pervasive Weak Silicification	Patchy Weak Sericitisation Patchy Weak Clay
57.0 - 97.5	MxF	silc	Fol-str	Mixed felsic augen gneiss and fresh mafic schist, variably silicified, patch of clay+limonite 58.85-59.3. .5% disseminate limonite with quartz-sericite alteration 66.5-72.6; 77.75-82.
		57.0 - 61.2	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Patchy Weak Clay
		61.2 - 63.5	Pervasive Weak Silicification	Patchy Weak Clay
		63.5 - 84.7	Pervasive Weak Silicification	Patchy Weak Clay Pervasive Moderate Sericitisation
		84.7 - 97.4	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
		97.4 - 99.4	Pervasive Moderate Chlorite	
97.5 - 99.5	DIOR	fgrn	Fol-mod	Moderately foliated, fresh (weakly chlorite altered) diorite
		99.4 - 110.0	Patchy Weak Clay	Pervasive Moderate Sericitisation Patchy Weak Silicification
99.5 - 110.0	FG	silc	Fol-str	Weakly to moderately altered FG, 0.5% limonite to 105.9m 2-3% limonite and hematite from 105.9-108.05m, 0.5% limonite to 109.95. variably silicified with moderate sericite alteration. Blocky
110.0 - 114.1	YC	bxv		Silicified clast breccia, dominant clay-limonite matrix with 10-20cm zones of silicified limonite rich matrix. 1-3% limonite . Milled .3-3cm silicified clasts throughout
		110.0 - 114.1	Replaces Matrix Strong Clay	Replaces Clasts Strong Silicification Patchy Moderate Silicification
114.1 - 144.7	MxF	silc	Fol-str	mixed gneiss. .5-1% limonite up to 136.4m. Bleaching, sericite, silicification throughout. 1% Brecciated 3-5cm brecciated limonite-chalcedony veins from 128-134m.
		114.1 - 119.8	Patchy Moderate Clay	Pervasive Moderate Sericitisation Pervasive Moderate Silicification
		119.8 - 122.3	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Patchy Weak Albite
		122.3 - 136.5	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
		136.5 - 147.2	Pervasive Moderate Albite	Pervasive Weak Silicification Pervasive Weak Sericitisation
144.7 - 145.0	IV			porphyritic fresh andeste dike
145.0 - 150.7	MxF	silc	Fol-str	mixed gneiss. Patchy bleaching, silicified
		147.2 - 185.0	Pervasive Moderate Silicification	Patchy Weak Chlorite Patchy Weak Epidote
150.7 - 155.8	DIOR	mgrn	Fol-wk	weakly foliated diorite
155.8 - 167.2	MxF	silc	Fol-str	silicified mixed gneiss
167.2 - 167.3	IV			andesite? Dike
167.3 - 168.0	FG	silc	Fol-str	silicified felsic gneiss

168.0 - 168.7	IV				porphyritic andesite dike
168.7 - 185.0	MxF	silc	Fol-str		silicified mixed gneiss. First 23cm following andesite dike is foliated diorite with a 2cm qtz vein with 2-5% blebby pyrite

Drill Log: CFD0191

Easting	584200	Hole Length	200 m	Prospect	Supremo T3	Drill Started	Apr 26, 2012	Comment
Northing	6974100	Azimuth	276 °	Target	T3	Drill Completed	Apr 28, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	estimated	Elevation	1228.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.4	OVb	band	Fol-mod	over burden, felsic-dominated gneiss boulders
9.4 - 10.5	FG	band		weathered, moderately limonitic-fracture controlled, buggy
10.5 - 20.1	IV	fgrn		Undeformed, fine-grained, intermediate dyke, rare phenocrysts of plagioclase. From 16.5 to 17.8m broken ground, possibly a lens of felsic-gneiss or felsic dacite dyke?). Lens is strongly altered, bleached with limonite on fracture planes- very broken.
		10.8 - 13.0	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Clay
		13.0 - 14.0	Fracture Controlled Strong Clay	Replaces Mafics Weak Chlorite
		16.0 - 17.4	Pervasive Moderate Clay	
		17.4 - 21.5	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Clay
20.1 - 24.1	FG	band		Weak Zone-Strongly altered. Pervasive limonite- disseminated and fracture controlled, patchy silicification. From 21.2-21.33m- mafic interval- remnant gneissic banding with porphyroblastic texture.
		21.5 - 38.8	Patchy Moderate Silicification	Selective Repl Weak Sericitisation
24.1 - 28.4	FG	band	Fol-str	Silicified interval. Uniformly banded. Blebby pyrite (mm-scale) throughout.
28.4 - 38.4	FG	band		Pervasive limonite + hematite staining throughout-largely fracture controlled. Patchy silification (in and out of zones of intense silification), strong albite after plag
38.4 - 49.9	FG	silc		Intensely silicified interval, broken ground. Limonite + hematite on fractures. Vuggy in part- after carbonate?
		38.8 - 42.5	Pervasive Strong Silicification	
		42.5 - 46.0	Selective Repl Moderate Clay	Selective Repl Moderate Sericitisation
		46.0 - 51.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
49.9 - 51.6	MxF	band	Fol-str	Variably altered. Patchy silicification. Segregations of biotite schist altered to chlorite.
		51.0 - 56.6	Selective Repl Strong Clay	Patchy Moderate Silicification
51.6 - 53.0	MxF	band		Zone. Variably altered interval. Broken ground. From 52-53m- strong clay alteration (HU), intensely limonitic (~5%), ~75% core loss within zone.
53.0 - 88.6	MxF	band	Fol-str	Variably altered mixed gneiss. Patchy silicification. Moderately fractured. Limonite on fracture planes. Hematite disseminated throughout. Mafic intervals altered to chlorite.
		56.6 - 64.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
		64.0 - 68.8	Pervasive Strong Silicification	
		68.8 - 73.0	Patchy Moderate Silicification	Selective Repl Moderate Albite
		73.0 - 88.6	Patchy Moderate Sericitisation	Selective Repl Moderate Albite
88.6 - 91.8	IV	fgrn		andesite with variable texture. Medium grained, massive to porphyritic. Altered and broken in parts
		88.6 - 91.8	Fracture Controlled Weak Clay	

91.8 - 99.2	FG	band	zone. Pervasive limonte. Patchy hematite. Moderate clay and sericite alteration. strongly fractured. 98.15-98.3 mature breccia with limonite and white clay matrix. medium size quartz clasts.		
91.8 - 99.2		Pervasive Moderate Clay		Selective Repl Moderate Sericitisation	
99.2 - 118.2	MxF	band	Fol-str	variably altered. Felsic gneiss, fracture controlled limonite, patchy hematite. Patchy epidote. Trace blebby pyrite throughout.	
99.2 - 110.0		Patchy Moderate Silicification		Selective Repl Weak Sericitisation	Patchy Moderate Albite
110.0 - 119.0		Patchy Moderate Silicification		Selective Repl Moderate Sericitisation	Selective Repl Moderate Albite Calcite and epidote associated giving core a patchy appearance
118.2 - 129.5	FG	band	Fol-str	Interval more limonitic then previous. Albite alteration intensifying with patchy zones of clay after plagioclase. Blebby sulphides overgrowing foliation (fine-grained biotite +/- ser + chl.	
119.0 - 120.9		Selective Repl Moderate Clay		Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
120.9 - 129.6		Pervasive Strong Silicification		Selective Repl Moderate Albite	Selective Repl Strong Sericitisation
129.5 - 134.4	FG	band		Zone. Strongly limonitic (~2-3%) + hematite (1%), disseminated, in-vein and fracture controlled. Moderate clay alteration-strong on fractures. Sericite throughout.	
129.6 - 134.4		Pervasive Moderate Clay		Pervasive Strong Sericitisation	
134.4 - 136.7	MxF	band	Fol-str	Patchy silicification + albite. Trace blebby pyrite. Thick interval (>1m) of foliated mafics- biotite dominated, possible dyke or volcanic.	
134.4 - 137.0		Patchy Moderate Silicification		Selective Repl Moderate Albite	Selective Repl Strong Sericitisation
136.7 - 140.6	MxF	band	Fol-str	Weak Zone. Limonite throughout. Moderately clay altered. Strong sericitisation. Vuggy and broken.	
137.0 - 140.3		Selective Repl Strong Clay		Selective Repl Moderate Sericitisation	
140.3 - 147.7		Patchy Moderate Silicification		Selective Repl Moderate Albite	Replaces Mafics Moderate Chlorite
140.6 - 147.8	MxF	band		Variably altered. Clay on fractures. Patchy limonite- largely fracture controlled. Chloritization of mafic intervals.	
147.7 - 150.2		Pervasive Strong Clay		Patchy Moderate Silicification	Selective Repl Strong Sericitisation
147.8 - 150.6	FG			Zone. From 148.4-149.0m - Hu, strongly limonitic (~5%), intense clay, no preservation of primary textures. Remainder of interval is pervasively limonitic (~3%) with moderate clay+ sericite alteration.	
150.2 - 157.2		Patchy Strong Albite		Pervasive Strong Silicification	Selective Repl Strong Sericitisation
150.6 - 159.7	FG	silc	Fol-str	Zone. Sooty sulphides throughout- disseminated, on fractures (very weak crackle texture) and in vein. Patchy oxidation. Variably altered- silica dominated with lesser albite and clay (bleached in part). Limonitic veining.	
157.2 - 158.8		Pervasive Strong Silicification		Pervasive Moderate Sericitisation	Selective Repl Weak Albite
158.8 - 165.1		Pervasive Strong Clay		Pervasive Moderate Sericitisation	
159.7 - 161.0	FG	bxi		Zone. Patchy silification. Limonite/hematite throughout (~5%). Weak breccia texture. Clay on fractures.	
161.0 - 162.4	HU	mud		Zone. Patchy Hu throughout interval with more siliceous zones where gneissic texture is weakly recognisable. HU is strongly altered to clay with limonite + hem up to 8%). Unoxidized windows of fine grained sericite + silica + ?chlorite + pyrite.	
162.4 - 165.1	YC	bxm		Zone. Immature to mature brecciated interval. Discrete zones, ~10cm wide of fault gouge material (siliceous clasts with white clay/limonite matrix). ~5% limonite throughout. Sooty pyrite on selvages of clasts in part. Dismembered opaque quartz veins.	
165.1 - 176.6	MxF	band	Fol-str	Mixed gneiss with frequent banding of weakly chloritic bt + amph schist. Patchy albite + silica alteration. Patchy hematite throughout.	
165.1 - 200.0		Patchy Moderate Silicification		Selective Repl Moderate Sericitisation	Selective Repl Moderate Albite
176.6 - 178.2	AmBtS	mgrn	Fol-str	Thick sequence of biotite+amph schist ithin gneissic package. Foliation parallel contact. Strong foliation.	
178.2 - 184.5	MxF	band	Fol-str	Variably altered mixed gneiss (si + alb +ser). Patchy hematite throughout (after biotite?)	
184.5 - 186.6	AmBtS	pblst	Fol-str	Thick sequence of biotite + amph schist with porphyroblasts of feldspar?/with calcite selvages	
186.6 - 190.5	FG	band	Fol-str	Moderate albite->clay alteration of feldspars. Patchy silification.	
190.5 - 191.4	AmBtS	mgrn	Fol-str	Calcareous, chloritized mafic schist.	

191.4 - 192.3	FG	band	Fol-str	
192.3 - 193.8	AmBtS	mgrn	Fol-str	
193.8 - 200.0	MxF	band	Fol-str	Variable altered mixed gneiss. Intercalated with biotite-amph schist. Hematite throughout.

Drill Log: CFD0192

Easting	584174.46	Hole Length	188 m	Prospect	Supremo T3	Drill Started	Apr 27, 2012	Comment
Northing	6974053.78	Azimuth	271 °	Target	T3	Drill Completed	Apr 30, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	RTK GPS	Elevation	1214.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 12.2	OVb			Overburden. Boulders of felsic gneiss. Very broken. Oxidized (HQ to 12.17m).
		12.0 - 16.6	Replaces Felsics Moderate Clay	Patchy Weak Silicification Selective Repl Moderate Sericitisation
12.2 - 16.6	MxF	band		Weak zone. Disseminated limonite throughout. Limonitic clay on fractures. Clay alteration of feldspars.
16.6 - 17.4	AmBtS	mgn	Fol-str	Chloritized, foliated, recrystallized mafic interval- dyke?
		16.6 - 17.4	Replaces Mafics Moderate Chlorite	
		17.4 - 31.2	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation Replaces Felsics Moderate Albite
17.4 - 25.1	FG	band	Fol-str	Silicified with patchy hematite throughout.
25.1 - 31.1	FG	band	Fol-mod	Silicified, albitized interval with little oxidation. Limonite on fracture planes.
31.1 - 37.1	FG	band		Limonitic (~1%) and hematitic (~1%), largely fracture controlled, disseminated in part.
		31.2 - 36.5	Patchy Moderate Silicification	Selective Repl Weak Clay Selective Repl Moderate Sericitisation
		36.5 - 64.1	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Replaces Felsics Moderate Albite
37.1 - 46.6	FG	band		Weak Zone (~2%) limonite throughout- pervasive and fracture controlled. Clay alteration of feldspar and strong on fracture planes.
46.6 - 52.0	FG	band		Limonite throughout (~1%), disseminated and fracture controlled. Weak clay alteration of feldspar.
52.0 - 64.1	MxF	silc	Fol-str	Variably altered, with silicification dominating. Hematite patchy throughout, limonite on fractures.
64.1 - 69.1	DIOR	mass		Medium grained. Massive. Rubby contact. Altered at basal contact -limonitic. In contact with dacite dike (dacite appears to cross-cut).
		64.1 - 69.0	Replaces Mafics Moderate Chlorite	Selective Repl Weak Clay
		69.0 - 92.3	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation Replaces Felsics Weak Clay
69.1 - 70.1	IV	fgrn		Upper contact with diorite dyke is strongly limonitic (~5%) and altered to clay.
70.1 - 92.3	MxF	augn	Fol-str	Variably altered gneiss. Rare mafic bands. Siliceous. Sericite throughout. Trace limonite on fractures. Patchy hematite.
92.3 - 97.5	MxF	augn	Fol-str	Feldspars moderately altered to clay. Limonite disseminated (~1%).
		92.3 - 97.5	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
97.5 - 104.4	FG	band	Fol-str	Albite + sericite throughout. Patchy limonite surrounding fractures. Silicified in part with patchy hematite. Fg black veins- ?sooty sulphides?
		97.5 - 114.3	Replaces Felsics Moderate Clay	Patchy Moderate Silicification Selective Repl Moderate Sericitisation

104.4 - 130.1	FG	band	Fol-str	Variably altered. In-and-out of siliceous intervals with pervasive disseminated hematite (~1%), weak clay altered zones with disseminated py and unoxidized grey (albite +sericitic) intervals with trace py.		
		114.3 - 115.0	Pervasive Strong Silicification	Patchy Moderate Epidote		
		115.0 - 130.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Patchy Weak Clay	
		130.0 - 142.5	Patchy Weak Silicification	Patchy Moderate Clay	Selective Repl Moderate Sericitisation	
130.1 - 140.6	MxF	band	Fol-str	Silica + sericite + hematite dominated interval. Loss of patchy clay. Rare limonite on fractures and sparse veins.		
140.6 - 144.2	AmBTs	biot	Fol-str	Bt + amph + ca schist. Strongly foliated. Chloritic. Interval becoming increasingly altered/limonitic down-hole.		
		142.5 - 144.2	Selective Repl Moderate Clay	Replaces Mafics Moderate Chlorite		
144.2 - 146.0	Ylim	bx		Strongly limonitic. Hematitic/siliceous clasts, Clasts are not obvious- weakly defined boundaries. ~8% limonite. From 144.15- 144.7m- HU, 15cm wide interval with sooty-clay appearance. Opaque quartz vein trending parallel to CA, ~3cm wide.		
		144.2 - 150.0	Selective Repl Strong Clay	Patchy Moderate Silicification	Selective Repl Strong Sericitisation	Brecciated interval. Matrix is clay dominated.
146.0 - 148.0	YO	bx		Breccia. Varying degrees of milling. In-and-out of oxidation. Majority of interval is comprised of siliceous clasts with grey-white clay matrix. Patchy limonite-hematite (~1%).		
148.0 - 149.8	Ylim	bx		Strongly limonitic matrix (~8%). Siliceous in part. Siliceous/hematitic clasts-angular. Discrete zones of HU throughout. Intense clay alteration in part- limonitic		
149.8 - 154.0	FG	silc	Fol-str	Intensely silicied interval. Strongly sericitic. Steep veins trending parallel to CA with fg bi+chl+ser? And blebby pyrite. Limonite on fractures.		
		150.0 - 153.8	Replaces Felsics Moderate Clay	Replaces Felsics Moderate Sericitisation		
		153.8 - 164.3	Pervasive Strong Silicification	Replaces Felsics Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
154.0 - 158.4	MxF	augn	Fol-str	Strong clay alteration of feldpsars. Vuggy in part. Limonite throughout (~1%).		
158.4 - 173.5	MxF		Fol-str	Variably altered interval. Alteration is strong throughout. Patchy silicification, pervasive albite. Strongly sericitic. From 159.44-160.18- opaqu quartz vein. Silicified intervals are hematitic. Trace limonite.		
		164.3 - 179.5	Selective Repl Strong Sericitisation	Selective Repl Strong Albite	Patchy Moderate Silicification	
173.5 - 176.3	FG		Fol-mod	Variably altered interval. Strong bleaching in part (From 173.6- 174.3m). Discrete zones of intense limonite/clay alteration (~5cm wide). Weakly brecciated at 173.62 (5 cm wide vein). Weak clay/limonite throughout remainder of interval (~1% lim). Preserved foliation.		
176.3 - 188.0	MxF	band	Fol-str	Patchy silicification. Chlorite alteration of mafic intervals. Mafic intervals becoming more frequent. Patchy hematite.		
		179.5 - 188.0	Replaces Mafics Moderate Chlorite	Patchy Weak Silicification		

Drill Log: CFD0193

Easting	584101.42	Hole Length	155 m	Prospect	Supremo T3	Drill Started	Apr 28, 2012	Comment
Northing	6974003.11	Azimuth	263 °	Target	T3	Drill Completed	Apr 30, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	RTK GPS	Elevation	1203 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 7.5	OVb			Felsic gneiss boulders. End of casing-HQ core
		0.0 - 11.6	Fracture Controlled Weak Clay	Patchy Moderate Silicification
7.5 - 11.6	MxF	band	Fol-str	Mixed gneiss. Vuggy in part. Weathered. Clay altered in part- after feldspar.
11.6 - 16.8	DIOR	mass		Equigranular- medium grained. Phenocrysts of plagioclase up to 7mm diameter. Sericite attering plag boundaries and ground mass. Recrystallized? Weakly silicified. Secondary calcite patchy throughout. Becoming more limonitic towards basal contact. Upper contact with MxF- irregular- erosive?
		11.6 - 15.6	Replaces Felsics Weak Sericitisation	Feldspars have a brown haze surrounding them.
		15.6 - 22.1	Replaces Felsics Moderate Clay	Replaces Felsics Moderate Sericitisation
16.8 - 19.7	AmBtS	biot		Strongly foliated and fractured. Oxidized- weathering of biotite -> limonite.
19.7 - 25.9	FG	band	Fol-mod	Variably altered. Clay alteration of feldspars in upper portion transitioning into silica dominated alteration at base. Patchy lim+hem throughout.
		22.1 - 25.7	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
		25.7 - 40.3	Selective Repl Strong Chlorite	Patchy Moderate Epidote Patchy Moderate Calcite
25.9 - 40.9	AmBtS	biot	Fol-str	Strongly deformed. Well developed foliation. Patchy epidote and calcite throughout. Hematite on fractures. Transitional boundary to felsic interval below.
		40.3 - 43.0	Pervasive Moderate Silicification	Selective Repl Moderate Albite
40.9 - 42.5	FG	band	Fol-str	Patchy silicification. Weak albite alteration of fldsp.
42.5 - 48.5	AmBtS	biot	Fol-str	Increased shearing- foliation steepening. Patchy calcite + epidote alteration throughout. Limonite and hematite on fracture planes.
		43.0 - 50.0	Selective Repl Moderate Chlorite	Patchy Moderate Epidote Patchy Moderate Calcite
48.5 - 49.6	DIOR	mgrn	Fol-mod	Well developed foliation. Silicified margins. Upper and lower contacts foliation parallel.
49.6 - 50.3	AmBtS	biot	Fol-str	Becoming increasingly altered to clay towards base of interval.
		50.0 - 60.0	Pervasive Strong Clay	Selective Repl Moderate Sericitisation
50.3 - 52.2	HU			Zone. Intensely altered to clay. Remnant texture- amph+bio schist? Strongly limonitic throughout (~5%)
52.2 - 61.5	FG	band		Zone. Limonite throughout, disseminated (~2%). Strong albite -> clay alteration of feldspars. Strongly Fractured. Strong sericite alteration from 59.65m to end of interval- trace py.
		60.0 - 61.7	Pervasive Strong Sericitisation	Patchy Weak Silicification Selective Repl Weak Clay
61.5 - 62.3	YC	bx		Angular siliceous clasts. Up to 2cm wide. Clay + limonite matrix.
		61.7 - 62.2	Pervasive Strong Clay	Selective Repl Moderate Silicification
		62.2 - 65.6	Pervasive Strong Clay	Pervasive Moderate Sericitisation
62.3 - 65.6	YO	bx		Polymictic breccia. Clasts altered to clay in part, some siliceous. Limonite +clay matrix. Angular clasts. Very broken ground.
65.6 - 68.3	FG			Strongly altered felsic gneiss. Sericite throughout. Clay altered. Limonite(~3%).
		65.6 - 69.9	Selective Repl Strong Sericitisation	Pervasive Moderate Clay
68.3 - 68.8	YO	bx		Strongly hematitic. Hematite in matrix and in clasts. Clasts are siliceous in part. Angular to sub-rounded.

68.8 - 72.6	FG	augn	Moderate silicification. Sericitic. Very broken towards end of interval. Limonite up to ~1%.			
		69.9 - 72.3	Patchy Moderate Silicification	Selective Repl Moderate Clay	Moderate Sericitisation	
		72.3 - 73.4	Pervasive Strong Clay	Pervasive Moderate Sericitisation		
72.6 - 73.4	Ylim	bx	Strongly clay altered. Limonite to 6%. Siliceous clasts in part.			
73.4 - 87.1	FG	augn	Fol-str	Moderate clay alteration of feldspars giving core a cream colour. Patchy disseminated limonite up to 0.75% in part. Patchy silicification.		
		73.4 - 87.1	Selective Repl Moderate Clay	Selective Repl Strong Sericitisation	Patchy Weak Silicification	
87.1 - 106.5	MxF	band	Fol-str	Variably altered. Silica + sericite + hematite (patcy, ~0.5%). Trace limonite in more clay altered intervals.		
		87.1 - 105.3	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite	
		105.3 - 115.4	Selective Repl Moderate Albite	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite	
106.5 - 116.3	FG	band	Fol-str	More clay+ limonite dominated interval. Feldspars breaking down to clay. Strongly sericitic.		
		115.4 - 121.9	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation	
116.3 - 117.1	AmBtS	fgrn	Fol-mod	Foliated. Fine-grained. Chloritic. Dike. Wall rocks at basal contact are strongly siliceous with ~0.5% limonite.		
117.1 - 121.9	MxF	band	Fol-str	Variable altered. Patches of clay+limonite+ sericite and silica + hem + ser dominated. In siliceous interval there are rare steep veins of ser+chl? Very fine grained and blebby pyrite.		
		121.9 - 126.3	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
121.9 - 126.4	FG	band	Fol-str	Limonitic (~1%). Increase frequency of hairline limonite veining. From 122.6-122.75- brecciated vein with limonitic matrix and clay clasts.		
		126.3 - 155.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Patchy Weak Clay	Alternating intervals of sil+ser+hem and clay/albite + ser + lim.
126.4 - 155.0	MxF	band	Fol-str	Patchy alteration. Alternating intervals of silica+ser+hem and clay+ser+lim alteration.		

Drill Log: CFD0194

Easting	584126.1	Hole Length	143 m	Prospect	Supremo T3	Drill Started	Apr 30, 2012	Comment
Northing	6974001.41	Azimuth	270 °	Target	T3	Drill Completed	May 02, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	RTK GPS	Elevation	1201.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			
		0.0 - 19.3	Replaces Mafics Weak Chlorite	Patchy Weak Clay
9.0 - 18.3	MxF	band	Very broken. Mix of bedrock and overburden? Interval becoming increasingly mafic-transitional. Strongly foliated.	
18.3 - 19.3	AmBtS	fgrn	Dyke? Intermediated. Strongly foliated. Fine-grained.	
19.3 - 20.6	HU	mud	Strongly altered to clay. Green-orange colour. ~3% limonite. Intercalated with bio schist. Very rubbly.	
		19.3 - 22.0	Pervasive Strong Clay	Replaces Mafics Moderate Chlorite
20.6 - 37.0	BtS	biot	Fol-str	Weakly chloritic. Patchy clay. Strong foliation. Patchy hematite (<0.25%).
		22.0 - 29.5	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
		29.5 - 37.0	Replaces Mafics Weak Clay	Weak Chlorite
37.0 - 37.6	BtS	biot	Fol-str	Altered schist. Moderately limonitic (~1%). Clay rich.
		37.0 - 38.8	Replaces Mafics Moderate Chlorite	
37.6 - 54.6	FG	band	Fol-str	Variably altered FG. Patchy hematite (~1%) and limonite (~1%) throughout. Silicified. Moderately sericitic. Limonite on fractures.
		38.8 - 54.6	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
54.6 - 55.8	DIOR	phyr	Phenocrysts of feldspar. Glassy appearance. Hazy brown halo around feldsp- fg sericite? Fg mafic- matrix. Porphyritic.	
		54.6 - 55.8	Selective Repl Moderate Sericitisation	Pervasive Weak Silicification
55.8 - 57.3	DIOR	phyr	Altered diorite. Strongly limonitic- pervasive through matrix (~3%). Hematite (~0.5%).	
		55.8 - 59.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
57.3 - 80.3	MxF	augn	Fol-str	Variably altered. Silicification dominant. Feldsp altering to clay-patchy. Limonite throughout- patchy in part ~1% avg) . From 68.78-69.05m- ~3% limonite- broken ground.
		59.0 - 62.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
		62.0 - 69.2	Selective Repl Moderate Clay	Selective Repl Moderate Sericitisation
		69.2 - 72.6	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
		72.6 - 79.3	Replaces Felsics Moderate Clay	Patchy Weak Silicification
		79.3 - 85.7	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
80.3 - 82.9	DIOR	phyr	Undeformed diorite as seen previously.	
82.9 - 85.5	MxF	silc	Fol-str	Moderately silicified. Hematite throughout (0.5%).

85.5 - 94.0	MxF	augn	Weak Zone. Limonite content increasing (~1%). Pervasive in part. Moderate clay alteration of fldsp.			
		85.7 - 97.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
94.0 - 97.8	MxF	augn	Zone. Pervasive limonite. Strongly fractured. Limonite on fracture planes. Sericitic. Fldsp altering to clay. Patchy silicification.			
97.8 - 100.8	YO	bxm	Zone. Polymictic breccia. Angular clasts to 1cm. Clasts vary from silica, hematite, limonite and clay altered (5% Lim). Matrix is brown/orange (hem + lim combo?) and competent for the most part- soft clay in part.			
		97.8 - 100.8	Patchy Strong Clay	Selective Repl Strong Sericitisation	Patchy Moderate Silicification	Clay matrix in breccia. Preserve fldsp breaking down to clay. So siliceous clasts.
100.8 - 104.2	FG	silc	Zone. Strongly fractured gneiss. Siliceous. Pervasive limonite + hematite (~3%).			
		100.8 - 104.2	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Moderate Clay	
104.2 - 104.5	YC	matx	Zone. Intensely milled- clay dominated (whitish/yellow) breccia. Siliceous clasts to 0.25 -0.75cm, rounded.			
		104.2 - 104.5	Pervasive Strong Clay			
104.5 - 111.4	FG	band	Fol-str	Patchy limonite throughout (1-2%). Variably altered- siliceous in part with zones of clay altered fldsp. Siliceous intervals have strong sericite alteration and blebby py.		
		104.5 - 106.8	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay	Strongly silicified in last meter.
		106.8 - 111.4	Replaces Felsics Strong Clay	Patchy Weak Silicification		
111.4 - 118.2	FG	augn	Fol-str	Strong sericite alteration. Moderately silicified. Blebby py throughout. Patchy limonite (0.1%).		
		111.4 - 119.4	Selective Repl Strong Sericitisation	Pervasive Moderate Silicification	Replaces Felsics Moderate Albite	? Possible albite after plag?
118.2 - 129.5	MxF	band	Fol-str	Increased limonite. Patches of unoxidized gneiss with silica+ser+ blebby py alteration.		
		119.4 - 122.1	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Weak Silicification	
		122.1 - 129.2	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation		
		129.2 - 141.1	Replaces Felsics Strong Clay	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Variable package. Clay alt after flds. Patchy silicification throughout. Irregular quartz veining.
129.5 - 143.0	FG	band	Fol-str	Bleached interval. Alb? + clay + silica. Becoming more siliceous towards end of hole. ~5cm wide quartz vein at 142.9m. Irregular quartz veining throughout interval. Limonite (~0.5% disseminated).		
		141.1 - 143.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation		

Drill Log: CFD0195

Easting	584201.72	Hole Length	212 m	Prospect	Supremo T3	Drill Started	Apr 30, 2012	Comment
Northing	6974052.12	Azimuth	273 °	Target	T3	Drill Completed	May 03, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Jcurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1214.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.9	OVb			
8.9 - 62.3	MxF	band	Fol-mod	Felsic gneiss. Local weak clay, patchy moderate silicification. Weak 0.1% patchy disseminated limonite, local FC limonite, 0.1% disseminated hematite.
		8.9 - 32.0	Patchy Weak Silicification	
		32.0 - 36.8	Patchy Weak Clay	Patchy Moderate Silicification
		53.9 - 55.3	Patchy Moderate Silicification	Selective Repl Weak Sericitisation
62.3 - 63.7	FG			Felsic gneiss. Weak pervasive clay and silicification. 1% opaque quartz veins, local milky fracture controlled quartz veining (0.1%). 0.25% limonite. 1 cm YC Bx vein, limonitic matrix.
		62.3 - 63.7	Pervasive Weak Clay	Pervasive Weak Silicification
63.7 - 74.8	MxF	augn	Fol-mod	Felsic gneiss, local augen bearing, 0.25% patchy fracture controlled limonite
		63.7 - 74.8	Patchy Weak Silicification	
74.8 - 76.3	FG			Felsic gneiss, moderate pervasive clay altn, locally strong. Strong clay associated with strong to intense silica altn. Local qtz veining and minor limonitic bx veins. 0.5-1% diss limonite.
		74.8 - 76.3	Pervasive Moderate Clay	Pervasive Strong Silicification
		76.3 - 96.2	Patchy Weak Clay	Patchy Weak Silicification
76.3 - 96.2	MxF	augn	Fol-str	Felsic dominant, minor Amph-BtS schist. Patchy weak clay and silicification. 0.1% fracture limonite. Local (90.1-90.7) Large opaque qtz vein and veinlets of Fe-Carb (laminated)
96.2 - 100.0	DIOR	mgrn		Medium grained intermediate to mafic dyke. Contacts are strongly clay and chlorite altered.
		96.2 - 99.2	Fracture Controlled Weak Clay	
		99.2 - 100.0	Pervasive Intense Calcite	
100.0 - 101.0	FG	silc		Felsic gneiss. Moderate pervasive clay altn, strong silicification. 0.25% limonite.
		100.0 - 101.0	Pervasive Moderate Clay	Pervasive Strong Silicification
101.0 - 101.5	FC	fgrn	Fol-wk	Aphanitic felsic dyke. Weak clay altn, moderate silicification. 0.5% FC limonite.
		101.0 - 101.5	Pervasive Weak Clay	Pervasive Moderate Silicification
101.5 - 103.0	FG	silc		Felsic gneiss. Local moderate FC clay altn, strong silicification. 0.25% diss limonite, 0.25% disseminated hematite.
		101.5 - 103.0	Fracture Controlled Moderate Clay	Pervasive Strong Silicification
103.0 - 121.4	FG	band		Felsic gneiss. Moderate silicification, local weak FC clay altn, local FC Fe-Carb. 0.1% FC limonite, 0.25% diss hematite. Local opaque quartz veins. Local epidote replacing mafics.
		103.0 - 121.3	Patchy Moderate Silicification	Replaces Mafics Weak Epidote Patchy Weak Clay
		121.3 - 122.8	Patchy Moderate Silicification	Pervasive Weak Clay Fracture Controlled Weak Fe-carb
121.4 - 122.8	MxF	band		Felsic dominant gneiss. Moderate silicification, weak pervasive clay altn. 0.5% FC to diss limonite. Local quartz veins.
122.8 - 147.7	MxF	augn	Fol-mod	Felsic dominant gneiss intercalated with BtS. Mod to strong silicification, weak FC clay altn, weak chlorite altn. 0.1% FC limonite, 0.25% diss hematite, 0.1% patchy pyrite. Local quartz veins.
		122.8 - 149.6	Patchy Moderate Silicification	Fracture Controlled Weak Clay Selective Repl Weak Chlorite

147.7 - 169.0	MxM	band	Mafic dominant gneiss. Weak to mod silicification, weak chl altn, local weak clay altn. 0.1% FC limonite, 0.1% patchy hematite, 0.25% py. Local vein quartz.		
		149.6 - 150.2	Selective Repl Moderate Chlorite		
		150.2 - 168.1	Patchy Weak Silicification	Selective Repl Weak Chlorite	
		168.1 - 169.0	Patchy Weak Silicification	Patchy Weak Clay	
169.0 - 174.1	FG	Felsic gneiss. Strong silicification, moderate pervasive clay altn, moderate patchy sericite altn. 0.25-1% diss limonite. Local brecciated quartz vein with limonitic matrix (170.01-170.08). Local fractured milky vein quartz associated with FC limonite. Fracturing starts around 171 m.			
		169.0 - 174.2	Replaces Felsics Moderate Clay	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
174.1 - 174.5	IV	Mafic dyke, very fine-grained. Moderate silicification. Margins brecciated, FC limonite (0.25-0.5%) .			
		174.2 - 174.5	Pervasive Moderate Silicification		
174.5 - 175.7	FG	Felsic gneiss. Moderate silicification, moderate patchy sericite altn, patchy weak to moderate clay altn. 0.5% diss to FC limonite. Local fractured opaque quartz vein (175.20-175.50), associated with FC limonite.			
		174.5 - 175.7	Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
175.7 - 181.4	MxM	augn	Fol-mod	Mafic dominant gneiss. Weak silicification, weak chl altn, local epidote. 0.25% diss hematite.	
		175.7 - 181.4	Patchy Weak Silicification	Selective Repl Weak Chlorite	
181.4 - 192.7	AmBtS	band	Fol-mod	Amphibole-bearing Biotite schist. Weak chlorite altn. Minor trace blebby brassy pyrite.	
		181.4 - 192.7	Selective Repl Weak Chlorite		
192.7 - 212.0	MxM	band	Fol-mod	Mafic dominant gneiss. Local weak silicification, weak chlorite altn. Minor blebby brassy pyrite, local trace hematite.	
		192.7 - 208.7	Patchy Weak Silicification	Selective Repl Weak Chlorite	

Drill Log: CFD0196

Easting	584150.25	Hole Length	188 m	Prospect	Supremo T3	Drill Started	May 02, 2012	Comment
Northing	6974002.23	Azimuth	275 °	Target	T3	Drill Completed	May 05, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Mrender	Core Size	NQ	
Survey method	RTK GPS	Elevation	1200.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.0	OVb			End of casing. MxF boulders
		0.0 - 10.2		Replaces Mafics Weak Chlorite
10.0 - 10.2	AmBtS		Fol-str	Weathered mafic schist- weak clay +chlorite alteration.
		10.2 - 10.8		Pervasive Strong Clay
10.2 - 10.5	AmBtS	mud	Fol-str	Zone. Strongly limonitic (~2%)- ~400 ppmAs. Irregular opaque quartz veins- appear to be foliation parallel.
10.5 - 21.6	AmBtS	biot	Fol-str	From 16.7m to 19.4m- strong patchy epidote + calcite alteration throughout. Undulating (folded?) foliation steepening in part.
		10.8 - 13.1	Selective Repl Moderate Sericitisation	Patchy Weak Epidote
		13.1 - 21.2	Patchy Strong Epidote	Patchy Moderate Calcite Replaces Mafics Moderate Chlorite
		21.2 - 24.2	Replaces Mafics Weak Chlorite	Pervasive Moderate Calcite
21.6 - 24.2	DIOR	mass		Massive medium-grained diorite. Well developed chilled margins. Carbonate throughout. Weak chlorite alteration. Basal contact strongly altered to clay- very chloritic.
		24.2 - 25.5	Pervasive Moderate Clay	Replaces Mafics Strong Chlorite
24.2 - 30.6	AmBtS	biot	Fol-str	Several opaque quartz veins, ~20 deg to CA. From 27-17.9- solid opaque quartz. Patchy epidote weakening. 3-5mm sized fids augen. Vuggy in part-after calcite? Weakly hematitic.
		25.5 - 30.6	Replaces Mafics Moderate Chlorite	Selective Repl Weak Sericitisation Patchy Weak Epidote
		30.6 - 43.9	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation Fracture Controlled Weak Clay
30.6 - 43.9	MxF	silc	Fol-str	Felsic-dominated gneiss. Silicified. Patchy hematite throughout. Limonite on fracture planes. Very broken ground. From 34.8-35.8m- massive opaque qtz vein.
43.9 - 49.9	FG			Feldspars breaking down to clay. Clay on fracture planes. Minor fault gauge material from 43.9-44.05m- white clay with rounded siliceous clasts. Interval has limonite weakly disseminate/fracture controlled throughout~0.5%.
		43.9 - 49.9	Replaces Felsics Strong Clay	
49.9 - 50.8	FG			Zone. Very broken at beginning of interval. Limonite throughout- pervasive in part (3%) (6500ppm As). Limonite also in vein. Weakly preserved gneissic fabric. Strong clay alteration.
		49.9 - 55.4	Pervasive Strong Clay	Patchy Weak Silicification Selective Repl Moderate Sericitisation
50.8 - 52.0	YO	bxm		Zone. Polymictic breccia. Lim (~3%, diss, Hem, ~1% diss). Clasts of quartz- zone juxtaposed against a quartz vein- looks like worked qtz vein. Clasts of gneiss. Possible preserved phenocrysts?- dyke material?
52.0 - 55.2	FG		Fol-str	Wk- Zone. Limonite tapering out but still pervasive (0.5-1%). Fldps clay altered. Sericite throughout.
55.2 - 73.6	MxF	silc		Strongly silicified interval. Alternating packages that are limonite dominated vs. hematite dominated. Veining becoming strong from ~64m. Composition of veins varies from limonite to hematite. Dominant. From 69.3-70.8- weak stockwork of hematite hairline veins. From 65-66.47 weak stockwork of limonite hairline veins. Trace blebby py. From 72.55-73.48- opaque quartz vein- near parallel to CA. Near end meter- euhedral py crystals (~1-2mm)
		55.4 - 73.5	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
		73.5 - 85.7	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Patchy Weak Albite

73.6 - 73.8	IV	fgrn		Fine-grained, underformed dyke. Lim+calcite along margins.
73.8 - 85.7	MxF	band	Fol-str	Variably altered. Patchy silicification. Meter-scale AmBts intervals which are mod. Chloritic. Lim (~0.25~), hematite-patchy ~0.25%).
85.7 - 91.4	FG		Fol-str	Felsic gneiss. Moderate clay altn of felsics. Patchy limonite associated with clay, along foliation, and local FC limonite (0.25-0.5%).
		85.7 - 91.4		Replaces Felsics Moderate Clay
91.4 - 101.9	MxF	augn	Fol-str	Felsic dominated gneiss. 2 m patch of clay altered feldspars with 0.5% diss limonite (94.3-96.4), otherwise trace FC limonite and 0.25 diss hematite. Silicified, patchy weak to moderate sericite altn. Dominant felsic with minor mafic banding up to 10 cm wide.
		91.4 - 94.3		Patchy Moderate Silicification Patchy Weak Sericitisation
		94.3 - 96.3		Replaces Felsics Moderate Clay
		96.3 - 101.9		Patchy Moderate Silicification Patchy Weak Sericitisation
101.9 - 109.1	FG		Fol-str	Moderately clay-altered felsic gneiss with .5% diss limonite along foliation. Damage zone from 104.70m - 105.65, limonite increases to 3% in damage zone where clay content increases, then fades to 1% disseminated to 106.20 0.5% below to end of unit. Very weak patchy silicification
		101.9 - 104.7		Replaces Felsics Weak Clay
		104.7 - 105.7		Replaces Felsics Moderate Clay
		105.7 - 109.1		Replaces Felsics Weak Clay
109.1 - 111.0	FC	phyr		Porphyritic dacite dyke: coarse grained altered feldspars up to 0.5cm. Matrix is extremely fine grained, appears bleached. Could be a bleached-out porphyritic andesite. 0.25% fracture controlled limonite bleeds out into unit. Contact to previous unit is approx. 53 degrees TCA at top contact, bottom contact not intact, but not same as top (core not oriented). Moderately silicified.
		109.1 - 111.0		Pervasive Moderate Silicification
111.0 - 119.0	MxF		Fol-mod	Felsic dominant gneiss. Weak to moderate clay altn, patchy moderate silicification towards end of unit, local moderate sericite altn (114.3-119 m). 0.5% diss limonite (111-114.3 m), otherwise 0.1% FC with slight increase towards end of unit, 0.1% patchy blebby pyrite. Within QSP altered zone (114.3-119) find tiny veins of sooty pyrite (.1%)
		111.0 - 114.3		Replaces Felsics Weak Clay Patchy Moderate Silicification
		114.3 - 119.0		Replaces Felsics Weak Clay Patchy Moderate Silicification Patchy Moderate Sericitisation
119.0 - 120.4	FG			Weak zone. Fractured zone of felsic gneiss. Weak to moderate clay altn along fractures. Up to 5% diss limonite, strongest in most fractured area.
		119.0 - 120.4		Fracture Controlled Moderate Clay
120.4 - 125.8	FG		Fol-mod	Moderate clay alteration of feldspars, fragmental quartz veins up to 8cm in width, patchy moderate silicification in areas with less clay. 0.25% disseminated limonite throughout, slightly enriched along fractures.
		120.4 - 125.8		Patchy Moderate Silicification Replaces Felsics Moderate Clay
125.8 - 131.0	YC	bx		Zone- Silicified clast breccia with yellow limonite-clay matrix. 2% disseminated limonite within clay matrix. Breccia contains sub-angular clasts, may be possibly milled. Clast supported (60/40) although some patches contain more matrix. Colour change to hematitic red at 129m (zone was also washed away) for 30cm span. HU (possibly dacite) between 129.15-131 m.
		125.8 - 129.2		Replaces Matrix Strong Clay
		129.2 - 131.0		Replaces Matrix Moderate Clay Patchy Weak Silicification
131.0 - 133.2	FG			Felsic gneiss. Patchy moderate clay altn and silicification. 0.5% disseminated limonite.
		131.0 - 133.2		Replaces Felsics Moderate Clay Patchy Moderate Silicification
133.2 - 136.0	FG	silc	Fol-mod	Felsic gneiss. Moderate to strong silicification and sericite altn. Possible thin (0.3 cm) wide bands of sooty pyrite along foliation.
		133.2 - 136.0		Pervasive Strong Silicification Patchy Moderate Sericitisation
136.0 - 142.5	MxF		Fol-str	Minor limonite (.25%) disseminated throughout, moderately silicified. Also approx. 15cm milky quartz vein from 139.65-139.80m with small vugs in areas. Other minor quartz veins present of same character. Weak cpachy clay alteration. At 141.30 transition from felsic dominant to mafic package for 50cm. Sudden drop in limonite alteration at contact between two.
		136.0 - 142.5		Patchy Moderate Silicification Patchy Weak Clay
142.5 - 157.6	MxF		Fol-str	Patchy strong silicification throughout unit. Felsic regions are strongly bleached out through majority of unit, contain fine fractures with trace limonite, with 0.25% disseminated throughout. Moderate clay from 144-144.20 m in more fractured zone.
		142.5 - 144.0		Patchy Strong Silicification
		144.0 - 144.2		Pervasive Strong Clay
		144.2 - 157.6		Patchy Strong Silicification

157.6 - 160.0	FG	Fol-str	Zone. .5% limonite leading up to zone of 5% limonite with orange-red hematite between 158 to 158.35m with moderate clay in most fractured part. Weak silicification in patches.	
		157.6 - 158.0	Patchy Moderate Silicification	Replaces Felsics Weak Clay
		158.0 - 158.4	Fracture Controlled Moderate Clay	
		158.4 - 160.0	Patchy Moderate Silicification	Replaces Felsics Weak Clay
160.0 - 164.0	MxF	Fol-str	.5% disseminated limonite through weakly silicified felsic dominant gneiss. Moderate clay replacing feldspars, fracture controlled limonite common as well.	
		160.0 - 167.1	Patchy Weak Silicification	Replaces Felsics Moderate Clay
164.0 - 167.1	FG	Fol-str	Weak zone. Moderately clay altered interval, with pits in limonitic (.5%) felsic gneiss which could be washed out clay regions. No significant silicification, broken ground. Limonite increases to 1-2% at end of interval where rock is most fractured.	
167.1 - 174.1	MxF	Fol-str	Area of moderate to strong silicification and sericitization through more mafic package from 168.3-169.8m, .5% limonite through felsic component, which is moderately clay altered along feldspars/foliation. Felsic package below the mafic (QS altered) contains patchy moderate to strong silicification and minor sericite alteration.	
		167.1 - 168.3	Replaces Felsics Moderate Clay	
		168.3 - 169.8	Pervasive Strong Silicification	Patchy Moderate Sericitisation
		169.8 - 174.1	Pervasive Strong Silicification	Patchy Weak Sericitisation
174.1 - 175.3	IV		Approx 1m thick andesite dyke. Up to 1mm porphyritic feldspar lightly scattered throughout, very fine grained matrix, upper contact approx. 26 degrees TCA, lower contact is irregular, with a contact between felsic gneiss which appears and then returns to 100% dyke over a 20cm interval.	
		174.1 - 175.3	Selective Repl Weak Clay	
175.3 - 188.0	MxM	Fol-str	At beginning of unit, 30cm of .5% limonite disseminated through felsic gneiss immediately after andesite. Unit alternates between bt-chlorite-amphibole (?) rich mafics and moderately silicified felsic packages, with largest mafic unit reaching 1.5m (stopped by EOH). Felsic component contains .25% disseminated hematite giving the units a pinkish hue and are moderately to strongly silicified, while mafic units are fine grained and moderately chloritic, and weakly or unsilicified.	
		175.3 - 188.0	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite

Drill Log: CFD0197

Easting	584103.41	Hole Length	119 m	Prospect	Supremo T3	Drill Started	May 04, 2012	Comment
Northing	6973951.33	Azimuth	275 °	Target	T3	Drill Completed	May 06, 2012	
Projection	UTM7-NAD83	Dip	-53 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1185.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.3	OVB			
		0.0 - 26.5	Selective Repl Moderate Sericitisation	Patchy Weak Silicification
9.3 - 26.5	MxF	band	Fol-str	Very rare mafic bands (1, 20cm zone over interval). Plag augen local at 18.6-19m. Weak silicification, patchy, sericite overgrowing foliation.
26.5 - 32.0	MxF	band		Increased mafic component. Clay alteration of feldspars moderate to strong. Limonite, ~0.5%- fracture controlled and disseminated. At 27.3m 10cm wide zone with strong limonite and manganese veining (pyrolusite). Vein is vuggy and irregular. Core loss at 31.95m- washed away.
		26.5 - 32.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
32.0 - 33.3	MxF	band	Fol-str	Variably altered. Silicified in part. Sericite overgrowing foliation. Patchy hematite (~0.25%).
		32.0 - 33.3	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
		33.3 - 33.7	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation
33.3 - 37.0	MxF	band	Fol-str	Weak zone. Discrete zones of limonite up to 5%. Strong clay alteration of feldspars. At 36.87m- 5cm wide YC-strongly limonite matrix- zone bounded to either side by a reworked opaque quartz vein (comprise the clasts of the YC).
		33.7 - 41.7	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation
37.0 - 41.7	BtS	biot		Strongly foliated, chloritic. Calcite infilling around grain boundaries. Patchy epidote. Biotite chloritized. Limonite on fracture planes.
41.7 - 43.1	BtS	biot		Moderate clay alteration pervasive. Broken ground. Hematite+Limonite+manganese on fracture planes- with clay.
		41.7 - 43.1	Pervasive Strong Clay	Selective Repl Moderate Sericitisation
43.1 - 55.2	BtS	biot		Chloritic, patchy epidote and calcite. Foliation steepening (~20deg toCA). From 47 to 47.3m- irregular qtz+dol?+chl+Lim (trace) vein. Vuggy- partially reworkd.
		43.1 - 55.2	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
55.2 - 66.7	MxF	band	Fol-str	Strong clay alteration of feldspar throughout. Pervasive limonite (~0.5%).
		55.2 - 65.8	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
		65.8 - 79.9	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
66.7 - 67.9	YC	silc		Intensely silicified YC, local strong clay altn, immature FG clasts, 3% limonitic matrix
67.9 - 79.2	HU	silc		FG? Intense silicification, local 1-2cm YC limonite veins, strong clay altn of fspars.
79.2 - 79.8	YC	silc		Intensely silicified YC, FG sub angular clasts, open space silicified limonite matrix. Local openspaces filled with orpiment?. Thin limonite veinlets x-cutting.
79.8 - 81.0	FC	mud		Aphanitic felsic dyke, extremely altered. Intense clay/ silica altn. 2-4% limonite.
		79.9 - 81.0	Pervasive Strong Clay	Pervasive Moderate Silicification
81.0 - 82.9	FG	band		FG, strongly silicified 1-2% disseminated limonite.
		81.0 - 83.9	Pervasive Strong Silicification	
82.9 - 83.0	Ylim	bxm		Moderately silicified sub rounded FG clasts, 1% disseminated clay limonite atri.

83.0 - 85.9	FC	fgrn	Mottled oxidized dyke, 1-3% limonite, loacl intense clay altn.		
		83.9 - 84.0	Pervasive Intense Clay		
85.9 - 93.3	FG	band	Pervasive clay altered fspars, 0.5% disseminated limonite and weak silicification.		
		85.9 - 93.3	Replaces Felsics Weak Clay		
93.3 - 119.0	FG	band	Fol-str	Felsic gneiss, patchy weak clay or silicification. 0.25% disseminated hematite.	
		93.3 - 119.0	Patchy Weak Clay	Patchy Weak Silicification	

Drill Log: CFD0198

Easting	585327.23	Hole Length	254 m	Prospect	Double Double	Drill Started	May 04, 2012	Comment
Northing	6973377.25	Azimuth	180 °	Target		Drill Completed	May 08, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EBuitenhuis	Core Size	NQ	
Survey method	RTK GPS	Elevation	1089.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.8	OVB			
9.8 - 15.4	BtS	0.0 - 15.4 pblst	Replaces Mafics Strong Chlorite	Replaces Felsics Moderate Clay Patchy Moderate Silicification Silicification is centered around a single 8-10cm quartz vein. Heavily broken ground. BtS which has been strongly chloritized, moderate clay and sericite alteration of feldspars. Moderately friable, although weak to moderate silicification surrounding a 8cm white porcelainic qtz vein which fades approximately 20cm on either side of vein. BtS is variably carbonated within patches with wispy white carbonate appearing within foliation. Rare fracture controlled limonite (0.1%)
15.4 - 22.0	MxF	augn	Fol-str	Moderately silicified felsic gneiss with very weak and rare mafic banding which has been altered out and now shows as pits within the fg. Broken surfaces of FG display mm scale ribbons of qtz along foliation. BtS portions up to 80cm which are strongly chloritized and moderately clay altered. Friable and also show patchy epidote, however these BtS units are not carbonated. 0.1% pyrite within both FG and BtS regions, appearing along foliation as sub mm cubes which are oxidizing red-brown.
		15.4 - 22.0	Patchy Moderate Silicification	Replaces Mafics Strong Chlorite Replaces Felsics Moderate Clay Silicification only within felsic gneiss packages.
22.0 - 29.0	FG	augn	Fol-str	Package of felsic gneiss with damage/fracture zones centered around a small 20cm portion of BtS. Pink colouration most likely due to weak hematite through the gneiss. All FG is moderately silicified, and contains .25% disseminated cubic pyrite (<1mm) which is oxidized. Weak fractured controlled limonite (.1%).
		22.0 - 29.0	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Chlorite altered BtS package is not silicified.
29.0 - 41.0	BtS	pblst		Strongly chloritized and epidote-rich biotite schist, with feldspars moderately clay altered + possible sericite. Variably carbonated within foliation, with larger patches of white carbonate with irregular morphologies. Epidote seems to be concentrated in irregular patches throughout the unit. Rock becomes heavily fractured beginning at approx. 36m with moderate clay along fractures which becomes more concentrated in most damaged zones.
		29.0 - 41.0	Replaces Mafics Strong Chlorite	Patchy Moderate Epidote Fracture Controlled Moderate Clay
41.0 - 43.5	BtS	silc	Fol-wk	Strongly silicified, chloritized and epidote rich +/- amphibole BtS, with carbonate both in concentrated patches and pervasive through rock. Possible amphibole needles. Weak clay alteration along fractures. Patches of pink-hued quartz with very irregular morphology, as well as a second generation of quartz veins which are milky. Carbonate appears as veinlets along fractures, with one fracture displaying a tan coloured carbonate selvage with milky quartz infill. Quartz does not have a preferential orientation, and can appear as what look to be isolated (within 3mm of another vein) dilational infill. Up to 1.5mm rare cubic and oxidized pyrite, and 0.1% brassy pyrite.
		41.0 - 43.5	Pervasive Strong Silicification	Patchy Strong Chlorite Patchy Moderate Epidote Carbonate is dispersed throughout foliation of the unit, and can appear as more massive patches as well.
43.5 - 44.3	YC		Fol-mod	Weak Zone: Rock was probably biotite schist however now very fine grained silicified clast breccia, however becomes moderately grading to strongly limonitic with destruction of fabric and loss of silicification at end of unit. Carbonate is nearly pervasive throughout the rock, with only reddish areas uncarbonated. Limonite reaches 7% at end of unit, also hematite present in irregular patches. Last 20cm of unit begins to show very immature breccia texture.
		43.5 - 44.0	Pervasive Moderate Silicification	
		44.0 - 44.3	Pervasive Moderate Calcite	Fracture Controlled Weak Clay
44.3 - 44.8	YO	bx		Zone: orange to red carbonated breccia. Unsilicified in both matrix/rock and clasts. Clasts are sub angular, and can also be carbonated. Possibility that breccia is poly-phase: some clasts are fractured and polymictic and appear to have been re-brecciated. Two phases of matrix, a soft, yellow-limonite/clay matrix which is also carbonated, and a second (timing unknown) deep red phase which appears almost as veinlets through breccia and within cracked and fractured clasts. Red phase is not carbonated. Red hematitic phase accounts for approx. 20-30% of breccia matrix. Note: spot XRF on red phase at 44.38m hit As values of 1.18%.
		44.3 - 44.8	Pervasive Moderate Calcite	Pervasive Moderate Clay Clay is pervasive throughout matrix of YO

44.8 - 45.3	HU		Fol-mod	Weak Zone: similar to unit above zone. Dark red hematite/limonite over first 10cm which then fades to orange, and then silicified QSP altered rock (brassy pyrite) with no limonite. Irregular banding and possibly microbreccia textures in some areas (0.3cm maximum width).
44.8 - 45.3			Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
45.3 - 47.0	BtS		Fol-mod	Weak Zone: Carbonated and limonitic biotite schist, with rare hematite appearing as possible irregular veinlets, 0.5% throughout entire unit. Fractured quartz veins with limonite/carbonate selvage run nearly parallel TCA, with mild offset. Feldspars in BtS weathered out to moderate clay.
45.3 - 47.0			Patchy Weak Silicification	Patchy Moderate Calcite
47.0 - 59.0	BtS	pblst	Fol-mod	Strongly chloritic biotite schist, moderate clay alteration after feldspars and along fractures, also patchy carbonation. Zones of damage are more clay-rich, however generally the unit is also moderately silicified. 20cm Zone of 5% limonite from 54.0-54.1m with hematite patches, moderate clay along fractures, and no recognizable fabric. Bottom of unit becomes more porphyroclastic with 1mm rounded feldspar grains altered to sericite. 2% buck milky quartz veining running at variable angles TCA. 1% brassy pyrite disseminated throughout, .1% fracture controlled limonite.
47.0 - 54.0			Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
54.0 - 54.1			Fracture Controlled Moderate Clay	
54.1 - 69.0			Patchy Moderate Silicification	Replaces Felsics Weak Clay
				Replaces Mafics Moderate Chlorite
59.0 - 69.3	BtS	pblst	Fol-str	Strong chlorite and epidote through BtS, with moderate clay decomposing feldspars and very patchy weak to moderate silicification. Epidote occurs in patches up to 2cm wide. Foliation through unit reaches near parallel to core axis, very steep. Possible fold nose at 65.85m, with "eye" structure: concentration of oxidation in center (very minor limonite), with concentric banding of a quartz vein with carbonate selvage, epidote bands, and strongly chloritic biotite schist. Nearly all the biotite is chloritized. Over last 40cm, rock becomes more broken with a great concentration of limonite and clay along fractured zones, up to 4% lim/hem.
69.0 - 71.2			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
				Fracture Controlled Weak Clay
69.3 - 71.2	BtS	pblst	Fol-mod	Porphyroblastic BtS, with increasing bleaching towards end of unit. 30cm shear zone with microbreccia texture and strong limonite (2% lim). No ori, but shear is oriented along foliation. Unit transitions into strong chlorite replacing biotite, green in colour, which then becomes bleached and silicified, with sericite and possible leucoxene at end.
71.2 - 71.5	HU		Fol-wk	Weak zone: beginning of zone, most likely continuation of bleached out BtS from overlying unit however bleaching now includes disseminated limonite to give unit a washed out and orange-yellow appearance.
71.2 - 72.5			Patchy Weak Silicification	Fracture Controlled Moderate Clay
71.5 - 71.8	YO	bx		Zone: Moderately mature breccia out of felsic gneiss +/- carbonate matrix. Clast supported, with clasts unsilicified and displaying relict foliation in some places. Matrix is yellow limonite which is rich in carbonate. Also 1cm yellow/orange carbonate band cutting along what is probably relict foliation plane.
71.8 - 72.5	HU		Fol-wk	Zone: 3-4% limonite through heavily altered wallrock which has not developed a brecciated texture. Weakly silicified, and very immature development of microbreccia in some areas.
72.5 - 74.5	YO	bx		Zone: Soft yellow-clay matrix to breccia. Variably developed throughout unit. Quartz vein which has been fractured and infilled with orange limonite along fractures. Wallrock through vein region appears to be sericitized and muscovite rich schist with minor quartz, however not a YC.
72.5 - 74.0			Fracture Controlled Moderate Clay	Patchy Weak Silicification
74.0 - 75.0			Pervasive Moderate Calcite	Patchy Weak Silicification
74.5 - 75.0	IV	mass		Carbonate is associated with limonite in the breccia matrix
				Zone: Coarse grained andesite dyke in contact with YO breccia. Strongly limonitic in areas, however patch of unoxidized dyke which is moderately silicified and has a bleached out appearance.
75.0 - 76.8	HU		Fol-wk	Zone: HU. Strong limonite and hematite, with a very immature breccia texture in areas. variable hematitic and limonitic regions, with 8% limonite and 2% hematite.
75.0 - 76.8			Patchy Weak Calcite	Fracture Controlled Weak Clay
76.8 - 78.7	FG	augn	Fol-mod	Broken and fractured felsic gneiss which is strongly bleached and patchily clay altered. Moderate patchy silicification throughout, with a minor patch of muscovite-sericite schist, which has had all mafics altered out however displays the porphyroblastic texture of a protolith biotite schist. 1% fracture controlled limonite, with hematite also appearing as matrix to clay replaced porphyroblasts in mss section. Bleached out section displays bleeding of hematite into rock along fractures, and is very carbonated.
76.8 - 78.7			Patchy Moderate Clay	Patchy Moderate Silicification
				Selective Repl Moderate Sericitisation

78.7 - 81.0	MsS	pblst	Fol-mod	Package of schistose rock with dominantly muscovite as mica phase. Moderate clay along fractures, and hematite along foliation, possibly after the relict mafic phases. Patches of clay replaced porphyroblasts (white). Foliation is almost parallel to core axis.		
		78.9 - 81.0	Replaces Felsics Moderate Clay	Fracture Controlled Weak Clay	Selective Repl Moderate Sericitisation	
81.0 - 87.4	BtS	pblst	Fol-mod	Porphyroblasts are clay altered/replaced. Moderate to strong patchy chlorite, and two 6-8cm felsic gneiss bands out of the mafic unit. 20cm zone of fractured and hematitic/limonitic BtS at 81.5m which runs slightly anomalous in As, with weak clay along fractures.		
		81.0 - 87.4	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Replaces Felsics Moderate Clay	
87.4 - 87.9	YO	bxi	Immature patch of matrix-supported breccia weakly developed, limonitic/carbonitic matrix. 1.5% limonite. Unsilicified. Moderate muscovite around brecciated zone.			
		87.4 - 87.8	Replaces Felsics Moderate Clay	Pervasive Moderate Calcite	Selective Repl Moderate Sericitisation	Carbonate pervasive through breccia matrix.
		87.8 - 96.1	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification	
87.9 - 96.1	MxM	pblst	Fol-str	Variably porphyroblastic. Moderate chlorite and sericite alteration. Porphyroblasts have a pinkish hue, possibly K-feldspars+quartz. Felsic portions are more sericitized and have more muscovite wrapping around porphyroblasts. 0.25 FC limonite, 0.5% brassy+oxidized pyrite.		
96.1 - 97.5	FG	augn	Fol-str	Section of felsic gneiss. Moderate to strong pervasive silicification. 0.1% FC limonite, 0.25% disseminated oxidized pyrite cubes.		
		96.1 - 97.5	Pervasive Strong Silicification			
97.5 - 113.9	MxM	pblst	Fol-str	Strong gneissic texture. Biotite almost all consumed through mafic portions, although some patchy areas of biotite schist. Mostly muscovite around quartz porphyroblasts. At 110 m is a patch of epidote and moderate FC clay. 0.5% FC limonite.		
		97.5 - 113.8	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation	Patchy Weak Epidote	
		113.8 - 114.3	Replaces Felsics Weak Clay	Pervasive Moderate Calcite	Carbonate pervasive through brecciated matrix.	
113.9 - 114.3	YO	bx	Carbonate-matrix breccia: yellow limonitic carbonate, does not run, seems to be fracture controlled and created brecciated net of carbonate through rock over 10cm span. Immature breccia texture surrounding the main brecciated area. 3% limonite, no visible hematite.			
114.3 - 117.6	BtS	pblst	Fol-str	Moderate clay alteration of feldspar porphyroblasts, patchy weak silicification and moderate chlorite alteration of biotite. Small hematite band along foliation (.2cm) and occasional oxidized limonitic bands, however very low percentage (.25% lim through unit). Variably porphyroblastic, with coarser feldspar regions and then more foliated/strained patches.		
		114.3 - 117.6	Patchy Weak Silicification	Replaces Felsics Moderate Clay		
117.6 - 118.1	BtS	pblst	Fol-mod	Zone: heavily altered biotite schist. Relict fabric is visible, no biotite can be seen however. 8-10cm immature breccia at start of unit with limonitic matrix. Weakly silicified, and later irregular carbonate veins however matrix of breccia does not seem to be carbonitic. Limonite is disseminated 6% with patchy red hematite typical of the zone for approx. 3%.		
		117.6 - 118.1	Fracture Controlled Moderate Clay			
118.1 - 138.9	MxM	pblst	Fol-str	Damage zone at 124 with moderate limonitic clay along fractures. Mixed gneiss with chlorite replacing mafics in bts bands, and patch strong silicification preferentially through felsic gneiss packages. Weak fracture controlled clay, and clay/sericite after feldspar porphyroblasts.		
		118.1 - 138.9	Patchy Strong Silicification	Selective Repl Weak Sericitisation	Fracture Controlled Weak Clay	
138.9 - 140.1	FG	augn	Fol-mod	Patchily limonitic zone of FG, with minor slips of BtS. Coarse muscovite possibly associated with foliation-parallel milky quartz veins, and variable bleaching and clay alteration of the gneiss, preferentially in areas of less intense silicification. Silicification is patchily strong.		
		138.9 - 140.1	Patchy Strong Silicification	Fracture Controlled Weak Clay		
140.1 - 141.3	MxF	augn	Fol-str	Alternation between felsic gneiss and mafic, with bands between 8-12cm alternating in close succession. Mafics are moderately chloritized, both units silicified. .25% hematite component disseminated through felsics.		
		140.1 - 141.3	Replaces Mafics Moderate Chlorite	Pervasive Moderate Silicification		
141.3 - 159.7	MxM	pblst	Fol-str	Mafic-dominant package. Moderate to strong pervasive chloritization of mafics, with weak clay altering feldspars, and moderate patchy clay in some arease associated with fractures in both mafic and felsi components. Slightly limonitic and altered zone from 143.5-144.5m, weak to non-silicified with 0.5-1% yellow limonite and pervasive carbonation. This area is fractured with weak clay along fractures. Some fractures have orange-redish oxidation and run anomalously in As (~300As), however they are rare.		
		141.3 - 143.5	Replaces Mafics Strong Chlorite	Replaces Felsics Weak Clay		
		143.5 - 144.5	Pervasive Moderate Calcite	Fracture Controlled Weak Clay		
		144.5 - 159.7	Replaces Mafics Strong Chlorite	Replaces Felsics Weak Clay		

159.7 - 160.8	SZ			Fol-str	Small shear zone with coarsening of micas. Light green in colour, very soft with fine clay alteration of mica to give a soapy/greasy feel (no talc). Strong chlorite, epidote. Shear seems to follow existing fabric, no visible steepening/flattening of foliation in host rock.
			159.7 - 160.8	Fracture Controlled Strong Clay	Replaces Mafics Strong Chlorite
160.8 - 164.0	FG	augn		Fol-str	Strong pervasive silicification of felsic gneiss. Coarse foliation parallel muscovite visible, as well as quartz in ribbon texture along feldspars. Felspar augens up to 5mm in size. 1mm brassy pyrite present disseminated throughout.
			160.8 - 164.0	Pervasive Strong Silicification	
164.0 - 180.3	AmBtS	pblst		Fol-mod	Deep green biotite schist with strong epidote in patches and strong chlorite alteration. Chlorite varies in intensity with near complete replacement of bt (very rare bt grains visible on freshly broken surfaces) to moderate replacement (flecks of bt common on fractured surfaces). Epidote patches are very strong, have irregular morphology. In areas of less epidote, feldspar porphyroblasts are visible and have spotty appearance. Moderate silicification is near pervasive, but can fade in patches. Milky quartz veining common, possible association with areas of stronger epidote. 1% brassy pyrite disseminated throughout with cubic morphology. Epidote possibly after amphibole?
			164.0 - 180.3	Patchy Strong Epidote	Replaces Mafics Strong Chlorite Patchy Moderate Silicification
180.3 - 183.7	MxF	augn		Fol-str	Strongly silicified felsic component. Foliation seems to be near parallel TCA, with a contact between a felsic dominant area with very coarse and "blended" quartz/feldspar interfaces which are difficult to distinguish, and could represent coarsening? Brittle faulting and offset visible at 181.6m with 1.5cm stepped offsets between BtS and FG felsic component. Rock was rotated perpendicular TCA with no visible ductile/shear component. Moderate patchy epidote and chlorite after mafics, and coarsening of biotite around foliation-parallel quartz veining. Late carbonate veins/fracture infill present. .25% fracture controlled limonite most likely due to late oxidation of ferromags.
			180.3 - 183.7	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite Selective Repl Moderate Epidote
183.7 - 185.6	AmBtS	pblst		Fol-mod	Biotite schist with carbonate, weak epidote and 1% brassy pyrite present. Carbonate is late and crosscuts in irregular patterns, but is also present through foliation of the rock (carbonated?). Very weak fracture controlled limonite 0.1%.
			183.7 - 185.6	Patchy Weak Epidote	Pervasive Moderate Calcite
185.6 - 194.1	MxF	augn		Fol-mod	Up to 1cm augens in pink felsic gneiss with coarse muscovite present, strongly silicified in patches. Foliation can be irregular in areas of strongest silicification. 10cm polyphase vein with bleaching around vein margins of felsic gneiss. Within vein, 3 generations of crystallization: initial milky quartz, which has been brecciated and fractured by a tan-pink Fe-carbonate (?) phase which effervesces after scratching, is associated with an orange-yellow limonitic phase, and displays minor coxcomb crystallization textures. Final phase is white carbonate, same phase which carbonates rest of units surrounding. Completely infills vugs which were filled by the pink-tan mineral. No vein phase runs anomalous As under XRF analysis.
			185.6 - 194.1	Patchy Strong Silicification	
194.1 - 236.4	BtS	pblst		Fol-mod	Back into the biotite schist with variable intensity of epidote from moderate to strong, again with possible correlation with areas of quartz veining. Quartz veins associated with carbonate patches in veins as well. Coarse biotite around quartz veins as well. Moderate chlorite and moderate patchy silicification throughout unit. Original schistose texture visible in foliation, however micas mostly destroyed by chlorite alteration.
			194.1 - 236.4	Patchy Strong Epidote	Replaces Mafics Moderate Chlorite Patchy Moderate Silicification
236.4 - 254.0	MxM	pblst		Fol-mod	Dominantly biotite schist package. Patchy strong chlorite at beginning of unit which then fades to moderate and is more rare down-hole. BtS is variably carbonated, however hariline carbonate veinlets crosscut fabric. Sulphide facies, with brassy disseminated pyrite throughout, up to 5mm in size. One cube is observed to be cut by a milky quartz vein. Felsic packages are bleached and strongly silicified, with coarse muscovite bending around large augens of quartz/feldspar
			236.5 - 254.0	Patchy Moderate Epidote	Replaces Mafics Moderate Chlorite Patchy Strong Silicification

Drill Log: CFD0199

Easting	584174.9	Hole Length	209 m	Prospect	Supremo T3	Drill Started	May 05, 2012	Comment
Northing	6973999.62	Azimuth	268 °	Target	T3	Drill Completed	May 07, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	M Render	Core Size	NQ	
Survey method	RTK GPS	Elevation	1200.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.8	OVB			
		0.0 - 13.5	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite
9.8 - 13.5	BtS	biot	Fol-str	Strongly foliated, chloritized. Casing to 9.76m. Weathered - hematite after biotite.
13.5 - 14.0	BtS			Strong clay alteration. Limonite disseminate (~1%).
		13.5 - 16.0	Pervasive Strong Clay	Selective Repl Moderate Sericitisation
14.0 - 16.0	HU	mud		Intensely altered. Limonite pervasive (~6%), ~1% hematite. Strong clay. No preserved fabric. As >1000ppm.
16.0 - 24.0	BtS	biot		Moderately altered. Patchy limonite- fracture controlled, partly disseminated (~0.5%). Clay alteration on fractures. Patchy silicification.
		16.0 - 25.0	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
				Selective Repl Moderate Sericitisation
24.0 - 27.8	BtS	biot		Weak zone. Patchy limonite to 2 % locally. Very broken. Mn +lim + hem on fracture planes. Weakly chloritic.
		25.0 - 28.0	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation
27.8 - 35.0	MxF			Variably altered becoming strongly clay altered in last 2m (preferential to feldsp). Lim on fracture planes (~0.25%).
		28.0 - 35.0	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay
				Replaces Mafics Weak Chlorite
35.0 - 47.3	FG	silc		Pervasive silicification. Patchy hematite throughout- after bt (following foliation)? Sericite overgrowing foliation.
		35.0 - 47.4	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
				Fracture Controlled Weak Clay
47.3 - 49.0	DIOR	mgrn	Fol-wk	Weak foliation. Recrystallized diorite? Foliation parallel contacts with gneiss- Chloritic
		47.4 - 49.0	Selective Repl Moderate Chlorite	Fracture Controlled Weak Clay
49.0 - 59.8	FG	augn	Fol-str	Pervasive silicification. Hematite throughout (~0.25%). Sericite overgrowing foliation. From 57-58.3m- clay alteration on fracture planes and selective to feldspars.
		49.0 - 57.0	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
		57.0 - 58.3	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification
				Selective Repl Moderate Sericitisation
		58.3 - 59.8	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
59.8 - 64.0	IV	mass		Undeformed. Massive, fg-mg andesite. Equigranular. Aphanetic chilled margins. Trace py. Rare phenocrysts of feldsp- mm-scale
		59.8 - 60.0	Pervasive Strong Clay	Replaces Mafics Moderate Chlorite
64.0 - 80.6	MxF	band	Fol-str	Variably altered. Silica dominated with sericite overgrowing foliation. Mafic intervals moderately chloritized.
		64.0 - 80.6	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
				Replaces Mafics Weak Chlorite

80.6 - 83.0	MxF	band	Fol-str	Clay altered fldspr. Limonite ~0.5%-disseminated/fracture controlled.		
80.6 - 83.0			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
83.0 - 83.3	YC	bx	Zone. Strongly limonitic +clay matrix. Siliceous rounded clasts (~0.5-1.5cm diameter). Matrix supported. Limonite ~6%, Hematite ~ 1%.			
83.0 - 83.2			Pervasive Strong Clay			
83.2 - 85.2			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation		
83.3 - 85.3	FG	band	Clay alteration of fldps. Patchy limonite (~0.5%).			
85.2 - 85.4			Pervasive Strong Clay	Selective Repl Moderate Sericitisation		
85.3 - 85.4	HU	mud	Strong clay alteration with 3%limonite disseminated at interface with mafic interval- bts			
85.4 - 86.3	BtS	biot	Fol-mod	Limonitic biotite schist. Moderate clay alteration. Limonite disseminated ~1%. Biotite is chloritic.		
85.4 - 88.6			Replaces Felsics Moderate Clay	Patchy Weak Silicification	Selective Repl Moderate Sericitisation	
86.3 - 87.0	MxF		Fol-str	Weak zone. Strongly altered. Limonite ~3% disseminated.		
87.0 - 88.6	MxF	band	Fol-str	Clay alteration of fldsp. Patchy silicification. Sericite defining foliation.		
88.6 - 91.7			Pervasive Strong Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
88.6 - 89.0	FG	mud	Zone. Strong clay alteration- pervasive. Limonite ~6%, hematite ~1%- disseminated. Foliation weakly preserved.			
89.0 - 89.8	BtS	biot	Fol-wk	Mafic band with dissmeinated limonite ~1%.		
89.8 - 91.7	MxF		Zone. Local intense limonite (~6%). Pervasive clay- silicified in part.			
91.7 - 93.5			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation		
91.7 - 93.5	MxF		Varaiably altered. Clay after fldsp. Patchy weak silicification. Limonite thoroughout- largely fractue controlled (~0.5%).			
93.5 - 93.8	FG	bx	Zone. Strongly limonititc (~6%). Polymicitc clasts - silica + FG? Not rotated. Clast supported.			
93.5 - 93.8			Pervasive Strong Clay			
93.8 - 101.0	FG	band	Variably altered. Clay alteration after flds. Patchy silicification. Limonite throughout- dissem/vein/fracture controlled (~0.5-0.75%).			
93.8 - 109.6			Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Sericitisation	
101.0 - 109.6	MxF	band	Fol-str	Variably altered gneiss. Alternating intervals of Si+ser+ hem vs. clay (after fldsp) + ser + lim.		
109.6 - 113.1	IV	phyr	Plagphearic, porphyritic. Medium-grained. Altered to clay on fractures. Plag altering to clay approaching basal contact. Sericite altering fldps- brown haze surround grains.			
109.6 - 115.2			Selective Repl Moderate Sericitisation	Patchy Moderate Silicification		
113.1 - 115.2	MxF	silc	Fol-str	Silicified gneiss. Sericite overgrowing foliation. Partially oxidized. Limonite along fractures (~0.25%).		
115.2 - 117.9	MxF		Increasing limonititc (~0.5-1%). Clay alteration of fldsp. Lim on fractures, veins and partly disseminated.			
115.2 - 119.0			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification	
117.9 - 119.0	MxF		Zone. Strongly limonitic (~5%) disseminated. Bordering HU- pervasive silicification. Weakly brecciated. Very weakly preserved fabric.			
119.0 - 128.9	MxF	silc	Strongly silicified in part. (first 1.5m). Patchy zones of fldsp altering to clay. Hematitc in part (after biot?). Sericite defining foliatoin.			
119.0 - 120.3			Pervasive Strong Silicification	Selective Repl Moderate Sericitisation		
120.3 - 124.5			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification	
124.5 - 129.4			Patchy Strong Silicification	Selective Repl Moderate Sericitisation	Patchy Weak Clay	

128.9 - 134.8	MxF		Fol-wk	Clay dominated alteration (after fldsp only). Patchy silicification. Lim content increasing (~0.5%)- fracture controlled, patchy. Local zones up to 2% limonite.			
		129.4 - 133.7	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification		
		133.7 - 134.8	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation			
		134.8 - 135.4	Pervasive Strong Clay				
134.8 - 135.4	MxM	Limonite disseminated (~3%). Minor mafic interval. Clay altered. Limonite veining.					
135.4 - 144.5	MxF	band	Fol-str	Variably altered. Silification dominant. Transitional. Patchy zones with clay after fldspr and weak limonite (~0.25%)- patchy and fracture controlled.			
		135.4 - 157.9	Replaces Mafics Strong Clay	Patchy Moderate Silicification	Selective Repl Strong Sericitisation	Clay alteration of fldpsr throughout. Patchy silicification. Strong sericite- defining foliation and fg in part.	
144.5 - 155.0	MxF		Fol-str	Clay dominant alteration. Limonite throughout (~0.5%)- patchy and dissminated in part.			
155.0 - 157.8	MxF	Limonite increasing- patchy/fracture controlled, discrete zones up t ~3% limonite. Silicified in part. Clay alteration fo fldps prominent.					
157.8 - 159.3	MxF	Zone. Fg 'Sooty' pyrite + fg sericite throughout- interstitial to fldpr grains.Dark grey veining- with sooty pyrite.					
		157.9 - 159.1	Pervasive Strong Sericitisation	Patchy Moderate Albite	Pervasive Weak Silicification		
		159.1 - 171.0	Pervasive Strong Clay	Patchy Moderate Silicification	Pervasive Strong Sericitisation	Breccia zone. Clay throughout matrix and pervasive in part. Silicified clasts- reworked silicified wallrocks? And qtz veins.	
159.3 - 160.1	YC	bxi	Zone. Limonite matrix (~5%). Immature breccia- poorly developed in part. Clasts unrotated and siliceous (appears to be vein material). Patchy silicification with no brecciation.				
160.1 - 161.7	YC	bxm	Breccia- white clay matrix with trace limonite (~0.25%). Silicified clasts- rotated and rounded in part (0.3-1.5cm). At 161.2m- possible remnant dacite??				
161.7 - 162.0	YC	bx	Zone. Limonite (~5%). Mature breccia. Silicified clasts. 50/50 clast to matrix.				
162.0 - 163.5	FG	silc	Zone? Weakly developed breccia- crackle texture with white clay infilling around unrotated silicified clast. Weakly limonitic. Mn in fractures.				
163.5 - 164.3	FG	Moderate zone. Discreted zones of HU. Patchy clay (in HU) and silica. Sericite throughout.					
164.3 - 166.1	FG	Zone.Distinguishable FG in part. Majority of inteval is strongly limonitic - pervasive(~8%)/clay altered. Rare windows of grey- fg sooty py and sericite.					
166.1 - 169.4	FG	silc	Zone. Early silicification? Since has been weakly brecciated- crackly texture with white clay + liimonite infilling. Patchy limonite (up to 1% in part). Limonite veining.				
169.4 - 171.1	HU	mud	Zone. Strongly limonitic (8%). Clay alteration pervasive. Host rock unrecognizable. Very broken in part.				
		171.0 - 176.0	Replaces Felsics Strong Clay	Patchy Moderate Silicification			
171.1 - 176.3	MxF	band	Variably altered. Patchy limonite- local to 1%. Patchy silicification. Clay alteration of fldps. Albite? Patchy. From 175.5-175.9 ~2% diss. Lim				
		176.0 - 196.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay	Variably altered interval.	
176.3 - 209.0	MxF	band	Fol-str	Variably altered mixed gneiss. Intervals of si+hem +ser alteration and clay (after fldsp) + ser +lim.			
		196.0 - 198.7	Patchy Strong Sericitisation	Pervasive Moderate Silicification	Patchy Moderate Chlorite	Patchy- stringer sericite alteration?? Possible dyke?	
		198.7 - 209.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay		

Drill Log: CFD0200

Easting	584132.01	Hole Length	191 m	Prospect	Supremo T3	Drill Started	May 07, 2012	Comment
Northing	6973952.87	Azimuth	275 °	Target	T3	Drill Completed	May 09, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	HGrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1185.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.7	OVb			
9.7 - 15.8	MxF	augn	Fol-mod	augen-bearing mixed gneiss; weak pervasive silc altn (14.00-15.84); mod perv clay altn (11.00-13.45) and strong pervasive clay 13.45-14 (with core loss);
		11.0 - 13.5		Patchy Moderate Clay
		13.5 - 14.0		Pervasive Strong Clay
		14.0 - 15.8		Pervasive Weak Silicification
15.8 - 33.2	BtS	biot	Fol-str	Biotite schist, mod-strong patchy epidote altn, weak pervasive chlorite alteration, disseminated brassy pyrite (0.1%)
		15.8 - 24.5		Patchy Moderate Epidote
		24.5 - 25.0		Patchy Strong Epidote
		25.0 - 33.2		Patchy Moderate Epidote
33.2 - 38.5	DIOR	phyr		Diorite, fine grained, 1.25% disseminated oxides (1%lim, 0.25% hem) from 33.24-35.65m; 0.75-1% diss lim from 35.65-38.5m; weak-moderate pervasive clay altn
		33.2 - 38.5		Patchy Moderate Clay
38.5 - 40.2	BtS	lamn	Fol-str	Strongly foliated biotite schist with shear zone (38.44-39.20m, crenulation cleavage); 0.15-0.35% disseminated lim; moderate sericite altn (selective replacement of biotite)
40.2 - 45.2	DIOR	phyr		Diorite dyke; coarse-grained, porphyritic (plagioclase, biotite, amphibole); 0.25% frac control limonite, 0-0.1% frac control hematite; patchy/selective replacement silica altn in matrix; phenocrysts: patchy/selective replacement of sericite
		40.3 - 52.4		Patchy Weak Clay
45.2 - 61.0	MxF	augn	Fol-str	Felsic-dominant mixed gneiss, 0.1-0.25% diss lim, weak-mod sericite and albite altn, patchy silc altn, weak patchy clay altn
		52.4 - 61.0		Selective Repl Weak Sericitisation
				Selective Repl Weak Albite
				Patchy Weak Clay
61.0 - 62.0	DIOR	phyr		Diorite, coarse-grained, porphyritic (dominant in kspar and biotite). Weak-mod patchy clay altn; patchy/selective replacement of albite (selective replacement of kspars)
		61.0 - 62.0		Selective Repl Moderate Albite
				Patchy Moderate Clay
62.0 - 118.9	MxF	augn		Felsic-dom mixed gneiss, 0-0.25% patchy limonite, weak-mod patchy sericite, albite, silc altn; 0.5% patchy hematite, 0.25% patchy limonite from 101.55-104.9m; 0.5% diss lim from 104.9-110.05; 0.25% patchy lim from 110.05-118.8m)
		62.0 - 69.7		Selective Repl Moderate Sericitisation
		69.7 - 79.7		Weak Albite
		79.7 - 81.5		Pervasive Moderate Silicification
		81.5 - 118.9		Selective Repl Moderate Sericitisation
				Patchy Moderate Albite
				Patchy Weak Clay
				Patchy Weak Silicification
				Patchy Weak Clay
118.9 - 122.2	HU	fgrn		Hydrothermally altered gneiss; patchy strong-intense clay altn, 1.5% diss lim, 0-0.1% patchy hematite
		118.9 - 122.2		Patchy Strong Clay
122.2 - 124.9	YC	bx		Silicified-clast breccia with a clay-limonite matrix; 1% diss limonite, 0.15% diss hematite; patchy strong clay altn; intense clast-replaced silica altn
124.9 - 125.5	IV	fgrn		Andesite dyke; fine grained with quartz amygduls (?); moderately magnetic; clay-altered upper contact; 1.5cm chill margin at lower contact with felsic gneiss
		124.9 - 125.0		Pervasive Strong Clay
125.5 - 170.8	FG		Fol-str	Felsic gneiss; 0.15 patchy hematite; 0.1-0.15 patchy limonite; weak patchy seric, silc and albite altn; minor cross-cutting anchorite veinlets (0.1%)
		125.5 - 170.8		Patchy Weak Albite
				Patchy Weak Sericitisation
				Patchy Weak Silicification

170.8 - 171.3	DIOR	phyr		Diorite; course grained, porphyritic (dominant in kspar, biotite), gradational contact
171.3 - 191.0	MxF		Fol-str	Felsic-dominant mixed gneiss; weak patchy silc atn; patchy 0.1-0.15% lim
		171.3 - 191.0	Patchy Weak Silicification	

Drill Log: CFD0201

Easting	584076.39	Hole Length	201.8 m	Prospect	Supremo T3	Drill Started	May 07, 2012	Comment
Northing	6973849.03	Azimuth	275 °	Target	T3	Drill Completed	May 10, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1151.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.3	OVb			
8.3 - 18.0	FG	band	Fol-str	Felsic gneiss. Weak pervasive silicification. Hematite staining of feldspars. Weak fracture-controlled limonite.
		8.3 - 18.0		Pervasive Weak Silicification
18.0 - 36.2	BtS	lamn	Fol-mod	Biotite Schist. Weak silicification. Hematite staining along fractures and weak fracture controlled limonite. Trace amounts epidote, pyrite, and sericite
		18.0 - 36.2		Pervasive Weak Silicification Patchy Weak Sericitisation Patchy Weak Epidote
		36.2 - 42.5		Patchy Moderate Silicification Patchy Moderate Sericitisation Patchy Weak Clay
36.2 - 36.8	SZ	ssf	Crenul	Shear zone. Very strong deformation. Strongly crenulated with small-scale folding. Strong phyllosilicate development.
36.8 - 42.5	MxM	band	Fol-str	Mafic-dominated mixed gneiss. Moderate patchy and selective sericite-silica alteration with locally strong patchy clay (weak overall). 0.1% lim, 0.1% hm.
42.5 - 62.6	FG	band	Fol-str	Felsic Gneiss. Weak disseminated limonite 0.25-0.5%. Moderate silicification. Weak disseminated hematite 0.1 .
		42.5 - 62.6		Pervasive Moderate Silicification Pervasive Moderate Sericitisation Patchy Weak Clay
62.6 - 63.3	YC	bx		Silicified clast breccia. 1.25% Limonite with 0.25% Hematite. Fractured controlled clay strong. Strong patchy silification alteration
		62.6 - 63.3		Patchy Moderate Silicification Fracture Controlled Strong Clay
63.3 - 67.5	HU			Hydrothermally Altered unrecognizable protolith. Limonite 1.25% with Hematite 0.5%. 67 - 67.5 m Ribbon Quartz Mylonite. Strong pervasive silicification. Strong pervasive sericite alteration.
		63.3 - 67.5		Pervasive Strong Silicification Pervasive Strong Sericitisation Patchy Weak Clay
67.5 - 86.8	FG	band	Fol-mod	Felsic Gneiss. Moderate silicification and mod. Sericite alteration. Hematite staining 0.1%. Weak disseminated limonite 0.1. Small quartz veins.
		67.5 - 87.8		Pervasive Moderate Silicification Pervasive Moderate Sericitisation Patchy Weak Clay
86.8 - 97.0	MxF	band	Fol-mod	Mixed Felsic Gneiss. Moderate pervasive silicification and moderate sericite alteration. Weak patchy clay alteration. Weak disseminated and fracture controlled limonite 0.1% and hematite staining of feldspars.
		87.8 - 97.0		Pervasive Moderate Silicification Pervasive Moderate Sericitisation Patchy Weak Clay
97.0 - 102.7	BtS	lamn	Fol-mod	Biotite schist. Moderate silicification and weak sericite alteration. Trace amounts of epidote and pyrite. Weak hematite staining and weak limonite 0.1%.
		97.0 - 102.7		Pervasive Moderate Silicification Patchy Weak Sericitisation Patchy Weak Epidote
102.7 - 106.9	MsS	lamn	Fol-mod	Felspar muscovite schist. Moderate silicification alteration. Limonite 0.1 disseminated and fracture controlled. Last box in core shack.
		102.7 - 106.9		Pervasive Moderate Silicification Patchy Weak Silicification
106.9 - 117.6	FG	band	Fol-str	Felsic Gneiss. Strong silicification and moderate sericite alteration. Disseminated weak limonite 0.1 with hematite staining. Patchy local epidote.
		106.9 - 117.6		Pervasive Strong Silicification Pervasive Moderate Sericitisation Patchy Weak Epidote
117.6 - 125.0	BtS	lamn	Fol-mod	Biotite Schist. Weak silicification. Felsic Gneiss from 119.80 - 120.65m. 0.5% pyrite. Faint fracture controlled hematite. Weak patchy epidote. Narrow bands of talc schist at 122.70m and 123.18m
		117.6 - 125.0		Pervasive Weak Silicification Patchy Weak Epidote
125.0 - 126.5	RU	lamn	Crenul	Talc Schist possibly chlorite schist. Weak fracture controlled limonite 0.1. Strong chlorite alteration. Strong crenulation deformation present.
		125.0 - 126.1		Pervasive Strong Chlorite
		126.1 - 141.5		Pervasive Moderate Silicification Pervasive Moderate Sericitisation Patchy Weak Epidote

126.5 - 143.6	FG	band	Fol-mod	Felsic gneiss. Biotite schist present from 126.05 - 126.70m. Strong silicification and moderate sericite alteration. Weak hematite staining, and disseminated and fracture controlled limonite. Calcite vein present at 133.5 and 136.46m. Weak local patchy epidote.		
		141.5 - 143.6	Pervasive Strong Silicification		Heavily bleached	
143.6 - 150.1	HU	mass	Hydrothermally unrecongnizable. Intense clay alteration. Local small quart veins. Hematite staining with fracture controlled limonite 0.1			
		143.6 - 150.1	Pervasive Intense Clay			
150.1 - 156.0	FG	band	Fol-wk	Felsic gneiss. Weak fracture controlled limonite with moderate hematite staining. Strong silicification with weak sericite alteration.		
		150.1 - 156.0	Pervasive Strong Silicification		Weak Sericitisation	
156.0 - 158.2	DIOR	mgrn	Diorite dyke medium grain. Small quartz veins. Trace amounts of pyrite. Strong silicification. Weak fracture controlled limonite.			
		156.0 - 158.2	Pervasive Moderate Silicification			
158.2 - 171.6	FG	band	Fol-wk	Felsic gneiss. Strong silicification with moderate sericite and clay alteration. Hematite staining and disseminated limonite.		
		158.2 - 171.6	Patchy Strong Silicification		Patchy Moderate Sericitisation	Patchy Moderate Clay
171.6 - 173.9	FG	band	Fol-mod	Felsic gneiss. Start of zone. Moderate limonite 0.5% . Patchy clay with weak silicification and sericite alteration.		
		171.6 - 173.7	Patchy Moderate Silicification		Patchy Moderate Sericitisation	Patchy Moderate Clay
		173.7 - 175.8	Pervasive Intense Clay			
173.9 - 175.8	HU		Hydrothermally alteralled unrecognizable protolith zone. Limonite 1% with strong hematite 0.5%. Intense clay alteration.			
175.8 - 179.9	FG	band	Fol-wk	Felsic gneiss. Intense clay alteration, with moderate silicification. Weak limonite 0.2% with weak 0.1% hematite staining.		
		175.8 - 179.9	Pervasive Intense Clay		Patchy Moderate Silicification	
179.9 - 185.2	MxM	band	Fol-mod	Mixed Mafic gneiss. Strong silicification with moderate sericite alteration. Weak fracture controlled limonite 0.1% with weak 0.1% hematite staining.		
		179.9 - 185.2	Pervasive Strong Silicification		Patchy Moderate Sericitisation	
185.2 - 187.5	FG	band	Felsic gneiss, small weak zone. Moderate silicification with moderate clay alteration. Limonite 0.2% and weak hematite 0.1%. Large quartz veins down TCA.			
		185.2 - 187.5	Patchy Moderate Clay		Patchy Moderate Silicification	
187.5 - 189.2	MxM	band	Mixed Mafic gneiss. Strong silicification with weak sericite alteration. Weak 0.1% disseminated limonite and weak hematite staining 0.1%			
		187.5 - 189.2	Pervasive Strong Silicification		Patchy Weak Sericitisation	
189.2 - 190.2	DIOR	mgrn	Sm diorite dyke. Fresh bronzy pyrite. Moderate silicification.			
		189.2 - 190.2	Moderate Silicification			
190.2 - 201.8	MxM	band	Fol-mod	Mixed mafic gneiss. Strong silicification with weak sericite alteration. Weak fracture controlled limonite 0.1% with weak hematite staining 0.1%. EOH.		
		190.2 - 201.8	Pervasive Strong Silicification		Patchy Weak Sericitisation	

Drill Log: CFD0202

Easting	585327.33	Hole Length	335 m	Prospect	Double Double	Drill Started	May 08, 2012	Comment
Northing	6973378.1	Azimuth	182 °	Target		Drill Completed	May 10, 2012	
Projection	UTM7-NAD83	Dip	-61 °	Geologist	EBuitenhuis	Core Size	NQ	
Survey method	RTK GPS	Elevation	1089.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 12.5	MxF	augn	Fol-str	Bleached and moderately to strongly silicified felsic gneiss, mafic component (biotite schist) is moderately chloritized, with altered out pits and moderate clay alteration along fractures. Feldspars are moderately sericitized, and BtS is unsilicified. Heavily fractured.
6.0 - 12.5		Selective Repl	Moderate Silicification	Replaces Mafics Moderate Chlorite
12.5 - 42.4	MxM	pblst	Fol-mod	Heavily fractured and moderately clay altered biotite schist, which has been moderately to strongly chloritized. Biotite not completely consumed, feldspars sericitized and eaten away by clay minerals. Fracture controlled clays, .1% fracture controlled limonite. Felsic gneiss component weakly to moderately silicified, with selective replacement/destruction (pitting along bands) of what was probably feldspar. Augens in FG can reach 1cm in size in some areas, and FG has significant white mica component. Foliation through BtS can be distorted, most likely due to small-scale faulting.
12.5 - 42.4		Replaces Mafics	Moderate Chlorite	Selective Repl Moderate Sericitisation
42.4 - 57.3	BtS	pblst	Fol-mod	BtS with clay replacement of bands, moderate to strong chloritization. Patchy moderate epidote, and moderate sericite. Disseminated pyrite cubes which are moderately oxidized, and extremely low amount of fracture controlled limonite. Vari-textured with patches of stronger foliation and other areas with coarser porphyroblasts. Moderate carbonation patchily distributed throughout the unit within foliation. Also late carbonate veinlets.
42.4 - 57.3		Selective Repl	Moderate Clay	Replaces Mafics Moderate Chlorite
57.3 - 60.7	BtS	pblst	Fol-wk	Biotite schist which increases in intensity of alteration to near-unrecognizable levels. Strong silicification with wispy quartz domains/veinlets through strongly sericitized matrix. Patch of 1.5% limonite over 15cm. 30cm of unit is weakly foliated with coarse porphyroblasts of feldspars (1.5mm).
57.3 - 60.2		Replaces Mafics	Moderate Chlorite	Patchy Moderate Silicification
60.2 - 62.3		Pervasive Strong	Silicification	Pervasive Strong Sericitisation
60.7 - 62.3	HU		Fol-mod	Textures are similar to end of previous unit, with wispy quartz and pervasive strong silicification and sericitization. Orange-green tint, with 1% disseminated limonite throughout unit.
62.3 - 64.1	YO	bx		Limonitic and hematitic YO. Carbonated over an 8cm intervals on shoulders of breccia with strong yellow-white clay matrix from 62.58-63.08m. Polymictic, with some possibly silicified clasts that are most likely felsic gneiss. 4-5% limonite and hematite over interval. Unsilicified over whole unit. At bottom of unit, 12cm milky quartz vein which is fractured and infilled by same orange-red limonite as throughout breccia.
62.3 - 62.6		Patchy Moderate	Calcite	Selective Repl Weak Clay
62.6 - 63.1		Pervasive Moderate	Clay	Patchy Weak Calcite
63.1 - 64.1		Patchy Moderate	Calcite	Selective Repl Weak Clay
64.1 - 64.9	HU		Fol-mod	Fabric is generally destroyed, strong silicification and sericite alteration with crosscutting fractures with quartz infill and orange limonite bleeding out. Limonite is fracture controlled, .5%.
64.1 - 64.9		Pervasive Strong	Sericitisation	Patchy Strong Silicification
64.9 - 66.7	MsS	musc	Fol-mod	Quartz and muscovite rich unit, with disrupted foliation and disseminated limonite up to 1% along foliation. Weak fracture controlled clay, 1% hematite as well. Weak brecciation in patches, and dismembered milky quartz veins in area of strongest alteration/stress.
64.9 - 66.7		Pervasive Moderate	Sericitisation	Fracture Controlled Weak Clay

66.7 - 77.7	BtS	pblst	Fol-mod	Variably altered biotite schist with small slips of jasperoidal felsic gneiss (<10cm). Strong patchy chlorite with sericitization of feldspar porphyroblasts. Porphyroblasts get destroyed by near total sericitization, chloritization, and silicification of schist in patches. Strongly altered and most schistose fabric destroyed.		
66.7 - 77.7			Replaces Mafics Strong Chlorite	Selective Repl Strong Sericitisation	Patchy Moderate Silicification	
77.7 - 78.2	HU		Fol-wk	Protolith hard to distinguish, possible dacite. 2% limonite and milky quartz vein. Oxidation banding seen in unit, liseegang?		
77.7 - 78.2			Pervasive Weak Clay	Selective Repl Weak Albite		
78.2 - 78.8	YO	bx		Strong limonite and hematite, up to 7%. Matrix is reddish clay which does not effervesce, however more yellow limonitic and cohesive areas (not as clay-altered) are carbonate rich.		
78.2 - 78.8			Pervasive Moderate Clay			
78.8 - 80.5	HU		Fol-wk	Patchily oxidized, protolith probably a BtS but unable to distinguish. Strong patches of complete sericitization, strong disseminated sooty sulphides which are patchily oxidized. 4% sooty pyrite?		
78.8 - 80.5			Patchy Strong Sericitisation	Patchy Moderate Silicification		
80.5 - 80.9	YO	bx		Clay-matrix breccia, polymictic and with red hematite and patches of yellow-carbonate/limonite matrix as well which effervesce. Small patches are unoxidized and steel-grey, with strong sooty sulphides.		
80.5 - 80.9			Pervasive Moderate Clay	Pervasive Moderate Calcite		
80.9 - 84.8	HU		Fol-wk	Patchy oxidation and patches of unoxidized sooty pyrite. Stockwork carbonate veins of coarse calcite which crosscut randomly and form houndstooth crystal habit in open spaces, crystals grey in colour but veins white.		
80.9 - 84.8			Patchy Moderate Sericitisation	Selective Repl Weak Albite	Fracture Controlled Weak Clay	
84.8 - 85.5	YO	bx		Similar to previous breccias, however weak clay as opposed to moderate. Patchily carbonated, breccia texture seems to be formed by hematitic (orange) carbonate which is moderate and pervasive throughout yellowish patches.		
84.8 - 85.5			Pervasive Weak Clay	Patchy Moderate Calcite		
85.5 - 88.7	BtS	pblst	Fol-mod	Variably altered biotite schist. Near complete chloritization of biotite throughout, moderate patchy epidote, and occasional strong sericite. Late white calcite veinlets cut randomly, and cloudy/milky quartz veins have minor jasper component along edges.		
85.5 - 88.7			Patchy Strong Chlorite	Patchy Weak Epidote	Patchy Moderate Sericitisation	
88.7 - 88.9	YC	bx		Small breccia, clasts are silicified but also probably quartz vein fragments which have been fractured and broken down to 2mm pieces. Limonitic, however sooty pyrite is present in unoxidized band approx. 3mm wide, and runs ~2000ppm As on XRF analysis.		
88.7 - 88.9			Pervasive Moderate Silicification			
88.9 - 112.7	MxM	pblst	Fol-mod	Dominantly biotite schist which has been moderately to strongly chloritized. Patches of strong silification in felsic gneiss, and moderate patchy silicification in the schist. .5% fracture controlled limonite and hematite, and weak patchy epidote. Package was a regular alternating mixed gneiss unit which has been altered strongly, with a strong amount of fractures and a relatively W/R ratio (unmineralized fluids generally). 3cm band of sooty sulphides which are unoxidized at 100.10m, unusual due to it being the only occurrence through the unit, and no oxidized patches which could have been sooty py are present. The sooty band immediately precedes a stronger zone of sericitization. Minor hematite veining around 109m in patch of very strong chloritization and possible epidote through BtS.		
88.9 - 112.7			Patchy Strong Chlorite	Patchy Weak Epidote	Patchy Moderate Silicification	Strong silification pervasive through felsic gneiss.
112.7 - 113.0	BtS	lamn	Fol-mod	Sooty sulphides through veinlets and along foliation of biotite schist. Patch of the unit is strongly oxidized, strong sericite.		
112.7 - 113.0			Pervasive Strong Sericitisation	Pervasive Moderate Silicification		
113.0 - 116.4	BtS	pblst	Fol-str	Biotite schist with strong sericite and moderate patchy epidote. Limonite is fracture controlled until 115.56m where it increases in intensity and feldspars begin to decompose to clay. Intensity of alteration most likely controlled by intrusion of andesite dyke at bottom contact, which is heavily fractured and limonitic/hematitic (4%), and obscured by the fracturing.		
113.0 - 116.4			Selective Repl Strong Sericitisation	Patchy Moderate Epidote	Fracture Controlled Weak Clay	
116.4 - 123.2	IV	phyr		Andesite dyke with coarse grained feldspar phenocrysts. Fractured and weakly to moderately clay altered along fractures, top contact is obscured by heavy fracturing and 1% hematite and limonite generally along fractures. Intrusion could have created a preferential fluid conduit at up-hole contact, as biotite schist in contact with dyke is heavily oxidized and moderately clay altered. Lower contact and portion of the dyke is fresh, dyke also contains 1% brassy py.		
116.4 - 123.2			Fracture Controlled Weak Clay			
123.2 - 140.0	BtS	pblst	Fol-mod	Biotite schist with pervasive moderate chloritization of biotite. Weak to moderate patchy epidote, with weak sericitization of feldspar porphyroblasts and patches of moderate sericite, lacking silicification. Occasional pitting through both rare felsic bands and through the schist, probably clay altered regions which have washed away. Very weak limonite, late fracture controlled. Disseminated pyrite throughout, brassy and blebby form in some areas, also cubic (1%)		
123.2 - 140.0			Pervasive Moderate Chlorite	Patchy Strong Sericitisation	Patchy Moderate Silicification	

140.0 - 186.6	MxM	pblst	Fol-mod	Similar alteration of above BtS through mafic components, however now have occasional felsic slips through the unit. Felsics are silicified, and moderate patchy silicification also affects the mafics. Moderate sericite in patches, but weak pervasive sericite affects all feldspar porphyroblasts. Some rare patches have near complete replacement of biotite by chlorite. 1% disseminated pyrite throughout mafics, brassy, with some weakly oxidized cubes through the felsic patches.	
		140.0 - 186.6	Patchy Moderate Silicification	Patchy Weak Epidote	Patchy Moderate Sericitisation
186.6 - 202.6	BtS	pblst	Fol-mod	Package of biotite schist which has moderate to strong chloritization of the biotite, moderate patches of epidote. Moderate silicification is pervasive, and occasional 5-10cm more felsic patches (>qtz) have a "ghosty" appearance.	
		186.6 - 202.6	Patchy Moderate Silicification	Patchy Moderate Epidote	Replaces Mafics Moderate Chlorite
202.6 - 202.9	SZ	cgrn	Fol-str	Small shear zone, without talc/chloritization. Coarse flakes of biotite characterize the shear, no serious displacement however kink banding/near-recumbent folding of quartz domains + carbonate. Quartz lozenges also, possibly dismembered	
		202.6 - 202.9	Replaces Mafics Moderate Chlorite		
202.9 - 226.2	MxF	augn	Fol-str	Patches appear to be almost mafic gneiss, however still dominantly felsic minerals within. Dark tint in places. Augens increase in size to coarse grains up to .5cm throughout unit. Jasperoidal/hematitic tint in some places, weak sericitization, and 1-1.5% disseminated pyrite, very coarse in some areas.	
		202.9 - 226.2	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation	
226.2 - 227.0	FG	augn	Fol-str	Strong sericitization of felsic gneiss, 1mm brassy pyrite cubes present, fractures are limonitic/hematitic however oxidation is confined to these fractures as evidenced by brassy py. Strong pervasive silicification.	
		226.2 - 227.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
227.0 - 230.5	MxF	augn	Fol-str	Mafics not as silicified as earlier MxF, only weakly. Moderate chlorite alteration of mafics, weak sericite, moderate leucoxene through mafic packages as well. Strong silicification of felsics.	
		227.0 - 230.5	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Sericitisation
230.5 - 231.5	IV	mass	Fresh andesite dyke. No coarse phenocrysts as earlier in hole, very aphanitic. Late carbonate crosscutting.		
		230.5 - 231.5	Selective Repl Weak Clay		
231.5 - 242.3	MxM	pblst	Fol-mod	Mafic dominant, Strong patchy sericite alteration and moderate pervasive chlorite. Contacts between felsic and mafic bands are generally sharp and abrupt.	
		231.5 - 242.3	Patchy Strong Sericitisation	Replaces Mafics Moderate Chlorite	
242.3 - 243.3	IV	mass	Fresh andesite, probably same injection as previous unit. Shares same characteristics.		
243.3 - 249.5	BtS_carb	pblst	Fol-mod	Carbonated biotite schist, deep green colour due to near complete replacement of biotite. Very brassy py-rich, possibly up to 2% of unit. Moderate patchy sericitization, moderate pervasive silicification.	
		243.3 - 249.5	Pervasive Moderate Calcite	Patchy Moderate Sericitisation	Patchy Moderate Silicification
249.5 - 250.9	FG	augn	Fol-mod	Start of zone. Moderate QSP alteration of felsic gneiss. Strong silicification, unoxidized, and possible small and thin (1mm) sooty pyrite veinlets which crosscut fabric.	
		249.5 - 250.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
250.9 - 252.7	FG	augn	Fractured with limonite along fractures and moderate clay/albitization of feldspars in felsic gneiss at bottom of unit. QSP alteration overprinted by oxidation		
		250.9 - 252.7	Fracture Controlled Weak Clay	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
252.7 - 253.4	FG	augn	Fol-mod	Strongly silicified felsic gneiss with thin veinlets of sooty py along foliation. Weak to moderate QSP alteration pervasive.	
		252.7 - 253.4	Pervasive Strong Silicification	Patchy Moderate Sericitisation	
253.4 - 253.7	FG	augn	Fol-mod	Similarly oxidized area of QSP. Coarse blebby brassy pyrite is now oxidized, limoninte and hematite along fractures and orange colouration to unit.	
		253.4 - 253.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
253.7 - 254.5	FG	augn	Fol-mod	Zone of 3mm max thickness sooty pyrite veining and strong QSP alteration. Seems to terminate and blend into strongly silicified felsic gneiss. Sooty py veins also have blebby brassy py up to 1.5mm in size either within vein or closely associated.	
		253.7 - 254.5	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
254.5 - 256.2	FG	augn	Fol-mod	Strongly silicified felsic gneiss with large amount of brassy pyrite along foliation in darker mafic mineral bands. Weak sericite.	
		254.5 - 256.2	Pervasive Strong Silicification	Selective Repl Weak Sericitisation	
256.2 - 260.0	FG	augn	Fol-mod	Moderate to strong QSP zone which is variably fresh or altered. Sooty py is found in patches and veinlets, variably oxidized. Fractures have orange limonite bleeding out into host rock. As hit of 1023ppm at 253, however entire unit may have weak sooty sulphides.	
		256.2 - 260.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	

260.0 - 266.4	FG	augn	Fol-mod	Felsic gneiss with patchy moderate sericite alteration and moderate hematite component. Mafic patches are chloritized and contain weak epidote. .25% limonite patches and bleeding out of fractures into gneiss.
260.0 - 266.4			Patchy Moderate Sericitisation	Replaces Mafics Moderate Chlorite
266.4 - 276.1	FG	augn		Weak clay along fractures, patchy moderate to strong sericite and 1% deep red-purple hematite along fractures. End of unit grades to pink-hematite rich silicified felsic gneiss. Fractured rock at 270m has soapy feel to white clay-rich fragments, possible talc.
266.4 - 276.1			Patchy Moderate Sericitisation	Fracture Controlled Moderate Clay
276.1 - 285.7	BtS_carb	pblst	Fol-str	Dominantly biotite schist which is pervasively carbonated throughout, no significant development of banding however. Two ~12cm qtz veins, milky with calcite selvage. Moderate to strong patchy epidote, moderate chlorite replacement of biotite. Patches have mini-augen like texture. 1% brassy disseminated pyrite.
276.1 - 285.7			Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
285.7 - 286.9	SZ		Crenul	Shear zone, strong chlorite and epidote +/- talc (? Could be fine clay minerals). Foliation is strong and minor crenulation visible. Coarsening of biotite as well.
285.7 - 286.9			Replaces Mafics Strong Chlorite	Selective Repl Moderate Clay
286.9 - 307.6	BtS	pblst	Fol-mod	Small damage zones at top of unit. Weak patchy sericite, moderate chlorite replacing biotite, patches of weak epidote. Minor quartz veining along foliation which can appear to be dismembered. Weak clay along fractures.
286.9 - 307.6			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
307.6 - 314.7	MxF	augn	Fol-mod	Patchy moderate silicification of felsics, with coarse augens in places up to 1cm in size. BtS units are moderately chloritized. .25% disseminated hematite through FG gives it a pink-red colouration, increasing in intensity to bottom of unit.
307.6 - 314.7			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
314.7 - 317.7	FG	augn	Fol-mod	Small zone of strong sericitization, silification, and possible sooty py. As runs 300-400 on "sooty-looking" fracture surfaces, however non-sooty areas do not hit As at all. Possible sootys are centralized around a milky white quartz vein.
314.7 - 317.7			Pervasive Strong Sericitisation	Pervasive Strong Silicification
317.7 - 323.6	MxM	pblst	Fol-mod	Biotite schist with moderate to strong chloritization, patches of more felsic/gneissic material with .5cm qtz augens. Moderate pervasive silicification. .5% fine disseminated brassy pyrite
317.7 - 323.6			Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
323.6 - 326.9	FG	augn	Fol-mod	Strong silicification and sericitization of felsic gneiss, no visible sooty sulphides. Seems to have a greater clay or albite component than previous zones of sericitization. No As hits on XRF.
323.6 - 326.9			Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
326.9 - 335.0	MxF	augn	Fol-mod	Moderate silicification of coarse augen felsic gneiss, which has a hematitic colouration (.1%), mafic slips are moderately chloritized, and entire unit is silicified.
326.9 - 335.0			Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification

Drill Log: CFD0203

Easting	584160.63	Hole Length	202 m	Prospect	Supremo T3	Drill Started	May 10, 2012	Comment
Northing	6973950.59	Azimuth	276 °	Target	T3	Drill Completed	May 12, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist	Hgrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1185.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.2	OVB			
10.2 - 36.0	MxM	augn	Fol-str	Mafic-dominant mixed gneiss; weak patchy silc, epidote and chlorite altn; weak patchy clay altn; trace patchy/fracture control limonite and hematite (<0.1%); 40% buck quartz vein from 19.3-19.8m
		10.2 - 36.0	Patchy Weak Silicification	Patchy Weak Epidote Patchy Weak Clay
36.0 - 51.2	FG			Felsic dominant augen gneiss; patchy silc, serc and albite altn; patchy 0.25% oxides (hematite and limonite)
		36.0 - 51.2	Patchy Weak Sericitisation	Patchy Weak Sericitisation Patchy Weak Silicification
51.2 - 52.7	DIOR	phyr		Diorite dyke; porphyritic (silica, biotite, sericite composition); clean upper and lower contact with mixed gneiss
52.7 - 67.1	FG		Fol-str	Felsic-dominant gneiss, patchy silc, seric altn; patchy 0.1-0.2% sulphides (hem and limonite)
		52.7 - 67.1	Patchy Weak Silicification	Patchy Weak Sericitisation
67.1 - 72.8	IV	fgrn		Andesite dyke; fine-grained, porphyritic; patchy strong pervasive clay and seric (selective replacement of feldspars) altn; fresh from 67.09-69.6m
72.8 - 85.9	MxF	augn	Fol-str	Mixed gneiss; pervasive silc altn; patchy 0.15% limonite
		72.8 - 85.9	Weak Silicification	
85.9 - 121.2	MsS	augn	Fol-str	Feldspar-muscovite-quartz schist; Moderate patchy/ selective replacement seric and albite altn; patchy 0.2-0.5% limonite
		85.9 - 121.2	Selective Repl Moderate Sericitisation	Selective Repl Moderate Albite Patchy Weak Silicification
121.2 - 122.1	DIOR	phyr		Diorite dyke; porphyritic (felspar, biotite, quartz, epidote, sericite); patchy 0.75% limonite; patchy mod clay alteration
122.1 - 138.3	MsS	augn	Fol-str	Feldspar-muscovite-quartz schist; Moderate patchy/ selective replacement seric and albite altn; patchy 0.2-0.5% limonite
		122.1 - 138.2	Selective Repl Moderate Sericitisation	Selective Repl Moderate Albite
		138.2 - 139.0	Patchy Weak Sericitisation	
138.3 - 139.0	HU	fgrn	Fol-wk	Hydrthermally altered probable gneiss; 1% disseminated limonite; weak patchy sericite altn
139.0 - 148.8	FG	fgrn	Fol-wk	Felsic gneiss with intense patchy/pervasive silica alteration; patchy 0.25% limonite
		139.0 - 148.8	Patchy Intense Silicification	
148.8 - 150.7	YC	bx		Silicified-clast breccia with silica matrix; patchy 0.25-0.75% limonite; patchy weak clay; weak patchy sericite altn
		148.8 - 150.7	Pervasive Strong Silicification	Patchy Weak Clay
150.7 - 156.4	FG			Intensely silicified felsic gneiss, patchy 0.25% limonite
		150.7 - 156.4	Patchy Intense Silicification	
156.4 - 158.5	YC	bx		Silicified-clast breccia with silica and limonite clay matrix; 0.25-0.5% fracture control limonite
		156.4 - 158.5	Selective Repl Strong Silicification	Replaces Matrix Moderate Clay
158.5 - 160.1	IV			Andesite dyke; fine grained; patchy 1-1.5% disseminated and fracture control limonite; 0.5% cross cutting limonite veinlets in oxidized portion (158.5-158.93m); 1% cross-cutting silica veinlets (158.83-160.08)
160.1 - 162.7	FG			Felsic gneiss; 1% patchy limonite; patchy strong silc and clay altn; patchy mod seric altn; 0.5% cross-cutting limonite veinlets (160.08-162m)
		160.1 - 162.7	Patchy Strong Clay	Patchy Strong Silicification Patchy Moderate Sericitisation
162.7 - 163.4	DIOR	phyr		Diorite dyke; porphyritic (dominant in felspar, biotite, silica composition); gradational upper contact, clean lower contact with gneiss

163.4 - 202.0	MxF	augn	Felsic dominant mixed gneiss; moderate patchy silica alteration, weak patchy seric altn; patchy 0.75% limonite and weak patchy clay(163.43-168m); 0.1-0.25% patchy limonite (168-202m)	
163.4 - 202.0	Patchy Moderate Silicification		Patchy Weak Sericitisation	

Drill Log: CFD0204

Easting	584110.67	Hole Length	182 m	Prospect	Supremo T3	Drill Started	May 10, 2012	Comment
Northing	6973848.5	Azimuth	270 °	Target	T3	Drill Completed	May 12, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1151.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.5	OVb			
8.5 - 16.7	FG	band		Felsic gneiss. Strong silicification with strong sericite alteration. Hematite staining 0.1% with disseminated and fracture controlled limonite 0.1%. Moderately fracture, start of hole.
		8.5 - 16.6	Pervasive Strong Sericitisation	Pervasive Strong Silicification
		16.6 - 21.4	Patchy Weak Sericitisation	Patchy Weak Clay
16.7 - 24.9	DIOR	mgrn		Diorite Dyke. Strong local patchy clay alteration. Hematite staining 0.1% with patchy limonite 0.15%. From 21.40 - 22m 0.5% limonite with 0.25% hematite. Strong clay alteration from 21.40m - 23m.
		21.4 - 23.0	Pervasive Strong Clay	
		23.0 - 24.9	Patchy Weak Sericitisation	
24.9 - 36.9	BtS	lamn	Fol-str	Biotite schist. Moderate patchy epidote, strong silicification, weak sericite alteration. Weak fracture controlled limonite 0.1% with hematite staining 0.1% weak patchy fresh bronzy . 35 - 35.45m shear zone with crenulations
		24.9 - 36.9	Pervasive Strong Silicification	Patchy Moderate Epidote Patchy Weak Sericitisation
36.9 - 69.3	FG	band	Fol-mod	Felsic gneiss. Strong local patchy silicification with patchy strong selective sericite replacement of feldspars. Hematite staining 0.1% with disseminated limonite 0.1%. Local 0.25% limonite over 50cm. Local diorite dykes up to 20cm.
		36.9 - 69.3	Patchy Strong Silicification	Selective Repl Moderate Sericitisation
69.3 - 102.1	FG	band	Fol-mod	Felsic gneiss. Strong local patchy silicification with strong to intense patchy selective sericite replacement of feldspars. Fracture controlled and disseminated limonite 0.10% with hematite staining 0.1%. Local 1-12cm quartz veins over 74.0-77.5m .
		69.3 - 102.1	Patchy Strong Silicification	Patchy Strong Sericitisation
102.1 - 103.8	HU			Hydrothermally unrecognizable protolith. Moderate patchy silicification with weak patchy sericite alteration. Disseminated limonite 0.15% with weak patchy hematite 0.1%.
		102.1 - 103.8	Patchy Moderate Silicification	Patchy Weak Sericitisation
103.8 - 106.7	FC	fgrn		Dacite Dyke. Hematite staining 0.15% with disseminated limonite 0.10%. Moderate clay alteration.
		103.8 - 106.7	Pervasive Moderate Clay	
106.7 - 109.8	Ylim	bx		Breccia with dominant limonite matrix. Disseminated limonite 3% and hematite 1.5%. Weak patchy silicification with strong patchy clay alteration. Rounded monomictic clasts that are locally matrix and clast supported.
		106.7 - 109.8	Patchy Weak Silicification	Patchy Strong Clay
109.8 - 110.6	FC			Dacite Dyke. Weak silicification alteration. Hematite staining 0.1% with disseminated 0.15% limonite. Quartz vein from 109.65-110.62m.
		109.8 - 110.6	Patchy Weak Silicification	
110.6 - 119.8	MsS	lamn	Fol-mod	Muscovite feldspar schist. Moderate silicification and sericite with patchy clay alteration. Disseminated limonite 0.1% with patchy hematite 0.1%.
		110.6 - 119.8	Pervasive Moderate Silicification	Patchy Moderate Sericitisation Patchy Weak Clay
119.8 - 124.1	MxM	lamn	Fol-mod	Mixed Mafic Gneiss. Strong silicification, weak patchy sericite and weak patchy chlorite alteration. Fresh bronzy pyrite 0.1% with weak disseminated limonite 0.1% and hematite staining 0.1%
		119.8 - 124.1	Pervasive Strong Silicification	Patchy Weak Sericitisation Patchy Weak Chlorite

124.1 - 125.1	RU	lamn	Crenul	Soapy talc schist. Moderate clay, chlorite, and weak sericite alternatin. Weak disseminated limonite 0.1%. Core is friable, breaks under touch. Intense crenulations.		
		124.1 - 125.1	Patchy Moderate Chlorite	Pervasive Moderate Clay	Patchy Weak Sericitisation	
125.1 - 126.7	HU		Hydrothermally unrecognizable protolith. Limonite 0.75% with hematite 0.5%. Patchy weak sericite, silicification alteration with moderate clay alteration.			
		125.1 - 126.7	Patchy Weak Silicification	Patchy Weak Sericitisation	Pervasive Moderate Clay	
126.7 - 155.4	MsS	lamn	Fol-mod	Muscovite feldspar schist. Strong silicification with moderate sericite and local weak patchy clay alteration. Disseminated limonite 0.1% with hematite staining 0.1%. Local quartz veins varying from 1- 30 cm. Oxidized pyrite cubes.		
		126.7 - 155.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Patchy Weak Clay	
155.4 - 161.4	MxF	band	Fol-wk	Mixed felsic gneiss. Moderate sericite with strong silicification alteration and weak patchy epidote. Fresh bronzy pyrite 0.1%, fracture controlled limonite 0.1% with hematite staining 0.1%.		
		155.4 - 161.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Patchy Weak Epidote	
161.4 - 162.8	DIOR		Diorite dyke. Fresh bronzy pyrite 0.1%. Sericite and silicification alteration. Local small calcite veins.			
		161.4 - 162.8	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
162.8 - 182.0	MxF	band	Fol-wk	Mixed felsic gneiss. Strong silicification, sericite, and weak patchy clay alteration. Fresh bronzy pyrite 0.1%, hematite staining 0.1%, with disseminated and fracture controlled limonite 0.1%.		
		162.8 - 182.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Patchy Weak Clay	

Drill Log: CFD0205

Easting	585028.13	Hole Length	290 m	Prospect	Double Double	Drill Started	May 12, 2012	Comment
Northing	6973275.77	Azimuth	177.5 °	Target		Drill Completed	May 15, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EBuitenhuis	Core Size	NQ	
Survey method	RTK GPS	Elevation	1098.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.3	OVB			
9.3 - 31.3	BtS	pblst		Fractured (at top of hole) and moderately chloritized and sericitized biotite schist. Strong chlorite and mod to strong clay in areas of most fracturing. Very bottom of unit has onset of albite alteration of feldspars, yellow-orange limonite (.5% disseminated).
		9.3 - 31.3	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
31.3 - 35.7	MxF	augn	Fol-mod	80cm slip of slightly more porphyroblastic BtS at end of unit. Felsic gneiss is strongly fractured in places, has coarse (1cm) augens and strong muscovite component. Minor milky quartz veining. Very patchy moderate carbonate which is pervasive in those spots through foliation.
		31.3 - 35.7	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay Patchy Moderate Calcite
35.7 - 40.9	MsS	lamn	Fol-str	Muscovite rich, quartz can be pulled out almost into ribbons. Limonitic throughout, any previous biotite is nearly completely chloritized and obliterated.
		35.7 - 40.9	Selective Repl Strong Sericitisation	Replaces Mafics Moderate Chlorite
40.9 - 42.6	HU			Strongly silicified beginning to unit with what could be relict felsic gneiss, which leads into very strongly altered and limonitic (3%) rock. Strong fracture zone at 42.2m, with blocky chunks of white opaque quartz vein. Deep orange/red oxidation infiltrating through fractures in rock.
		40.9 - 42.6	Patchy Strong Silicification	Fracture Controlled Weak Clay
42.6 - 44.5	MsS	lamn		Severely distorted and deformed rock. Remnant mineral is dominantly quartz and muscovite, greenish tinge which could be chlorite, and weak fracture controlled clay. Beginning of unit has very minor brecciation over 10cm with clay limonite matrix. Severe damage zone from 43.38 to end of unit with strong clay and destroyed rock.
		42.6 - 44.5	Fracture Controlled Moderate Clay	Selective Repl Moderate Sericitisation
44.5 - 49.5	BtS	lamn	Fol-str	Heavily altered, strong chlorite replacement of any biotite (only very rare flecks visible on broken surfaces). Foliation disrupted in area by strong alteration with limonitic clay patches. Strong muscovite component as well. Unsilicified. Patches and rare vugs are deep-red oxidized.
		44.5 - 49.5	Replaces Mafics Strong Chlorite	Fracture Controlled Weak Clay Selective Repl Weak Albite
49.5 - 52.1	HU			Strongly altered zone, most original fabric completely washed out. Possibility of a dacite dyke at beginning of unit, but could also just be completely juiced host rock. Pervasive limonite (3%) at beginning of unit, which grades into completely clay altered and unconsolidated hematitic rock, deep brown-red with little limonite but up to 1% hematite.
		49.5 - 52.1	Fracture Controlled Strong Clay	Selective Repl Moderate Sericitisation
52.1 - 55.0	YC	bx		Silicified clast breccia. Host rock completely silicified and then brecciated. Matrix is yellow limonite, breccia is clast-supported, no carbonate present at all throughout the unit. Initial 40cm is more clay-rich, broken down. From 54-55m strong fracturing, which then leads into a more immature breccia texture in silicified host rock, still YC.
		52.1 - 55.0	Replaces Clasts Strong Silicification	Replaces Matrix Weak Clay
55.0 - 58.0	MsS	lamn	Fol-str	Strong foliation through heavily altered unit, strong muscovite, intense alteration. Fabric is still visible, patches have very minor immature breccia texture developing. 10cm qtz vein is heavily fractured and infilled by limonite along cracks. Foliation can take sudden shifts in areas hit hardest by fluid action. Strong hematite (blood-red) along single fracture at 55.90m
		55.0 - 58.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation

58.0 - 59.2	HU	mass		Possible dacite: white/tan colouration, massive, foliation undetectable, typical bleeding/oxidation front orange limonite infiltrating along fractures. Heavily fractured at bottom of unit.
		58.0 - 63.0	Pervasive Weak Clay	Selective Repl Moderate Sericitisation
59.2 - 63.0	HU			In and out between heavily fractured rock and more competent rock with no visible foliation. Completely altered and juiced, patch about 40cm long displays minor foliation and light green tinge, probably relict biotite schist.
63.0 - 64.6	BtS	lamn	Fol-mod	Strongly pervasive carbonation of biotite schist. Beginning of unit is near HU levels of alteration, however there is a distinct carbonation front at 63.01 (start of unit) between the unit and the previous HU. Transition from next to zero carbonation to complete carbonation is very sharp. Unit is strongly fractured at 64.5m. Limonitic (1.5%) disseminated.
		63.0 - 64.6	Pervasive Strong Calcite	Fracture Controlled Weak Clay
64.6 - 75.2	BtS	pblst	Fol-str	Intense deformation of biotite schist. Foliation is strong, however possible small scale folding, minor faulting present. Opaque white quartz veins present, however commonly dismembered, but originally emplaced along foliation. Strong pervasive carbonation of entire unit, gradually fading to moderate through deeper parts of unit. Strong epidote seems to be almost vein concentrated in places, patchy moderate silicification, strong chloritization, and common hematite staining (possibly after amphibole?). High strain area.
		64.6 - 75.2	Pervasive Strong Calcite	Replaces Mafics Strong Chlorite Selective Repl Moderate Epidote
75.2 - 76.7	BtS	pblst	Fol-mod	Zone of disaggregated rock with moderate clay, strongly fractured. Moderate to strong hematite along fractures, and clay replacement of feldspar porphyroblasts in biotite schist.
		75.2 - 76.7	Fracture Controlled Moderate Clay	Selective Repl Moderate Albite
76.7 - 82.7	BtS	pblst	Fol-mod	Increase in disseminated limonite most likely associated with moderate clay/albite replacement of porphyroblasts. Carbonation still present within foliation. Patch of strong hematite along foliation as well.
		76.7 - 82.7	Pervasive Moderate Calcite	Selective Repl Moderate Albite
82.7 - 84.3	HU		Fol-wk	White unit with raised silicified fractures. Host was probably strongly clay altered and washed away, leaving raised and more resistant red-brown oxidized silica cemented veinlets/fractures. .5% limonite, moderate clay. Could have been dacite.
		82.7 - 84.3	Selective Repl Strong Silicification	Pervasive Moderate Clay
84.3 - 87.9	MsS	lamn	Fol-mod	Heavily oxidized MsS, no biotite visible, patches near HU alteration level, however foliation (small bands of qtz +/- mica) still visible. Good zone, strong limonite (4%). Most alteration is actually obscured by oxidation. Uncarbonated.
		84.3 - 87.9	Fracture Controlled Weak Clay	
87.9 - 93.1	BtS	pblst	Fol-mod	Sharp oxidation boundary, where BtS which is moderately to strongly QSP altered begins. Patchy oxidation in and out, but also sooty sulphides present in veinlets. Brassy py appears as well, often associated with the sooty sulphides, but also along foliation as blebs.
		87.9 - 93.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
93.1 - 106.3	BtS	pblst	Fol-mod	Patchily silicified biotite schist. Occasional patches of moderate to strong sericitization (QSP-style) and patchy epidote rarely. Areas of unit are strongly pervasively carbonated, and pinkish bands of carbonate make an appearance, but can be dismembered and displaced. Weak clay alteration of feldspar porphyroblasts in occasional patches. .25% fracture controlled limonite. Patches of large (.3cm) blebs of brassy pyrite are very common (1.5% disseminated blebs)
		93.1 - 106.3	Patchy Strong Calcite	Selective Repl Weak Epidote Replaces Mafics Moderate Chlorite
106.3 - 113.4	MsRQM	pblst	Fol-str	Very strongly limonitic muscovite ribbon qtz mylonite, protolith was biotite schist. Moderate to strong replacement of feldspar porphyroblasts, quartz "ribbons" are nearly all that is left besides the limonite along foliation. Intensity of limonite increases to 5% at bottom of unit. Foliation is heavily deformed: faulting and offset present, as well as minor crenulation in places. Dismembered milky quartz veins common, with fractures that are limonitic as well.
		106.3 - 113.4	Selective Repl Moderate Clay	Fracture Controlled Weak Clay
113.4 - 116.4	HU			Strongly limonitic zone, no foliation visible throughout. Moderate limonitic clay along fractures and also pervasive in some patches. Completely juiced, 7% limonite content and areas which are heavily fractured and disaggregated.
		113.4 - 116.4	Pervasive Moderate Clay	
116.4 - 116.7	YC	bx		Small YC zone, matrix is limonitic clay, no carbonate. Clasts completely silicified, some appear to be the orange-red host rock and foliation can be seen within some (or brecciation along foliation), others are possible quartz vein fragments.
		116.4 - 116.7	Replaces Clasts Moderate Silicification	Replaces Matrix Moderate Clay
116.7 - 121.0	MsRQM	qtz	Fol-str	Quartz ribbons are red-brown and preserved, strong foliation and strain, most other minerals have been replaced by limonite, 4%
		116.7 - 121.0	Selective Repl Moderate Sericitisation	Selective Repl Moderate Silicification Selective Repl Weak Clay

121.0 - 126.6	HU				Strongly sulphidized and patchily oxidized unit. QSP with very strong sulphidation of host, which is hydrothermally unrecognizable. As peaks of 22500 in sooty sulphide rich and unoxidized area. Areas of strong oxidation are not silicified and have weak pervasive clay along with 8% limonite.	
		121.0 - 126.6		Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Moderate Clay
126.6 - 127.3	MsRQM	qtz	Fol-str	MsRQM with strong strain. Part of the zone, strong deformation, patches appear to display crenulation. Small muscovite component. 3% limonite.		
		126.6 - 127.3		Selective Repl Moderate Sericitisation	Selective Repl Weak Clay	
127.3 - 127.6	YO	bx		Small YO, patches of which are matrix supported with tiny angular clasts, rest is more clast supported and weakly developed. Matrix is yellow limonite, unit is patchily carbonated but matrix does not seem to be carbonate.		
		127.3 - 127.6		Patchy Moderate Calcite	Selective Repl Weak Clay	
127.6 - 129.9	MsRQM	qtz	Fol-str	Areas are severely broken down and contain moderate to strong clay along the fractures.		
		127.6 - 129.9		Fracture Controlled Strong Clay		
129.9 - 138.0	MsRQM	qtz	Fol-str	MsRQM developed after high strain of felsic gneiss. Porphyroblasts are still preserved in areas, however strong muscovite component which wraps around. Quartz ribbons display crenulation in areas, and whole unit is pervasively sillcified (moderate) with moderate sericite. Weak fracture controlled limonite, now out of zone.		
		129.9 - 138.0		Patchy Strong Sericitisation	Pervasive Moderate Silicification	Selective Repl Weak Albite
138.0 - 144.0	MxF	silc	Fol-mod	Strong silification of felsic gneiss. Some areas show schistose texture with small flakes of biotite, however most is chloritized. Strong sericitization (QSP alteration) in patches, however sericite is moderate throughout.		
		138.0 - 144.0		Patchy Strong Sericitisation	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite
144.0 - 148.4	MsRQM	qtz		Strong patchy silicification of a felsic gneiss patch, strong fracture controlled clay: dominant in severe damage zones. Strong clay zones could have been breccias, which were then destroyed. Patchy hematite and fracture controlled limonite .5%		
		144.0 - 148.3		Patchy Strong Silicification	Fracture Controlled Moderate Clay	
		148.3 - 150.3		Replaces Matrix Moderate Clay	Replaces Clasts Moderate Silicification	Fracture Controlled Moderate Clay
148.4 - 150.3	YC	bx		Silicified clast breccia which varies in maturity of breccia texture. Patches are carbonated, but do not show the orange herring style competent matrix. Matrix to breccia is clay and limonite, and patches are completely disaggregated with moderate to strong clay alteration. 4% limonite disseminated, genearly throughout matrix.		
150.3 - 152.4	YO	bx		Clay matrix breccia. Begins white-yellow in colour up to 151m, and then becomes mottled hematite red and chlorite green. Strong clay, chlorite, .25% hematite. Beginning of breccia is .25% limonitic.		
		150.3 - 152.4		Replaces Matrix Strong Clay	Selective Repl Strong Chlorite	
152.4 - 155.0	BtS	pblst		Strongly fractured zone of biotite schist with strong clay along fractures and strong chlorite. Patchy hematite (.25%)		
		152.4 - 155.0		Fracture Controlled Strong Clay	Replaces Mafics Strong Chlorite	
155.0 - 155.5	MsRQM	qtz	Fol-str	Moderate pervasive clay, fractured and soft . Near brecciated texture, 5% limonite. As runs 3000ppm approx. through zone.		
		155.0 - 155.5		Pervasive Moderate Clay		
155.5 - 162.6	BtS	pblst	Fol-mod	Moderate chlorite, weak fracture controlled clay, crosscutting silica veinlets.		
		155.5 - 162.6		Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Selective Repl Weak Silicification
162.6 - 169.7	Amph	cgrn	Fol-wk	Coarse grained amphibolite. Patchy moderate chlorite and epidote alteration, weak clay along fractures and .25% patchy hematite.		
		162.6 - 169.7		Patchy Moderate Chlorite	Fracture Controlled Weak Clay	Patchy Moderate Epidote
169.7 - 174.9	AmBtS	fgrn	Fol-mod	Strong sericite and near pervasive moderate silicification of fine grained and weakly foliated AmBtS. Small 10cm patches of oxidized material, weakly silicified.		
		169.7 - 174.9		Pervasive Strong Sericitisation	Patchy Strong Silicification	
174.9 - 179.8	Amph	cgrn	Fol-wk	Coarse amphibolite, identical to last Amph unit. Locally weakly foliated with moderate patchy chlorite, patchy moderate sericitization.		
		174.9 - 179.8		Patchy Moderate Chlorite	Patchy Moderate Sericitisation	Patchy Moderate Epidote
179.8 - 220.2	AmBtS	fgrn	Fol-mod	Strong sericite zone with minor oxidation from 179.76m to 181m, with strong pervasive silicification. Beyond, moderate pervasive silicification and moderate chlorite alteration. Patch of intense epidote at 185.5-186m,		
		179.8 - 181.0		Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	
		181.0 - 185.0		Patchy Moderate Chlorite	Patchy Moderate Sericitisation	Patchy Moderate Epidote
		185.0 - 185.5		Pervasive Strong Epidote		
		185.5 - 262.0		Patchy Moderate Chlorite	Patchy Moderate Sericitisation	Patchy Moderate Epidote

220.2 - 223.3	FG	augn	Fol-mod	Patch of augen gneiss, ligh pink colouration of large augens and very strong muscovite component. Could push into the mafic gneiss category but felsic minerals are more dominant .	
223.3 - 260.7	AmBtS	lamn	Fol-str	Amphibole/biotite schist, with patchy moderate to strong sericitization and coarse muscovite present throughout.Very weak fracture controlled limonite in some places, patchy strong epidote sometimes in vein morphology. Moderate patchy silicification.	
260.7 - 262.3	YC	bx		short interval of silicified clast breccia, intense clay alteration, 2% limonite, very broken	
		262.0 - 262.4	Pervasive Strong Clay		
262.3 - 290.0	AmBtS	lamn	Fol-str	Amphibole/biotite schist, with patchy moderate to strong sericitization and coarse muscovite present throughout.Moderate patchy silicification.	
		262.4 - 290.0	Patchy Moderate Chlorite	Patchy Moderate Sericitisation	Patchy Moderate Epidote

Drill Log: CFD0206

Easting	584138.42	Hole Length	191 m	Prospect	Supremo T3	Drill Started	May 12, 2012	Comment
Northing	6973847.36	Azimuth	274 °	Target	T3	Drill Completed	May 14, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Credmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1152.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.7	OVB			
8.7 - 35.8	FG	band	Fol-mod	Felsic gneiss. Strong silicification with strong sericite alteration and weak patchy clay alteration. Hematite fracture controlled and staining 0.1% with disseminated and fracture controlled limonite 0.1%. Local annealed joints from 16 - 22m, possible anneal with discrete fracture planes, tension gashes and significant silicification. From 33.30 - 33.60m brittle fresh fault zone with fault breccia.
		8.7 - 35.8	Pervasive Strong Sericitisation	Pervasive Strong Silicification Sericitisation & silicification varying from moderate to strong throughout lithology unit.
35.8 - 36.5	FLT			Fault gouge. Moderate clay with weak patchy sericite alteration. Disseminated limonite 0.1%.
		35.8 - 36.5	Patchy Moderate Clay	Patchy Weak Sericitisation
36.5 - 48.4	MxF	band	Fol-mod	Fixed felsic gneiss. Strong silicification with moderate to strong local patchy sericite alteration, and weak patchy clay alteration. Disseminated limonite and hematite staining 0.1% throughout. Small local quartz veins ~1cm thick.
		36.5 - 41.9	Pervasive Strong Silicification	Patchy Moderate Sericitisation
		41.9 - 43.3	Pervasive Intense Silicification	Patchy Weak Silicification
		43.3 - 48.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
48.4 - 49.0	HU			Hydrothermally unrecognizable. Local dacite present. Hematite banding and staining 0.15% with disseminated limonite 0.25%. Strong patchy clay alteration, with weak patchy silicification.
		48.4 - 49.0	Patchy Strong Clay	Patchy Weak Silicification
49.0 - 51.8	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, moderate sericite alteration. Disseminated limonite 0.1% with hematite staining 0.1%
		49.0 - 51.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
51.8 - 52.9	HU			Hydrothermally unrecognizable. Local dacite present. Hematite banding and staining 0.25% with disseminated limonite 0.5%. Strong patchy clay alteration, with weak patchy silicification.
		51.8 - 52.9	Patchy Strong Clay	Patchy Weak Silicification
52.9 - 120.7	MxF	band	Fol-str	Mixed felsic gneiss. Strong silicification, with local moderate to strong patchy locally pervasive sericite, patchy weak clay alteration, and patchy/locally pervasive albite. Disseminated limonite 0.1% with hematite staining 0.1%. Local limonite 0.25% with hematite bands and staining 0.15% from 90.45 - 99.32m including small quartz veins. Fresh bronzy pyrite between 99.32 - 103.45m.
		52.9 - 86.1	Pervasive Strong Silicification	Patchy Moderate Sericitisation
		86.1 - 99.3	Pervasive Strong Silicification	Pervasive Strong Sericitisation Patchy Weak Clay
		99.3 - 103.5	Pervasive Strong Silicification	Patchy Weak Sericitisation
		103.5 - 120.7	Pervasive Moderate Silicification	Pervasive Strong Sericitisation Pervasive Moderate Albite
120.7 - 122.0	HU			Hydrothermally unrecognizable. Patchy clay alteration. Limonite 1% with hematite staining 0.25%. Silicified rounded to sub-rounded breccia clasts.
		120.7 - 122.0	Patchy Moderate Clay	Patchy Weak Silicification
122.0 - 135.3	MxF	band	Fol-str	Mixed felsic gneiss. Fracture controlled limonite 0.1% with hematite staining 0.1% and fresh bronzy pyrite. Local limonite 0.75% with hematite staining 0.5%. Strong silicification with local strong albite and sericite with patchy clay alteration.
		122.0 - 130.1	Pervasive Strong Silicification	Patchy Moderate Sericitisation Patchy Weak Chlorite
		130.1 - 135.3	Pervasive Strong Sericitisation	Pervasive Strong Albite Patchy Moderate Silicification

135.3 - 138.5	YC	bx	Silicified-clast breccia(Zone). Moderate patchy clay, moderate patchy silicification, with weak to moderate local albite alteration. Limonite 2.5% and hematite staining 1.5%. Pitted weathered sulphides. Possible local dacite within the unit.		
		135.3 - 138.5	Patchy Moderate Silicification	Patchy Moderate Albite	Patchy Moderate Clay
138.5 - 140.4	YO	bx	Silicified-other breccia. Strong-intense silicification alteration. Angular to rounded monolithic clasts. Weak disseminated limonite 0.1%.		
		138.5 - 140.4	Pervasive Intense Silicification		
140.4 - 165.1	FG	band	Fol-str	Felsic gneiss. Strong silicification, sericite, and albite alteration. Weak disseminated limonite 0.1% with local limonite 0.5% and hematite 0.25% over 30 cm intervals. Local quartz veins varying from mm - 3cm.	
		140.4 - 165.1	Pervasive Strong Silicification	Pervasive Strong Albite	Pervasive Strong Sericitisation
165.1 - 168.6	DIOR		Diorite dyke. Strong silicification alteration, with strong sericite alteration. Weak hematite staining 0.1%		
		165.1 - 168.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	
168.6 - 191.0	MxF	band	Fol-str	Mixed felsic gneiss. Strong silicification, strong albite, strong sericite alteration. Limonite 0.1% with hematite staining 0.0%. Local limonite 0.75% and hematite 0.5% over 30 - 70cm intervals.	
		168.6 - 191.0	Pervasive Strong Silicification	Patchy Strong Sericitisation	Pervasive Strong Albite

Drill Log: CFD0207

Easting	584189.96	Hole Length	221 m	Prospect	Supremo T3	Drill Started	May 12, 2012	Comment
Northing	6973951.38	Azimuth	272 °	Target	T3	Drill Completed	May 15, 2012	
Projection	UTM7-NAD83	Dip	-50.5 °	Geologist	HGrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1186.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.8	OVb			
8.8 - 39.0	MxF	augn	Fol-str	Mafic-dominant mixed gneiss; weak patchy silc, epidote, chlorite altn; moderate patchy clay altn; strong patchy silc and clay alteration from 33-39m
		8.8 - 33.3	Patchy Weak Chlorite	Patchy Weak Epidote Patchy Weak Silicification
		33.3 - 39.0	Patchy Strong Silicification	Patchy Strong Clay Patchy Moderate Chlorite
39.0 - 44.8	FG			Felsic-dominant gneiss; patchy strong silc and clay altn; patchy 1.5-2% oxides (limonite, hematite); weak fracture control Fe-carbonate (anchorite); from 39.6-39.8m: disintegrated breccia (silicified clasts with limonite-clay matrix); cross cutting quartz vein (average 1-2cm wide) parallel-to-core from 43-44m
		39.0 - 44.8	Fracture Controlled Weak Fe-carb	Patchy Strong Clay Patchy Strong Silicification
44.8 - 50.4	FG			Felsic-dominant gneiss; mod-strong pervasive silc altn; patchy 0.5-0.75% patchy oxides (limonite, hematite)
		44.8 - 50.4	Pervasive Moderate Silicification	
50.4 - 51.4	DIOR	phyr		Diorite dyke; porphyritic (dominant in silc, biotite, kspars composition)
		50.4 - 75.3	Patchy Moderate Silicification	Patchy Strong Sericitisation Patchy Moderate Albite
51.4 - 75.3	MxF			Felsic-dominated mixed gneiss with patchy MsS and BtS; patchy strong albite and sericite altn, patchy weak silc altn; patchy 0.75% oxides (lim, hem) from 59-67.5m
75.3 - 76.1	Yx	bx		Immature breccia; silica altered clasts with clay and silica altered matrix; disseminated limonite (0.25%)
76.1 - 95.9	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; patchy weak silica alteration, strong patchy clay (76.13-78.6m); Silc alteration strengthens from 93.77-98.57
		76.1 - 78.6	Patchy Strong Clay	
		78.6 - 93.8	Patchy Weak Silicification	
		93.8 - 95.9	Pervasive Strong Silicification	
95.9 - 98.0	IV	phyr		Andesite dyke; coarse-grained and porphyritic throughout; composition dominant in biotite and silica; intense silica altn, pervasive and selective replacement of feldspar phenocrysts; upper and lower contacts (~10-15cm) exhibit strong seric altn of feldspar phenocrysts and very weak silica altn; lower contact is weakly clay altered with 0.25% limonite
		95.9 - 96.1	Selective Repl Strong Sericitisation	Weak Silicification
		96.1 - 97.9	Pervasive Strong Silicification	
		97.9 - 98.0	Patchy Moderate Sericitisation	Patchy Weak Clay Patchy Weak Silicification
98.0 - 104.6	MxF	augn	Fol-str	MsS-rich mixed gneiss; strong patchy seric and albite alteration; moderate patchy silc altn; 0.5% patchy oxides (hem, lim); weak patchy clay altn
		98.0 - 104.6	Patchy Moderate Silicification	Patchy Strong Albite Patchy Strong Sericitisation
104.6 - 109.3	IV	phyr		Diorite dyke; fine grained and aphanitic on margins (104.6-104.9m, 109.05-109.3M), med-grained and porphyritic in body, and moderate pervasive silc in body; upper margin resembles dacite; strong pervasive sericite and clay altn (106.58-107.36m); patchy 0.3% limonite
		104.6 - 106.6	Weak Clay	
		106.6 - 107.4	Pervasive Strong Clay	Selective Repl Strong Sericitisation
		107.4 - 109.3	Patchy Weak Silicification	
109.3 - 110.0	MxF	augn		Mixed gneiss; strongly silicified
		109.3 - 110.0	Pervasive Strong Silicification	

110.0 - 110.5	IV		Andesite dyke; pervasively silica altered		
		110.0 - 154.0	Patchy Strong Albite	Patchy Strong Sericitisation	Patchy Strong Silicification
110.5 - 154.0	MxF		MsS-rich mixed gneiss; strong patchy seric, albite, silica alteration (-140m), intense patchy seric, albite, silic (140-154m). Very patch 0.25-0.5% oxides (lim, hem); 0.1% Fe-carb veinlets (anchorite)		
154.0 - 154.7	YO	bx	In-situ breccia, not showing a lot of movement; intensely sericitized, albitized and silicified gneissic clasts		
		154.0 - 154.7	Selective Repl Intense Sericitisation	Selective Repl Intense Albite	Pervasive Strong Silicification
154.7 - 165.1	MsS		Feldspar-muscovite schist; intense pervasive albite and sericite; intense patchy/pervasive silic altn; patchy 0.25% limonite		
		154.7 - 161.1	Pervasive Intense Albite	Pervasive Intense Sericitisation	Patchy Intense Silicification
165.1 - 165.7	DIOR		Diorite; porphyritic; selective replacement of feldspar phenocrysts by sericite; patchy 0.5% oxides (lim, hem)		
165.7 - 175.2	MxF		Felsic-dominated mixed gneiss from 165.1-172m, BtS-dominant from 172-175.23; strong patchy silic, albite, seric altn; weak patchy clay altn; patchy 0.5-1% limonite, 0.15% hematite in felsic region; cross-cutting and astomosing limonite and hematite veinlets (0.1%)		
175.2 - 188.8	MxF	augn	Mixed gneiss; Alternating oxide and sulphide zones, both high in arsenic; strong to intense silica alteration throughout; 175.23-180.8: transition zone, 0.5-1.5% oxides (lim, hematite) and 0.25-2% sulphide (pyrite); From 176.2-176.5m: Cr-rich green mineral, fuchsite (or could be mariposite), replacing mafic rock; clay and sericite-altered porphyroclasts from 176.23-177m; From 180.8-182.25m: oxide zone, 2-2.5% disseminated limonite, 0.5-1% disseminated hematite and over 8000ppm As, moderate disseminated clay altn; From 182.5-184.3m: weak oxide zone, disseminated limonite (0.5%); From 184.3-182.28m: weak sulfide zone, disseminated pyrite (0.25%); From 182.28-199.77m: oxide zone, 2.5% disseminated limonite, 0.5% disseminated hematite and 0-0.25% disseminated pyrite		
		176.2 - 177.0	Replaces Clasts Weak Clay	Replaces Clasts Weak Sericitisation	Replaces Mafics Strong Fuchsite
		177.0 - 181.0	Pervasive Intense Silicification		
		181.0 - 182.4	Pervasive Moderate Clay		
		182.4 - 188.8	Pervasive Intense Silicification	Patchy Weak Albite	Patchy Weak Sericitisation
188.8 - 197.8	YC	bx	Silicified-clast breccia with minor local felsic gneiss; Limonite-clay matrix from 188.77-190.3m (0.75-1% limonite); From 190.3-196.1m: clay matrix is no longer limonitic but very bleached with 0.1-0.25% disseminated sulphides and patchy intense silic altn; From 196.15-197.8: local crackle breccia and 1-1.5% disseminated sooty sulphides with limonite-clay matrix (0.5-1% limonite)		
		188.8 - 197.8	Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification	
197.8 - 198.9	IV		Andesite dyke; fine grained with silicified phenocrysts and intense pervasive silic alteration; 1-1.5% cross-cutting silica veinlets		
		197.8 - 200.5	Pervasive Intense Silicification		
198.9 - 221.0	MxF		Mixed gneiss; intense pervasive silic alteration, 0-1% diss pyrite, 0-0.5% diss oxides (lim, hem)		
		200.5 - 200.7	Pervasive Intense Clay		
		200.7 - 219.2	Pervasive Intense Silicification		
		219.2 - 221.0	Pervasive Weak Clay	Selective Repl Weak Chlorite	

Drill Log: CFD0208

Easting	584166.99	Hole Length	230 m	Prospect	Supremo T3	Drill Started	May 14, 2012	Comment
Northing	6973848.12	Azimuth	272 °	Target	T3	Drill Completed	May 15, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1152.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.3	OVb			
9.3 - 33.6	MxM	band	Fol-str	Mixed mafic gneiss. Strong silicification, moderate sericite, with patchy albite alteration. Weak disseminated and/or fracture controlled limonite 0.1% with hematite staining 0.1%. Local limonite 0.75% with hematite 0.25%.
		9.3 - 33.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak Albite
33.6 - 37.0	DIOR	phyr		Porphyritic diorite dyke. Shearing at contact margins. Strong silicification alteration. Weak fracture controlled limonite 0.1%.
		33.6 - 37.0	Pervasive Strong Silicification	
37.0 - 55.2	AmBtS	lamn	Fol-str	Amphibole biotite schist. Moderate silicification, strong local patchy epidote, with weak patchy sericite alteration. Fracture controlled limonite 0.1% with hematite staining 0.1%. Local limonite 1% with hematite 0.75% over 1m intervals, small 1cm silicified breccia veins. Local small mm quartz veins. Annealed joints, evidence of movement direction. Pitted weathered sulphides.
		37.0 - 55.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Moderate Epidote
55.2 - 64.5	MxF	band	Fol-str	Mixed felsic gneiss. Pitted weathered sulphides. Strong albite, moderate patchy sericite, and strong silicification alteration. Limonite 0.1% with hematite staining 0.1%. 2cm local quartz veins
		55.2 - 64.5	Pervasive Strong Silicification	Patchy Strong Albite Patchy Moderate Sericitisation
64.5 - 77.1	FG	band	Fol-str	Felsic gneiss. Strong silification, moderate patchy sericite alteration. Weak disseminated limonite 0.1% with hematite staining 0.1%. Mafic bands varying from 5cm - 30cm.
		64.5 - 77.1	Pervasive Strong Silicification	Patchy Moderate Sericitisation
77.1 - 80.4	AmBtS	lamn	Fol-str	Amphibole biotite schist. Moderate silicification, moderate chlorite, patchy epidote and weak patchy sericite and moderate patchy clay alteration. Weak fracture controlled limonite 0.1%. Soapy talc schist, crenulations, fingernail soft, small interval 23cm. Local 2mm quartz veins.
		77.1 - 80.4	Pervasive Moderate Silicification	Patchy Weak Sericitisation Pervasive Moderate Chlorite
80.4 - 86.4	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, weak patchy albite, and sericite alteration. Weak fracture controlled limonite 0.1% with hematite staining 0.1%.
		80.4 - 86.4	Pervasive Strong Silicification	Patchy Weak Sericitisation Patchy Weak Albite
86.4 - 88.3	IV	fgrn		Andesite dyke. Strong-Intense clay, with weak patchy silicification alteration. Disseminated limonite 0.15%, with hematite staining 0.1%.
		86.4 - 88.3	Patchy Weak Silicification	Pervasive Strong Clay
88.3 - 89.8	HU			Hydrothermally unrecognizable protolith. Strong clay alteration. Strong limonite 1.5% with hematite staining 1%.
		88.3 - 89.8	Patchy Strong Clay	
89.8 - 96.1	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, moderate patchy albite, weak patchy sericite alteration. Limonite 0.15% with hematite staining 0.15%.
		89.8 - 96.1	Pervasive Strong Silicification	Patchy Moderate Albite Patchy Weak Sericitisation
96.1 - 97.2	IV	fgrn		Andesite dyke. Moderate clay and chlorite with weak silicification alteration. Weak disseminated limonite 0.1%.
		96.1 - 97.2	Pervasive Moderate Clay	Pervasive Weak Silicification Pervasive Moderate Chlorite
97.2 - 123.6	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, moderate pervasive&patchy sericite, albite, and weak clay alteration. Weak disseminated limonite 0.15% with hematite staining 0.15%. Local quartz veins varying from 0.5cm - 3cm. Large 52cm quartz vein starting at 121.76m.
		97.2 - 123.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay

123.6 - 162.1	FS	lamn	Fol-mod	Feldspar schist. Moderate foliation with: strong to intense silicification, strong albite, with moderate patchy sericite and weak clay alteration. Local weathered sulphides. Patchy sooty and bronzy pyrite 0.1%, hematite staining 0.25%, and disseminated limonite 0.50%. Local quartz veins, varying from 1 mm - 50cm including small local open space quartz veins. Local brecciated limonite veins branching into stockwork veins.		
		123.6 - 162.1	Pervasive Intense Silicification	Pervasive Moderate Albite	Patchy Weak Sericitisation	
162.1 - 169.8	AmBtS	lamn	Fol-mod	Amphibole biotite schist. Strong silicification, weak patchy sericite, weak albite, with moderate chlorite alteration. Disseminated limonite 0.1%		
		162.1 - 169.8	Pervasive Strong Silicification	Patchy Weak Albite	Patchy Weak Sericitisation	
169.8 - 176.4	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification alteration, moderate patchy sericite and albite alteration. Disseminated limonite 0.25% and hematite 0.1%. Pitted weathered sulphides.		
		169.8 - 176.4	Pervasive Strong Silicification	Patchy Moderate Albite	Patchy Moderate Sericitisation	
176.4 - 180.2	YC	bx		Silicified-clast breccia, including hydrothermally unrecognizable protoliths. Disseminated limonite 5% and hematite 3%. Moderate patchy silicification, strong-intense clay alteration.		
		176.4 - 180.2	Patchy Strong Clay	Patchy Moderate Silicification		
180.2 - 230.0	MxF	band	Fol-mod	Mixed felsic gneiss. Disseminated limonite 2% and hematite 1%. Limonite and hematite concentration decreases at depth 0.1%. Strong silicification, moderate albite & sericite, with patchy clay alteration. Local augen texture. Sooty sulphide vein from 218 - 218.43m.		
		180.2 - 230.0	Pervasive Strong Silicification	Patchy Moderate Sericitisation	Patchy Moderate Albite	

Drill Log: CFD0209

Easting	585028.09	Hole Length	308 m	Prospect	Double Double	Drill Started	May 15, 2012	Comment
Northing	6973276.57	Azimuth	180 °	Target		Drill Completed	May 17, 2012	
Projection	UTM7-NAD83	Dip	-61 °	Geologist	EScheel	Core Size	NQ	
Survey method	RTK GPS	Elevation	1098.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			
9.0 - 15.0	MxM	band	Fol-mod	Dominantly plag-porphyroblastic amphibole schist with some augen gneiss
9.0 - 15.0			Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Patchy Weak Clay
15.0 - 16.4	FG	augn	Fol-wk	Weak zone, increased alt+lim
15.0 - 16.4			Patchy Weak Silicification	Patchy Weak Clay
16.4 - 34.0	MxM	pblst	Fol-mod	Dominantly mafic schist/gneiss with some felsic gneiss intervals, cross cut by bull qtz veins sub-parallel to foliation. Small vein breccia at 21.45-21.7.
16.4 - 34.0			Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification
34.0 - 38.2	AmBtS	pblst	Fol-mod	Mafic schist cut by numerous bull qtz veins at variable orientations which are spatially associated ith patchy limonite
34.0 - 38.2			Replaces Felsics Weak Silicification	Pervasive Weak Sericitisation
38.2 - 52.4	MG	band	Fol-mod	Dominantly mafic gneiss with rare felsic gneiss and mafic schist, small IV near end of unit
38.2 - 52.4			Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Patchy Weak Sericitisation
52.4 - 58.0	MxM	band	Fol-wk	Zone. Moderate to strongly mineralized mafic schist with some gneiss. Small patch of HU at 53.3. Diss brassy/sooty py in last 1m
52.4 - 58.0			Pervasive Moderate Silicification	Patchy Moderate Clay
58.0 - 59.0	AmBtS	band	Fol-str	Weakly mineralized, QSP altered mafic schist
58.0 - 59.0			Patchy Moderate Sericitisation	Patchy Moderate Silicification
59.0 - 61.3	IV	phyr		Weakly mineralized plag-amph porphyritic andesite dike with inclusions of mafic schist
59.0 - 61.3			Pervasive Weak Silicification	Pervasive Weak Sericitisation
61.3 - 64.7	AmBtS	band	Fol-mod	Transitionally oxidized mafic schist, weakly mineralized
61.3 - 64.7			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
64.7 - 67.9	MxM	band	Fol-mod	Very weakly mineralized mafic schist and felsic augen gneiss, small patches of YC at 66m and 67.8m
64.7 - 67.9			Patchy Weak Silicification	Patchy Weak Clay
67.9 - 74.3	MxM	band	Fol-mod	Mineralized mixed gneiss with patches of YC at 69.5, 71.5m
67.9 - 74.3			Patchy Weak Albite	Pervasive Moderate Silicification
74.3 - 75.6	AmBtS	band	Fol-str	Altered and crenulated mafic schist with 2% disseminated sooty pyrite
74.3 - 75.6			Pervasive Strong Silicification	Pervasive Strong Sericitisation
75.6 - 80.2	AmBtS	band	Fol-mod	Mineralized mafic schist
75.6 - 80.2			Pervasive Weak Silicification	Pervasive Weak Clay
80.2 - 82.3	YC	bx		Patches of silicified clast breccia with clay matrix flanked by mixed gneiss. Weakly mineralized
80.2 - 82.3			Patchy Strong Clay	Pervasive Moderate Silicification
82.3 - 87.1	FC	phyr		Possibly dacite dike, similar to that seen in holes 90 and 27, mottled appearance where "phenocrysts" are converted to a clay/limonite
82.3 - 87.1			Pervasive Intense Silicification	Replaces Felsics Moderate Clay

87.1 - 90.0	AmBtS	band	Fol-mod	Tail end of zone, starts off as almost completely unidentifiable, grades into fresher mafic schist towards end		
		87.1 - 90.0		Pervasive Strong Silicification	Patchy Weak Clay	
90.0 - 94.4	AmBtS	band	Fol-mod	Barren mafic schist with patchy clay-lim, lim in fracs		
		90.0 - 94.4		Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote	Patchy Weak Clay
94.4 - 99.3	AmBtS	band	Fol-mod	Mineralized mafic schist, small patch of HU from 97-97.3 (clay+lim). Unit ends in 15cm of qtz-vein breccia		
		94.4 - 99.3		Patchy Moderate Clay	Pervasive Weak Silicification	
99.3 - 117.7	AmBtS	band	Fol-mod	Mafic schist with uncommon patches of clay+limonite, uncommon sooty pyrite veins (106.9-107) and limonite-clay patches		
		99.3 - 117.7		Replaces Mafics Moderate Chlorite	Patchy Weak Clay	Patchy Weak Sericitisation
117.7 - 119.9	MxF	band	Fol-mod	Felsic gneiss with interbanded mafic schist		
		117.7 - 119.9		Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	
119.9 - 145.4	AmBtS	band	Fol-mod	Mafic schist, similar to second previous unit, uncommon patches of limonite+clay		
		119.9 - 145.4		Replaces Mafics Moderate Chlorite	Patchy Weak Clay	Patchy Weak Sericitisation
145.4 - 165.0	MxM	band		Busted up mafic schist with fg interbands, moderate patchy clay with limonite, lots of oxidized veins		
		145.4 - 165.0		Patchy Moderate Clay	Patchy Weak Silicification	
165.0 - 171.1	YC	bx		Silicified clast breccia and locally brecciated mixed mafic gneiss, weak zone		
		165.0 - 171.1		Patchy Strong Clay	Patchy Moderate Silicification	
171.1 - 175.0	MxM	band		Fractured and clay altered MxM, common frac lim.		
		171.1 - 175.0		Pervasive Moderate Clay		
175.0 - 188.2	MxM	band	Fol-mod	Lots of hematite on frac surfaces, swaths of strong clay alt between less altered material		
		175.0 - 188.2		Patchy Strong Clay	Pervasive Moderate Silicification	
188.2 - 189.4	MxM			Completely destroyed gneiss, all pervasively clay altered and broken		
		188.2 - 189.4		Pervasive Intense Clay		
189.4 - 204.9	FG	augn		Augen gneiss, locally strongly clay altered with limonite, generally fractured. Patches of pyrite/chlorite veinlets		
		189.4 - 204.9		Pervasive Weak Silicification	Patchy Moderate Clay	
204.9 - 208.6	MxM	bx		Extremely broken and clay altered gneiss, patches of silicified clast and "breccia other"		
		204.9 - 208.6		Pervasive Intense Clay	Patchy Weak Silicification	
208.6 - 209.9	AmBtS	bx		Mixed former mafic schist ith bull quartz vein, frac lim		
		208.6 - 209.9		Patchy Moderate Clay	Patchy Moderate Silicification	
209.9 - 223.2	MxM	band	Fol-mod	mafic schist with felsic gneiss increasing down hole, mostly fresh		
		209.9 - 223.2		Patchy Weak Silicification	Replaces Mafics Weak Chlorite	
223.2 - 226.0	MxM	bx		Extremely broken mafic dominant gneiss, patchy clay with some limonite in the first metre. Becomes more competant don hole		
		223.2 - 225.0		Patchy Weak Silicification	Pervasive Moderate Clay	
		225.0 - 227.4		Pervasive Strong Silicification	Pervasive Weak Clay	
226.0 - 227.4	HU	mass		Strongly altered, probably a former amphibole schist (alteration tapers off towards end of unit)		
227.4 - 236.0	MG	band		Weakly altered and mineralized mafic gneiss. Unit ends in 50cm of bull quartz vein		
		227.4 - 236.0		Pervasive Weak Silicification	Patchy Weak Sericitisation	Patchy Weak Albite
236.0 - 242.3	AmBtS	band		Altered and weakly mineralized amphibole schist, transitionally oxidized, uncommon disseminated sooty pyrite		
		236.0 - 242.3		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
242.3 - 248.5	MBSLT	cgrn	Fol-wk	Very weakly foliated gabbro/metabasalt - rock appears to be a cumulate. Becomes more foliated towards ends of unit		
		242.3 - 248.5		Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite	
248.5 - 250.2	DIOR	fgrn		Small diorite dike, fine grained, seems intimately associated with the overlying metagabbro (contains small rafts)		
		248.5 - 250.2		Replaces Mafics Moderate Chlorite		
250.2 - 254.0	AmBtS	band	Fol-mod	Fairly fresh mafic schist, uncommon fs porphyroblasts		
		250.2 - 254.0		Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote	

254.0 - 258.0	FG	augn	Fol-mod	Felsic gneiss with common augens, is fractured by carb-ser veins		
		254.0 - 267.0		Pervasive Weak Silicification	Vein Selvege Weak	
258.0 - 267.0	MxM	band	Fol-mod	Fractured mafic dominant gneiss		
267.0 - 273.2	AmBtS	band	Fol-mod	Fresh amphibole schist		
		267.0 - 273.2		Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote	
273.2 - 308.0	MxF	band		Fractured gneiss, small augens, rare bands of mafic schist		
		273.2 - 308.0		Pervasive Weak Silicification	Patchy Weak Sericitisation	Patchy Weak Clay

Drill Log: CFD0210

Easting	584050.68	Hole Length	122 m	Prospect	Supremo T3	Drill Started	May 15, 2012	Comment
Northing	6973751.01	Azimuth	270 °	Target	T3	Drill Completed	May 17, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	HGrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1120.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.2	OVb			
10.2 - 31.1	BtS		Fol-str	Biotite schist; strong chlorite alteration of biotite; moderate sericite alteration of kspars augens; strong patchy clay altn; disseminated 0.25-0.5% limonite from 28.9-29.7m
		10.2 - 31.1	Patchy Strong Clay	Selective Repl Strong Chlorite Replaces Clasts Moderate Sericitisation
31.1 - 32.5	HU			Intensely hydrothermally altered, unrecognizable; intense patchy clay alteration; very weak and variable visible foliation and kspars phenocrysts; 1.5-3% disseminated limonite, 0-1% disseminated hematite; calcite in matrix; cross-cutting limonite and silica veinlets 0.15%)
		31.1 - 35.0	Patchy Intense Clay	Patchy Weak Silicification
32.5 - 34.3	FC			Dacite dyke; extremely oxidized, 1.5-2.5% disseminated limonite, 0.5-1% disseminated
34.3 - 35.0	HU			Intensely hydrothermally altered, unrecognizable; intense patchy clay alteration; very weak and variable visible foliation and kspars phenocrysts; 1.5-3% disseminated limonite, 0-1% disseminated hematite; calcite in matrix
35.0 - 35.3	Ylim	bx		Limonite clay matrix breccia with HU clasts; 3% disseminated limonite, 0.5% diss hematite
		35.0 - 35.3	Pervasive Intense Clay	
35.3 - 37.5	HU			Hydrothermally altered, unrecognizable; moderate pervasive clay alteration; weak and variable visible foliation; 1.5-2% disseminated limonite, 0-1% disseminated hematite; disseminated calcite
		35.3 - 36.6	Pervasive Moderate Clay	
		36.6 - 36.7	Patchy Strong Clay	
		36.7 - 37.5	Pervasive Moderate Clay	
		37.5 - 40.0	Patchy Intense Clay	
37.5 - 40.0	Ylim	bx		Limonite-clay matrix breccia; weakly silicified clasts, intensely clay altered, 1-2.5% diss limonite, 0-0.5% diss hem
40.0 - 42.6	HU			Hydrothermally altered, unrecognizable; patchy strong silc atln, patchy/pervasive intense clay; 1-2.5% diss limonite, 0.5-1.5% diss hematite
		40.0 - 42.6	Pervasive Weak Silicification	Patchy Intense Clay
42.6 - 78.5	MxF			Felsic-dominant mixed gneiss; 0-0.5% disseminated limonite, 0-0.15% disseminated hematite; patchy moderate albite and sericite altn; patchy local quartz ribbons; mod pervasive silc altn
		42.6 - 55.0	Patchy Weak Silicification	Patchy Weak Albite Patchy Weak Sericitisation
		55.0 - 78.5	Pervasive Moderate Silicification	
78.5 - 108.3	BtS	biot	Fol-str	Biotite schist; strong patchy epidote altn; weak patchy silc altn and weak chlorite and sericite altn (selective replacement of biotite and kspars respectively); From 83.85-84.2m: vuggy, moderate pervasive clay alteration, 2% oxides (hem, lim);
		78.5 - 82.1	Patchy Weak Silicification	Selective Repl Weak Chlorite
		82.1 - 82.9	Pervasive Intense Clay	
		82.9 - 83.9	Pervasive Moderate Silicification	
		83.9 - 84.2	Pervasive Moderate Clay	
		84.2 - 89.0	Patchy Strong Epidote	Selective Repl Weak Chlorite Patchy Weak Silicification
		89.0 - 108.3	Pervasive Moderate Silicification	Patchy Weak Epidote Selective Repl Weak Chlorite

108.3 - 112.5	SZ	biot	Shear zone; extremely deformed biotite schist with crenulation cleavage and quartz ribbons, intense sericite and chlorite alteration of biotite; moderate pervasive clay and patchy epidote altn; patchy 0.25% limonite at beginning of interval (108.32-110m)		
		108.3 - 112.5	Selective Repl Intense Sericitisation	Selective Repl Strong Chlorite	Pervasive Moderate Clay
112.5 - 122.0	MxF	biot	BtS-rich mixed gneiss; 0.5% disseminated brassy pyrite (probably metamorphic origins); weak patchy silc, seric, albite altn; 0-0.5% disseminated limonite		
		112.5 - 121.0	Patchy Weak Silicification	Patchy Weak Sericitisation	Patchy Weak Albite

Drill Log: CFD0211

Easting	584080.62	Hole Length	151.4 m	Prospect	Supremo T3	Drill Started	May 17, 2012	Comment
Northing	6973752.29	Azimuth	271 °	Target	T3	Drill Completed	May 19, 2012	
Projection	UTM7-NAD83	Dip	-49 °	Geologist	HGrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1121.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.0	OVb			
10.0 - 11.4	MxF	augn	Fol-mod	Mixed gneiss, moderate patchy silic altn; BtS portions with intense pervasive clay and chlorite altn; felsic portions with weak fracture control clay
		10.0 - 10.6	Pervasive Strong Clay	Pervasive Strong Chlorite
		10.6 - 11.4	Fracture Controlled Moderate Clay	Moderate Silicification
11.4 - 11.9	HU			Hydrothermally altered, unrecognizable; intense pervasive clay alteration, 1% disseminated oxides (hem, lim)
		11.4 - 11.9	Pervasive Intense Clay	
11.9 - 14.0	DIOR	phyr		Diorite dyke; strong altn of clay (pervasive), seric (selective replacement of kspar phenocrysts), chlorite (selective replacement of chlorite); variable 0.5-1.5% disseminated oxides (lim, hem) from 13-14m
		11.9 - 14.0	Pervasive Strong Clay	Selective Repl Strong Sericitisation Strong Chlorite
14.0 - 14.6	HU			Hydrothermally altered, unrecognizable; intense (pervasive) clay and (patchy) sericite alteration; very broken up; some chips resemble dacite (14-14.3m) and others resemble extremely altered schist- possibly a contact between the two units; patchy intense sericite altn; 1-3% oxides (lim, hem)
		14.0 - 14.6	Pervasive Intense Clay	Patchy Intense Sericitisation
14.6 - 30.9	MxM			Mafic-dominant gneiss, rich in BtS; Intense pervasive/patchy clay alteration; strong sericite and chlorite altn in BtS regions and weak patchy silc altn in areas with more felsic minerals
		14.6 - 30.9	Patchy Intense Clay	Selective Repl Strong Chlorite Selective Repl Strong Sericitisation
30.9 - 69.2	FG	augn	Fol-str	Felsic-dominant gneiss; variable oxides ranging from 0.25-1.5% diss limonite and 0-0.75% diss hematite; intense patchy/pervasive clay and silc altn and strong patchy/selective replacement of albite and sericite
		30.9 - 44.0	Patchy Strong Clay	Patchy Moderate Silicification Selective Repl Strong Albite
		44.0 - 45.0	Pervasive Moderate Silicification	
		45.0 - 45.9	Selective Repl Strong Albite	Moderate Sericitisation
		45.9 - 49.9	Moderate Silicification	
		49.9 - 56.0	Pervasive Intense Sericitisation	Patchy Strong Silicification
		56.0 - 56.9	Selective Repl Moderate Albite	Weak Albite
		56.9 - 61.2	Pervasive Intense Sericitisation	Strong Silicification
		61.2 - 61.8	Pervasive Moderate Clay	
		61.8 - 69.2	Patchy Intense Sericitisation	Patchy Strong Silicification Patchy Weak Clay
69.2 - 71.0	Ylim	bx		Limonite-matrix breccia; silica clasts with limonite clay matrix; 1.5% limonite (disseminated within the matrix)
		69.2 - 71.0	Replaces Matrix Intense Clay	Replaces Clasts Intense Silicification
71.0 - 85.2	FG	augn		Felsic (augen) gneiss; intense pervasive silica altn (71-81.5m), intense pervasive albite/seric and moderate patchy silic alteration from 81.5-85.15m; limonite clay replacing augens (84.25-85.15m); 0.15-0.5% disseminated oxides (lim and minor hem); brecciated buck quartz vein from 73.5-74.5m, parallel to core;
		71.0 - 81.5	Pervasive Intense Silicification	
		81.5 - 85.2	Pervasive Intense Albite	Pervasive Intense Sericitisation Selective Repl Strong Clay

85.2 - 106.2	MxM	augn	Mafic-dominant mixed gneiss, rich in BtS; moderate pervasive chlorite alteration; Limonite-clay alteration of augens (85.15-88.5m); 0.1% fracture control limonite		
		85.2 - 106.2	Pervasive Moderate Chlorite	Patchy Moderate Silicification	
106.2 - 108.1	SZ	biot	Shear zone; extremely deformed and crenulated; pervasive chlorite and sericite alteration; rich in biotite		
		106.2 - 108.1	Pervasive Strong Chlorite	Strong Sericitisation	
108.1 - 141.2	MxF	augn	Felsic-dominant mixed gneiss; local albite/seric alteration (strong, pervasive), clay altn (mod, patchy), silica alteration (mod, pervasive); variable disseminated oxides: 0.1-1.5% (lim, hem)		
		108.1 - 113.0	Patchy Weak Silicification	Pervasive Weak Clay	
		113.0 - 114.1	Pervasive Moderate Albite	Pervasive Weak Clay	Selective Repl Weak Sericitisation
		114.1 - 121.4	Pervasive Weak Silicification	Pervasive Weak Clay	Patchy Weak Albite
		121.4 - 126.5	Patchy Strong Albite	Patchy Strong Sericitisation	Patchy Weak Silicification
		126.5 - 127.0	Pervasive Intense Clay		
		127.0 - 141.0	Patchy Weak Silicification	Patchy Weak Albite	Patchy Weak Clay
		141.0 - 151.4	Pervasive Moderate Chlorite	Patchy Moderate Epidote	Patchy Weak Silicification
141.2 - 151.4	AmBtS	biot	Amphibole-biotite schist; moderate chlorite (pervasive) and epidote (patchy) altn; 1-1.5% disseminated brassy pyrite		

Drill Log: CFD0212

Easting	584023.01	Hole Length	107 m	Prospect	Supremo T3	Drill Started	May 17, 2012	Comment
Northing	6973649.37	Azimuth	273.5 °	Target	T3	Drill Completed	May 19, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1087.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 7.3	OVb			
7.3 - 17.4	MxF	augn	Fol-str	Mixed felsic gneiss. Moderate patchy silicification, moderate albite, moderate sericite with weak patchy/selective replacement clay alteration. Disseminated limonite 0.20% with hematite staining 0.15%. Local 2cm quartz veins.
		7.3 - 17.4	Patchy Moderate Silicification	Patchy Moderate Albite Patchy Moderate Sericitisation
17.4 - 22.9	HU			Hydrothermally unaltered unrecognizable protolith. Strong-intense patchy clay, weak patchy silicification & albite alteration. Disseminated limonite 4% with hematite staining 3%. YC silicified monolithic clasts are found in small 5cm intervals.
		17.4 - 22.9	Patchy Intense Clay	Patchy Weak Albite Patchy Weak Silicification
22.9 - 64.8	MxM	augn	Fol-str	Mixed mafic gneiss. Strong silicification, moderate patchy sericite, moderate albite, with weak patchy clay alteration. Local disseminated limonite 3%, and hematite staining 2% including stockwork hematite veins over a 4m interval. As depth increases limonite and hematite decrease to 0.15%. Alteration is consistent through out the unit. Local mafic bands.
		22.9 - 64.8	Pervasive Strong Silicification	Patchy Moderate Albite Patchy Moderate Sericitisation
64.8 - 84.7	AmBtS	lamm	Fol-str	Amphibole biotite schist. Moderate patchy silicification, moderate chlorite, weak patchy epidote & sericite alteration. Weak fracture controlled limonite 0.1% with hematite 0.1% staining. Small local calcite veins. Local limonite 0.5% over a 30cm interval.
		64.8 - 84.7	Patchy Moderate Silicification	Patchy Moderate Chlorite Patchy Weak Epidote
84.7 - 107.0	MxM	band	Fol-mod	Mixed mafic gneiss. Strong silicification, sericite, weak patchy epidote & albite alteration. Local calcite and quartz veins varying in 1- 3cm. Weak fracture controlled limonite 0.1% with hematite staining 0.1%
		84.7 - 107.0	Pervasive Strong Silicification	Patchy Strong Sericitisation Patchy Weak Epidote

Drill Log: CFD0213

Easting	584056.82	Hole Length	149 m	Prospect	Supremo T3	Drill Started	May 19, 2012	Comment
Northing	6973649.98	Azimuth	275 °	Target	T3	Drill Completed	May 20, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1088.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.0	OVb			
8.0 - 46.8	MxM	augn	Fol-mod	Mixed mafic gneiss, augen gneiss texture. Strong silicification pervasive, moderate patchy sericite & albite, with weak patchy clay alteration. Local massive quartz veins at 8.10 - 11.30m & 20.82-22.35m. Possible breccia at 20.44m patch of clay and silica clasts. 41.64 - 42m possible fault zone, loose sediments and brittle rock, little to no clay alteration. Majority of limonite is disseminated 0.1% with hematite staining 0.1% with local intervals of 0.25% limonite and 0.15% hematite.
		8.0 - 46.8	Pervasive Strong Silicification	Patchy Moderate Sericitisation Patchy Moderate Albite
46.8 - 58.3	BtS	lamn	Fol-str	Biotite schist. Large 18 cm quartz vein centered at 52m with weak 0.1% limonite. Weak patchy silicification with strong chlorite alteration. Local intervals of strong pervasive silicification with albite alteration. Weak disseminated limonite 0.1% and hematite 0.1%. Small local intervals of 0.25% limonite. Highly fractured with weak patchy clay alteration between 50.43 - 51.40 m.
		46.8 - 54.6	Patchy Moderate Silicification	Pervasive Strong Chlorite Patchy Weak Clay
		54.6 - 58.3	Pervasive Strong Silicification	Pervasive Moderate Albite
58.3 - 63.8	HU			Hydrothermally altered protolith, with intermingling silicified-clast breccia Zone. Strong clay, weak patchy silicification & albite alteration. Disseminated limonite 4% with hematite staining 2.5%.
		58.3 - 63.8	Patchy Weak Silicification	Patchy Weak Albite Patchy Strong Clay
63.8 - 65.0	IV	phyr		Porphyritic andesite. Moderate pervasive silicification. Local 1mm calcite vein. Weak fracture controlled limonite 0.1%, and fresh bronzy pyrite 0.1%.
		63.8 - 65.0	Pervasive Moderate Silicification	
65.0 - 83.8	BtS	lamn	Fol-str	Biotite schist. Strong patchy silicification, strong chlorite, moderate patchy sericite & albite alteration, with weak patchy clay alteration. Weak fracture controlled limonite 0.1% and weak hematite staining 0.1%.
		65.0 - 83.8	Patchy Strong Silicification	Pervasive Strong Chlorite Patchy Weak Clay
83.8 - 120.3	MxM	band	Fol-mod	Mixed mafic gneiss. Strong silicification, moderate sericite, with weak albite alteration. Local strong pervasive intervals of albite and sericite with weak clay alteration associated with local limonite 2.5% with 1% hematite. Limonite breccia vein with clay replacement alteration. Local bronzy/brassy pyrite associated with weak fracture controlled limonite 0.1% and hematite staining 0.1%.
		83.8 - 90.1	Pervasive Strong Silicification	Pervasive Strong Albite Pervasive Strong Sericitisation
		90.1 - 120.3	Pervasive Strong Silicification	Patchy Moderate Sericitisation Patchy Weak Albite
120.3 - 149.0	BtS	lamn	Fol-str	Biotite schist. Talc schist located at 121.74-122.05m. Massive quartz vein at 139.90 - 140.36m. Strong silicification & epidote alteration, with moderate sericite & chlorite alteration. Weak fracture controlled limonite 0.1% with bronzy/brassy pyrite 0.1%
		120.3 - 149.0	Patchy Strong Silicification	Patchy Strong Epidote Patchy Moderate Sericitisation

Drill Log: CFD0214

Easting	584107.23	Hole Length	227 m	Prospect	Supremo T3	Drill Started	May 19, 2012	Comment
Northing	6973749.64	Azimuth	272 °	Target	T3	Drill Completed	May 23, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	Hgrimson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1122.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.7	OVb			
9.7 - 26.5	MxM	augn	Fol-str	Mafic-dominant mixed gneiss rich in BtS; moderate pervasive clay, chlorite and epidote altn
		9.7 - 26.5	Pervasive Moderate Clay	Pervasive Moderate Epidote Pervasive Moderate Chlorite
26.5 - 50.1	MxF	augn	Fol-str	Felsic-dominant gneiss; weak-mod pervasive silc altn; patchy weak-mod albite/seric altn; 0-0.5% disseminated oxides (lim, hem)
		26.5 - 39.5	Pervasive Moderate Silicification	
		39.5 - 50.1	Patchy Weak Albite	Patchy Weak Sericitisation Patchy Weak Silicification
50.1 - 51.5	DIOR	phyr		Diorite dyke; porphyritic; strong pervasively clay and seric altered; patchy 0.25% limonite
		50.5 - 51.5	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
51.5 - 71.4	FG	augn	Fol-str	Felsic-dominant gneiss; pervasive silc altn (mod), pervasive albite/seric altn (weak), 0.25% disseminated oxides (lim, hem); 0.5-1% diss oxides fro, 57-64.5m)
		51.5 - 74.0	Pervasive Moderate Silicification	Pervasive Weak Albite Pervasive Weak Sericitisation
71.4 - 72.2	SZ	mylo	Crenul	Mineralized SZ, cherty qtz vein and SZ marking contact between felsic and mafic package.
72.2 - 91.4	BtS	pblst	Fol-str	Biotite dominated gneiss, local BtS-Fspar schist. Patchy moderate albite and strong chlorite altn. Two local zones of 1-2% disseminated limonite and hematite.
		74.0 - 83.1	Pervasive Weak Silicification	Selective Repl Moderate Albite Patchy epidote replacement of feldspars, usually planar with foliation. Locally blebby associated with disseminated hematite (82.16-82.21m)
		83.1 - 84.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Patchy Weak Sericitisation Minor clay altn ass. With mineralization
		84.8 - 91.1	Pervasive Weak Silicification	Selective Repl Weak Epidote Patchy Weak Chlorite
		91.1 - 92.0	Vein Selvege Moderate Calcite	Selective Repl Weak Chlorite Carbonate vein filled SZ lith, hard to tell if they are secondary v of foliation parallel replacement.
91.4 - 92.2	SZ	biot	Crenul	Tight spaced foliation that has been moderately crenulated, 3% carbonate veinlets, local weak epidote altn of biotite.
		92.0 - 92.2	Replaces Mafics Strong Chlorite	Patchy Weak Epidote Weak
		92.2 - 107.3	Patchy Strong Silicification	Patchy Moderate Clay
92.2 - 97.6	BtS	pblst	Fol-str	Biotite schist with minor chlorite altn. Local weak disseminated and FC limonite
97.6 - 107.3	FG	silc	Fol-str	Silicified felsic gneiss, moderate clay replacement of felsics. Patchy 0.5% disseminated limonite and hematite.
107.3 - 108.7	Ylim	matx		Limonitic clay matrix supported gneiss, moderately silic monomictic (FG) clasts.
		107.3 - 108.8	Pervasive Strong Clay	Patchy Moderate Silicification
108.7 - 110.5	HU	silc		Intensely silicified HU, possible FC with relict silicified phenocrysts or brecciated wall rock clasts. 1% disseminated limonite.
		108.8 - 113.0	Patchy Intense Silicification	Selective Repl Moderate Clay Patchy Moderate Sericitisation
110.5 - 110.9	RQM	qtz	Fol-str	Pined qtz bands (ribbons, following foliation but highly strained. Local crackle bx texture?
110.9 - 131.3	FG	silc	Fol-str	Strongly silicified, Patchy clay and albite altered FG. Local 1% disseminated limonite.
		113.0 - 131.3	Patchy Strong Silicification	Patchy Weak Clay Patchy Weak Sericitisation
131.3 - 138.7	FG	band	Fol-str	Felsic gneiss, moderate pervasive clay replacement of feldspars. 3% disseminated limonite 1% FC hematite throughout 90% of interval.
		131.3 - 138.7	Replaces Felsics Strong Clay	Patchy Moderate Sericitisation Patchy Strong Clay

138.7 - 200.5	MxF	band	Fol-str	Felsic gneiss, moderate silicified with local weak clay and albite alt. 0.25% fracture controlled limonite and patchy brassy pyrite.		
		138.7 - 180.4	Patchy Moderate Silicification	Patchy Weak Albite	Patchy Weak Clay	
		180.4 - 227.0	Patchy Strong Sericitisation	Selective Repl Moderate Albite	Patchy Weak Sericitisation	
200.5 - 200.8	YC	bxi	Polymictic sub angular clasts of intensely silicified FG and porcelanic qtz vein. Silica and limonite matrix.			
200.8 - 227.0	MxF	band	Fol-str	Silicified felsic gneiss, moderate local chlorite alt, minor fracture controlled limonite and blebby brassy pyrite.		

Drill Log: CFD0215

Easting	584977.01	Hole Length	245 m	Prospect	Double Double	Drill Started	May 20, 2012	Comment
Northing	6973275.83	Azimuth	180 °	Target		Drill Completed	May 24, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ	
Survey method	RTK GPS	Elevation	1094.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 34.4	MxM	augn	Fol-mod	Mixed gneiss, mafic dominant, with felsic components increasing downhole along with an increase in the abundance of feldspar augen. Alteration throughout consists of weak local sericite with local albitization of feldspars, particularly downhole, coincident
		6.0 - 9.1	Replaces Felsics Weak Silicification	Patchy Weak Sericitisation
		9.1 - 13.7	Replaces Felsics Weak Silicification	Patchy Weak Sericitisation Patchy Weak Clay
		13.7 - 15.3	Replaces Felsics Weak Silicification	Patchy Weak Sericitisation
		15.3 - 17.8	Pervasive Weak Clay	Pervasive Weak Silicification
		17.8 - 26.5	Replaces Felsics Weak Silicification	Pervasive Weak Sericitisation
		26.5 - 34.4	Pervasive Weak Silicification	Patchy Weak Clay Patchy Weak Albite
34.4 - 40.0	FC	fgrn		Dacite dyke. Aphanitic. Alteration consists of weak pervasive clay with possible sericite. The alteration has imparted a washed-out tan appearance to the core. 0.1% limonite throughout as disseminations with 0.25% strongly fracture-controlled hematite.
		34.4 - 40.0	Pervasive Weak Silicification	Pervasive Weak Clay Pervasive Weak Sericitisation
40.0 - 41.0	MsS	lamn	Fol-mod	Feldspar-muscovite schist, likely after BtS. Strong alteration by sericite has likely replaced all other phyllosilicates of the former BtS protolith. Zone is strongly broken (blocky) with generally poor recovery across the interval. Weak pervasive silicification throughout. 0.25% lim, 0.1% hm.
		40.0 - 51.0	Pervasive Weak Silicification	Pervasive Weak Clay
41.0 - 42.0	YO	bx		Brecciated feldspar-muscovite schist. Fragments are closely packed monolithic and angular, although exhibiting significant rotation (not a jigsaw breccia). Matrix is ankerite with chalcedonic quartz locally. No significant increase in sulphide associated with breccia (0.25% lim, 0.1% hm).
42.0 - 57.5	MsS	lamn	Fol-mod	Feldspar-muscovite schist after BtS. Local small-scale folds and crenulations (42 to 44.2m) coinciding with significant muscovite grain-size increase. Alteration consists of sericite/muscovite with local selective replacement of feldspar augen by clay (along with local fracture-controlled clay alteration). A 2cm chalcedonic quartz vein hosts angular breccia clasts of MsS wallrock at 44.3m. Overall 0.25% lim, 0.1% hm as both disseminations and fracture-controlled.
		51.0 - 53.3	Pervasive Moderate Sericitisation	Patchy Weak Silicification
		53.3 - 57.8	Pervasive Moderate Sericitisation	Patchy Weak Silicification Patchy Weak Clay
57.5 - 64.0	BtS	lamn	Fol-mod	Biotite schist with moderate sericite alteration. Selective weak partial replacement of feldspars by clay. 0.1% lim, 0.1% hm. Bottom 20cm of interval exhibits small-scale folding and crenulations, immediately above contact with silicified clast breccia (contact not preserved).
		57.8 - 64.0	Pervasive Moderate Sericitisation	Pervasive Weak Silicification
64.0 - 67.4	YC	bx		Zone. Silicified clast breccia. Heterolithic with silicified MsS clasts and fragments of silica (quartz vein?). Fragments are generally less than 1cm, and subangular. Moderately to closely packed with a silica and clay matrix throughout. Locally the breccia is friable in zones where clay is dominant over silica as the matrix. 1% hm, 1.5% lim, both dominantly occurring in the matrix. The lower contact is obscured by broken rock (fault?).
		64.0 - 67.0	Pervasive Strong Silicification	Pervasive Moderate Clay
		67.0 - 74.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation QSP alt
67.4 - 73.4	MsS	lamn	Fol-mod	Zone. Feldspar muscovite schist after biotite schist (with biotite locally preserved). Alteration consists of moderate sericite and silica alteration throughout with local weak fracture-controlled clay. Oxidation through this interval is overall moderate, but is strongly fracture controlled with some well-developed sharp oxidation fronts locally. Overall 1.5% hm with 0.5% lim. Sooty sulphides are observed from 70.95 to 71.4m (1% sooty sulphides with 0.25% py). Lower contact is alteration facies change into underlying BtS over ~60cm.

73.4 - 78.3	BtS	lamn	Fol-mod	Biotite schist. Possibly amphibole-bearing as a protolith, subsequently replaced by biotite. Chlorite-sericite alteration is moderate throughout and is selective, with chlorite partially replacing some biotite and sericite almost wholly replacing feldspar. Weak oxidation occurs locally with 0.1% limonite.		
		74.0 - 93.9	Patchy Weak Clay	Replaces Mafics Weak Chlorite	Patchy Weak Leucoxene	
78.3 - 79.4	HU			Zone. Strongly altered unrecognizable protolith with strong clay-silica alteration (clay likely after sericite). Locally faint breccia textures are preserved, but overprinted by oxidation/alteration. 4% limonite with 2% hm. Local rare (~2% of unit) oxidation windows with sooty sulphides (~0.25% sooties overall). Lower contact consists of 4cm wide clay seam at end of run.		
79.4 - 93.2	BtS	lamn	Fol-mod	Biotite schist. Moderate chlorite-sericite alteration throughout. Local ankerite veins (irregular, less than 0.5cm). 0.1% limonite, fracture controlled. Zone of increased lim-hm associated with clay and silica from 89.0 to 89.4cm (expected to carry grade). This narrow 40cm zone is also associated with increased carbonate (calcite + ankerite) veining. Broken/fault zone from 88.8 through 90.9m with very strongly broken rock and recovery problems. Local fracture-controlled clay.		
93.2 - 94.1	YC	bx		Zone. Silicified clast breccia hosted in biotite schist. Strong sericite-silica alteration with local clay (clay is matrix-dominant). Actual true breccia portion is 93.2 to 93.3m, rest is highly altered biotite schist. Breccia is comprised of heterolithic altered BtS-dominated subangular clasts, all silicified, and generally closely to moderately packed in a clay-ankerite matrix. Breccia zone appears to exhibit a dominant orientation at roughly 50TCA.		
		93.9 - 94.2	Pervasive Weak Clay	Pervasive Weak Silicification		
94.1 - 99.0	BtS	lamn	Fol-mod	Biotite schist. Very strong pervasive silicification from 96.5 to 97.9m, obscuring nearly all primary textures. Associated with this pervasive silicification occur fine to medium grained brassy pyrite disseminations. The rest of the unit is variably altered with chlorite-sericite. Oxidation is weak and dominantly fracture controlled with roughly 0.1% limonite overall.		
		94.2 - 96.3	Replaces Mafics Moderate Chlorite			
		96.3 - 101.0	Pervasive Strong Silicification	Patchy Weak Clay		
99.0 - 100.8	YC	bx		Weak zone. Poorly developed silicified clast breccia hosted in "feldspar-muscovite schist" after biotite schist. Breccia consists of generally <1cm fragments of silicified MsS, subangular and loosely packed with a clay-ankerite-silica mixed matrix. Oxidation is moderate throughout with 1% limonite and 0.5% hematite (dominantly fracture controlled).		
100.8 - 106.2	BtS	lamn	Fol-mod	Biotite schist. Weak chl-ser alteration throughout. Top 30cm is very strongly oxidized as footwall to overlying YC unit (with 1.5% lim and 0.5% hm over those 30cm). The rest of the unit hosts only weak fracture-controlled limonite (0.1%).		
		101.0 - 105.6	Replaces Mafics Moderate Chlorite	Patchy Weak Leucoxene		
		105.6 - 108.1	Pervasive Moderate Silicification	Patchy Weak Sericitisation		
106.2 - 107.0	YO	bx		Carbonate-matrix breccia with well-rounded MsS clasts hosted in MsS after BtS. Appearance is that of a breccia carbonate vein having significant movement of clasts resulting in degree of roundedness. Clasts are also very closely packed. Moderate oxidation throughout (1.5% limonite). Strong sericite alteration throughout unit.		
107.0 - 110.1	BtS	lamn	Fol-mod	Biotite schist. As above. Weak chl-ser alteration throughout. Local fracture-controlled clay alteration.		
		108.1 - 110.0	Pervasive Moderate Clay	Replaces Mafics Weak Chlorite		
		110.0 - 115.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation	Patchy Weak Albite	
110.1 - 112.8	MsS	lamn	Fol-mod	Moderate zone. Feldspar-muscovite schist after BtS. Strong sericite alteration with weak silicification and weak local clay. Locally obscured protolith from intense alteration. 1.5% limonite as disseminations throughout with 1% fracture-controlled hematite.		
112.8 - 114.0	YC	bx		Zone. Silicified clast breccia. Generally closely-packed and subangular to subrounded silicified BtS/MsS clasts with rare silica fragments. Packing becomes much looser downhole. Matrix consists of silica and locally clay, possibly with ankerite. Oxidation is not ubiquitous with sharp oxide/sulphide boundaries. From 112.8 to 113.4m, sooty sulphides are dominant (2% sooties over this interval), with tightly fracture-controlled hematite. From 113.4 to 114m, oxides are dominant with 1.5% hm and 1% limonite, both occurring dominantly in the breccia matrix but also more weakly in the clasts.		
114.0 - 115.1	MsS	lamn	Fol-mod	Moderate zone. Feldspar-muscovite schist after BtS. Strong sericite alteration with weak silicification and weak local clay. 1% limonite as disseminations throughout with 1% fracture-controlled hematite.		
115.1 - 121.5	BtS	lamn	Fol-mod	Biotite schist with strong chl-ser alteration throughout. Common opaque quartz veins up to 5cm wide, typically at moderate angles TCA (~45TCA). Lesser carbonate/ankerite veining (<0.5cm). Moderate zone from 118.5 to 118.9m with strong oxidation and 1.5% lim, 0.25% hm (0.25% limonite over whole interval). Lower part of unit (from 120.5 to 121.5) is strongly broken and strongly clay altered.		
		115.2 - 120.6	Replaces Mafics Moderate Chlorite			
		120.6 - 122.5	Pervasive Strong Clay			
121.5 - 122.1	HU			Zone. Unrecognizable protolith. Very strong clay alteration overprinting all else. Strong oxidation with 4% limonite. Strongly broken and friable.		
122.1 - 127.5	BtS	lamn	Fol-mod	Biotite schist with strong chl-ser alteration. Local zones of moderate oxidation with up to 0.5% limonite over 30cm (fracture-controlled).		
		122.5 - 127.4	Replaces Mafics Moderate Chlorite			
		127.4 - 129.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation	Patchy Weak Clay	

127.5 - 128.8	HU			Zone. Protolith partially obscured by alteration, but appears to be biotite schist. Local faint breccia textures, difficult to discern. Strong sil-ser alteration with local weak clay (fracture controlled). 2% lim, 0.75% hm as disseminations throughout.
128.8 - 130.4	BtS	lamn	Fol-mod	Biotite schist. Moderate to strong ser-chl alteration. Top of unit (128.8 to 130.6) is very strong clay alteration, friable, and broken with 0.25% lim.
		129.2 - 130.5	Pervasive Strong Clay	Selective Repl Moderate Sericitisation Weak
130.4 - 139.7	AmBtS		Fol-str	Moderate-strongly foliated mafic schist. Foliation varying in intensity. Pervasive chlorite- after biotite. Chlorite defining foliation. Patchy epidote + Calcite throughout. In more intensely foliated intervals- euhedral pyrite crystals (1-2mm) disseminated along foliation (up to 0.5% py).
		130.5 - 131.0	Patchy Moderate Clay	Replaces Mafics Moderate Chlorite Selective Repl Weak Sericitisation
		131.0 - 139.8	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote Patchy Moderate Calcite
139.7 - 140.3	AmBtS	silc	Fol-str	Zone. Strongly sheared. Silicified in part. Sooty py +clay along foliation planes and in hairline stringer veins (As 9810ppm at 140m).
		139.8 - 140.3	Patchy Weak Silicification	Selective Repl Moderate Sericitisation Shear with sooty py.
140.3 - 141.9	AmBtS		Fol-str	Medium grained- moderately foliated mafic schist. Chlorite defining foliation. Patchy epidote + calcite throughout. Trace pyrite (euhedral 1-2mm). Opaque quartz veining with irregular margins trending parallel to foliation.
		140.3 - 141.9	Replaces Mafics Moderate Chlorite	Patchy Weak Calcite
141.9 - 148.4	AmBtS			Broken ground. Limonite on fracture planes (0.5%). Dismembered opaque Qtz veins. Patchy epidote with calcite. Trace py. Plag x-stals altering to clay. Clay on fractures.
		141.9 - 149.3	Selective Repl Moderate Clay	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay Strongly hematitic/clay altered ? vein from 149.25-149.3m
148.4 - 151.3	AmBtS	silc		Broken ground. Variably altered. Silica dominated. Clay on fracture planes. Hematite disseminated in felsic intervals along fractures and on grain boundaries. Hairline calcite veins. From 149.25 to 149.3m- hematitic clay vein (~5% hem).
		149.3 - 154.4	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Vein Seldge Weak Chlorite
151.3 - 153.8	MxF	augn		Broken ground. Pervasive silicification. Felsic-dominated with feldspar augen. Chloritic foliation. Hair-line chlorite veins. Hematite on grain boundaries and on fractures. Limonite and clay on fracture planes (~0.25%). Weak epidote ? in hairline veins.
153.8 - 170.0	AmBtS	biot		Broken ground. Limonite + clay on fractures. Grain size variation- fg-mg. Fining down-hole. Strongly foliated (core axis parallel). Trace euhedral py (1-2mm). Weak pervasive epidote. Fracture opaque quartz veins with chlorite along selvages and fractures within. Py increases in fg- intervals and overgrows foliation. Minor hematite on fractures.
		154.4 - 170.0	Selective Repl Moderate Chlorite	Fracture Controlled Moderate Clay Vein Seldge Weak Epidote
170.0 - 194.2	AmBtS	fgrn		Broken ground. Fine grained mafic schist. Foliation trending parallel to core axis. Frequent hairline epidote veining. Trace brassy py. In very broken zones- strong clay alteration on fracture planes. Rare white, opaque quartz veining- irregular margins- trending ~ subparallel to core axis. Limonite absent. Weak hematite on fracture planes (<0.25%).
		170.0 - 194.2	Fracture Controlled Moderate Clay	Selective Repl Weak Chlorite Relatively unaltered. Clay on fracture planes. Trace epidote vein
194.2 - 200.4	AmBtS	fgrn		Abundant quartz veining- opaque quartz with chlorite selvages and chlorite infilling in fractures within veins. Veins range in size from 5 cm to 40cm thick. Wall rocks are chloritic, with patchy epidote throughout. Wall rocks have abundant brassy py- pyrite is blebby and euhedral in part overgrowing foliation. From 196.15-197.6- py is ~3-4%- zone is also moderately magnetic- no visible magnetite or pyrrhotite.
		194.2 - 200.4	Patchy Strong Epidote	Selective Repl Moderate Chlorite Patchy Moderate Calcite
200.4 - 209.0	AmBtS	fgrn		Fine grained, foliated mafic schist. Moderately broken. Fracture controlled clay alteration. Patchy trace hematite- largely on fracture planes. Trace brassy py (<0.25%). Hairline carbonate veining-rare. At 205.55- sooty clay on fracture plane- grey- ~550 ppm As.
		200.4 - 208.0	Selective Repl Weak Chlorite	Fracture Controlled Weak Clay Wall rock alteration of quartz veining. Magnetic- fg magnetite?
		208.0 - 235.5	Fracture Controlled Weak Clay	Selective Repl Weak Chlorite
209.0 - 245.0	AmBtS	biot		Same as seen previously. Overall less broken. Very weak clay alteration on fracture planes. Fg-mg. Trace py throughout overgrowing foliation. Occasional opaque quartz veining parallel to subparallel to main foliation. Veins range in width from 5-30cm. Thicker vein at 239.95-240.2m with patchy epidote alteration of wall rocks. Pyrite overgrowing foliation.
		235.5 - 240.5	Patchy Moderate Epidote	Selective Repl Moderate Chlorite Magnetitic wall rock surrounding quartz vein.
		240.5 - 245.0	Selective Repl Weak Chlorite	Fracture Controlled Weak Clay

Drill Log: CFD0216

Easting	584080.17	Hole Length	191 m	Prospect	Supremo T3	Drill Started	May 20, 2012	Comment
Northing	6973650.04	Azimuth	274.5 °	Target	T3	Drill Completed	May 22, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1089.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			Overburden. Casing stopped at 9m, drillers labelled block
9.0 - 33.8	MxF	augn	Fol-mod	Fixed felsic gneiss with augen texture. Strong silicification & sericite, moderate patchy albite and weak patchy clay alteration. Disseminated limonite 0.25% with hematite staining 0.25%. Local quartz veins both milky and open space veins. Clay infilled veins. Local 3.5% limonite and 2.5% hematite located at 33.16 - 33.75m.
9.0 - 33.8				Pervasive Strong Silicification Pervasive Strong Sericitisation Patchy Moderate Albite
33.8 - 36.3	DIOR	mgrn		Diorite dyke with local hydrothermally unrecognizable protolith, most likely andesite. Strong-intense clay alteration. Strong patchy limonite 3.5% with hematite staining 2.5%. Intense clay alteration is associated with weak disseminated limonite.
33.8 - 36.3				Intense Clay
36.3 - 46.2	MxF	band	Fol-str	Mixed felsic gneiss. Local disseminated limonite 0.20% with hematite staining 0.2% grading in depth to 0.1% limonite and hematite. Bronzy pyrite 0.1%. Strong pervasive silicification & sericite, with weak patchy albite alteration. Local limonite breccia vein.
36.3 - 46.2				Pervasive Strong Silicification Pervasive Strong Sericitisation Patchy Weak Albite
46.2 - 75.4	BtS	lamn	Fol-str	Biotite schist. Strong silicification, moderate patchy sericite, with weak patchy epidote & chlorite alteration. Local small quartz and calcite veins. Weak fracture controlled limonite 0.1% , with brassy/bronzy pyrite 0.1%.
46.2 - 75.4				Pervasive Strong Silicification Pervasive Moderate Sericitisation Patchy Weak Chlorite
75.4 - 95.0	MxF	band	Fol-str	Mixed felsic gneiss. Strong-intense silicification, strong sericite, strong patchy albite, with weak patchy clay alteration. Disseminated limonite 0.15% with hematite staining 0.15% with local intervals of increased limonite 2.5% and hematite 1.5%.
75.4 - 95.0				Pervasive Intense Silicification Pervasive Strong Sericitisation Patchy Strong Albite
95.0 - 97.4	HU			Hydrothermally unrecognizable protolith with intervals of silicified-clast breccia. Strong clay alteration, with moderate patchy clay, and weak albite alteration. Strong disseminated limonite 3% with hematite 2% and possible manganese oxide staining.
95.0 - 97.4				Patchy Strong Clay Patchy Moderate Silicification Patchy Weak Albite
97.4 - 106.9	FG	band	Fol-str	Felsic gneiss. Strongly silicified, weak albite, sericite & clay alteration. Weak fracture controlled limonite 0.1% with hematite staining 0.1%.
97.4 - 106.9				Pervasive Strong Silicification Patchy Weak Albite Patchy Weak Sericitisation
106.9 - 110.9	BtS	lamn	Fol-mod	Biotite schist. Moderate silicification, moderate chlorite, with weak patchy epidote alteration. Weak fracture controlled limonite 0.1% with bronzy pyrite 0.1%.
106.9 - 110.9				Pervasive Moderate Silicification Patchy Moderate Chlorite Patchy Weak Epidote
110.9 - 111.7	SZ		Crenul	Shear Zone. Strong crenulations. Weak fracture controlled limonite 0.1%. Moderate chlorite alteration.
110.9 - 111.7				Moderate Chlorite
111.7 - 141.1	BtS	lamn	Fol-str	Biotite Schist. Strong silicification, moderate patchy epidote, moderate patchy sericite, with weak chlorite alteration. Weak fracture controlled limonite 0.1%, with bronzy pyrite 0.5%.
111.7 - 141.1				Pervasive Strong Silicification Patchy Moderate Epidote Patchy Moderate Sericitisation
141.1 - 143.3	SZ		Crenul	Shear Zone. Strong crenulations. Weak patchy clay, with moderate chlorite alteration. Weak fracture controlled limonite 0.1%
141.1 - 143.3				Patchy Weak Clay Patchy Moderate Chlorite
143.3 - 182.9	BtS	lamn	Fol-str	Biotite schist. Local quartz veins, large quartz vein from 147.03-147.95m. Strong silicification, moderate sericite, weak patchy epidote & chlorite alteration. Weak fracture controlled limonite 0.1% with fresh bronzy pyrite 0.5%. Local talc schist over 0.65m interval.
143.3 - 182.9				Pervasive Strong Silicification Patchy Moderate Sericitisation Patchy Weak Epidote

182.9 - 191.0	MsS	lamn	Fol-mod	Muscovite feldspar schist. Intense silicification, strong albite, moderate patchy sericite alteration. Weak fracture controlled limonite 0.1% with brassy fresh pyrite 0.5%.		
182.9 - 191.0	Pervasive Intense Silicification		Pervasive Strong Albite		Patchy Moderate Sericitisation	

Drill Log: CFD0217

Easting	584111.83	Hole Length	242 m	Prospect	Supremo T3	Drill Started	May 22, 2012	Comment	Geotech 2: Doug
Northing	6973648.92	Azimuth	275 °	Target	T3	Drill Completed	May 25, 2012		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	P Johanson	Core Size	NQ		
Survey method	RTK GPS	Elevation	1091.3 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb		Fol-wk	Overburden; felsic dominated gneiss. Weak FC clay. 0.1% limonite and 0.25 % hematite along fractures.
		0.0 - 3.0	Fracture Controlled Weak Clay	
3.0 - 27.9	MxF	augn		Felsic dominated gneiss. Variably altered interval with local vuggy texture. In and out of FC clay alteration. A more silicified interval exists between 13.8-15m. Trace sulphide; 0.1% oxidized pyrite cubes, 0.25% FC limonite, 0.1% FC hm. Moderate sericite alteration, selective replacement. Local (10.2m and 11.9m) vuggy irregular quartz veins in the first 12 m; open space infill quartz.
		3.0 - 13.7	Selective Repl Strong Sericitisation	Fracture Controlled Weak Clay Patchy Weak Silicification
		13.7 - 15.1	Pervasive Strong Silicification	
		15.1 - 27.9	Pervasive Moderate Sericitisation	Replaces Felsics Moderate Clay Patchy Weak Silicification
27.9 - 28.2	MxF			Shoulder zone. Felsic dominated gneiss. 1-2% lim, largely fracture controlled although locally disseminated. Foliation is still present and feldspars are consistently clay altered.
		27.9 - 28.7	Pervasive Moderate Clay	Selective Repl Moderate Sericitisation
28.2 - 28.7	FC	fgrn		Zone; fine-grained dacite. Fractured unit with pervasive clay alteration and mottled texture. Dendritic manganese visible along fractures. 2-3% disseminated limonite, up to 1% disseminated hematite.
28.7 - 29.8	HU			Zone; highly altered unit, possibly fine-grained dacite between 29.57-29.83m. Pervasive strong clay alteration with a frequent mottled texture. White clay veinlets at 29.18-29.20m. From 28.95-29.0m there is a discreet limonitic matrix-supported breccia; reworked opaque quartz vein material with sub-angular to sub-round clasts; mature breccia texture. The lower part of the unit (29.57-29.83m) contains a fine grained interval (possibly dacite) with a mottled texture.
		28.7 - 29.8	Pervasive Intense Clay	
29.8 - 30.8	MxF	silc		Shoulder zone. Felsic dominated gneiss. Unit is becoming more silicified and bleached (silica+clay) moving away towards the bottom of the unit. 1-2% disseminated to more fracture controlled limonite towards the bottom of unit. 0.1% oxidized pyrite cubes visible around 30.40-30.53m.
		29.8 - 30.3	Patchy Moderate Clay	Pervasive Weak Silicification
		30.3 - 32.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
30.8 - 40.2	MxF	augn		Felsic dominated gneiss. Upper part of unit (30.79-32.0m) is more silicified, with an up to 2 cm wide LCA parallel quartz vein from 30.90-31.97m. Pervasive sericite alteration throughout unit. A few fracture controlled discreet intervals of clay alteration. 0.25-0.5% fracture controlled to local more disseminated limonite. Local vuggy texture and 0.5-1cm wide foliation parallel quartz veins.
		32.0 - 40.2	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation Fracture Controlled Weak Clay
40.2 - 42.8	MxM			Mafic dominated gneiss. Very broken up interval. From 40.23-41.2m unit is silicified and vuggy, with limonite matrix in vugs. The unit then grades in a heavily fractured and clay altered interval; with chlorite alteration; trace limonite along fractures.
		40.2 - 41.2	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation Fracture Controlled Weak Clay
		41.2 - 42.8	Pervasive Moderate Clay	Replaces Mafics Weak Chlorite Selective Repl Weak Sericitisation
42.8 - 70.3	MxM			Mafic dominated gneiss. Patchy silicification and fracture controlled clay alteration. Pervasive sericite alteration throughout unit, along foliation. Trace brassy pyrite, disseminated to blebby. Increased biotite schist content between 65.4-69.0m, with associated moderate chlorite altn.
		42.8 - 65.4	Fracture Controlled Weak Clay	Patchy Moderate Silicification Selective Repl Weak Sericitisation
		65.4 - 70.3	Fracture Controlled Weak Clay	Patchy Moderate Silicification Selective Repl Weak Sericitisation

70.3 - 71.0	MxF	Shoulder zone comprised of felsic dominated gneiss. Top of interval is weakly silicified, but silicification is gradually lost towards end of unit while weak sericite altn FC clay altn is consistent throughout unit. Sulphide content increases towards the end of the unit; 0.25% FC lim and 0.1% FC hm at the top of the interval, with increased bleeding along fractures and 1% diss lim and 0.75% diss hm from 70.5-71.01m. The bottom of the unit also still shows foliation.		
70.3 - 71.0		Fracture Controlled Weak Clay	Patchy Weak Silicification	Selective Repl Weak Sericitisation
71.0 - 71.3	HU	Zone; highly altered unit comprised of two different sub-units. The top sub-unit (71-71.14m) is characterized by strong clay alteration with a mottled texture; 4% diss lim, up to 2% diss to FC hm; the nature of the top contact suggests that this sub-unit may be a continuation of the overlying unit. The lower sub-unit (71.14-71.34m) is characterized by intense clay and strong sericite alteration and a depletion of sulphides; 0.1-0.25% FC lim and hm; this sub-unit is probably a heavily altered continuation of the underlying dyke (diorite).		
71.0 - 71.1		Pervasive Strong Clay		
71.1 - 71.3		Pervasive Intense Clay	Selective Repl Strong Sericitisation	
71.3 - 74.5	DIOR	mgrn	Diorite, including two shoulder zones. Unit consists of an upper altered and heavily fractured shoulder zone from 71.34-72.65m (weak to strong clay, mod to strong sericite; 0.25-0.5% FC lim, 0.25% FC hm); a more competent and less altered medial sub-unit at 72.65-74.10m (weak clay, weak sericite; 0.1% FC lim and hm); and a more altered and fractured lower shoulder zone (74.10-74.46m; mod to strong clay, mod sericite; 0.25% FC lim).	
71.3 - 71.7		Pervasive Strong Clay	Selective Repl Moderate Sericitisation	
71.7 - 71.9		Pervasive Weak Clay	Selective Repl Strong Sericitisation	
71.9 - 72.7		Pervasive Strong Clay	Selective Repl Moderate Sericitisation	
72.7 - 74.1		Pervasive Weak Clay	Selective Repl Weak Sericitisation	
74.1 - 74.4		Fracture Controlled Moderate Clay	Pervasive Weak Clay	Selective Repl Moderate Sericitisation
74.4 - 74.5		Pervasive Strong Clay		
74.5 - 74.6	HU	Zone; highly altered unit. Unit shows strong clay alteration with a mottled texture and multi-directional fractures associated with lim and hm infil, as well as very weak calcite and clay stringers; 4% diss lim, up to 1.5% diss to FC hm; the gradual nature of the bottom contact suggests that this sub-unit may be a continuation of the underlying unit.		
74.5 - 74.6		Pervasive Strong Clay	Fracture Controlled Weak Calcite	Fracture Controlled Moderate Clay
74.6 - 75.0	MxF	Zone, grading into shoulder zone. Felsic dominated gneiss. The upper 10 cm (74.56-74.66m) shows weak clay and moderate sericite altn, weak FC calcite 1.5-2% diss lim and 0.5% FC hm. The bottom of the unit (74.66-75.04m, includes an interval of core-loss) shows weak clay and mod to strong sericite altn, with 0.25-0.5% FC lim and 0.1-0.25% FC hm. Unit is weakly to moderately foliated.		
74.6 - 74.7		Pervasive Weak Clay	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Calcite
74.7 - 74.9		Pervasive Weak Clay	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Calcite
74.9 - 75.0		Fracture Controlled Weak Clay	Selective Repl Strong Sericitisation	Fracture Controlled Weak Calcite

75.0 - 99.7	MxF				Felsic dominated gneiss. Overall mod to strong silicification, with local intervals of weak FC clay alteration associated with a slight loss of silicification and more abundant fractures. Weak to moderate sericite altn throughout unit, pervasive FC calcite. Local mod epidote altn (93.85-94.02m) appearing in 0.5-3 cm wide foliation parallel bands. Overall 0.25% FC lim and hm; 0.1% oxidized pyrite cubes, mostly associated with intervals of vugs. 1% cross-cutting to foliation parallel, 0.25-2 cm wide milky quartz veins.
		75.0 - 76.1	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Calcite
		76.1 - 79.2	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Calcite
		79.2 - 84.9	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay
		84.9 - 88.3	Pervasive Strong Silicification	Selective Repl Weak Sericitisation	Fracture Controlled Weak Calcite
		88.3 - 89.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay
		89.0 - 91.2	Pervasive Strong Silicification	Fracture Controlled Weak Clay	Selective Repl Weak Sericitisation
		91.2 - 91.4	Pervasive Moderate Clay	Replaces Mafics Weak Chlorite	
		91.4 - 93.9	Pervasive Strong Silicification	Selective Repl Weak Sericitisation	Fracture Controlled Weak Clay
		93.9 - 94.0	Pervasive Strong Silicification	Patchy Moderate Epidote	
		94.0 - 99.7	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Calcite
99.7 - 127.7	MxM	augn			Mafic dominated gneiss, locally augen-bearing (0.25-0.5 cm across). Weak to moderate pervasive silicification, with local loss of silicification in discreet intervals of weak to moderate clay altn. Weak to moderate chlorite altn throughout unit, as well as patchy weak sericite altn. Local bands of weak to mod epidote altn. 0.1% FC lim and hm; 0.1% brassy to partly oxidized pyrite cubes/blebbs. 2% 0.5-11 cm wide cross-cutting to foliation-parallel milky quartz veins. Biotite schist content increases towards end of unit.
		99.7 - 104.8	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Calcite
		104.8 - 105.0	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite
		105.0 - 107.6	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote
		107.6 - 116.5	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Calcite
		116.5 - 120.8	Patchy Weak Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Calcite
		120.8 - 127.7	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Sericitisation
127.7 - 130.7	BtS	lamn	Folded		Biotite schist; minor felsic content. Weakly foliated. Mod chlorite altn, mod silicification down to 130.14 m, where silicification is lost and clay alteration starts from mod FC, increasing to strong and pervasive and mod calcite altn is also present. Bands and patches of mod epidote throughout unit. 0.1% blebby pyrite, local FC trace lim. Unit shows weak to moderate deformation structures, particularly in the lower clay altered interval, where
		127.7 - 130.1	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
		130.1 - 130.3	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite	
		130.3 - 130.7	Pervasive Strong Clay	Replaces Mafics Strong Chlorite	Pervasive Moderate Calcite
130.7 - 132.2	BtS	pblst			Biotite-feldspar schist, porphyroblastic. Variably clay altered unit with several styles of alteration; local weak to mod FC clay is found near the top of the unit, while mod clay is also replacing feldspar porphyroblasts throughout the unit, as well as intervals of strong pervasive clay alteration, as well as weak calcite altn. Weak chlorite altn of biotite. 0.25% FC lim and hm.
		130.7 - 131.2	Fracture Controlled Moderate Clay	Replaces Felsics Weak Clay	Pervasive Weak Calcite
		131.2 - 132.2	Pervasive Strong Clay	Replaces Felsics Moderate Clay	Pervasive Weak Calcite

132.2 - 132.7	BtS	silc		Zone; Biotite schist, locally porphyroblastic. Unit comprised of two sub-units with different alterations. The top sub-unit (132.21-132.46m) is moderately silicified, with a network of multi-directional quartz veins and veinlets, with calcitic and limonitic selvage, some veins appear to have calcite incorporated within the quartz veins. Most veins are close to foliation parallel, although some stringers are cross-cutting. 0.5% FC lim bleeding out of fractures, and patches of sooty sulphides with very small brassy pyrite crystals (5%, runs up to 6300ppm on XRF). The lower sub-unit (132.46-132.65m) is moderately clay altered, but still shows weak foliation. 2% diss lim and 1% FC lim, up to 2% hm. Sub-unit also has patches of sooty sulphides (5%, runs up to 4500 ppm on XRF). The lower contact of the unit grades in to a heavily fractured, more porphyroblastic and strongly clay altered BtS (1.5% diss lim, 0.5% diss hm)
		132.2 - 132.5	Fracture Controlled Weak Clay	Pervasive Moderate Silicification Vein Selvedge Weak Calcite
		132.5 - 132.6	Pervasive Moderate Clay	
		132.6 - 132.7	Pervasive Strong Clay	Fracture Controlled Weak Calcite
		132.7 - 135.9	Patchy Moderate Clay	Replaces Felsics Weak Clay Replaces Mafics Weak Chlorite
132.7 - 135.9	BtS	pblst		Weak zone. Feldspar-biotite schist, porphyroblastic down to 134.25m. Weak to moderate clay alteration, FC and feldspar replacement. 0.25% FC lim down to 134.25m, then incresing to up to 1% FC to diss lim and 0.5% hm for the rest of the unit. Weak chlorite altn.
135.9 - 137.9	YO	bxv		Zone; polymictic breccia with a combination of clasts from wall-rock and dyke material. Sub-angular clasts of quartz vein and intermediate dyke material. Clast-supported, silica-clay-limonite-hematite matrix. Strong sil, mod clay. 2-5% diss lim, 2-4% diss hm. Unit contains several 0.5-2 cm wide brecciated quartz veins.
		135.9 - 137.9	Pervasive Strong Silicification	Pervasive Moderate Clay
137.9 - 138.8	HU			Zone; highly clay-altered unit, weak foliation can be found locally (possibly altered BtS wallrock). Unit is broken up, probably during drilling. Mod pervasive clay, mod pervasive silicification. 2-3% diss lim, up to 1% diss hm.
		137.9 - 138.8	Pervasive Moderate Clay	Pervasive Moderate Silicification
138.8 - 139.6	IV	fgrn		Weak zone; fine-grained intermediate dyke with sparse altered feldspar phenocrysts (limonite). Weak clay, mod sil, mod chlor. 0.5-2% FC to diss lim, 0.25% FC hm.
		138.8 - 139.9	Pervasive Weak Clay	Patchy Moderate Silicification Replaces Mafics Moderate Chlorite
139.6 - 139.9	HU			Zone; highly altered unit; intense pervasive clay; 4-5% diss lim, 2% diss hm, 1% FC hm.
139.9 - 143.3	BtS	pblst		Feldspar-biotite schist; porphyroblastic. Weak clay replacing feldspars and mod FC clay, mod sericite altn. Weak patchy silicification. 0.25% FC lim, 0.1% FC hm.
		139.9 - 143.3	Fracture Controlled Moderate Clay	Replaces Felsics Weak Clay Selective Repl Moderate Sericitisation
143.3 - 147.7	MxM			Mafic dominated gneiss; high BtS content. Local weak clay altn of feldspars. Mod pervasive silicification, mod chlorite altn. 0.1% FC lim, 0.1% blebby pyrite.
		143.3 - 144.8	Replaces Felsics Weak Clay	
		144.8 - 147.7	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
147.7 - 163.3	BtS	Fol-str		Biotite schist, minor felsic content. Moderate patchy silicification, moderate chlorite altn, intervals with bands of weak epidote altn. 0.1% FC lim, .1% blebby pyrite. 1% 0.5-9 cm wide foliation parallel to cross-cutting milky quartz veins. Increased blebby pyrite and also pyrrhotite at 160.10-160.47m (2% and 3% through the interval, respectively).
		147.7 - 163.3	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Patchy Weak Epidote
163.3 - 176.4	MxM	augn	Fol-mod	Mafic dominated gneiss, locally augen-bearing in more felsic intervals. Mod to strong patchy silicification, weak chlorite altn. Unit includes an interval with weak mineralization (172.80-175.60m); weak FC clay and calcite associated with up to 0.5% FC limonite and limonite+clay replacing feldspars (only runs up to ~100 ppm As on XRF). Otherwise 0.1% FC lim, 0.1% blebby pyrite. 1% foliation-parallel to cross-cutting 0.5-12cm wide milky quartz veins.
		163.3 - 172.8	Patchy Strong Silicification	Replaces Mafics Weak Chlorite
		172.8 - 175.6	Fracture Controlled Weak Clay	Fracture Controlled Weak Calcite
		175.6 - 176.4	Patchy Strong Silicification	Replaces Mafics Weak Chlorite
176.4 - 184.8	MxF	augn	Fol-mod	Felsic dominated gneiss, minor mafic content, locally augen-bearing. Strong pervasive silicification, local weak sericite altn. 0.1% FC lim, 0.1% blebby pyrite.
		176.4 - 184.8	Pervasive Strong Silicification	Patchy Weak Sericitisation
184.8 - 194.6	FG		Fol-wk	Felsic gneiss. Strong pervasive silicification, minor weak FC clay, weak albite altn. 0.1% blebby pyrite.
		184.8 - 194.6	Pervasive Strong Silicification	Fracture Controlled Weak Clay Patchy Weak Albite

194.6 - 213.8	MxM	Fol-mod	Mafic dominated gneiss, BtS intervals +/- muscovite. Weak to absent silicification, weak calcite altn and weak chlorite altn in mafic intervals, mod to strong pervasive silicification and patchy weak abite in felsic intervals. Felsic intervals between 202-203.8m show weak sericite altn and weak clay alteration of feldspars. Local 0.25% FC lim, with some bleeding around fractures (208.2-208.81m; 212.97-213.82m), otherwise absent. Large broken up pyrite bleb at 198.82m, otherwise 0.1% blebby pyrite. Frequent (2%) largely foliation parallel quartz veins (0.5-4cm wide) and veinlets. Calcitic quartz veinlet (2mm wide) at 209.03-209.20 m, cross-cutting foliation. Mod FC clay in lower 20 cm of unit.		
194.6 - 202.0		Patchy Strong Silicification	Patchy Weak Silicification	Patchy Weak Calcite	
202.0 - 203.8		Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive Strong Silicification	
203.8 - 213.6		Patchy Strong Silicification	Patchy Weak Silicification	Patchy Weak Calcite	
213.6 - 213.8		Patchy Strong Silicification	Fracture Controlled Moderate Clay	Patchy Weak Calcite	
213.8 - 225.2	FG		Weak zone; felsic gneiss (minor mafics) with patchy weak mineralization. Weak to mod silicification, weak sericite altn, weak clay altn of feldspars, weak patchy albite altn. Unit is weakly oxidized; 0.25-0.5% FC lim and hm bleeding out of fractures down to 224.26m, limonite-hematite-clay altered feldspars, and also abundant oxidized to partly oxidized pyrite cubes (0.25%). From 224.26-224.62m limonite FC bleeding increases up to 1.5% with associated weak pervasive clay and mod calcite altn; this interval also includes brittle to semi-ductile fracturing offsetting foliation. From 224.62 to the end of the unit sulphide content decreases again (0.1% FC lim); with increasing silicification and decreasing clay alteration of feldspars. Frequent, mostly cross-cutting , quartz veins and veinlets (3%), 1 cm wide core-axis parallel quartz vein at 220.8-221.57m. Dendritic manganese on some fracture surfaces. Unit becomes more fractured 221.65m, with more massive (up to 4 cm wide) milky quartz veins.		
213.8 - 224.3		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	
224.3 - 224.6		Pervasive Weak Clay	Pervasive Moderate Calcite		
224.6 - 225.2		Replaces Felsics Weak Clay	Patchy Moderate Silicification		
225.2 - 242.0	MxF	augn	Felsic dominated gneiss, locally augen-bearing. Felsic intervals are strongly silicified, while mafic intervals are weakly silicified; mod chlorite altn, weak patchy sericite altn. 0.1% FC lim and hm, 0.1% blebby pyrite, 0.1% oxidized pyrite (replaced by hematite?)		
225.2 - 242.0		Patchy Strong Silicification	Replaces Mafics Weak Chlorite	Patchy Weak Sericitisation	

Drill Log: CFD0218

Easting	584138.24	Hole Length	250.65 m	Prospect	Supremo T3	Drill Started	May 23, 2012	Comment
Northing	6973751.16	Azimuth	272 °	Target	T3	Drill Completed	May 27, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1124.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.9	OVB			Felsic gneiss boulders
		9.0 - 21.3	Selective Repl Moderate Chlorite	Selective Repl Weak Silicification Selective Repl Weak Epidote
9.9 - 26.0	BtS	biot	Fol-mod	Moderately chlorite altered BtS with minor augne gneiss lenses. Moderate patchy silicification.
		21.3 - 65.3	Selective Repl Weak Albite	Pervasive Weak Silicification
26.0 - 66.6	FG	augn	Fol-str	Felsic gneiss, moderately silicified, selective albite replacement. Oxidation occurs as 0.25% disseminated hematite and minor FC limonite. Local viggy qtz veining increasin oxidation.
		65.3 - 75.5	Selective Repl Moderate Clay	Replaces Felsics Weak Epidote Selective Repl Weak Chlorite
66.6 - 72.7	AmBtS	pblst	Fol-str	Amb over Bt Schist, weak albite altn. Local fractures are moderately clay and chlorite altered. Unmineralized.
72.7 - 88.0	MxF	augn	Fol-str	Felsic gneiss with local porphyroblastic biotite schist, moderate muscovite altn and local chlorite
		75.5 - 86.1	Selective Repl Weak Epidote	
88.0 - 89.0	RU	musc	Crenul	Intense clay, chlorite. Greasy. Well developed biotite lens, Blebby oxidized pyrite.
		88.0 - 89.0	Pervasive Intense Clay	Replaces Mafics Strong Chlorite
89.0 - 92.0	DIOR	pblst		Intermediate dyke, strong clay alteration at contacts upper and lower. minor disseminated limonite
		89.0 - 92.1	Selective Repl Strong Clay	Selective Repl Moderate Chlorite
92.0 - 92.2	Ylim	bxm		Limonitic clay matrix, rounded clasts of variable size. Polymictic, both qtz veins and wall rock (DIOR, FG)
		92.1 - 99.2	Selective Repl Weak Clay	Selective Repl Weak Muscovite Pervasive Weak Silicification
92.2 - 97.8	MsS	fgrn	Fol-str	Muscovite feldspar schist, 2% limonite disseminated limonite, moderate silica and selective clay replacement of fspars. Brecciated qtz vein and stronger foliation @ 97.5
97.8 - 123.9	MxF	augn	Fol-str	Felsic gneiss with ~5% mafic segregations, minor local clay altn and moderate silicification. Mineralized zone consists of 3% limonite, 1% diss hematite and fracture controlled clay. Minor local muscovite altn.
		99.2 - 111.4	Pervasive Moderate Silicification	
		111.4 - 112.8	Fracture Controlled Weak Clay	Selective Repl Moderate Clay
		112.8 - 123.1	Pervasive Moderate Silicification	Selective Repl Weak Clay
		123.1 - 139.8	Replaces Felsics Weak Epidote	Pervasive Moderate Silicification Selective Repl Weak Chlorite
123.9 - 132.8	BtS	biot	Fol-str	Qtz, Biotite schist, disseminated pyrite and minor epidote altn of felsic micas. Zone at 124.5m consists of 2% sooty sulphides oxidized around fractures.
132.8 - 139.8	AmBtS	fgrn	Fol-str	Fine grain amphibole schist, minor biotite. Disseminated euhedral and subhedral pyrite within foliation. Selective epidote altn.
139.8 - 141.2	SZ	biot	Crenul	Strongly chlorite altered shear zone fabric. Biotite schist protolith, minor clay and fine grain mica altn
		139.8 - 142.4	Selective Repl Strong Chlorite	Selective Repl Moderate Biotite
141.2 - 150.1	FG	band	Fol-str	FG, moderate silicified, local moderate albite altn. Disseminated 0.1% hematite. Lower contact with breccia has minor clay replacement and weak limonite.
		142.4 - 150.1	Pervasive Moderate Silicification	Selective Repl Weak Clay
150.1 - 150.6	Ylim	mud		Medium grained sub rounded silica clast, matrix supported, limonitic clay ore matrix. Lower contact displays unoxidized fine grain massive sulphide into following pyritic Yx
		150.1 - 151.0	Pervasive Intense Clay	Pervasive Strong Silicification

150.6 - 151.0	Yx	Clast		angular medium grained pyritic silicified clasts , clast supported with interstitial clay and brassy pyrite matrix. Upper contact intensely clay altered and unconsolidated. Include 10mm planar sooty sulphide vein.
151.0 - 152.1	YC	silc		Angular silicified clast crackle breccia, clast supported with limonite silica infill. 151.2-151.28m med grained polymictic (qtz vein, HU)limonitic matrix supported breccia vein.
		151.0 - 158.0	Pervasive Intense Silicification	
152.1 - 152.4	HU	mud		Possible dacite, visible relic plag phenocrysts, local silicified clast bx, intense silica obscures relationships btw bx and dyke?
152.4 - 153.4	HU	silc		Intensely silicified (foliated protolith) , local limonitic matrix supported YC veining.
153.4 - 154.0	Yx	bxi		Coarse grained angular polymictic silicified clasts, FG and YC, crackle breccia, x-cut by porcelainic qtz veins and small scale limonite matrix Ycbx
154.0 - 158.7	HU	silc		Intensely silicified (FG) moderate fracture controlled clay altn. Local silicified clast bx. 0.5% disseminated limonite.
		158.0 - 164.8	Pervasive Weak Silicification	Replaces Felsics Weak Albite
158.7 - 164.8	FG	band		Felsic gneiss, weakly silicified with albite after fs, local pitting of fs, 0.75% disseminated limonite with 0.2% hematite around former sulphide veins
164.8 - 178.6	FG	band	Fol-mod	Felsic gneiss, zone shoulder, grey silicification throughout unless overprinted(?) by albite over 0.2-1m intervals, limonite is patchy
		164.8 - 178.6	Pervasive Moderate Silicification	Patchy Weak Albite
178.6 - 180.3	FG	bxi		Mineralized interval with strong patchy clay, first 10cm appears to be an immature breccia with clay-muscovite matrix and silicified clasts of gneiss, foliation is locally destroyed by intense clay, limonite is pervasive and locally up to 5%
		178.6 - 180.3	Pervasive Strong Clay	Patchy Weak Silicification
180.3 - 188.7	FG	band	Fol-mod	Former gneiss, bleached (pervasive albite), contains contorted quartz veins up to 5cm wide, local clay alteration has made 10-40cm patches of the rock unconsolidated, limonite averages to .5% but is up to 1% over 10 cm
		180.3 - 188.7	Pervasive Weak Silicification	Selective Repl Strong Albite Patchy Weak Clay
188.7 - 190.2	FG	mgrn	Fol-wk	Mineralized interval consisting of former felsic gneiss cored by quartz-vein breccia, 2% limonite throughout, qtz-vn-bx is spatially associated with moderate-strong clay alteration
		188.7 - 190.2	Pervasive Weak Silicification	Vein Selvege Moderate Clay
190.2 - 208.7	MxF	mgrn	Fol-wk	Mixed gneiss, exhibits locally pervasive QSP alteration and where unoxidized may contain both vein-hosted and disseminated sooty pyrite averaging 0.2% over the entire unit. Limonite is patchy over the course of the interval, up to 0.5% over a metre. Small qtz vein bx from 196-196.75
		190.2 - 192.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		192.2 - 192.7	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
		192.7 - 193.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		193.7 - 196.8	Pervasive Moderate Silicification	Patchy Weak Clay
		196.8 - 198.2	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote Patchy Weak Silicification
		198.2 - 202.1	Replaces Felsics Strong Silicification	Replaces Felsics Moderate Sericitisation
		202.1 - 203.8	Patchy Weak Silicification	Pervasive Weak Sericitisation Subdued QSP in mafic band
		203.8 - 205.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		205.6 - 206.9	Pervasive Strong Silicification	Pervasive Weak Sericitisation Pervasive Weak Albite
		206.9 - 208.7	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Sericitisation Replaces Mafics Weak Chlorite QSP in felsic bands
208.7 - 222.6	MxF	band	Fol-mod	Mixed gneiss, in and out of both QSP and albite alteration associated with up to 0.5% limonite over 1m and 0.5% sooty pyrite over 1m. Mafic bands are relatively unaltered
		208.7 - 210.3	Replaces Mafics Moderate Silicification	
		210.3 - 210.6	Pervasive Strong Clay	
		210.6 - 214.2	Replaces Felsics Weak Silicification	
		214.2 - 215.5	Pervasive Weak Silicification	Pervasive Moderate Albite
		215.5 - 218.0	Patchy Weak Silicification	Patchy Weak Sericitisation Patchy Weak Albite
		218.0 - 220.0	Pervasive Weak Silicification	Pervasive Weak Albite
		220.0 - 229.3	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Albite Replaces Mafics Weak Epidote
222.6 - 229.3	MxF	band	Fol-mod	Mixed gneiss, weak to moderate silica alteration in felsic bands, weak epidote in mafic bands, most limonite is present on fractures,

229.3 - 229.9	FG	band	Fol-wk	Strongly hematitic gneiss (2%), spatially associated with vitreous quartz veins from start to end of unit		
		229.3 - 229.9	Pervasive Strong Silicification			
229.9 244.8	MxF	band	Fol-mod	Mixed gneiss, dominantly silicified, small zone of white clay alteration from 232.2-233.85 (strongest at 233.2m)		
		229.9 - 232.2	Pervasive Moderate Silicification	Replaces Felsics Weak Albite		
		232.3 - 233.9	Pervasive Moderate Silicification	Replaces Felsics Weak Clay		
		233.9 - 237.4	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Clay		
		237.4 - 240.0	Pervasive Strong Silicification	Replaces Felsics Weak Albite		
		240.0 - 244.8	Replaces Felsics Strong Silicification	Replaces Mafics Weak Epidote		
244.8 - 246.3	MV	mass	Massive bull quartz vein containing 5% entrained material, including coarse biotite, bands of mafic schist			
246.3 - 249.3	MxM	band	Mafic dominant gneiss with pink felsic bands, barren, contains uncommon disseminated brassy pyrite			
		246.3 - 249.3	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote	Replaces Felsics Weak Silicification	
249.3 - 250.7	MxM	band	Fol-mod	mostly amphibole schist with some felsic bands, hosts 5% sooty pyrite from 249.5-250.12, start of mineralization appears to be a quartz vein with chaotic margins, but sooy py is in the schist. Vuggy qtz vein at 249.85 cross cuts mineralization.		
		249.3 - 250.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation		

Drill Log: CFD0219

Easting	584977.15	Hole Length	275 m	Prospect	Double Double	Drill Started	May 24, 2012	Comment
Northing	6973276.47	Azimuth	176 °	Target	T3	Drill Completed	May 28, 2012	
Projection	UTM7-NAD83	Dip	-61.5 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1094.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
		0.0 - 16.2	Replaces Felsics Moderate Clay	Patchy Weak Silicification
				Selective Repl Moderate Sericitisation
				Ser replacing Biot
6.0 - 16.2	AmBtS	biot		Mafic schist with well developed foliation. Foliation is preferentially overgrown by sericite. Clay alteration is largely fracture controlled. Discrete intervals of silica flooding. Limonite on fracture planes (~0.25-0.5%). From 9-9.2m- limonite veining (weak stock - 3mm wide veinlets) with local bleaching of wall rocks.
		16.2 - 20.1	Pervasive Moderate Clay	Selective Repl Moderate Sericitisation
				Selective Repl Moderate Albite
				Ser replacing Biot
16.2 - 18.7	AmBtS			Weak pervasive limonite throughout (~1%). Harline limonite veining cutting perpendicular to foliation. Clay alteration of feldspars.
18.7 - 20.7	YO	bxi		Weak zone. Unique texture- weakly brecciated with limonite infilling around clasts-brecciated vein?. Matrix varies from limonite dominated to white clay dominated. Rock is coherent-secondary silica? or albite?. Quartz boudins (opaque). Clasts appear to be largely rotated schist fragments (preserved sericite foliation)- late? As values weakly anomalous (500 As max). From 20.1m ankerite flooding becoming oxidized towards basal contact.
		20.1 - 20.8	Pervasive Strong Fe-carb	Moderately magnetic. Secondary 1-2mm Mt along with Fe-carbonate?
20.7 - 21.2	MxF			Weak pervasive limonite (~1%). Clay alteration of feldsp. Gneissic fabric.
		20.8 - 21.2	Selective Repl Strong Clay	Selective Repl Moderate Sericitisation
21.2 - 32.0	MxF			Variably altered gneiss. Discrete zones of intense silicification (23.9-27m). Siliceous intervals are hematitic~0.5%. Limonite on fracture planes. Mafics weakly chloritic. Local fracture controlled clay alteration.
		21.2 - 23.9	Patchy Weak Silicification	Selective Repl Moderate Sericitisation
		23.9 - 27.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
				Replaces Mafics Weak Chlorite
		27.0 - 31.7	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
				Patchy Weak Epidote
		31.7 - 32.0	Pervasive Strong Silicification	
32.0 - 33.5	IV	mass		Massive, fine-grained dacite dyke. Local limonite alteration along fractures and at contacts.
		32.0 - 37.5	Fracture Controlled Weak Clay	
33.5 - 34.7	MxF			Weak clay alteration of felsics. Limonite on fracture planes (0.25%). Chloritization of mafics.
34.7 - 38.0	IV	mass		Massive fine-grained dyke. Mm-scl feldsp phenocrysts (2mm). Relatively intact becoming broken and altered at 33.45m. Limonite intensifying at 33.45m along with pervasive clay alteration.
		37.5 - 43.2	Pervasive Strong Clay	Replaces Mafics Moderate Chlorite
38.0 - 40.5	HU			Zone. Moderate pervasive limonite (~2-3%). Strong clay alteration. Weak preservation of foliation in part. Discrete intervals with preserved siliceous clasts- ~2-4mm diameter- rounded with limonitic clay matrix (matrix supported).
40.5 - 41.1	YO	bxm		Zone. From 40.45-40.8m- large clasts- subrounded-1-3cm. Pervasive limonite (~3%) in matrix and clasts. Clasts are largely clay altered. Weak calcite around clast boundaries. From 40.8-41.1- mature YC- clasts are rounded and 2-3mm in diameter, limonite (~3%)-clay matrix supported.

41.1 - 45.5	AmBtS	mud	Strong clay alteration- pervasive. Rock is unconsolidated in part. Preserved mafic minerals/foliation. Patchy hematite (~0.5%). Patchy limonite (~0.5%).			
43.2 - 55.2			Replaces Mafics Weak Chlorite	Patchy Moderate Silicification	Fracture Controlled Weak Clay	Discrete // bands of silicification, 10-20cm wide
45.5 - 55.2	MxM		Variably altered mafic schist dominated. Rare intercalated felsics that appear preferentially silicified. Weak chloritization of mafics. Trace limonite- fracture controlled (~0.25%). Patchy hematite in silicified intervals (~0.25%).			
55.2 - 85.3	MxM		Variably altered mafic schist dominated with rare silicified felsic gneiss. Interval is characterized patchy epidote alteration and chloritization of mafics. From 77.36-78.8m and 81.4-85m- zone of intense silica alteration. From 81.3-81.6- strong clay alteration along fractures- green-white colouring with minor hematite. Silicified intervals have hairline albite? veins- with albitic halos ~3mm wide. From 85.1- end of unit- interval is bleached- silica +albite?			
55.2 - 63.2			Patchy Moderate Epidote	Patchy Weak Calcite	Replaces Mafics Weak Chlorite	
63.2 - 74.0			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Clay	Discrete // bands of silicification, 10-20cm wide
74.0 - 81.4			Patchy Moderate Epidote	Patchy Moderate Silicification	Fracture Controlled Weak Clay	
81.4 - 85.0			Pervasive Strong Silicification	Fracture Controlled Weak Clay	Replaces Mafics Moderate Chlorite	
85.0 - 85.3			Pervasive Strong Sericitisation	Pervasive Moderate Albite	Pervasive Moderate Silicification	
85.3 - 85.6	PyF	fgrn	Zone. Strongly altered. Dark grey. Pervasive fg- si+ser+sooty py~5000ppm As. Preserved feldspar clasts? 2-3mm. Unoxidized with weak limonite veining. Fg brassy py disseminated throughout.			
85.3 - 85.9			Replaces Felsics Moderate Sericitisation	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	
85.6 - 87.4	HU		Zone. Pervasive limonite 5%. Strong pervasive clay alteration. Rare mm-scale preserved Qz clasts, unsure if clasts are Vn material or silicified wall rock. Unoxidized windows of Fgr sooty Py+Ser+Sil with stockwork of Lim. veinlets from 86.9 to 87.2m.			
85.9 - 87.7			Pervasive Strong Clay	Patchy Weak Sericitisation		
87.4 - 88.4	MV	bxi	Opaque white Qz Vn. Strongly fractured, no clast rotation. Weakly limonitic clay veinlets. Darker grey Qz patches, some with Fgr Py			
87.7 - 88.9			Fracture Controlled Moderate Clay		In Qz Vn	
88.4 - 90.6	AmBtS		Zone. Patchy Lim-dominated oxidation, 3-5% with pervasive clay alteration. Unoxidized windows with Ser, silica & sooty Py. Local bleaching. All cut by stockwork Lim stringers			
88.9 - 90.6			Fracture Controlled Moderate Clay	Pervasive Moderate Sericitisation	Patchy Moderate Albite	
90.6 - 91.4	AmBtS	mud	Weak Zone- shoulder. Strong pervasive clay alteration. Unconsolidated in part. Preserved foliation and mafics. Patchy limonite (1-2%).			
90.6 - 92.9			Pervasive Strong Clay	Patchy Moderate Epidote	Selective Repl Moderate Chlorite	
91.4 - 93.0	AmBtS		Strongly clay altered. Unconsolidated in part. Mix of clay and chlorite giving clay on fracture planes a bright green colour.			
92.9 - 97.7			Selective Repl Weak Leucoxene	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Epidote	
93.0 - 97.7	AmBtS	mgrn	Very weakly altered. Fresh. Fg-mg. Competent/unfractured. Very fine leucones? Disseminated throughout.			
97.7 - 106.2			Patchy Strong Silicification	Selective Repl Moderate Leucoxene	Patchy Weak Epidote	Silicification of leucosomes. Disseminated leucoxene- after ?ilmenite? Ti-magnetite-fg
97.7 - 106.2	MxM		Patchy silicification throughout- stronger in felsic intervals. Cross-cutting hairline-calcite veins throughout. Leucoxene disseminated throughout the mafic components. Patchy epidote in mafics.			
106.2 - 128.8	MxF	mgrn	Poorly developed gneissic banding. Grungy appearance. Variably altered. Patchy chlorite + epidote alteration. Hematite on fractures. From 116.5-117.2m-very broken ground.			
106.2 - 128.8			Selective Repl Strong Sericitisation	Vein Seldedge Moderate Epidote	Patchy Moderate Silicification	Hairline epidote stringers throughout.
128.8 - 129.1	HU		Zone- minor discrete HU. Strongly limonitic/clay altered (~3%). Majority unconsolidated.			
128.8 - 129.0			Pervasive Strong Clay			
129.0 - 129.6			Selective Repl Strong Sericitisation	Vein Seldedge Moderate Epidote	Selective Repl Weak Clay	
129.1 - 129.5	MxF	mgrn	Weak alteration. Limonite on fractures (~0.25%).			
129.5 - 130.0	HU		Intense clay alteration. Weak limonite - patchy 1%. White clay dominated. Fracture controlled.			
129.6 - 129.9			Pervasive Strong Clay	Fracture Controlled Weak Chlorite		
129.9 - 132.1			Selective Repl Strong Sericitisation	Patchy Moderate Silicification	Selective Repl Weak Chlorite	
130.0 - 132.0	MxF	mgrn	Hematite + chlorite on fracture planes. Rare epidote stringer veins.			

132.0 - 141.1	MxF	mgrn		Bleached interval- characterized by fg ser+sil+alb pervasive. Patchy silicification. Light grey overall colouring. Blebby brassy pyrite throughout typically overgrowing the foliation. At 137.4m- pyrite (~1%)- growing foliation parallel.			
		132.1 - 141.1	Pervasive	Moderate Sericitisation	Fracture Controlled Weak Clay	Patchy Weak Silicification	bleached interval
141.1 - 145.4	MxF	augn		Weak zone. Increased limonite- disseminated/vein fill (2%), hematite-vn fill (0.5%). Strong clay alteration of fldsp and fracture controlled. Remnant foliation with sericite overgrowing.			
		141.1 - 147.4	Selective Repl	Moderate Clay	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay	
145.4 - 145.6	Ylim	bx		Zone. Polymictic, matrix supported- lim+clay (~5%). Foliation parallel to margins (35 deg to core axis). Clasts are subrounded and consist of opaque qtz vn material and clay altered ?gneiss and range in size from 1-5mm.			
145.6 - 147.4	MxF			Weak zone. Moderate clay alteration of fldsr. Weak limonite veining- weakly disseminated (~0.5%). Clay alteration intensifying to base of interval.			
147.4 - 147.7	FLT	mud		Fault gauge? Very weakly limonitic white clay. Strong clay alteration. Rare <1% preserved qtz grains- sandy.			
		147.4 - 147.7	Pervasive	Intense Clay			
147.7 - 148.1	MxF			Weak zone. Weakly silicified, clay alt of fldspr. Limonite pervasive (~0.5%) with stringers of hematite throughout (~0.5%).			
		147.7 - 160.0	Replaces Felsics	Moderate Clay	Selective Repl Moderate Sericitisation		
148.1 - 148.3	YO	bx		Brecciated limonitic vein. Polymictic- clasts composed of qtz vn material, bleached gneissic wall rock, range in size from 2-5cm, mostly subrounded, no preferred orientation. Matrix supported consisting predominantly of limonitic clay (~5%) and open spaced calcite infill.			
148.3 - 150.2	MxF			Weak zone. Pervasive limonite (~1%). Pervasive clay alteration. Mn dendrites.			
150.2 - 150.4	Ylim	bx		Zone. Very discrete breccia. Strongly limonitic matrix (~5%). Clast supported- polymictic (qtz vn+ wall rock), angular clasts up to 2cm in size. Margins foliation parallel.			
150.4 - 153.9	MxF			Weak zone. Pervasive limonite and fracture controlled (~2%). Sericite overgrowing remnant foliation, clay after fldsp.			
153.9 - 157.1	MxF			Limonite disseminated/fracture controlled (~0.5%)			
157.1 - 160.0	MxF			Weak zone. Minor disseminated hematite (<1%). Moderate pervasive sericite and clay alteration. Limonite disseminated and in vein (~2%). From 157.25-157.28 and 158.1-158.3m- sharp edged, irregular calcite veining with isolated limonitized clasts of wall rock.			
160.0 - 160.7	YO	bx		65cm+ Vn of clast-supported Bx with broken/missing contacts. 70% Mgr angular clasts of limonitized & clay-altered wall rock in 30% Fgr white calcite matrix. Clasts rotated but not stratified or sorted.			
		160.0 - 160.7	Pervasive	Moderate Clay		Clay alteration of Bx clasts	
160.7 - 163.2	MxF			Limonite disseminated/fracture controlled (~0.5%)			
		160.7 - 164.8	Replaces Felsics	Moderate Clay	Selective Repl Moderate Sericitisation		
163.2 - 163.5	YO	bx		40cm Vn of clast-supported Bx. Sharp wavy contacts with Lim stringers along contacts. 90% Mgr-Cgr subrounded clasts of limonitized wall rock. Rims of stronger limonitization on clasts. 10% matrix of white fgr Cte with minor Cgr bladed Cte. Clasts in-situ & unsorted. Matrix mainly in Vns, w Vns & clasts aligned @ ~30TCA.			
163.5 - 164.6	MxF			Gradational contact into more mafic gneiss downhole			
164.6 - 171.0	MxM			Trace fracture-controlled Lim. Trace VFgr diss brassy Py, often tarnished. Minor clay alteration along fractures.			
		164.8 - 168.0	Pervasive	Moderate Silicification	Selective Repl Moderate Sericitisation		
		168.0 - 169.3	Selective Repl	Moderate Sericitisation			
		169.3 - 171.7	Selective Repl	Moderate Sericitisation	Replaces Mafics Moderate Biotite		
171.0 - 175.9	MxM			Limonite disseminated/fracture controlled (~0.5%)			
		171.7 - 175.0	Patchy	Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay	
		175.0 - 175.9	Selective Repl	Moderate Sericitisation	Replaces Felsics Moderate Clay		

175.9 - 176.5	YO	bx	Zone (175.85-176.14m)- younger generation of brecciation (cross-cutting an un-mineralized breccia). Limonite (~3%) matrix supported. Silicified clasts and matrix. Clast are fg, angular, rotated and appear to be vein and silified wall rock. Old breccia(176.14-176.35m)- silicified clasts and matrix, matrix supported. Light grey to white matrix (bleached?). Clasts are silicified wall rock? rounded. Matrix is cut by limonite stringers suggesting it is cut by the limonite breccia.		
		175.9 - 178.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay
176.5 - 178.0	MxF	augn	Weakly limonitic (~0.5%), fracture controlled and disseminated. Moderately fractured. Weak silicification.		
178.0 - 185.1	MxM	augn	Fracture controlled limonite (~0.1%)		
		178.0 - 184.4	Patchy Weak Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay
		184.4 - 185.5	Pervasive Strong Clay	Selective Repl Moderate Sericitisation	
185.1 - 185.5	FLT		MxF rubble & 10% strongly clay-altered gouge		
185.5 - 196.9	MxF	augn	Weak Lim staining on fracs X-cutting foliation		
		185.5 - 196.8	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay
		196.8 - 202.2	Patchy Weak Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay
196.9 - 199.8	MxF	augn	Wk patchy silicification. Wk dissem Lim (0.5%). Wk fracture-controlled Lim (.5%). Broken core/rubble from 197.2-198.0		
199.8 - 200.0	FLT		Rubble & limonite gouge		
200.0 - 208.2	MxF	augn	Wk dissem Lim (~0.25%) & mod frac-controlled/stringer Lim (~1%). Trace Fgr dissem tarnished Py (~.1%). Zones of rubble/broken rock/poor recovery from: 201.1-201.5m, 202.0-202.2m, 203-204.2m, 204.3-204.8m & 205.55-208.2m		
		202.2 - 204.3	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay
		204.3 - 205.8	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay	
		205.8 - 213.4	Selective Repl Moderate Sericitisation	Replaces Felsics Strong Clay	
208.2 - 209.0	Ylim		Broken/rubble/poor recovery from 208.2-208.8m. Strongly clay-altered rounded clasts in limonite matrix clast-supported Bx. 5% disseminated & fracture controlled Lim.		
209.0 - 213.4	MxM	augn	0.1% VFgr dissem tarnished Py, 1% frac-controlled Lim. Mod patchy silicification. Broken core & lost material/poor recovery from 205.8-209.0, 211.2-212.0.		
213.4 - 214.7	FLT		Broken, rubbly core & gouge. Smaller fragments intensely sericitized & clay altered. 3% fracture-controlled Limonite. 0.1% Fgr diss tarnished Py. Some larger fragments pervasively silicified.		
		213.4 - 214.7	Pervasive Intense Clay	Selective Repl Strong Sericitisation	
214.7 - 218.9	MxM		80% strongly fractured mafic gneiss, 20% highly altered rubble/gouge. Very broken core from 216.7-217.7. Abundant gouge from 217.7-218.5. Gneiss is moderately to intensely clay & sericite altered, w ~2% fracture controlled Lim. Gouge is intensely clay-altered w 5% disseminated Lim.		
		214.7 - 217.2	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay	
		217.2 - 221.3	Pervasive Intense Clay	Patchy Weak Sericitisation	
218.9 - 221.3	MxM		Intensely altered to clay. Weak preservation of mafic minerals- defining foliation.- Bts? Weak patchy limonite (0.5%)		
		221.3 - 222.0	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay	
221.3 - 222.0	MxM		Competent mixed mafic gneiss. 0.5% fracture controlled limonite. Clay on fractures.		
		222.0 - 222.5	Pervasive Intense Clay	Selective Repl Weak Sericitisation	
222.0 - 222.5	HU		Weak Zone- Intense clay alteration. Limonite disseminated throughout (1%).		
		222.5 - 223.1	Pervasive Strong Clay		
222.5 - 223.8	Ycarb	bx	Weak zone- 90% clasts, carbonate matrix. Clasts are fg and rounded-limonite and clay altered all rock. Limonite disseminated (~2%). Did not run XRF.		
		223.1 - 223.6	Pervasive Intense Clay	Selective Repl Weak Sericitisation	
		223.6 - 224.2	Pervasive Strong Clay	Selective Repl Weak Sericitisation	

223.8 - 259.8	BtS	Very broken-fault from 223.75-224.15- limonite ~0.5% patchy- unconsolidated- bottom margin of fault zone. From 225.15- into fresh Bts with weak carbonate veining. Weakly chloritized mafics. Second faulted zone (broken zone) starting at 240m-249m- major core loss (239.65-241)- un-mineralized (0.1% fracture controlled limonite). Trace blebby py.	
		224.2 - 265.0	Selective Repl Moderate Sericitisation Fracture Controlled Weak Clay
259.8 - 268.4	MxM	augn	Competent ground. Augen-mafic dominated gneiss. Weak patchy/wispy epidote. Trace disseminated py.
		265.0 - 268.5	Patchy Weak Epidote
268.4 - 275.0	BtS	Chloritic mafic schist. Patchy epidote alteration. Trace disseminated pyrite-euhedral overgrowing foliation. Patchy carbonate.	
		268.5 - 275.0	Patchy Moderate Epidote Selective Repl Moderate Chlorite

Drill Log: CFD0220

Easting	584030.22	Hole Length	272 m	Prospect	Supremo T3	Drill Started	May 28, 2012	Comment
Northing	6973550.66	Azimuth	272 °	Target	T3	Drill Completed	May 31, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist	P Johansson	Core Size	NQ	
Survey method	RTK GPS	Elevation	1049.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 26.0	OVb			Felsic dominated gneiss + muscovite; variably textured; partly augen bearing (overburden down to around 10.45). Heavily oxidized and fractured unit with patchy intervals of weak mineralization (up to As 727 ppm on XRF; 23.80 m). Variably clay altered; intervals of strong pervasive clay (9.80-10.45m, 14.02-14.32m) with no mineralization; Otherwise wk to mod FC clay with lim and hm following clay alteration. 0.25-0.5% FC to local 1% diss lim, as well as local lim replacement of feldspars, 0.25-0.5% FC hm.
		0.0 - 9.8	Pervasive Weak Clay	Fracture Controlled Weak Clay Selective Repl Weak Sericitisation
		9.8 - 10.5	Pervasive Strong Clay	
		10.5 - 14.0	Pervasive Weak Clay	Fracture Controlled Weak Clay Selective Repl Weak Sericitisation
		14.0 - 14.3	Pervasive Strong Clay	
		14.3 - 26.0	Replaces Felsics Weak Clay	Fracture Controlled Moderate Clay
26.0 - 33.3	MxM	augn		Mafic dominated augen gneiss; +muscovite. Strong patchy silicification, weak FC clay altn, weak sericite and chlorite altn. 0.25% FC lim, 0.1% FC hm; 0.1% lim replacing feldspars. Rare (0.01%) brassy pyrite, 0.1% oxidized pyrite.
		26.0 - 33.3	Patchy Strong Silicification	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite
33.3 - 33.4	FC	mgrn		Intermediate intrusive. Cross-cutting foliation of surrounding lithologies, margins 55 degrees to LCA (no ori). Margins are weakly brecciated, with dark sub-angular quartz clasts. Later stage veinlets of quartz cross-cutting dyke. Weak silicification, weak chlorite and sericite altn. Oxidation of wall rock seem to have occurred at a later stage since oxidation fronts are bleeding into the dyke. 0.25% lim.
		33.3 - 33.4	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite Selective Repl Weak Sericitisation
33.4 - 33.9	MxM	augn		Mafic dominated augen gneiss; + muscovite. Strong patchy silicification, weak FC clay altn, weak sericite and chlorite altn. 0.25% FC lim, 0.1% FC hm; 0.1% lim replacing feldspars. Rare (0.01%) brassy pyrite, 0.1% oxidized pyrite.
		33.4 - 33.9	Patchy Strong Silicification	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite
33.9 - 34.7	MxM			Zone; mafic dominated gneiss + muscovite. Foliation still visible. Strongly silicified, weak FC clay. Up to 2% diss.FC lim and 4% diss/FC; massive bleeding of lim and hm out of fractures. XRF As 2688 at 34m
		33.9 - 34.7	Pervasive Strong Silicification	Fracture Controlled Weak Clay
34.7 - 38.5	MxF	augn		Felsic dominated augen gneiss, + muscovite. Mod patchy silicification, weak FC clay, weak chlorite altn. 0.25% FC lim, 0.25% FC hm, 0.1% partly oxidized pyrite cubes.
		34.7 - 38.5	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite Fracture Controlled Weak Clay
38.5 - 38.7	FC	mgrn		Intermediate intrusive. Medium grained, mod foliated; sub-parallel to foliation of surrounding lithologies, margins 25 (upper) and 40 (lower) degrees to LCA (no ori). The sheared margins are moderately brecciated, with dark sub-angular quartz clasts and deformed wall rock within the shear zone. Mod silicification, weak chlorite and sericite altn. Oxidation of wall rock seem to have occurred at a later stage since oxidation fronts are bleeding into the dyke. Pieces of a quartz vein with partly altered rims are partly floating within the dyke; suggesting the quartz was a part of the wall rock that was included in the dyke at the time of intrusion. 0.25% lim, 0.1% py.
		38.5 - 38.7	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite Selective Repl Weak Sericitisation
38.7 - 40.6	MxF			Weak zone; felsic dominated gneiss +/- muscovite . Foliated. Mod silicification, wk clay altn; FC and replacing feldspars. Up to 0.5% diss lim (replacing feldspars), 0.1% hm. Silicification increases from around 40m towards a contact with what looks to be clasts of fin-grained dyke (dacite) material at 40.32 m (core probably just shaved the main). The contact is characterized by weak brecciation of the dyke itself, weak shearing of the wall rock and limonitic veinlets. Possibly small windows of sooty sulphides from 40.32-40.38m. Unit then continues down to 40.56, possibly mixed with more dyke material, with limonite increasing towards 1%.
		38.7 - 40.0	Patchy Weak Clay	Pervasive Moderate Silicification
		40.0 - 40.6	Patchy Strong Silicification	Patchy Weak Clay

40.6 - 41.0	HU			Zone; highly clay altered unit, possibly altered dacite mixed with wall rock. Mottled texture, locally weak brecciation; with sub-angular clasts of quartz and feldspar. Strong clay alteration. 3% diss lim, 1.5% diss hm, as well as additional lim-hm-clay in multi-directional veinlets and stringers.
40.6 - 41.0			Pervasive Strong Clay	
41.0 - 41.4	HU	bx	Fol-wk	Zone; possibly altered and weakly brecciated wall rock (FG?), weak foliation still present. Mod silicification of intact rocks and breccia clasts (sub-angular clasts, wall rock), mod clay altn of feldspars and in fractures. 1% lim replacing pyrite, 0.5% FC hm and in veinlets parallel to cross-cutting relict foliation. The contact towards the underlying unit at 41.38m contains silicified, sub-rounded quartz clasts. 1% diss lim, 0.5% diss hm, as well as hm in veinlets and stringers.
41.0 - 41.4			Patchy Moderate Silicification	Fracture Controlled Moderate Clay
41.4 - 41.9	HU			Zone; possibly highly clay altered dacite, mottled texture. Rare highly lim-clay altered clasts of feldspar in lim-hm-clay matrix. Multi-directional clay-lim-hm veinlets and stringers. 4% diss lim, 3% diss hm.
41.4 - 41.9			Pervasive Strong Clay	Selective Repl Moderate Clay
41.9 - 42.7	HU	bx		Zone; highly clay altered unit consisting of a lim-hm-clay matrix supported breccia with mineralized sub-angular mineralized clasts of highly altered and rocks (wall rock + dacite?), including some weakly silicified clasts. Unit has frequent lim-hm-clay veinlets and stringers, multi-directional. 5% diss lim, 2% diss hm, partly in veins and stringers.
41.9 - 42.7			Pervasive Strong Clay	Selective Repl Weak Silicification
42.7 - 50.0	FG	silc		Zone; highly mineralized felsic gneiss with muscovite. Unit is weakly silicified, weak patchy sericite, weak FC clay, lim-clay-hm alteration of feldspars and pyrite appears locally as a vuggy texture. Weak FC calcite from 47.18-48.2m. Discreet windows of unoxidized rocks appears from top of unit down to (mm to 3 cm wide) holding patches of sooty sulphides with disseminated brassy pyrite. Unit is also frequently cut by mm to cm scale quartz and sulphide veins and veinlets, commonly with limonitic selvedge, crosscutting foliation. At 47-47.26m a 0.5cm wide quartz vein show brecciated margins as well as limonitic selvedge. A 2mm wide quartz veinlet around 48m is associated with small windows of sooty sulphides. Up to 3% diss lim and 2% diss hm, from intense bleeding out of fractures. 1% FC lim and hm. 1% sooty sulphides.
42.7 - 47.2			Pervasive Weak Silicification	Fracture Controlled Weak Clay
47.2 - 48.2			Fracture Controlled Weak Calcite	Pervasive Weak Silicification
48.2 - 50.0			Pervasive Moderate Silicification	Fracture Controlled Weak Clay
50.0 - 73.3	FG	augn		Felsic gneiss; variably altered, augen-bearing, +muscovite. Intervals of moderate silicification. Silicification is weaker in intervals with moderate FC clay and increased lim and hm (0.5% FC lim, 0.25% FC hm). Weak to mod chlorite altn, weak to mod sericite altn. Clay-limonite altn of feldspar is consistent throughout unit (0.1% lim). Overall 0.25% FC lim and 0.1% FC hm, as well as local lim+hm veins selvedge. 0.1% diss brassy to partly oxidized pyrite cubes, oxidized cubes creates local vuggy texture. 1-2% milky, vuggy to porcelainic quartz veins (mm scale up to 4 cm wide), locally with limonitic selvedge. Fault gauge at 66.95-67.05m (BtS?). Silicification increasing to strong from around 69m to the bottom of the unit. Minor BtS segregation from 66.95m.
50.0 - 52.5			Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
52.5 - 53.4			Pervasive Weak Silicification	Fracture Controlled Moderate Clay
53.4 - 55.0			Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
55.0 - 55.1			Fracture Controlled Moderate Clay	Pervasive Weak Silicification
55.1 - 55.9			Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
55.9 - 58.6			Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
58.6 - 63.5			Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
63.5 - 65.0			Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
65.0 - 65.6			Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
65.6 - 66.3			Fracture Controlled Moderate Clay	Replaces Mafics Weak Chlorite
66.3 - 69.0			Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
69.0 - 73.3			Pervasive Strong Silicification	

73.3 - 84.0	MxF	augn	Felsic dominated gneiss + muscovite; locally augen-bearing; increased mafic segregation. Unit includes a weak zone at 76.6-77.7m (XRF As 840 at 77.25m), with more pervasive FC clay and associated FC lim and hm (0.5% lim, 0.25% hm). The margins of this interval are weakly sheared. Overall mod silicification in felsic intervals, weak FC clay, patchy weak sericite altn; 0.25% FC lim + lim-clay locally replacing feldspars, 0.1% FC hm, 0.1% pyrite blebs. 1% 0.25-4cm wide milky quartz veins, largely foliation parallel, with local limonitic selvage.		
			73.3 - 76.6	Patchy Moderate Silicification	Fracture Controlled Weak Clay Replaces Mafics Weak Chlorite
			76.6 - 77.6	Fracture Controlled Moderate Clay	Selective Repl Weak Sericitisation
			77.6 - 84.0	Patchy Moderate Silicification	Fracture Controlled Weak Clay Replaces Mafics Weak Chlorite
84.0 - 108.2	MxM		Mafic dominated gneiss, locally augen-bearing. BtS intervals: +/- amphibole, weak to mod chlorite altn, weak epidote. Mod silicification in more felsic intervals. 0.1% FC lim associated with local weak FC clay, 0.1% blebby pyrite. 2% 0.5-5cm wide milky quartz veins, sub-parallel to foliation. Larger quartz vein at 92.43-92.63m, 9 cm wide cross-cutting foliation.		
			84.0 - 108.2	Patchy Moderate Silicification	Fracture Controlled Weak Clay Selective Repl Weak Epidote
108.2 - 151.2	MxF		Felsic dominated gneiss, locally augen-bearing, +/- muscovite. Strong silicification throughout, local vuggy texture. More fractured from 110m, with calcite veins. Overall 0.1% FC lim and hm. From 130-141m the unit is more oxidized, with 0.25% FC lim and 0.25% FC hm, associated with weak FC clay. 0.1% diss to blebby pyrite, locally partly oxidized. Increasing sulphide oxidation down towards contact with underlying intrusive unit, with up to 1% FC lim and hm bleeding out of fractures from 150m to end of unit.		
			108.2 - 109.8	Pervasive Moderate Silicification	
			109.8 - 130.0	Pervasive Strong Silicification	
			130.0 - 136.0	Patchy Moderate Silicification	Fracture Controlled Weak Clay
			136.0 - 151.2	Patchy Strong Silicification	
151.2 - 158.2	FC	mgrn	Intermediate intrusive. Upper contact obscured by oxidation. Composition: 60% plagioclase, 20% quartz, 10% biotite, 10% amphibole. Weak to mod sil-ser alteration, weak chlorite altn of amphibole. 0.1% FC lim and hm, 0.1% brassy pyrite. 0.1% carbonate veins (up to 1 cm wide).		
			151.2 - 158.2	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation Selective Repl Weak Chlorite
158.2 - 160.2	HU	bxm	Zone; highly clay altered unit, possibly altered intermediate intrusive. Unit contains a YO breccia from 158.40-159.25; lim-clay-carbonate matrix, partly weakly silicified clasts (possibly intrusive clasts), sub-angular to sub-rounded. Multi-directional lim-hm-carb veinlets (0.25%). 4% lim and 1.5% diss to FC hm.		
			158.2 - 160.2	Pervasive Strong Clay	Pervasive Moderate Calcite
160.2 - 169.0	FC	mgrn	Weak zone; intermediate intrusive. Intervals with weak foliation from around 167m. Strong sil-ser alteration, weak chlorite altn. Intervals of stronger sulphide oxidation, with up to 1% FC lim, 0.5% FC + vein hm, 0.1% brassy pyrite. 0.1% carbonate veining (mm scale)		
			160.2 - 169.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation Selective Repl Weak Chlorite
169.0 - 170.8	FC	mgrn	Zone; intermediate intrusive, mod to strongly clay altered, partly vuggy texture. Discreet intervals of brecciation (169.55-169.59m, 169.90-169.96m), with sub-angular silicified clasts in a lim-clay-carb matrix, brecciation possibly associated with carbonate veining. 2% diss lim, 0.5% FC hm. 0.1% carbonate veins (mm scale).		
			169.0 - 170.8	Patchy Weak Silicification	Patchy Weak Sericitisation Pervasive Moderate Clay
170.8 - 181.2	FC	mgrn	Intermediate intrusive. Strong sil-ser alteration, decreasing to weak down to 176m, strong clay altered interval at 178.9-179.4m (+ mod chlorite altn), sil-ser alteration increasing to strong from 179.4m down to lower contact. Carbonate veining increases from the top of the unit down towards a shear zone at 175.5-177m (weak shear, crenulations), then decreasing down towards lower contact. Lower contact: sharp intrusive contact at ~15TCA, later cut by carbonate vein at 20 degrees TCA. 0.1% FC lim and hm.		
			170.8 - 176.0	Pervasive Strong Silicification	Selective Repl Strong Sericitisation Replaces Mafics Weak Chlorite
			176.0 - 178.9	Pervasive Weak Silicification	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite
			178.9 - 179.4	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite
			179.4 - 181.2	Pervasive Strong Silicification	Selective Repl Strong Sericitisation Replaces Mafics Weak Chlorite
181.2 - 183.9	BtS	Fol-mod	Zone; biotite schist. Strong sil-ser alteration. 1% lim, 0.75% hm, largely fracture controlled; 0.1% blebby pyrite. Frequent LCA parallel to cross-cutting carbonate veins and veinlets, some of which are associated with weak brecciation with angular clasts of wall rock. Calcite veins are also locally cross-cutting older opaque quartz veins (up to 1 cm wide).		
			181.2 - 183.9	Pervasive Strong Silicification	Selective Repl Strong Sericitisation Replaces Mafics Weak Chlorite

183.9 - 186.1	YO	matx	Zone; clay-carbonate matrix breccia, strongly overprinted by oxidation and clay + sericite alteration. Silicified in an unoxidized window (184.56-184.73m), where weakly silicified subrounded to angular clasts of foliated wall-rock and dark quartz grains are visible. XRF on meter marks run at As 2245-2859 ppm (184m and 185m), spot check at 185.35m ran at 6943 ppm (within main oxidized interval). Abundant stringers and veins/veinlets of lim/hm/carb, some of the larger (up to 2 cm wide) calcite veins contain brecciated clasts. Brecciation decreases from around 185.60, through a less oxidized window containing a 3 cm wide partly brecciated calcite veins with abundant dark quartz clasts. Up to 3% diss lim, 1% FC hm, 0.05% blebby pyrite in unoxidized windows.		
183.9 - 186.1		Pervasive Strong Clay	Selective Repl Strong Sericitisation	Pervasive Strong Calcite	
186.1 - 188.8	BtS	pblst	Weak zone; biotite-feldspar schist. Local moderate sil-ser alteration in less oxidized intervals. Otherwise weak FC clay+calcite altn, as well as clay-lim replacing feldspars, weak chlorite altn. 0.5% FC lim and hm. XRF As 1702 ppm at 187m.		
186.1 - 188.8		Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite	
188.8 - 201.0	BtS	pblst	Biotite-feldspar schist, locally porphyroblastic. Moderate sil-ser altn, local mod epidote, mod chlorite, local mod clay (190.8-191m). Weak shear zone at 191-192m around an irregular, up to 15 cm wide milky quartz vein. More oxidized interval at 196.80- 198m. 0.25% FC lim, 0.1 blebby pyrite. 0.1% sooty sulphides at the end of the unit (198-201m).		
188.8 - 190.8		Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
190.8 - 191.0		Pervasive Moderate Clay			
191.0 - 196.8		Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
196.8 - 198.0		Fracture Controlled Weak Clay	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	
198.0 - 201.0		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation		
201.0 - 202.5	BtS		Zone; biotite schist + crackle breccia. Unit includes an upper unoxidized interval (201-202m), with mod to strong silica-sericite altn, up to 2.5% sooty sulphides, 0.1% FC lim and hm, abundant calcite veining. A sub-unit of immature carbonate-clay crackle breccia is located at 201.46-202.45m, brecciation decreases in intensity from 201.75m but continues into a more oxidized interval (201.95-202.45m), following calcite veining. Breccia is clast supported and consists of unrotated clasts of wall rock in a carbonate-clay matrix (weakly calcitic), unconsolidated at 201.68-201.75m. Unit is oxidized and weakly clay altered (FC) from 201.95m, with up to 1% FC lim and 0.5% FC hm.		
201.0 - 202.5		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay	
202.5 - 205.3	BtS		Zone; biotite schist + minor silicified-clast breccia intervals. Strong sil-ser altn visible in unoxidized windows holding 0.1% sooty sulphides. Otherwise weak to mod FC clay and modpatchy silicification in a strongly oxidized zone reaching down to 204.85m. Quartz vein fragments at 203-203.10m. Short intervals (~5cm, 203.40-203.44m, 204-204.05m) of silicified-clast breccia, with angular strongly silicified clasts in a lim-clay matrix (~50% clasts, up to 1 cm). Unit is unoxidized from 204.85-205.33, with strong sil-ser altn, 1% sooty sulphides and 0.1% brassy pyrite.		
202.5 - 204.9		Fracture Controlled Weak Clay	Patchy Moderate Clay	Patchy Moderate Silicification	
204.9 - 205.3		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation		
205.3 - 228.0	MxM		Mafic dominated gneiss. Mod patchy silicification, mod chlorite altn, local mod epidote (215-222m). 0.1% blebby pyrite, local FC hm.		
205.3 - 215.0		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite		
215.0 - 222.0		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote	
222.0 - 228.0		Patchy Moderate Silicification	Moderate Chlorite		
228.0 - 230.0	SZ	Crenul	Shear zone; moderately sheared biotite schist, crenulated. Mod chlorite altn, mod patchy clay altn.		
228.0 - 230.0		Replaces Mafics Moderate Chlorite	Patchy Moderate Clay		
230.0 - 234.0	BtS		Biotite schist. Mod sil-ser altn, local weak FC clay. 0.1% FC lim, trace sooty sulphides towards end of unit.		
230.0 - 234.0		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation		

234.0 - 236.3	BtS			Zone; biotite schist. Strong sil-ser alteration, weak carbonate in fractures and veinlets. Sooty sulphides increasing from trace at 234m to disseminated up to 3%. XRF at meter marks: 2570 ppm at 235m, 2029 at 236m; spot check at 235m meters at 31 200 ppm. 0.1% FC lim. 0.25% vein quartz, 0.1% carbonate veins.
		234.0 - 237.3	Pervasive Strong Silicification	Selective Repl Strong Sericitisation
236.3 - 237.0	YO	bxm		Zone; clay-matrix breccia, matrix supported. Strong sil-ser alteration. Subrounded to rounded silicified clast of BtS wall rock in a cream to grey colored clay matrix. Breccia is incohesive 236.3-236.52m. 3% sooty sulphides; on breccia clasts, as fine-grained material in matrix, as well as in sulphide veinlets within the breccia. Spot check XRF at 236.8m at 23400 ppm.
237.0 - 237.2	BtS			Zone; biotite schist. Strong sil-ser alteration, weak carbonate in fractures and veinlets. 3% sooty sulphides in disseminated in discrete intervals.
237.2 - 239.6	BtS		Fol-str	Patchy epidote alteration throughout. Biotite altering to chlorite. Pyrite to 0.5% blebby and euhedral x-stals. Strongly foliated.
		237.3 - 239.6	Patchy Strong Epidote	Replaces Mafics Moderate Chlorite
239.6 - 242.6	RU		Crenul	Shear zone. Steepening of foliation. Talc with remnant chlorite after biotite. Weakly calcareous. White mica throughout defining foliation. Micro folding.
		239.6 - 242.6	Selective Repl Moderate Talc	Replaces Mafics Moderate Chlorite
		242.6 - 249.8	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite
				Selective Repl Moderate Sericitisation
				Moderate Silicification
242.6 - 249.7	MsS			Muscovite defining foliation- weakly chloritic in part. Qtz+fldsp. Transitional contact from overlying mafic unit.
249.7 - 259.8	BtS			Chloritic mafic schist. Package varies compositionally with coarser intervals more quartz-rich. Pyrite disseminated throughout (~0.25%) Euhedral x-stals. Loss of epidote.
		249.8 - 272.0	Selective Repl Moderate Chlorite	Patchy Weak Epidote
				Fracture Controlled Weak Clay
259.8 - 262.0	SZ		Fol-str	Shear zone. Micro-folding, foliation steepening. Chloritic.
262.0 - 272.0	BtS			Chloritic, patchy epidote alteration (weak) with minor epidote veining. Trace disseminated py. Grain size variation (fg-mg). Harline carbonate veining.

Drill Log: CFD0221

Easting	584276.66	Hole Length	273 m	Prospect	Supremo T3	Drill Started	May 28, 2012	Comment
Northing	6974201.32	Azimuth	270 °	Target	T3	Drill Completed	May 31, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1257.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 2.8	OVb			
		0.0 - 37.0	Patchy Moderate Sericitisation	Selective Repl Moderate Sericitisation Replaces Mafics Moderate Chlorite
2.8 - 47.0	MxF	augn		Very homogenous in appearance. Moderate sericite alteration and chlorite-preferential to foliation-after bt- varies? Trace py preferential to melanocratic intervals with weak epidote. From 37.1-42m- More broken with weak disseminate/fracture controlled limonite (~0.5%). Rare chlorite veins. Weak hematite throughout (~0.25%) after bt.
		37.0 - 43.0	Patchy Strong Silicification	Pervasive Moderate Albite Selective Repl Moderate Sericitisation
		43.0 - 47.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
47.0 - 69.0	MxF	augn		Variably altered. Becoming increasingly siliceous down-hole Alternating fronts of hem-dominated vs. lim-dominated. Sericite overgrowing foliation. Weak patchy epidote-rare.
		47.0 - 68.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation Replaces Mafics Weak Chlorite
		68.0 - 71.5	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
69.0 - 82.4	MxF	augn		Increasingly altered. Silicified. Limonite veining (~0.5%). Weak patchy epidote. Clay alteration of fidspr in part. Patchy hematite-(after py and biotite)- 0.5%.
		71.5 - 83.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation Replaces Felsics Moderate Albite
82.4 - 87.2	MxF			Structure- Start of very broken ground. Shoulder of zone. Bleached- Si + alb + clay. Limonite on fractures and in vein (0.5%). Mn on fractures-dendritic.
		83.0 - 87.3	Replaces Felsics Strong Albite	Replaces Felsics Strong Clay Selective Repl Moderate Sericitisation
87.2 - 90.1	FLT			Weak zone. Very rubbly ground. Limonite disseminated but largely fracture controlled (~2%). Localized HU-very discrete zones. Clay alteration throughout. Narrow 10cm wide very fg mafic interval (dyke?) from 87.7-87.8m with a preserved foliation. Occasional silicified fragments in rubble.
		87.3 - 90.2	Pervasive Strong Clay	Patchy Moderate Silicification
90.1 - 201.1	MxF			Fresh gneiss. Limonite on fractures (~0.25%). From 96.3m- weakly disseminated limonite (0.5%). Narrow intercollated mafic zonation
		90.2 - 158.7	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
		187.5 - 197.1	Replaces Mafics Weak Clay	Patchy Moderate Silicification
201.1 - 212.0	FG	augn	Fol-str	Augen bearing gneiss with moderate selective replacement clay altnof felsics, minor FC and disseminated limonite.
		207.3 - 212.0	Selective Repl Weak Clay	Replaces Felsics Weak Albite
212.0 - 213.8	FG	augn	Fol-str	Mineralized felsic gneiss, moderate clay altn, 2% limonite, 1% hematite, mod coarse muscovite altn.
213.8 - 224.3	DIOR	fgrn		Mineralized diorite/dacite dike. Local HU, windows of recognizable textures. Strong to intense clay replacement, mottled sulphide oxidation texture, patchy 3-5% limonite and fracture controlled hematite. Local discrete Ylime bx veins.
		214.0 - 224.3	Replaces Felsics Strong Clay	Patchy Weak Silicification

224.3 - 224.9	YC	bxm	Subangular medium grained silicified FC and FG clast supported bx.Moderate clay and silica altn of matrix. Local HU.		
		224.3 - 225.6	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	
224.9	225.2	HU	silc	Intense silicified unit, moderate to strong clay altn of lower contact with mineralized FG. Weak FC hematite.	
225.2	227.2	FG	cgrn	Fol-str	Mineralized FG, moderate to strong silicification, weak clay replacemtn of fspars. 2% disseminated hematite, 1% limonite.
			225.6 - 232.0	Weak Silicification	
227.2	273.0	FG	band	Felsic gneiss, weak to moderate clay replacement, patchy moderate silicification. Minor 0.5% diss limonite and weak fracture controlled limonite.	
			232.0 - 235.0	Replaces Felsics Moderate Clay	
			235.0 - 241.0	Replaces Felsics Moderate Clay	Pervasive Moderate Silicification Selective Repl Weak Sericitisation
			247.2 - 270.8	Selective Repl Weak Clay	Patchy Moderate Silicification Selective Repl Weak Sericitisation

Drill Log: CFD0222

Easting	584929.04	Hole Length	230 m	Prospect	Double Double	Drill Started	May 28, 2012	Comment
Northing	6973253.38	Azimuth	180 °	Target		Drill Completed	May 31, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	GNewton	Core Size	NQ	
Survey method	RTK GPS	Elevation	1085 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			MxF pebbles & cobbles
9.0 - 27.1	MxF	augn		Very broken & weathered rock throughout. Gneissosity overprinted locally by Mgr white mica growing // foln. Minor Lim staining on fractures (~0.25%). Rubble & lost material from 11.6-12.0, 13.4-14.5, 15.6-15.9, 16.2-16.5, 18.4-18.8 & 23.3-23.9. Minor VFgr diss Hm locally. More mafic interval 23.8m-34.25m: felspar-phyrlic mafic dyke or large melanosome in gneiss.
		9.0 - 11.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		11.0 - 13.5	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		13.5 - 14.3	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation Strongly altered to rubble/gouge
		14.3 - 17.5	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		17.5 - 18.8	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		18.8 - 27.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		27.0 - 27.4	Pervasive Intense Clay	Selective Repl Moderate Sericitisation Strongly altered to rubble/gouge
27.1 - 27.4	HU			Orange gouge/intensely clay-altered & limonitized rock with <5cm fragments of strongly clay-altered MxF. 5% diss Lim overall.
27.4 - 28.5	MxF	augn		Very broken & weathered rock throughout. Foln steepening from ~50 TCA to ~25 TCA & appearing more stretched/strained from 26-28.5m. Minor Qz stringers // foln in steepened lower portion of interval. Gneissosity overprinted by Fgr-Mgr white mica growing // foln. ~2% Lim along fractures & in stringers // foln. ~0.5% diss Hm after Fgr-Mgr Py throughout.
		27.4 - 30.5	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
28.5 - 30.5	SZ			Gneissosity at low angle TCA appears stretched & strained. Gneissosity is overprinted by Fgr-Mgr white mica growing // foln. ~1% Lim as foln-// & foln-cutting veins. ~0.5% diss Fgr Hm after Fgr-Mgr Py crystals.
30.5 - 31.9	SZ			Sheared/strained & strongly altered gneiss: moderate patchy silicification, moderate-strong clay alteration of felsics. Fgr-Mgr white mica overgrowing foliation. Very broken & weathered rock throughout, mostly rubble. ~3% diss Lim throughout. ~0.5% diss Fgr Hm.
		30.5 - 34.0	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation Strongly altered/rubbly locally. Clay alteration of feldspars. Fg Mgr white mica overgrowing gneissosity.
31.9 - 32.1	HU			Orange gouge/intensely clay-altered & limonitized rock. 5% Diss Lim throughout.
32.1 - 34.0	SZ			Sheared/strained gneiss. Moderate patchy silicification, moderate-strong clay alteration of felsics & Fgr-Mgr white mica overgrowing foliation. ~3% disseminated & fracture-controlled limonite. ~0.25% Fgr diss Hm. Minor rounded clasts of broken opaque white Qz Vn.
34.0 - 35.1	MxF			Moderate patchy silicification, strong clay alteration of felsics & Fgr-Mrg white mica overgrowing foln. ~1% fracture-controlled Lim.
		34.0 - 34.5	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		34.5 - 37.1	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Moderate Sericitisation Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.

35.1 - 35.9	Ycarb	Clast	Moderately patchily silicified clast supported breccia with 90% subrounded to rounded Mgr strongly clay-altered & Qz Vn fragment clasts in 10% aphanitic Lim & carbonate matrix. Clasts rotated & unsorted/unaligned.			
35.9 - 37.1	SZ	musc	Sheared/strained gneiss. Moderate-strong pervasive silicification, moderate clay alteration of felsics & mod-strong Fgr-Mgr white mica overgrowing foliation. ~1% fracture-controlled & disseminated Lim. ~0.25% Fgr diss Hm after Py.			
37.1 - 37.3	MxF		Intensely clay-altered rubbly gneiss w 2% fracture-controlled Lim			
		37.1 - 37.7	Pervasive Intense Clay	Selective Repl Moderate Sericitisation		Strongly altered/rubbly locally. Clay alteration of feldspars. Fg Mgr white mica overgrowing gneissosity.
37.3 - 46.5	MxF	augn	Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.25% fracture controlled Lim, ~0.25 % dissem Lim. Discrete interval of strained/stretched foliation with ~20% Qz stringers // foln from 43.1-44.7			
		37.7 - 40.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		40.8 - 46.6	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation		Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
46.5 - 46.6	Ylim		Limonite matrix-supported breccia. 10cm vein with way contacts. 50% aphanitic, limonitic matrix, 50% polymict rotated, rounded Fgr clasts, mainly of altered wall rock. No fabric/sorting. 2% diss Lim in matrix & some clasts.			
46.6 - 48.3	MxF		Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.25% fracture controlled Lim, ~0.25 % dissem Lim. 0.25% sooty sulphides in foln-// stringers			
		46.6 - 49.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
48.3 - 49.0	YC	matx	~50cm wide Vn of Lim-matrix supported Bx. Wavy planar contacts // foln. 30% Mgr-Cgr subangular fragments of Qz Vn & silicified wall rk in aphanitic orange matrix. Inequant clasts roughly aligned & matrix foliated // contacts. 1% VFgr black sooty sulphides concentrated around clasts. 3% diss Lim in matrix & along fractures in clasts			
49.0 - 49.8	MxF		Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.25% fracture controlled Lim, ~0.25 % dissem Lim. 0.25% sooty sulphides in foln-// stringers			
49.8 - 50.0	HU		Orange, intensely clay-altered rubble & gouge. 5% diss Lim.			
		49.8 - 50.0	Pervasive Intense Clay	Selective Repl Moderate Sericitisation		Strongly altered to rubble/gouge
50.0 - 52.4	MxF		Cut by low-angle broken Qz Vns up to 3cm across. Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.25% fracture controlled Lim, ~0.25 % dissem Lim. 0.5% sooty sulphides in foln-// stringers & in patches around margins of Qz Vn fragments			
		50.0 - 52.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
		52.0 - 54.0	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
52.4 - 54.0	MxF		Cut by low-angle broken Qz Vns up to 3cm across. Strong clay alteration of felsics. Moderate Fgr white mica overgrowing foliation. ~1% fracture controlled Lim, ~1 % dissem Lim. 1% sooty sulphides in foln-// stringers & around margins of Qz Vn fragments			
54.0 - 57.3	HU		Competent to crumbly, strongly to intensely clay-altered rock. No original texture remaining. ~0.25% disseminated & fracture-controlled Lim. ~0.25% dissem Hm.			
		54.0 - 57.3	Pervasive Intense Clay			Rubble/gouge
57.3 - 58.1	YC	matx	Limonitized matrix-supported silicified clast breccia. Gradational contacts over 10-20cm: contacts indistinct due to weathering & alteration of wall rocks. 80% aphanitic orange matrix, 20% Fgr-Mgr subrounded clasts of silicified rock. No fabric/sorting. 0.25% diss Lim in matrix.			
		57.3 - 58.1	Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	Silicified matrix & clasts. Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.
58.1 - 58.5	HU		Massive, intensely silicified rock. No original texture remaining. 1% Lim along hairline stringers.			
		58.1 - 58.5	Pervasive Intense Silicification			No original texture remaining
58.5 - 59.3	YC		Limonitized matrix-supported silicified clast breccia. Gradational contacts over 10-20cm: contacts indistinct due to weathering & alteration of wall rocks. 80% aphanitic orange matrix, 20% Fgr-Mgr angular clasts of silicified rock. No fabric/sorting. 2% diss Lim in matrix.			
		58.5 - 61.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay		Silicification overprinting clasts & matrices. Clay alteration of feldspars
59.3 - 59.9	HU		Massive, strongly clay-altered & silicified rock. No original texture remaining. ~2% Lim as disseminated grains & stringers			

59.9 - 61.1	Ylim	matx		Limonitized matrix-supported polymictic clast breccia. Indistinct upper contact, sharp lower contact. 20% Qz vein, silicified rock & clay-altered subangular rock fragments in 80% aphanitic orange-brown matrix. Wavy foliation @ ~30 tca defined by alignment of inequant clasts & stringers cutting matrix. ~3-4% diss Lim throughout matrix & as stringers. ~2% diss Hm in 3-5cm patches in matrix. ~0.5% VFgr sooty Py in Qz Vn fragments/silicified clasts.			
61.1 - 61.5	SZ			Sheared/strained gneiss. Foln @ ~30 TCA. Discontinuous qz ribbons // foln. Moderate pervasive silicification, moderate clay alteration of felsics & weak Fgr-Mgr white mica overgrowing foliation. ~2% fracture-controlled & disseminated Lim. ~0.25% Fgr diss Hm after Py.			
61.5 - 63.9	MxF			Moderate perv. Silicification. Strong clay alteration of felsics. Weak Fgr mic overgrowing foliation. ~1% Lim on fractures & in stringers.			
61.5 - 63.9			Pervasive Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation	Silicified matrix & clasts. Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.	
63.9 - 65.2	Ycarb	Clast		Clast-supported breccia. 90% clay-altered angular Mgr-Cgr MxF & Qz Vn clasts in 10% aphanitic, variably limonitized white to orange carbonate matrix. 3% disseminated & stringer Lim, 0.25% VFgr oxidized Py along margins of some clasts, 0.5% diss Hm along margins of Lim-Cte stringers. Moderate perv. Silicification, moderate-strong clay alteration of clasts.			
63.9 - 65.0			Pervasive Moderate Silicification	Replaces Felsics Moderate Clay		Silicification overprinting clasts & matrix. Clay alteration of feldspars	
65.0 - 67.5			Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation		Clay alteration of feldspars. Fgr-Mgr white mica overgrowing gneissosity.	
65.2 - 66.4	MxF			Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.5% fracture controlled Lim			
66.4 - 66.5	Ycarb	Clast		Clast-supported breccia. 90% clay-altered angular Fgr & Mgr MxF clasts in 10% aphanitic, limonitized orange carbonate matrix. 0.5% disseminated & stringer Lim, 0.25% VFgr oxidized Py along margins of some clasts, 0.5% diss Hm along margins of Lim-Cte stringers. Moderate clay alteration of clasts.			
66.5 - 67.5	MxF			Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation. ~0.5% fracture controlled Lim			
67.5 - 67.7	HU			Intensely clay-altered rock. Mainly rubble & gouge.			
67.5 - 67.7			Pervasive Intense Clay			Rubble/gouge	
67.7 - 69.7	MxM			Strong clay alteration of felsics. Moderate Fgr white mica overgrowing foliation/along fractures. ~0.5% fracture controlled limonite. ~0.25% fracture controlled Hm			
67.7 - 76.4			Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Replaces Mafics Moderate Chlorite	Mod. Perv. Silica throughout. Leucosomes weakly clay altered. Melanosomes chloritized w. epidote bands.	
69.7 - 71.7	MxF			Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation/along fractures. ~0.25% fracture controlled limonite.			
71.7 - 73.7	MxM			Moderate clay alteration of felsics. Weak Fgr white mica overgrowing foliation/along fractures. ~0.25% fracture controlled limonite. ~0.25% Fgr tarnished Py along fracture planes. Weak epidote alteration along fractures.			
73.7 - 91.6	MxM	band		Very regular/well defined gneissic banding. 30-100cm wide planar leucosomes & melanosomes with sharp contacts. Moderate pervasive silicification. Leucosomes contain 0.25 - 0.5% VFgr diss Hm. Melanosomes pervasively chloritized with epidote-rich bands //foln. 0.25% VFgr diss brassy Py in melanosomes. ~0.25% fracture-controlled Lim throughout entire unit.			
76.4 - 91.6			Replaces Felsics Weak Clay	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote	Leucosomes weakly clay altered. Melanosomes chloritized w. epidote bands.	
91.6 - 106.5	BtS	mgrn		Almost identical to melanosomes in gneiss unit immediately uphole. Mgr-Cgr dark green Bt-Fspr-Qz schist. Wk to mod pervasive silicification, wk to moderate white mica overgrowing foln, mod Chl after Bt, wk diss epid in bands 5-20cm // foln. Trace diss VFgr-Fgr tarnished/oxidized Py locally. Trace Lim staining on fractures locally.			
91.6 - 106.5			Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	Mod perv silicification, sericitization (?) of Fspr, Fgr-Mgr white mica overgrowing foln, Chl after Bt, rare bands of diss epidote //foln.	
106.5 - 108.0	FG			Almost identical to leucosomes in gneiss unit immediately uphole. Lt grey Qz-Fspr-Biot gneiss. 80-90% leucosomes of Fgr Qz & Fspr, 10-20% melanosomes of VFgr Bt. ~0.5% diss VFgr-Fgr Py with Hm rims throughout. Strong perv silicification, wk to mod white mica overgrowing foln, mod sericitization(?) of Fsprs.			
106.5 - 108.0			Pervasive Strong Silicification	Selective Repl Weak Sericitisation	Replaces Felsics Moderate Sericitisation	Strong perv silicification, sericitization (?) of Fspr, Fgr white mic overgrowing foln, Chl after Bt	
108.0 - 128.1	BtS			Almost identical to melanosomes in gneiss unit immediately uphole. Mgr-Cgr dark green Bt-Fspr-Qz schist. Wk to mod pervasive silicification, wk to moderate white mica overgrowing foln, mod Chl after Bt, wk diss epid in bands 5-20cm // foln. Trace diss VFgr-Fgr tarnished/oxidized Py locally. Trace Lim staining on fractures locally.			
108.0 - 128.1			Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	Mod perv silicification, sericitization (?) of Fspr, Fgr-Mgr white mica overgrowing foln, Chl after Bt, rare bands of diss epidote //foln.	

128.1 - 128.5	FG		Almost identical to leucosomes in gneiss unit immediately uphole. Lt grey Qz-Fspr-Biot gneiss. 80-90% leucosomes of Fgr Qz & Fspr, 10-20% melanosomes of VFgr Bt. ~0.5% diss VFgr-Fgr Py with Hm rims throughout. Strong perv silicification, wk to mod white mica overgrowing foln, mod sericitization(?) of Fsprs.
128.1 - 128.5		Pervasive Strong Silicification	Selective Repl Weak Sericitisation Replaces Felsics Moderate Sericitisation Strong perv silicification, sericitization (?) of Fspr, Fgr white mic overgrowing foln, Chl after Bt
128.5 - 145.4	BtS		Almost identical to melanosomes in gneiss unit immediately uphole. Mgr-Cgr dark green Bt-Fspr-Qz schist. Wk to mod pervasive silicification, wk to moderate white mica overgrowing foln, mod Chl after Bt, wk diss epid in bands 5-20cm // foln. Trace diss VFgr-Fgr tarnished/oxidized Py locally. Trace Lim staining on fractures locally.
128.5 - 133.0		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation Replaces Mafics Moderate Chlorite Mod perv silicification, sericitization (?) of Fspr, Fgr-Mgr white mica overgrowing foln, Chl after Bt, rare bands of diss epidote //foln.
145.4 - 145.8	IV	phyr	Silicified Ksp-phyric dyke. Sharp, wavy planar upper contact with 5mm chill margin. Broken/faulted lower contact. 30% Mgr-Cgr subhedral blocky pink Fspr, 60% aphanitic, cloudy green-black groundmass & 10% network of Epid stringers w. many orientations. ~0.5 Hm along fractures
145.4 - 145.8		Pervasive Strong Silicification	Replaces Felsics Strong K-feldspar Vein Selvege Moderate Epidote Silicified dyke(?). Pink Ksp-phyric, possibly overgrowing earlier Fspr. Dark groundmass pervasively Chltzd? Cut by multiple orientations of Epid stringers.
145.8 - 146.1	BtS		Fgr-Mgr med green strongly-altered schist. Foln defined by alternating bands of Chl-rich & Epid-rch altn
145.8 - 146.1		Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite Replaces Felsics Moderate Epidote Clumps of Chl after mafic crystals. Alternating Chl-rich & Epid-laminae // foln
146.1 - 147.5	IV	phyr	Silicified Ksp-phyric dyke. Broken/faulted contacts. 30% Mgr-Cgr subhedral blocky pink Fspr, 60% aphanitic, cloudy green-black groundmass & 10% network of Epid stringers w. many orientations. ~0.5 Hm along fractures
146.1 - 149.1		Pervasive Strong Silicification	Replaces Felsics Strong K-feldspar Vein Selvege Epidote Silicified dyke(?). Pink Ksp-phyric, possibly overgrowing earlier Fspr. Dark groundmass pervasively Chltzd? Cut by multiple orientations of Epid stringers.
147.5 - 148.2	IV	mud	Broken, rubbly, oxidized silicified Ksp-phyric dyke. As above, but broken to rubble/gouge. ~3% frac-controlled Hm
148.2 - 149.2	IV	phyr	Broken, rubbly, unoxidized silicified Ksp-phyric dyke. No distinct contacts. 30% Mgr-Cgr subhedral blocky pink Fspr, 60% aphanitic, cloudy green-black groundmass & 10% network of Epid stringers w. many orientations. ~1% Hm along fractures
149.1 - 151.1		Pervasive Weak Silicification	Replaces Felsics Moderate Clay Selective Repl Weak Sericitisation Possible VFgr white mica along folns. Weakly reactive to HCl al some fractures.
149.2 - 151.1	BtS		Fgr-Mgr dark green Bt-Fspr-Qz schist. Weak pervasive silification, moderate Chl after Bt, Mod epid stringers. Trace Lim along fractures.
151.1 - 151.3	HU	mud	Yellow-orange intensely clay-altered limonitized rock. Converted to gouge, no original texture. ~3% diss Lm
151.1 - 151.3		Pervasive Intense Clay	Pervasive Weak Calcite Yellow gouge. Weakly reactive to HCl
151.3 - 157.8	BtS		Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.
151.3 - 154.6		Pervasive Moderate Silicification	Replaces Mafics Weak Clay Selective Repl Weak Sericitisation Silicified Bt schist
154.6 - 154.9		Pervasive Strong Silicification	Replaces Felsics Weak Clay Selective Repl Weak Sericitisation Strongly silicified Bt schist
154.9 - 157.5		Pervasive Weak Silicification	Replaces Felsics Weak Clay Selective Repl Weak Sericitisation
157.5 - 158.0		Pervasive Strong Silicification	Replaces Felsics Weak Clay Selective Repl Weak Sericitisation
157.8 - 158.0	Ylim		Clast supported in-situ/crackle Bx. Angular clasts of BtS with matrix of narrow Lim Vns. ~2% diss Lim overall.
158.0 - 171.8	BtS		Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Biot, Mod epid stringers. Trace Lim along fractures.
158.0 - 163.4		Pervasive Moderate Silicification	Replaces Felsics Weak Clay Selective Repl Moderate Sericitisation Increasing size/amount of white mica // foln. Epidote as wispy bands of diss. Xtls // foln
163.4 - 165.0		Pervasive Strong Silicification	Replaces Felsics Weak Clay Selective Repl Moderate Sericitisation Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln. Wispy bands of diss. Epid // foln.
165.0 - 171.6		Patchy Moderate Silicification	Replaces Felsics Weak Clay Selective Repl Moderate Sericitisation Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln. Wispy bands of diss. Epid // foln.
171.6 - 172.0		Patchy Weak Silicification	Replaces Felsics Strong Clay Selective Repl Moderate Sericitisation Strongly broken & rubbly. Clay-altered & limonitic.
171.8 - 172.0	BtS		Light green, Chl+Epid altered BtS.

172.0 - 175.4	BtS	Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.			
172.0 - 175.0		Patchy Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
175.0 - 175.5		Pervasive Weak Silicification	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation	Grey, slightly crumbly, strongly clay-altered interval with patch Lim
175.4 - 175.6	Ylim	20cm wide vein of clast supported breccia. Smooth planar contacts. Subangular in-situ clasts of clay-altered, silicified & chloritized BtS in a matrix of siliciified Lim vns.			
175.5 - 179.3		Pervasive Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
175.6 - 195.7	BtS	Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.			
179.3 - 192.0		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
192.0 - 193.4		Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite	Selective Repl Moderate Sericitisation	Sharply-bounded interval of strongly altered Bts. Strongly clay altered, chloritized & sericitized, reduced to rubble & gouge in places.
193.4 - 195.7		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
195.7 - 197.8	YO	Lt green to brown BtS cut by many Epid, Cte+Lim or Ankerite stingers. Clay+sericite+Chl alteration. ~2% diss Lim in stringers & along fractures.			
195.7 - 197.8		Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation		Strongly clay-altered BtS. Reduced to rubble & gouge locally. I white mica growing //foln
197.8 - 213.4	BtS	Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.			
197.8 - 214.0		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
213.4 - 215.2	Ycarb	Clast	Cream to lt brown sharp-edged Vn of strong Clay+sericite alteration & Cte+Lim Vns. Clast supported polymictic Bx ith ~75% Fgr-Mgr rotated, subrounded clasts of BtS & Qz Vn in a brown aphanitic Cte+Lim matrix. BtS clasts variably altered: Epid-Chl, Sericite-clay or silicified. Entire Bx silicified. 3% diss Lim in matrix.		
214.0 - 215.2		Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation		Pervasive silicification overprinting (?) strongly altered Bts: orig mineralogy replaced by clay & sericite.
215.2 - 216.5	BtS	Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.			
215.2 - 216.5		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Pervasive silicification. Clay altn of Fspr, Chlzn of Bt. Fgr white mica growing // foln
216.5 - 218.2	FG	Lt grey silicified Qz-Fspr-white mica-Chl gneiss. 1-2% diss Hm (after Py?). Minor Epid stringers. Gradational contacts with over-&-underlying schist.			
216.5 - 218.2		Pervasive Strong Silicification	Selective Repl Strong Sericitisation	Replaces Mafics Weak Chlorite	Strongly silicified Qz-Fspr-white mica-Chl gneiss
218.2 - 230.0	BtS	Fgr-Mgr dark green Bt-Fspr-Qz schist. Wk pervasive silification, Mod Chl after Bt, Mod epid stringers. Trace Lim along fractures.			

Drill Log: CFD0223

Easting	584063.4	Hole Length	329 m	Prospect	Supremo T3	Drill Started	May 28, 2012	Comment
Northing	6973551.53	Azimuth	271 °	Target	T3	Drill Completed	Jun 01, 2012	
Projection	UTM7-NAD83	Dip	-49 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1055 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments		
0.0 - 10.7	OVB					
10.7 - 26.3	FG	augn	Fol-mod	Felsic augen gneiss. Weak disseminated limonite with hematite staining 0.15%. Moderate silicification, strong sericite, with weak clay infill alteration. Local small quartz veins. Possible fault gouge at 20.24m- 20.97m. Traces of pitted weathered sulphides.		
26.3 - 30.9	DIOR	10.7 - 26.3	Pervasive	Moderate Silicification	Pervasive Strong Sericitisation	Selective Repl Weak Clay
		mgrn		Diorite dyke with interval of limonite-matrix breccia, Zone. Fine-grain clast supported rounded breccia. Strong pervasive clay alteration, associated with weak hardness of the unit. Disseminated limonite 3.5% with fractured controlled hematite 2%. Possible manganese oxide staining.		
		26.3 - 30.9	Pervasive	Strong Clay		
30.9 - 79.9	FG	augn	Fol-str	Felsic augen gneiss. Strong silicification, strong sericite alteration, with local weak patchy clay & local albite alteration. Local intervals of intense silicifcation associated with strong/moderate limonite and hematite staining. Majority of unit has weak disseminated/frac controlled limonite & hematite 0.15% with local intervals of strong limonite and hematite varying from 2 - 3%. Local oxidized pyrite cubes 0.15%. Massive quartz vein 31.11 - 31.95m associated with strong limonite and hematite, intervals of breccia within the vein. Small narrow breccia vein with sub-angular clasts and limonite matrix located 63.77-63.80m.		
		30.9 - 53.3	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	Patchy Weak Clay
		53.3 - 55.1	Pervasive	Intense Silicification	Patchy Moderate Sericitisation	Patchy Weak Clay
		55.1 - 84.1	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	Patchy Weak Albite
		79.9 - 86.0	BtS	lamn	Fol-mod	Biotite schist. Moderate to intense intervals of silicification, moderate sericite, weak patchy albite & clay alteration.Intense silicification and increase of sericite alteration is associated with the boarder of BtS with the zone unit. Local intervals of moderate limonite & hematite 1.5%. Small interval of fracture controlled weak limonite and hematite 0.15%.
84.1 - 86.0	Pervasive			Intense Silicification	Pervasive Strong Sericitisation	Selective Repl Weak Clay
86.0 - 89.8	HU			Hydrothermally unrecognizable protolith, Zone. Strong pervasive clay alteration. Strong limonite and hematite staining 5%. Hematite halos around local vuggy spaces, possible clay infill? Large core loss.		
		86.0 - 89.8	Pervasive	Strong Clay		
89.8 - 90.0	YC	bx		Silicified-clast breccia. Fine to medium grained clast supported dacite breccia. Rounded to sub-angular clasts. Moderate silicification, with moderate clay alteration. Strong limonite and hematite staining 4%.		
		89.8 - 90.5	Patchy	Moderate Silicification	Pervasive Moderate Clay	
90.0 - 90.5	FC	fgrn		Dacite dyke. Moderate limonite and hematite 4%. Moderate silicification with weak clay alteration.		
90.5 - 148.7	MxF	band	Fol-str	Mixed felsic gneiss. Strong silicification, moderate sericite, weak epidote alteration. Weak fracture controlled limonite 0.1%, with local intervals of moderate disseminated limonite and hematite varying from 0.25-2 %. Brassy & bronzy pyrite 0.1% throughout majority of the unit.		
		90.5 - 148.7	Pervasive	Strong Silicification	Pervasive Moderate Sericitisation	Patchy Weak Epidote
148.7 - 189.5	MxM	band	Fol-str	Mixed mafic gneiss. Strong silicification, moderate chlorite, moderate patchy epidote alteration. Weak fracture controlled limonite and hematite 0.1% with patchy bronzy/brassy pyrite throughout. Local small quartz and calcite veins.		
		148.7 - 189.5	Pervasive	Strong Silicification	Pervasive Moderate Chlorite	Patchy Moderate Epidote
189.5 - 196.3	BtS	lamn	Fol-wk	Biotite schist, fine-grain. Small cross cutting calcite veins. Intense silicification, weak epidote alteration. Weak fracture controlled limonite 0.1%. Unit fines downward toward contact with the II dyke unit, FC.		
		189.5 - 196.3	Pervasive	Intense Silicification	Patchy Weak Epidote	

196.3 - 216.3	FC	mgrn		Intermediate intrustrive unit, Dacite. Strong silicification, moderate chlorite with sericite alteration. Fracture controlled limonite 0.1% until 199.30m, leading into strong possible weak zone of disseminated lim & hem 3%. Zone of lim & hem is associated with moderate clay, silicification, and albite alteration. Sericite and chlorite alteration increase towards the bottom of the unit. Weak fracture controlled lim & hem varying from 0.5% to 0.1% with disseminated rusted pyrite 0.25% at the bottom of the unit close to lith contact. Vuggy quartz vein located at 207m	
			196.3 - 199.3	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
			199.3 - 204.4	Pervasive Moderate Silicification	Selective Repl Moderate Clay
			204.4 - 211.3	Pervasive Strong Silicification	Pervasive Moderate Albite
			211.3 - 216.3	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
216.3 - 231.3	MxM	band		Fol-mod	Mixed Mafic gneiss. Strong silicification, chlorite, and moderate epidote alteration. Weak fracture controlled lim & hem 0.1% with disseminated brassy/bronzy pyrite 0.15%. Local large quartz veins. Possible shear zone, strong crenulations, from 225.77m - 226.06m
			216.3 - 231.3	Pervasive Strong Silicification	Pervasive Moderate Epidote
231.3 - 265.6	BtS	lamn		Fol-str	Biotite schist, fine lamination. Strong/moderate silicification, strong pervassive chlorite, moderate patchy epidote alteration. Weak fracture controlled lim & hem 0.1% and disseminated pyrite 0.25%. Silicification increasing toward the bottom of the unit.
			231.3 - 265.6	Pervasive Strong Silicification	Pervasive Strong Chlorite
265.6 - 278.1	FG	silc			Felsic Gneiss. Intense silicification, moderate sericite, weak patchy clay & albite alteration. Disseminated sooty & brassy pyrite, with disseminated limonite and hematite 0.25%. Local interval of moderate/strong lim & hem 1-2%, associated with weak clay alteration, other local intervals of strong sooty/brassy pyrite 3.5%. Breccia pipe, crackle breccia Yx , located at 265.70 -265.80m. Medium-grained matrix supported monomictic clasts, both clasts and matrix intensely silicified. Strong frac controlled lim from 267.80m - 268m.
			265.6 - 278.1	Pervasive Intense Silicification	Pervasive Moderate Sericitisation
278.1 - 278.4	YC	bx			Silicified-clast breccia. Medium-grained, cement-supported felsic gneiss & quartz vein rounded clast breccia. Clay cement with limonite staining. Moderate clay and silicification alteration. Moderate lim & hem 2%
			278.1 - 278.4	Pervasive Moderate Silicification	Pervasive Moderate Clay
278.4 - 279.9	FG	silc		Fol-wk	Felsic Gneiss. Intense silicification, moderate sericite alteration. Disseminated limonite & hematite 0.15%, with sooty/brassy disseminated pyrite 1.5%
			278.4 - 279.9	Pervasive Intense Silicification	Pervasive Moderate Sericitisation
279.9 - 283.9	YC	bx			Silicified-clast breccia. Fine to Medium-grained cement-supported monomictic rounded felsic gneiss breccia. Cement varies from clay to strong silicification alteration. Strong silicification, weak patchy sericite, with moderate clay alteration. Limonite & hematite 2% with disseminated sooty pyrite 2%.
			279.9 - 283.9	Pervasive Strong Silicification	Patchy Moderate Clay
283.9 - 294.6	FG	silc			Felsic gneiss. Strong silicification, weak albite & sericite alteration. Disseminated lim 1%, hem 1% , and sooty/brassy pyrite 2%. Large quartz vein located at 294m, large quarter size open vug.
			283.9 - 294.6	Pervasive Strong Silicification	Patchy Weak Albite
294.6 - 313.7	MxF	band		Fol-mod	Mixed felsic gneiss. Strong silicification, moderate albite & sericite alteration. Disseminated lim & hem 0.25%, with disseminated bronzy/brassy/sooty pyrite 0.5%. Local interval of strong 1.5% sooty sulphides leading into the next lith unit.
			294.6 - 313.7	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
313.7 - 314.5	YO	bx			Possibly mineralized? fine-medium grained rounded polymictic cement-supported clast breccia. Moderate clay and cement alteration.Weak disseminated lim 0.15%
			313.7 - 314.5	Pervasive Moderate Silicification	Selective Repl Moderate Clay
314.5 - 329.0	MxF	band		Fol-mod	Mixed felsic gneiss. Strong silicification, moderate albite & sericite alteration. Disseminated lim & hem 0.25%, with disseminated bronzy/brassy/sooty pyrite 0.5%
			314.5 - 329.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation

Drill Log: CFD0224

Easting	584152.68	Hole Length	92 m	Prospect	Supremo T3	Drill Started	May 31, 2012	Comment
Northing	6974250.16	Azimuth	270 °	Target	T3	Drill Completed	Jun 01, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1272.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.5	OVb			
3.5 - 26.7	FG	augn	Fol-str	Fresh gneiss, weak silicification and minor clay altn. 0.1% disseminated hematite
		3.5 - 26.5		Weak Silicification
		26.5 - 38.8		Pervasive Strong Silicification Replaces Felsics Strong Clay
26.7 - 29.3	FG	amyg		Felsic gneiss, moderate clay replacement of felsics, 0.25% diss limonite and fracture controlled limonite.
29.3 - 30.1	YO	bxm		Fine grained, sub angular silicified clast, clay matrix support breccia. Weak local .25-.5% disseminated limonite.
30.1 - 31.1	HU	silc		Intensely silicified mineralized unit, micro fracture controlled clay, 0.5% diss hematite.
31.1 - 31.4	YO	matx		Med gr, angular silicified fg clast, clay/limonite matrix supported bx. 0.5% fracture controlled limonite.
31.4 - 32.8	HU	silc		Intensely silicified mineralized unit, minor fracture controlled clay, 0.5% diss hematite. Local clay bx FLT's, clay/weak limonite matrix.
32.8 - 33.9	YC	matx		Med gr. Angular silicified clast supported bx, Strong silica and clay alteration. Fine grain sooty sulphide and 0.25% fc limonite.
33.9 - 38.4	FG	silc	Fol-str	Mineralized felsic gneiss, mod to strong silicification, mod albite and mod fracture controlled clay altn. 1.5% limonite and 0.25% hematite fractures.
38.4 - 38.8	YC	matx		fn to med graind polymictic clast (qtz vein, silicified gneiss) silica matrix supported bx. 0.5% diss limonite within matrix, fc hematite veining.
38.8 - 48.0	FG	augn	Fol-str	1% limonitic FG, moderate clay replacement and silicification.
		38.8 - 48.0		Selective Repl Moderate Clay Selective Repl Weak Albite
48.0 - 59.0	FG	augn	Fol-str	Variably altered gneiss, local moderate QSP altn assemblage, 0.1% blebby pyrite, 0.25 patchy limonite and fracture controlled hematite. Weak clay replacement of feldspars locally.
		48.0 - 59.0		Replaces Mafics Weak Sericitisation Pervasive Moderate Silicification Selective Repl Weak Clay
59.0 - 92.0	MxF	augn	Fol-str	Variably altered, minor albite and silicification. Melanocratic zones have moderate epidote altn. Eak 0.25% patchy limonite.
		66.5 - 68.0		Selective Repl Moderate Epidote Weak Silicification
		69.0 - 71.0		Selective Repl Moderate Clay
		71.0 - 92.0		Pervasive Weak Silicification Selective Repl Weak Albite

Drill Log: CFD0225

Easting	584928.98	Hole Length	182 m	Prospect	Double Double	Drill Started	May 31, 2012	Comment
Northing	6973254.35	Azimuth	180 °	Target	Au	Drill Completed	Jun 03, 2012	
Projection	UTM7-NAD83	Dip	-61 °	Geologist	GNewton	Core Size	NQ	
Survey method	RTK GPS	Elevation	1084.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			Casing to 9m. Recovered material is mainly MxF
9.0 - 22.3	MxF			Broken/crumblly where not silicified. Qz-Fspr-Bt-Amph gneiss. Pervasive silicification, clay alteration of feldspars & Fgr white mica growing // foln. Light limonite staining locally, ~0.25% Lim along fractures & in stringers.
		9.0 - 12.9	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Weak Sericitisation Pervasive silicification. Clay alteration of feldspars. Fgr white mica growing // foln locally. Chlzn of mafics locally
		12.9 - 15.8	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite Clay alteration of feldspars. Fgr white mica growing // foln locally. Chlzn of mafics locally
		15.8 - 17.6	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite Clay alteration of feldspars. Fgr white mica growing // foln locally. Chlzn of mafics locally
		17.6 - 18.8	Replaces Mafics Intense Clay	Selective Repl Moderate Sericitisation Weak Strongly clay-altered: rock crumbling locally. Fgr white mica growing // foln
		18.8 - 20.8	Pervasive Strong Silicification	Replaces Felsics Intense Clay Selective Repl Moderate Sericitisation Clay-sericite-altered MxF overprinted by silicification
		20.8 - 22.3	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Moderate Sericitisation Pervasive silicification. Clay alteration of feldspars, bands of greenish sericite // foln
22.3 - 23.0	MxF	augn		Broken/crumblly strongly altered MxF. Strong clay-sericite alteration. ~0.25% Lim along fractures. ~0.25% VFgr diss Py in melanosomes
		22.3 - 23.0	Replaces Felsics Intense Clay	Selective Repl Moderate Sericitisation Clay-altered to rubble/gouge. Fgr white mica growing // origin: foln
23.0 - 24.3	MxF			Broken/crumblly where not silicified. Qz-Fspr-Amph gneiss. Pervasive silicification, clay alteration of feldspars & Fgr white mica growing // foln. Light limonite staining locally, ~0.25% Lim along fractures
		23.0 - 24.3	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation
24.3 - 25.2	MxF			Rubbly/broken MxF with strong clay alteration & 1% Lim along fractures
		24.3 - 25.1	Replaces Felsics Intense Clay	Selective Repl Moderate Sericitisation
		25.1 - 27.1	Pervasive Moderate Silicification	Replaces Felsics Strong Clay Selective Repl Moderate Sericitisation
25.2 - 28.0	MxF			Strongly broken MxF. Clay-sericite altered. 2% Lim & 0.5% Hm along fractures
		27.2 - 31.0	Replaces Felsics Intense Clay	Moderate Sericitisation
28.0 - 31.0	MxF			Strongly clay altered, broken/rubbly MxF. 3% Lim along fractures
31.0 - 33.7	MxF			Less-altered MxF. Moderate clay alteration of feldspars & weak FGr white mica growing // foln
		31.0 - 32.7	Replaces Mafics Moderate Clay	Selective Repl Moderate Sericitisation Clay alteration of feldspars, Fgr white mica growing // foln
		32.7 - 34.9	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Weak Sericitisation

33.7 - 39.4	FG	augn	Pervasively albitized FG. Clay destruction of Fspr & white mica growing // foln. Albite overprints Clay-ser?			
		34.9 - 37.7	Pervasive Moderate Albite	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Creamy white pervasive albitization overprinting(?) clay-ser alteration
		37.7 - 38.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	
		38.5 - 40.0	Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	
39.4 - 41.7	FG		FG with strong clay alteration of feldspars & white mica overgrowing original foliation. ~0.5% Lim along fractures & ~0.5% Lim along hairline stringers			
		40.0 - 44.8	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Clay alteration of feldspars. Fgr white mica growing // foln	
41.7 - 41.9	YO	Clast	Clast-supported breccia vein. Upper contact ground by drill, lower contact sharp. 95% rounded Mgr clasts of clay-altered FG in a clay matrix			
41.9 - 43.4	FG		Lim-stained, clay-sericite altered FG. ~1% diss Lim & ~1% Lim as stringers/fracture coatings			
43.4 - 44.8	FG		Fgr strongly clay-ser altered, pervasively limonitized FG. ~3% small silicified, unlimonitized, windows showing original texture. Faint foliation visible through alteration & Lim-staining.~3% diss Lim throughout.			
44.8 - 46.3	HU		Brick red, no primary texture preserved. 5% diss Lim, 2% dis Hm			
		44.8 - 46.9	Pervasive Intense Clay	Selective Repl Moderate Sericitisation	Original texture largely destroyed. Core reduced to rubble/gou locally	
46.3 - 46.6	Ylim	Clast	Clast supported limonite matrix breccia. 90% subrounded Mgr polymictic clasts, mainly strongly clay altered in a red aphanitic matrix. 3% diss Lim, 1% diss Hm			
46.6 - 46.9	HU		Orange-red, no primary texture preserved. 4% diss Lim, 1% dis Hm			
46.9 - 47.6	YO	Clast	Clast-supported Qz Vn fragment Bx. 95% subangular Qz Vn clasts with clay-Lim matrix. Blebby Lim in Qz clasts & matrix, after original Py?			
		46.9 - 47.6	Pervasive Moderate Silicification	Pervasive Intense Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay-Ser alteration?
47.6 - 47.8	HU		Orange gouge, no primary texture preserved. 3% diss Lim, 2% diss Hm.			
		47.6 - 50.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Clay alteration of feldspars, Fgr white mica growing // foln	
47.8 - 48.0	YC	matx	Matrix supported silicified clast breccia. 50% Fgr subrounded clasts of silicified material in an aphanitic orange matrix. 1-3% diss Lim, 0.5-2% diss Hm.			
48.0 - 50.1	FG		Clay-sericite altered FG with 1% fracture-controlled Lim.			
		50.0 - 51.2	Pervasive Intense Clay	Selective Repl Weak Sericitisation	Original texture largely destroyed. Core reduced to rubble/gou locally	
50.1 - 51.0	HU		Orange gouge, no primary texture preserved. 4% diss Lim, 0.5% diss Hm			
51.0 - 53.0	YC	matx	Matrix supported polyphase silicified clast Bx. Upper & lower contacts indistinct, internal contact with one phase of Bx			
		51.2 - 53.0	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Clay alteration of feldspars, Fgr white mica growing // foln	
53.0 - 53.5	HU		Brick red, no primary texture preserved. 5% diss Lim, 2% dis Hm			
		53.0 - 54.5	Pervasive Intense Clay	Selective Repl Weak Sericitisation	Original texture largely destroyed. Core reduced to rubble/gou locally	
53.5 - 54.1	FG		Clay-sericite altered FG with 1% fracture-controlled Lim.			
54.1 - 54.6	HU		Dark orange, no primary texture preserved. 5% diss Lim, 1% diss Hm			
54.6 - 54.8	Ycarb	matx	Polymictic matrix supported Bx. 50% clasts: Qz Vn fragments, clay-ser altered FG & albitized clasts. 30% aphanitic greenish brown Cte-Lim matrix. ~1% diss Lim throughout.			
		54.6 - 56.3	Pervasive Weak Fe-carb	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Ankerite alteration around Ycarb unit? Clay alteration of feldsp; Fgr white mica growing // foln
54.8 - 56.3	MxF		Clay-sericite altered MxF. ~0.5% fracture-controlled Lim. Up to 2% diss Lim from 55.3-55.55.			
56.3 - 57.1	Ycarb	matx	Yellowish-brown matrix supported Bx. Multiple irregular Vns of 30% Polymictic rounded clasts in 70% aphanitic yellow-brown Cte-Lim matrix. 1% diss Lim throughout matrix			
		56.3 - 57.2	Pervasive Moderate Silicification	Pervasive Weak Fe-carb	Selective Repl Moderate Sericitisation	Silica overprinting other alteration types

57.1 - 62.1	MxF			Clay alteration of feldspars, white mica growing // original foln, often in Bt-rich bands. ~0.5% fracture-controlled Lim & ~0.5 diss Lim. ~0.25% frac-controlled Hm.		
		57.2 - 62.0	Pervasive Moderate Fe-carb	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Ankerite alteration around Ycarb unit? Clay alteration of felds; Fgr white mica growing // foln
		62.0 - 64.6	Pervasive Moderate Calcite	Pervasive Intense Clay	Selective Repl Weak Sericitisation	Original texture largely destroyed. Core rubbly locally. Carbon more reactive to acid: out of Ank, into Cte?
62.1 - 63.2	Ycarb	Clast	Clast-supported matrix of 80% subangular Mgr-Cgr in-situ clasts of strongly clay-altered MxF in 20% aphanitic orane Cte-Lim matrix. ~1% diss Lim			
63.2 - 65.0	MxF		Clay alteration of feldspars, white mica growing // foln. ~0.5% fracture-controlled Lim, ~0.5% diss Lim.			
		64.6 - 66.3	Replaces Felsics Strong Clay	Selective Repl Weak Sericitisation	Patchy Weak Epidote	
65.0 - 70.7	BtS		Dark green, well laminated, Bt-Qz-Fspr-Amph schist. Gradational contact from overlying gneiss: decreasing amounts of felsic material in gneiss over 1-2m. Very broken & shattered, usually // foln. Clay alteration of feldspars, Fgr white mica growing // foln, Chlzn along fractures. Minor <5cm Patches/bands of diss Epid // foln. ~0.5% Lim along fractures. Hm along fractures locally.			
		66.3 - 67.0	Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Weak Sericitisation	
		67.0 - 69.9	Fracture Controlled Moderate Chlorite	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation Increasing Chl along fractures. Clay alteration of Fspr, Fgr whit mica growing // foln.	
		69.9 - 70.7	Fracture Controlled Intense Chlorite	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation Chl gouge along all fractures	
70.7 71.0	YS	matx	30cm Vn of Bx w. sharp upper & lower contacts. 50% Mgr rounded clasts of clay-altered & silicified rock in a matrix of Qz & aphanitic black sooty sulphides. Clasts aligned // Vn margins. ~2mm Lim selvages & Lim along fractures. ~10% sooty sulphides.			
		70.7 - 71.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay		
71.0 - 75.0	BtS		Dark green, well laminated, Bt-Qz-Fspr-Amph schist. Strongly Chl-Clay altered, with some intervals reduced to rubble & gouge. ~0.25% Hm along fractures			
		71.0 - 75.0	Fracture Controlled Intense Chlorite	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	
75.0 - 75.7	HU		Intensely Clay-Chl altered gouge. ~0.5% diss Lim throughout, ~0.25% Hm along fractures.			
		75.0 - 75.7	Pervasive Intense Clay	Selective Repl Strong Sericitisation	Clay altered gouge	
75.7 - 76.3	YO	matx	Matrix supported breccia. Upper contact broken, lower contact sharp. Rotated subangular polymictic clasts of clay altered, silicified & albitized rock & Qz Vn fragments. Matrix is aphanitic, tan clay altered rock. Trace Lim in patches around some clasts.			
		75.7 - 76.3	Pervasive Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	
76.3 - 80.3	BtS		Dark green, well laminated, Bt-Qz-Fspr-Amph schist. Strongly Chl-Clay altered, with some intervals reduced to rubble & gouge. ~0.25% Hm along fractures			
		76.3 - 76.7	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		
		76.7 - 80.2	Fracture Controlled Strong Chlorite	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	
		80.2 - 83.5	Pervasive Moderate Silicification	Replaces Felsics Weak Clay		
80.3 - 83.5	YO	Clast	Clast supported silica matrix Bx. Upper contact broken/ground away, lower contact roughly planar. 90% Mgr-Cgr subangular to rounded clasts of variably silicified, Chltzd, Sericified & Clay-altered BtS. Matrix of dark grey silica, generally in stringers & small Vns. Trace diss VFgr black sooty Py throughout clasts. Hariline Qz stringers with 1-5mm Lim selvages, in many orientations, cut both clasts & matrix.			
83.5 - 85.8	BtS		Strongly clay-ser-altered BtS. ~1% diss Lim, ~0.5% Lim or Hm along fractures			
		83.5 - 85.8	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		
85.8 - 93.0	BtS		Dark green, well laminated, Bt-Qz-Fspr-Amph schist. Strongly Chl-Clay altered, with some intervals reduced to rubble & gouge. ~0.25% Hm along fractures			
		85.8 - 93.0	Fracture Controlled Strong Chlorite	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	
93.0 - 106.8	BtS		Dark green, well laminated, Bt-Qz-Fspr-Amph schist. Chl-Clay altered. ~0.25% Hm along fractures			
		93.0 - 100.7	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Replaces Mafics Weak Chlorite	
		100.7 - 101.5	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Fracture Controlled Moderate Chlorite	<1mm Chl gouge along fractures & on rubble
		101.5 - 106.8	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Replaces Mafics Weak Chlorite	

106.8 - 182.0	MxM	augn	Qz-Fspp-Bt-Amph gneiss. Silicification of leucosomes, clay alteration of feldspars & Fgr white mica growing // foln. ~0.25% Lim along fractures & in stringers. ~0.25% VFgr diss Py, usually fresh but rarely tarnished.			
106.8 - 112.0		Patchy Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification of leucosomes in gneiss	
112.0 - 112.5		Fracture Controlled Strong Clay	Fracture Controlled Strong Chlorite		Broken core with clay-Chl gouge along fractures	
112.5 - 118.0		Pervasive Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation		
118.0 - 119.2		Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	Weaker, softer interval of more altered core	
119.2 - 137.0		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation		
137.0 - 153.0		Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation		
153.0 - 153.7		Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation		
153.7 - 158.3		Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation		
158.3 - 166.5		Pervasive Weak Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		
166.5 - 182.0		Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation		

Drill Log: CFD0226

Easting	584092.03	Hole Length	233 m	Prospect	Supremo T3	Drill Started	Jun 01, 2012	Comment
Northing	6973554.45	Azimuth	275 °	Target	T3	Drill Completed	Jun 03, 2012	
Projection	UTM7-NAD83	Dip	-52 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1059.5 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 68.1	FG	augn	Fol-mod	Felsic augen texture gneiss. Strong/moderate silicification, moderate sericite, with local moderate K-feldspar & clay alteration. Majority of unit has weak disseminated lim, hem staining & brassy/bronzy pyrite 0.25%. Local intervals of moderate disseminated lim & hem 1% with weathered disseminated pyrite 0.5%, associated with weak patchy clay alteration.
		9.0 - 60.3	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak K-feldspar
		60.3 - 64.1	Pervasive Moderate Silicification	Pervasive Moderate Clay Pervasive Moderate Sericitisation
		64.1 - 68.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
68.1 - 71.4	IV	fgrn		Andesite dyke, Zone. Strong clay with weak patchy silica alteration. Strong disseminated 3% lim & hem. Hydrothermally unrecognizable protolith with strong hematite bottling & staining located at the bottom of the lith unit.
		68.1 - 71.4	Pervasive Strong Clay	Patchy Moderate Silicification
71.4 - 101.5	MxM	band	Fol-mod	Mixed mafic gneiss. Mod silicification, sericite, weak clay alteration. Disseminated lim, hem, & brassy/sooty pyrite 0.5%, with a local interval of lim & hem 2% with disseminated brassy/weathered pyrite 0.25%, associated with clay alteration. Possible fine-grain clay cement rounded clast breccia located at 79.34 - 79.50m. Strongly silicified clast breccia with rounded to sub-angular clasts silicate matrix 84.48 - 84.65m. Local interval of sooty sulphides 2%, associated next too a massive quartz vein 100 - 100.8m & two cross cutting quartz veins, with limonite selvage. Local patchy leucoxene
		71.4 - 101.5	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
101.5 - 123.0	MxF	band	Fol-str	Mixed felsic gneiss. Local moderate silicification, sericite, with weak albite & clay alteration. Disseminated lim 1% with fracture controlled hem 1%. Local quartz veins varying in size from mm to cm. Local interval of strong silicification, moderate sericite, & weak k-feld staining, this interval is associated with weak fracture controlled lim, hem 0.25% & disseminated bronzy pyrite 0.1%.
		101.5 - 111.8	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Clay
		111.8 - 123.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak K-feldspar
123.0 - 124.5	FG	band		Felsic gneiss, possible small zone. Intense clay alteration, weak patchy silica alteration. Strong disseminated lim & hem staining 2%.
		123.0 - 124.5	Pervasive Intense Clay	Patchy Weak Silicification
124.5 - 132.6	MxM	band		Mixed mafic gneiss. Strong/moderate silicification, moderate sericite alteration. Weak disseminated lim & hem staining 0.15%. Local interval of moderate lim & hem staining 0.5% with disseminated sooty/brassy sulphides 0.15%, associated with small limonite & quartz veins, structural readings taken. Albite and intense silicification associated with increase in sulphides.
		124.5 - 128.9	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		128.9 - 133.0	Pervasive Intense Silicification	Pervasive Moderate Sericitisation Patchy Moderate Albite
132.6 - 133.0	SZ	lamn	Crenul	Small shear zone, located right before zone of strong lim & hem. Weak disseminated lim & hem 0.15%.
133.0 - 135.0	FG	lamn	Fol-wk	Felsic gneiss, Zone. Strong silicification, moderate clay alteration. Local interval of moderate lim & hem 2%, associated with strong silica & moderate sericite alteration. Main zone consists of strong disseminated lim & hem 5%. Pitted weathered vugs, small cross cutting hematite & limonite veins, possible small fine-grain rounded clast breccia veins?
		133.0 - 134.1	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		134.1 - 135.0	Pervasive Strong Silicification	Patchy Moderate Clay
135.0 - 137.0	FC	fgrn		Dacite dyke, bottom of zone. Moderate patchy clay alteration. Strong disseminated lim & hem 5%. Overprinting hem veins. Pitted weathered sulphides, weak sooty/weathered sulphides 0.1%.
		135.0 - 137.0	Patchy Moderate Clay	

137.0 - 137.7	FG	band	Fol-wk	Felsic gneiss, end unit of zone. Strong silicification, with weak sericite alteration. Moderate disseminated lim & hem 1%. Small mm wide hem & lim anastomising veins, cross cutting foliation.		
		137.0 - 137.7	Pervasive	Strong Silicification	Pervasive Weak Sericitisation	
137.7 168.6	MxM	band	Fol-str	Mixed mafic gneiss. Local selective replacement epidote, moderate silicification, sericite, chlorite alteration. Weak fracture controlled lim & hem 0.1% with disseminated brassy/bronzy pyrite 0.15%. Footwall or dead rock.		
		137.7 - 168.6	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite
168.6 - 168.9	SZ	lamn	Crenul	Shear zone. Strong crenulations, moderate chlorite alteration, weak fracture controlled lim 0.1%.		
		168.6 - 168.9	Pervasive	Moderate Chlorite		
168.9 - 233.0	MxM	band	Fol-str	Mixed mafic gneiss. Local selective replacement epidote, moderate silicification, sericite, chlorite alteration. Weak fracture controlled lim & hem 0.1% with disseminated brassy/bronzy pyrite 0.15%. Two local massive quartz veins that include weak lim & bronzy/sooty pyrite, located at 183.15 - 183.68m & 184.20 - 184.65m, running parallel to LCA. Local sooty and brassy pyrite, changing from brassy pyrite to sooty 0.5%		
		168.9 - 233.0	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite

Drill Log: CFD0227

Easting	584187.75	Hole Length	124 m	Prospect	Supremo T3	Drill Started	Jun 01, 2012	Comment
Northing	6974252.45	Azimuth	276 °	Target	T3	Drill Completed	Jun 03, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1270.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.5	OVb			
3.5 - 63.7	MxF	band	Fol-str	Variably altered gneiss, mod albite altn, weak silicification. 0.25% diss hematite and .1% FC limonite. Weak epidote in some mafic zones.
		3.5 - 15.8	Replaces Felsics Moderate Albite	Pervasive Weak Silicification Replaces Felsics Moderate Clay
		15.8 - 58.0	Selective Repl Weak Silicification	Selective Repl Weak Muscovite
		58.0 - 62.0	Selective Repl Weak Albite	Selective Repl Weak Epidote
		62.0 - 72.4	Replaces Felsics Moderate Clay	Patchy Strong Silicification Replaces Mafics Weak Sericitisation
63.7 - 72.3	MxF	band	Fol-str	Felsic dominant, moderate albite altn transitioning into complete clay replacement of feldspars. Minor 1% disseminated limonite but well developed fracture control/stockwork of hematite. Med to crs muscovite altn.
72.3 - 73.1	YO	bxi		Silicified FG that has been brecciated, low movement, limonite, silica matrix supported. Polymictic angular clasts of FG and qtz vein. Moderately silicified
		72.4 - 76.2	Pervasive Strong Silicification	
73.1 - 74.4	YO	bxm		Polyphase Polymictic subrounded silica matrix breccia. Clasts include med grain rounded YC clasts, silicified HU clasts. Matrix is fine grain silica and sooty pyrite that has been oxidized. Hematite and fine grained limonite veining throughout.
74.4 - 75.4	HU	silc		Intensely silicified, 0.5% limonite, minor clay. Center of unit is brecciated, angular clasts of qtz vein in high siliceous matrix.
75.4 - 75.7	YC	matx		Clay, limonite matrix supported, medium grained sub angular silicified clast bx. 50% clast supported. 2% Hematite veining and disseminated. 1% limonite.
75.7 - 88.0	FG	band	Fol-str	Altered gneiss, moderate cy replacement and patchy silicification. Crs sericite replacing muscovite. Minor disseminated limonite and fc hematite.
		76.2 - 88.0	Replaces Felsics Moderate Clay	Patchy Strong Silicification Replaces Mafics Weak Sericitisation
88.0 - 98.4	MxF	band	Fol-str	Weakly altered felsic gneiss, minor silicification and limonite fractures.
		88.0 - 98.4	Pervasive Weak Silicification	
98.4 - 103.0	MxM	biot		Moderate pervasiv clay and chlorite altn of melanocratic zones. 1-2% disseminated limonite.
		98.4 - 103.0	Selective Repl Moderate Clay	
103.0 - 124.0	MxF	band	Fol-str	Variable altered gneiss, patchy weak clay and silicification, minor brassy pyrite and diss hematite. QSP altn 106.5 to 110.4. 1% disseminated sooty sulphides 106.5-107.

Drill Log: CFD0228

Easting	584231.67	Hole Length	221 m	Prospect	Supremo T3	Drill Started	Jun 03, 2012	Comment
Northing	6974249.3	Azimuth	274 °	Target	T3	Drill Completed	Jun 05, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1269.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.3	OVb			
3.3 - 89.0	MxF	augn	Fol-str	Mixed gneiss augen bearing, minor fracture controlled limonite and clay. Local epidote altn. 0.1% blebby pyrite and disseminated hematite.
		3.3 - 25.0	Fracture Controlled Weak Clay	Selective Repl Weak Albite Replaces Felsics Weak Sericitisation
		25.0 - 51.0	Selective Repl Moderate Epidote	
		51.0 - 55.0	Selective Repl Weak Clay	
		87.0 - 89.0	Pervasive Moderate Silicification	Selective Repl Moderate Albite
89.0 - 122.0	MxM	band	Fol-str	Biotite rich gneiss, 0.1% hematite. Fresh.
122.0 - 130.1	FG	augn	Fol-str	felsic gneiss, moderate local pervasive clay and silica altn.]0.25-0.5% fracture controlled limonite. Zones Of 1% diss lim and hematite in clay rich BtS.
		122.0 - 127.5	Replaces Felsics Moderate Albite	Selective Repl Strong Clay
		127.5 - 130.1	Replaces Felsics Moderate Clay	Replaces Mafics Weak Sericitisation
130.1 - 130.4	YO	bxm		Fine grain rounded qtz clasts, clay-weaklimonite matrix supported bx. 0.5% disseminated limonite.
		130.1 - 132.8	Pervasive Strong Clay	Pervasive Strong Silicification
130.4 - 131.0	FC	fgrn		Felsic dike, highly altered, intense clay and pervasive silica, dike has been fractured and infilled with oxidized angular silicified clast, 50% matrix, 50% clast supported bx. Clasts are of smokey silica and dike material
131.0 - 131.3	YO	bxi		med grain angular mineralized felsic gneiss clast, recrystallized qtz matrix bx. Clasts have 2-3% disseminated hematite, matrix 1% limonite 0.5% hematite.
131.3 - 134.8	HU	mud		Intense clay and limonite altered unit, most likely dike, 5-7% limonite, 2% local hematite (patchy bright red)
		132.8 - 134.0	Pervasive Intense Clay	Pervasive Moderate Silicification
		134.0 - 141.0	Pervasive Strong Clay	Pervasive Moderate Silicification
134.8 - 140.4	FC	fgrn		Intensely altered dike, strong clay, weak to moderate limonite, stocwork hematite veining and staing on FC. Locally cut by limonite planar veins.
140.4 - 141.0	YO	bxm		fine grain rounded qtz clast clay matrix breccia, 3% limonite, mottled hematite staining 2%.
141.0 - 190.8	MxF	augn	Fol-str	Felsic augen gneiss, local moderate clay replacement of felsics, intervals of minor disseminated limonite. Weak silicification throughout.
		155.4 - 156.5	Replaces Felsics Strong Clay	
		156.5 - 167.0	Selective Repl Weak Silicification	
		167.0 - 172.4	Replaces Felsics Moderate Clay	
		172.4 - 174.0	Selective Repl Weak Clay	
		174.0 - 175.2	Replaces Felsics Moderate Calcite	
		175.2 - 178.4	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
190.8 - 201.3	FC	fgrn		Aphanitic felsic dike, subhedral fsp phenocrysts, multiorientation mily qtz veining. Strong silicification. Minor fracture controlled limonite,
		190.8 - 202.0	Pervasive Strong Silicification	
201.3 - 205.1	FC	fgrn		Continuation of dike but moderatly clay altered and 1% disseminated limonite and fracture controlled heamtite. Segments of BtS wall rock rafted within and highly altered. Laminated limonite alteration starting at fractures.
		202.0 - 205.1	Pervasive Moderate Silicification	Pervasive Strong Clay

205.1 - 221.0	MxF	augn	Fol-str	Mixed gneiss, moderate clay/albite altn. Weal 0.25% diss limonite and fracture controlled hematite staining.
205.1 - 221.0				Replaces Felsics Weak Clay

Drill Log: CFD0229

Easting	584121.67	Hole Length	223.36 m	Prospect	Supremo T3	Drill Started	Jun 03, 2012	Comment
Northing	6973552.84	Azimuth	273 °	Target	T3	Drill Completed	Jun 05, 2012	
Projection	UTM7-NAD83	Dip	-49 °	Geologist	CRedmond	Core Size	NQ	
Survey method	RTK GPS	Elevation	1062.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			
9.0 - 81.3	FG	augn		Felsic augen bearing gneiss. Moderate sericite, weak silicification & clay alteration. Weak disseminated lim & hem 0.15%, disseminated brassy/bronzy pyrite 0.15%. Significant weathering on the top 20m. Possible pitted weathered sulphides. Local massive quartz vein.
		9.0 - 81.3	Pervasive Moderate Sericitisation	Selective Repl Weak Clay Patchy Weak Silicification
81.3 - 104.5	MxM	band	Fol-mod	Mixed mafic gneiss. Local quartz veins, massive qz vein located at 84.80 - 87.40m, local quartz veins with overprinting of limonite veins and calcite selvages. Local small limonite veins cross cutting foliation. Weak silicification, sericite, epidote, & moderate chlorite alteration. Weak fracture controlled lim & hem 0.15% with disseminated brassy pyrite 0.15%. Small local vugs
		81.3 - 104.5	Patchy Weak Silicification	Pervasive Weak Sericitisation Selective Repl Weak Epidote
104.5 - 110.6	IV	fgn		Andesite dyke, interval of small weak zone located in the middle of the lith unit. Local intense clay alteration. Fracture controlled lim & hem 0.15%, with local interval of disseminated lim & hem 0.5%. Small calcite veins located outside of clay alteration.
		104.5 - 107.0		
		107.0 - 109.3	Pervasive Intense Clay	
		109.3 - 110.6		
110.6 - 133.5	MxF	band	Fol-mod	Mixed felsic gneiss. Moderate silicification, sericite alteration. Local intervals of strong silicification, moderate albite, & weak clay alteration. Moderate/weak disseminated lim & hem 0.5/1% with weak disseminated brassy pyrite 0.15%, local intervals of frac controlled lim & hem 0.25%.
		110.6 - 133.5	Pervasive Strong Silicification	Pervasive Moderate Albite Pervasive Moderate Sericitisation
133.5 - 139.3	MxM	band		Mixed mafic gneiss. Weak silicification, epidote, sericite, clay, & moderate chlorite alteration. Fracture controlled lim & hem 0.25%. Local deformed quartz veins, & small limonite veins, no orientation marks.
		133.5 - 139.3	Patchy Moderate Silicification	Patchy Weak Sericitisation Selective Repl Weak Clay
139.3 - 140.0	SZ		Crenul	Small shear zone. Weak clay alteration with fracture controlled lim 0.15%.
		139.3 - 140.0	Selective Repl Weak Clay	
140.0 - 170.1	MxM	band	Fol-mod	Mixed mafic gneiss. Moderate silicification, sericite, weak epidote & local clay alteration. Local strong silicification. Fracture controlled lim & hem 0.15%, with weak disseminated brassy pyrite 0.1%. Local intervals of moderate/strong lim & hem 0.5%-2% with sooty sulphides 1%. Local small cm. wide quartz veins, with small local calcite veins. Small fault gouge 167.80 - 167.92m.
		140.0 - 142.2	Pervasive Strong Silicification	
		142.2 - 170.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Selective Repl Weak Epidote
170.1 - 172.3	SZ	lamn	Crenul	Shear zone, start of zone. Fracture controlled lim & hem 0.5%, local interval of strong disseminated lim & hem 3%. Strong chlorite & epidote alteration.
		170.1 - 172.3	Pervasive Strong Chlorite	Pervasive Moderate Epidote
172.3 - 172.8	IV			Andesite dyke, middle of zone. Strong disseminated lim 4% with hematite staining 4%. Weak local silicification alteration. Local patchy sulphide facies, 0.5% sooty sulphides.
		172.3 - 173.3	Pervasive Weak Silicification	Pervasive Moderate Clay
172.8 - 173.3	HU			Hydrothermally unrecognizable protolith. Strong disseminated lim & hem 4%. Associated with moderate clay alteration. Possible phenocrysts or augens?
173.3 - 174.4	YC	bx		Silicified-clast breccia. Silicified sub-angular monomictic clasts, matrix & local clast supported massive limonite matrix with local sooty sulphide matrix breccia. With local moderate clay & silicification alteration. Sooty sulphides 3% from 73.6 - 73.85m.
		173.3 - 174.4	Pervasive Moderate Silicification	Pervasive Moderate Clay

174.4 - 177.8	FG	band	Fol-wk	Felsic gneiss. Strong silicification, sericite, with weak clay alteration. QSP alteration. Strong disseminated lim & hem 3%, with local sooty disseminated sulphides 3%.		
		174.4 - 177.8	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay	
177.8 - 179.1	MxM	band	Fol-mod	Mixed mafic gneiss. Weak fracture controlled lim & hem 0.15%, disseminated bronzy pyrite 0.15%. Moderate sericite, chlorite, with weak epidote & silica alteration.		
		177.8 - 179.1	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite	Patchy Weak Epidote	
179.1 - 180.1	SZ	lamn	Crenul	Shear zone. Strong chlorite, and moderate epidote alteration. Weak frac controlled lim 0.15%.		
		179.1 - 180.1	Pervasive Strong Chlorite	Pervasive Moderate Epidote		
180.1 - 216.1	MxM	band	Fol-mod	Mixed mafic gneiss. Weak fracture controlled lim & hem 0.15%, disseminated bronzy pyrite 0.15%. Moderate sericite, chlorite, with weak epidote & silica alteration. Local quartz veins, parallel to foliation.		
		180.1 - 216.1	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite	Patchy Weak Epidote	
216.1 - 223.4	MxF	band	Fol-str	Mixed felsic gneiss. Strong silicification, moderate sericite alteration. Weak fracture controlled lim & hem 0.10%, with disseminated bronzy pyrite 0.1%.		
		216.1 - 223.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		

Drill Log: CFD0230

Easting	585371.41	Hole Length	328 m	Prospect	Double Double	Drill Started	Jun 03, 2012	Comment	Multiple geotechs
Northing	6973427.41	Azimuth	174 °	Target		Drill Completed	Jun 07, 2012		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	GNewton	Core Size	NQ		
Survey method	RTK GPS	Elevation	1086.6 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 18.0	OVb			Casing to 18m. Recovered material is mainly BtS
18.0 - 35.0	BtS			Strongly to intensely clay-altered & Chltd Bt-Fspr-Qz schist. Broken & rubbly through most of interval & locally reduced to gouge. ~0.25% Lim along fractures.
		18.0 - 19.6	Pervasive Intense Clay	Replaces Mafics Strong Chlorite Original texture obscured or totally destroyed. Clay alteration Fspr & Chlzn of Bt.
		19.6 - 21.1	Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite Original texture mostly visible, little gouge. Clay alteration of F & Chlzn of Bt.
		21.1 - 23.0	Pervasive Intense Clay	Replaces Mafics Strong Chlorite Original texture obscured or totally destroyed. Clay alteration Fspr & Chlzn of Bt.
		23.0 - 24.4	Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite Original texture mostly visible, little gouge. Clay alteration of F & Chlzn of Bt.
		24.4 - 26.5	Pervasive Intense Clay	Replaces Mafics Strong Chlorite Original texture obscured or totally destroyed. Clay alteration Fspr & Chlzn of Bt.
		26.5 - 29.0	Pervasive Strong Silicification	Replaces Felsics Strong Clay Replaces Mafics Moderate Chlorite Pervasive silicification overprinting earlier Clay-Chl-Epid. Clay-alteration as above. Epid as hairline stringers & selvages around stringers.
		29.0 - 31.1	Pervasive Weak Silicification	Replaces Felsics Strong Clay Replaces Mafics Moderate Chlorite Silicification less intense: Clay-Chl has broken down the rock into
		31.1 - 32.7	Replaces Felsics Strong Clay	Replaces Mafics Moderate Chlorite Original texture mostly visible, little gouge. Clay alteration of F & Chlzn of Bt.
		32.7 - 38.2	Pervasive Moderate Silicification	Replaces Felsics Strong Clay Replaces Mafics Moderate Chlorite Pervasive silicification overprinting earlier Clay-Chl. Clay-Chl alteration as above
35.0 - 52.0	BtS			Qz-Fspr-Bt gneiss with Fspr augens. Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt
		38.2 - 38.6	Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite Broken/rubbly core & gouge
		38.6 - 45.1	Pervasive Moderate Silicification	Replaces Felsics Strong Clay Replaces Mafics Moderate Chlorite Pervasive silicification overprinting earlier Clay-Chl. Clay-Chl alteration as above
		45.1 - 45.3	Pervasive Intense Clay	Replaces Mafics Strong Chlorite Broken/rubbly core & gouge
		45.3 - 49.8	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Weak Sericitisation Pervasive silicification overprinting earlier Clay-Chl. Clay-Chl alteration as above. Fgr WM growing // foln
		49.8 - 50.6	Replaces Felsics Strong Clay	Replaces Mafics Moderate Chlorite Broken core with stronger clay-chl alteration
		50.6 - 52.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Selective Repl Moderate Sericitisation Pervasive silicification overprinting earlier Clay-Chl. Clay-altn of Fspr, Ser & WM // foln, Chlzn of Bt

52.0 - 80.4	MxF	augn	Qz-Fspr-Bt gneiss with Fspr augens. Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt. ~0.25% Lim along fractures			
		52.5 - 57.0	Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		57.0 - 60.3	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		60.8 - 63.8	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite	Clay altn of Fspr, Sericite bands & Fgr WM growing // foln, Chlzn of Bt
		63.8 - 74.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		74.5 - 75.0	Replaces Mafics Intense Clay	Replaces Felsics Intense Chlorite		Broken/rubbly core & gouge
		75.0 - 89.9	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
80.4 - 83.3	MxF	augn	Qz-Fspr-Bt gneiss with Fspr augens. Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt			
83.3 - 89.9	MxF	augn	Qz-Fspr-Bt gneiss with Fspr augens. Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt			
89.9 - 90.6	MxF		Moderately Clay-Ser altered MxF. ~0.5% diss Lim.			
		89.9 - 90.6	Pervasive Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Strongly clay-altered, limonitic gneiss
90.6 - 98.5	MxF	augn	Qz-Fspr-Bt gneiss with Fspr augens. Pervasive silicification, Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt. Cut by network of Qz+Epid stringers w. trace Py			
		90.6 - 100.2	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Weak Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
98.5 - 110.0	BtS		Bt-Fspr-Qz schist. Pervasively silicified, Clay altn of Fspr, sericite & Fgr WM growing // foln, Chlzn of mafics. Trace Lim & Hm along fractres.			
		100.2 - 103.1	Pervasive Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		103.1 - 104.6	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation	Replaces Mafics Strong Chlorite	Broken core with stronger clay-ser-chl alteration
		104.6 - 106.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		106.5 - 108.0	Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser & WM // foln, Chlzn of Bt
		108.0 - 110.0	Pervasive Intense Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting earlier Clay-Chl. Clay-altn o Fspr, Ser // foln
110.0 - 111.0	BtS		Bt-Fspr-Qz schist. Moderate to strong pervasive silicification, strong Clay altn of Fspr, sericite & Fgr WM growing // foln, Chlzn of mafics. Trace Lim & Hm along fractres.			
		110.0 - 111.2	Pervasive Strong Clay	Selective Repl Strong Sericitisation	Replaces Mafics Moderate Chlorite	Clay altn of Fspr, Sericite bands & Fgr WM growing // foln, Chlzn of Bt
111.0 - 111.1	YC		12cm Vein of matrix-supported monomictic breccia. 50% Mgr-Cgr angular clasts of silicified BtS(?) in a matrix of aphanitic orange limonitic, clay-altered siliceous rock flour.			
111.1 - 111.8	BtS					
		111.2 - 112.8	Pervasive Intense Clay			Grey gouge
111.8 - 112.4	PyF		Intensely clay-altered: grey mud cut by multiple bands of black massive sulphide matrix Bx. Approx 30% bands of matrix-supported Bx with Fgr rounded It grey rock clasts in a black massive sooty sulphide matrix. Walls of Bx are light grey clay gouge with ~1.5% diss sooty sulphides			

112.4 - 136.2	BtS	Bt-Fspr-Qz schist. Clay altn of Fspr, Ser altn & Fgr WM growing // foln, Chlzn of mafics. Foln stretched/strained, at high angle TCA			
112.8 - 113.9		Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation	Replaces Mafics Moderate Chlorite	Very weak carbonate alteration? Odd green colour, but no rxn HCl except Vns
113.9 - 120.0		Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
120.0 - 120.7		Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation	Moderate Chlorite	Broken core with stronger clay-ser-chl alteration
120.7 - 136.0		Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
136.0 - 143.5		Pervasive Strong Silicification	Pervasive Intense Clay	Selective Repl Strong Sericitisation	Pervasive silicification overprinting strongly clay-ser altered roc
136.2 - 143.5	BtS	Strongly clay-altd schist(?). Original texture destroyed in places. Foln stretched/strained, at high angle TCA where visile..			
143.5 - 153.8	BtS	Bt-Fspr-Qz schist. Clay altn of Fspr, Ser altn & Fgr WM growing // foln, Chlzn of mafics. Foln stretched/strained, at high angle TCA			
143.5 - 148.2		Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Chlzn mainly along fractures
148.2 - 154.5		Pervasive Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Chlzn mainly along fractures
153.8 - 204.4	MxM	Qz-Fspr-Bt gneiss. Leucosomes strongly pervasively silicified w trace-3% diss Fgr Hm. Melanosomes weakly-moderately silicified locally & Clay+Ser+/-Chl altered throughout. ~0.25% Lim along fractures locally.			
154.5 - 161.8		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification, stronger in leucosomes. Foln-// bands o Clay-Ser altn in leucosomes & throughout melanosomes. Chlzn Bt in melanosomes, strongest along fractures.
161.8 - 162.5		Pervasive Intense Clay	Pervasive Intense Sericitisation		Highly altered: original texture destroyed
162.5 - 173.0		Pervasive Strong Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification, stronger in leucosomes. Foln-// bands o Clay-Ser altn in leucosomes & throughout melanosomes
173.0 - 174.1		Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Leucosomes silicified Foln-// bands of Clay-Ser altn in leucoson & throughout melanosomes. Bands & wisps of Epid // foln
174.1 - 179.3		Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Pervasive silicification, stronger in leucosomes. Foln-// bands o Clay-Ser altn in leucosomes & throughout melanosomes
179.3 - 184.6		Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Pervasive silicification, stronger in leucosomes. Foln-// bands o Clay-Ser altn in leucosomes & throughout melanosomes. Band wisps of Epid // foln
184.6 - 185.9		Pervasive Strong Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Strong pervasive silicification. Foln-// bands of Clay-Ser altn in leucosomes & throughout melanosomes. Bands & wisps of Epi foln
185.9 - 191.4		Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Leucosomes silicified Foln-// bands of Clay-Ser altn in leucoson & throughout melanosomes. Bands & wisps of Epid // foln
191.4 - 204.4		Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Strong Sericitisation	Pervasive silicification, stronger in leucosomes. Foln-// bands o Clay-Ser altn in leucosomes & throughout melanosomes. Band wisps of Epid // foln
204.4 - 220.7	IV	phyr	Fspr-phyr intermediate dyke. ~25% overall, locally from 10-35%, cloudy white Fgr-Mgr, elongated to equant, irregular to well-formed white Fspr megacrysts in an aphanitic black groundmass. Sharp planar contacts. ~7cm aphanitic chilled margin @ uppper contact. Individual Fspr Xtls in bands ~// upper contact & bands of +/- Fspr contact also ~// upper contact. Strong perv silicification, mod Ser +/- Chl along fractures locally. No visible mineralization.		
204.4 - 220.7		Pervasive Moderate Silicification			Silicified or siliceous dyke.
220.7 - 318.0	BtS	Bt-Fspr-Qz schist. Silicification locally, Clay altn of Fspr, Ser altn & Fgr WM growing // foln, Chlzn of mafics. Trace diss VF gr Py.			
220.7 - 223.6		Pervasive Strong Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting Clay-Ser alteration
223.6 - 230.0		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting Clay-Ser alteration. Bands/patches of diss Epid // foln
230.0 - 327.0		Patchy Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Pervasive silicification overprinting Clay-Ser alteration locally. Bands/patches of diss Epid // foln

318.0 - 328.0	MxM	augn	Qz-Fspr-Bt gneiss with Fspr augens. Pervasive silicification, Clay altn of Fspr, bands of Ser // foln & Fgr WM // foln. Chlzn of Bt locally. Patches/bands of Epid // foln. Trace diss Py in in melanosomes. EOH @ 327m.
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Drill Log: CFD0231

Easting	584265.91	Hole Length	267 m	Prospect	Supremo T3	Drill Started	Jun 05, 2012	Comment
Northing	6974251.29	Azimuth	273 °	Target	T3	Drill Completed	Jun 07, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1270.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.3	OVb			
3.3 - 88.2	MxF	augn	Fol-str	Felsic gneiss, patchy epidote 29m-31
		58.0 - 72.0		Replaces Mafics Weak Sericitisation
		72.0 - 172.0		Pervasive Moderate Silicification Selective Repl Weak Albite Selective Repl Weak Clay
88.2 - 89.1	Yx	bxi		Strongly albite altered crackle bx. Interstitial matrix of 2% silica and limonite.
89.1 - 182.0	MxF	augn	Fol-str	Augen gneiss and BtS, local minor clay and weak disseminated limonite.
		172.3 - 181.2		Selective Repl Weak Clay
		181.2 - 182.3		Pervasive Moderate Clay Replaces Clasts Moderate Silicification
182.0 - 183.5	Ylim	bxm		Moderately silicified FC sun angular clast, limonite matrix breccia with hematitic veining and fine grain sooty sulphided within porphyritic IV clasts.
		182.3 - 187.7		Pervasive Intense Clay
183.5 - 187.8	IV	fgrn		Highly limonite altered dike, fine grain with some relict phenocrysts present. Strong to intense clay, limonite and hematite. Disseminated limonite and hematite veining or fracture controlled mineralization.
		187.7 - 188.2		Pervasive Strong Silicification Selective Repl Weak Clay
187.8 - 188.2	FG	silc		Strongly silicified felsic gneiss, minor crackle breccia at upper contact with dike. 0.5% disseminated hematite and limonite. Also moderate clay alteration and minor hematitic fracture controlled staining.
188.2 - 188.3	YC	bxm		rounded silica clasts in a clay matrix with 1.5% disseminated hematite and minor blebby sooty sulphides.
		188.2 - 188.3		Replaces Matrix Intense Clay Replaces Clasts Strong Silicification
188.3 - 191.1	FG	silc		FG, relict foliation, strong silicification, fracture controlled limonite and hematite. 0.25% disseminated patchy limonite.
		188.3 - 191.0		Pervasive Strong Silicification
		191.0 - 216.0		Pervasive Moderate Silicification Replaces Felsics Weak Clay Selective Repl Weak Albite
191.1 - 237.1	FG	augn	Fol-str	FG, augen bearing gneiss, moderate albitization and silicification. Fracture controlled limonite throughout with local 0.5% disseminated limonite. Local crs muscovite associated with minor clay replacement of fspars.
		216.0 - 219.0		Selective Repl Moderate Sericitisation
		219.0 - 237.0		Pervasive Moderate Silicification Replaces Felsics Weak Clay Selective Repl Weak Albite
237.1 - 251.5	FC	fgrn		Aphanitic dike, strong silicification, qtz sericite bleaching? Stockwork of fracture controlled limonite and 0.75-1% disseminated limonite from 236-242.85m, 248.6-251.48m
		237.5 - 251.5		Pervasive Strong Silicification Pervasive Moderate Sericitisation Pervasive Weak Clay
251.5 - 267.0	FG	augn	Fol-str	FG, augen bearing gneiss, moderate albitization (selective replacement of feldspars) and silicification (pervasive), weak clay altn (selective replacement of feldspars in albitized regions). Fracture controlled limonite throughout with local 0.25% disseminated oxides (lim, hem).
		251.5 - 252.1		Pervasive Strong Silicification
		253.1 - 267.0		Selective Repl Strong Albite Selective Repl Weak Clay Pervasive Weak Sericitisation

Drill Log: CFD0232

Easting	584332.06	Hole Length	251 m	Prospect	Supremo T3	Drill Started	Jun 05, 2012	Comment
Northing	6974501.19	Azimuth	270 °	Target	T3	Drill Completed	Jun 08, 2012	
Projection	UTM7-NAD83	Dip	-53.5 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1262.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.6	OVb			
10.6 - 16.4	FG	band	Fol-str	Felsic gneiss. Moderate silicification, sericite alteration. Weak disseminated hem staining 0.1%, trace amounts of brassy pyrite 0.1%.
		10.6 - 16.4	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
16.4 - 86.3	MxF	band	Fol-str	Mixed felsic gneiss, local mafic bands throughout unit. Moderate silicification, sericite, weak patchy clay, albite & chlorite alteration. Weak fracture controlled lim 0.1% with hem staining 0.1%. Local intervals of disseminated lim & hem staining increasing to 0.25%, no XRF hits.
		16.4 - 86.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
86.3 - 91.0	IV	cgrn		Porphyritic andesite dyke, non-mineralized. Small (mm) local calcite veins. Weak fracture controlled lim 0.1%, with bronzy pyrite 0.1%.
		86.3 - 91.0		
91.0 - 111.5	FG	augn	Fol-str	Felsic augen gneiss. Strong silicification, moderate albite, sericite, weak clay alteration. Disseminated lim 0.25% & hem 0.20% staining, with weak bronzy pyrite 0.1%.
		91.0 - 111.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Selective Repl Moderate Albite
111.5 - 145.7	MxF	band	Fol-str	Mixed felsic gneiss, with local mafic bands and augen texture. Moderate sericite, weak silicification, weak epidote alteration. Weak fracture controlled lim & hem 0-0.15%, with local disseminated lim & hem 0-0.25% and brassy disseminated pyrite 0.1%.
		111.5 - 148.2	Pervasive Weak Silicification	Pervasive Moderate Sericitisation Selective Repl Weak Epidote
145.7 - 171.9	FG	augn	Fol-str	Felsic-dominant gneiss; mod pervasive albite, clay, with weak sericite and silica alteration. Local intervals of moderate silicification with weak patchy clay and/or sericite alteration. Moderate disseminated lim 0.3% & hem 0.2% staining. Small local hematite veins, and one calcite vein.
		148.2 - 156.3	Pervasive Moderate Albite	Pervasive Moderate Clay Pervasive Weak Sericitisation
		156.3 - 161.8	Pervasive Moderate Silicification	Patchy Weak Clay
		161.8 - 165.7	Pervasive Moderate Albite	Pervasive Moderate Clay Patchy Weak Silicification
		165.7 - 168.5	Pervasive Moderate Silicification	
		168.5 - 171.9	Pervasive Moderate Albite	Pervasive Moderate Clay Patchy Weak Silicification
171.9 - 172.8	YC	bx		Silicified-clast breccia. Medium to coarse-grain brecciated sub-angular in-situ clasts intensely silicified, limonite clay matrix, monomictic clasts. Strong disseminated lim 1.25% & hem 0.75% staining. Silicification clast replacement, intense clay matrix alteration. From 171.09 - 171.23m Ylim, fine-grain rounded silicified clasts, within a limonite clay matrix supported.
		171.9 - 172.8	Replaces Clasts Intense Silicification	Replaces Matrix Intense Clay
172.8 - 173.1	IV	fgrn		Andesite dyke, weakly brecciated. Possible silicified clast brecciated xenoliths. Strong disseminated lim 1.25% & hem 0.75% staining.
		172.8 - 173.1	Replaces Clasts Moderate Silicification	
173.1 - 174.3	Ylim	bx		Limonite clay breccia, strong zone. Fine-grain, matrix supported; rounded silica & andesite clasts, limonite clay matrix. Local andesite interval between 173.52 - 173.70m, possible coarse-grain andesite clasts. Strong disseminated lim 2% with 1.5% hem staining. Intense clay matrix, with very weak silica clast alteration.
		173.1 - 174.3	Replaces Matrix Intense Clay	Replaces Clasts Weak Silicification
174.3 - 181.6	IV	fgrn		Andesite dyke, strong-intense zone. Fine grained porphyritic and aphanitic intervals; strong pervasive clay atln; local mixed gneiss from 180.06-180.93); strong disseminated lim 2% with 1.5% hem staining. Possible overprinting hematite veins. Possible small quartz veins?
		174.3 - 181.6	Pervasive Intense Clay	

181.6 - 212.9	MxF	band	Fol-mod	Mixed felsic gneiss, felsic dominated. Beginning of unit starts with moderate albite, clay, and weak sericite alteration. Local interval of strong silicification, sericite alteration leading away from the strong zone. Weak disseminated lim 0.3% with 0.2% hem staining. Strong silicification associated with weak fracture controlled lim & hem 0.1%, with brassy pyrite 0.1% and small sooty sulphide stringers. From 198.30 - 212.88m moderate disseminated lim 0.75%, 0.75% hem & sooty disseminated sulphides 0.5% , associated with moderate albite, clay, and silica alteration.		
			181.6 - 187.0	Pervasive Moderate Clay	Pervasive Moderate Albite	Patchy Weak Sericitisation
			187.0 - 198.3	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
			198.3 - 212.9	Pervasive Moderate Clay	Pervasive Moderate Albite	Pervasive Moderate Silicification
212.9 - 214.9	BtS	lamn	Fol-str	Biotite schist, located in the hanging wall next to a moderate shoulder zone, possible old dyke that has been foliated? Moderate chlorite & weak silica alteration, with weak fracture controlled lim, hem 0.1% & weak disseminated brassy pyrite 0.1% . Very small (mm) local calcite veins.		
			212.9 - 214.9	Pervasive Moderate Chlorite	Patchy Weak Silicification	
214.9 - 219.8	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, moderate sericite alteration. Weak fracture controlled lim, hem 0.1% with weak brassy pyrite 0.1%. Local large (cm) quartz veins.		
			214.9 - 219.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	
219.8 - 222.8	FG	band	Fol-wk	Felsic gneiss, weak zone. Moderate clay, albite, weak silicification & sericite alteration. Disseminated lim & hem 0.5%, with local hematite veins. 221.55 - 221.64m limonite clay matrix with angular silicified matrix supported clast breccia vein.		
			219.8 - 222.8	Pervasive Moderate Clay	Patchy Moderate Albite	Patchy Weak Silicification
222.8 - 251.0	MxF	band	Fol-mod	Mixed felsic gneiss. Strong silicification, moderate sericite alteration. Weak fracture controlled lim & hem 0.1%, with brassy pyrite 0.1%. Local interval of weak disseminated lim 0.25% & hem 0.15% with brassy beby pyrite 0.1%, associated with moderate silicification, albite, & weak clay alteration located from 237 - 239.39m. Local limonite veins, possibly brecciated small(mm).Local small(mm-cm) quartz veins some exhibit hematite staining, small(mm) calcite veins.		
			222.8 - 237.0	Pervasive Strong Silicification		Pervasive Moderate Sericitisation
			237.0 - 239.4	Pervasive Strong Silicification	Pervasive Moderate Albite	Pervasive Weak Clay
			239.4 - 251.0	Pervasive Strong Silicification		Pervasive Moderate Sericitisation

Drill Log: CFD0233

Easting	585371.22	Hole Length	245 m	Prospect	Double Double	Drill Started	Jun 07, 2012	Comment
Northing	6973428.71	Azimuth	176 °	Target	DOU006	Drill Completed	Jun 10, 2012	
Projection	UTM7-NAD83	Dip	-61.5 °	Geologist	GNewton	Core Size	NQ	
Survey method	RTK GPS	Elevation	1086.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 15.5	OVB			
15.5 - 23.2	MxF	0.0 - 23.0 mgrn	Selective Repl Weak Clay Fol-str	Replaces Felsics Moderate Albite mixed gneiss, felsic dominant, blocky interval at top of hole
		23.0 - 41.0	Selective Repl Weak Clay	Replaces Felsics Moderate Epidote
23.2 - 45.1	MxM	fgrn	Fol-str	Dominant biotite schist with intervals of amphibole-epidote rich rock (AmBts) and minor felsic gneiss. Discrete clay-limonite along fractures at 24-26m; weak sericite at 43-45m
45.1 - 69.3	MxF	mgrn	Fol-str	mixed felsic gneiss and biotite schist; very blocky from 45.1-61m. Amphibole-epidote rich interval from 64.9-67m.
		62.0 - 68.0	Selective Repl Moderate Epidote	
69.3 - 91.2	BtS	pblst	Fol-str	Biotite schist
91.2 - 110.3	MxF	85.0 - 100.2 mgrn	Replaces Felsics Weak Clay Mixed felsic gneiss & Bt schist.	Selective Repl Weak Sericitisation Very broken throughout.
		100.2 - 100.7	Replaces Felsics Strong Clay	Replaces Mafics Strong Chlorite Broken core & gouge. Strong fracture-controlled to pervasive (Chlzn
		100.7 - 105.4	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation Clay-altn of Fspr. Sericite bands & Fgr white mica growing // fc
		105.4 - 106.5	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation Replaces Mafics Moderate Epidote Silica overprinting Clay+Ser
		106.5 - 109.0	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation Replaces Mafics Moderate Epidote
		109.0 - 110.2	Selective Repl Moderate Epidote	Selective Repl Weak Sericitisation Bads/patches of diss Epid // foln
		110.2 - 111.1	Pervasive Moderate Silicification	Silicified or siliceous dyke
110.3 - 116.4	IV	augn		Black siliceous or silicified dyke. Upper & lower contacts both faulted/broken. From 110-111 crowded porphyritic texture with ~50% Mgr white Fspr Xtls in an aphanitic black groundmass. 111-116 black & aphanitic throughout. Very broke.
		111.1 - 118.0	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation Replaces Mafics Strong Chlorite Fault filled with strongly altered rubble & gouge.
116.4 - 142.2	MxF	augn		Mixed felsic geiss & Bt schist
		118.0 - 123.1	Pervasive Moderate Silicification	Replaces Felsics Weak Clay Selective Repl Weak Sericitisation Clay-altn of Fspr. Ser bands & Fgr white mica growing // foln. Wisps & patches of diss Epid. Pervasive silicification overprinting Clay+Ser+Epid
		123.1 - 139.8	Patchy Weak Silicification	Replaces Felsics Weak Clay Selective Repl Weak Sericitisation Clay-altn of Fspr. Ser bands & Fgr white mica growing // foln. Wisps & patches of diss Epid. Pervasive silicification overprinting Clay+Ser+Epid
		139.8 - 140.3	Strong Clay	Strong Clay-Chl altn of rubble & gouge.
		140.3 - 142.2	Pervasive Moderate Silicification	Replaces Felsics Strong Clay Selective Repl Moderate Sericitisation Stronger Clay-Ser altn along fractures, but present throughout interval.

142.2 - 142.3	Ycarb	matx	12cm crackle Bx Vn. Sharp, irregular, non-// contacts. 90% in-situ, angular clasts of silicified MxF/FG in 10% aphanitic orange limonitic carboate matrix.			
142.2 - 143.2			Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation		
142.3 - 163.2	MxF	Mixed felsic geiss & Bt schist				
143.2 - 147.3			Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
147.3 - 154.4			Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation	Clay-altn of Fspr. Ser bands & Fgr white mica growing // foln. Pervasive silicification overprinting Clay+Ser
154.4 - 171.1			Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Clay-altn of Fspr. Ser bands & Fgr white mica growing // foln. Pervasive silicification overprinting Clay+Ser
163.2 - 183.2	FG	Felsic Qz-Fspr-Bt gneiss. Strongly broken/rubbly intervals from: 172.25-172.7, 173.9-174.35, 175.4-175.9, 18-179.2, 180.55-181.1 & 182.1-183.2				
171.1 - 174.4			Patchy Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Strong clay altn of Fspr, WM growing // foln. Patches of silicification overprinting Clay+Ser. <1mm Cte stringers with m carbonatized haloes.
174.4 - 177.1			Patchy Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Strong clay altn of Fspr, WM growing // foln. Patches of silicification overprinting Clay+Ser
177.1 - 177.5			Patchy Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Strong clay altn of Fspr, WM growing // foln. Patches of silicification overprinting Clay+Ser. <1mm Cte stringers with m carbonatized haloes.
177.5 - 181.1			Patchy Moderate Silicification	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation	Strong clay altn of Fspr, WM growing // foln. Patches of silicification overprinting Clay+Ser
181.1 - 182.3			Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation	Remnant gneissic texture still visible	
182.3 - 183.2			Pervasive Intense Clay	Pervasive Intense Sericitisation		Original texture completely destroyed
183.2 - 184.5			Pervasive Intense Clay	Pervasive Intense Sericitisation	Pervasive Weak Calcite	Reactive with acid throughout
183.2 - 183.6	HU	Intensely clay-alted FG(?) w original texture destroyed. 3% diss & fracture-controlled Lim.				
183.6 - 184.2	FG	Strongly broken & clay-ser altered FG.				
184.2 - 184.5	HU	Intensely clay-alted FG(?) w original texture destroyed. 3% diss & fracture-controlled Lim.				
184.5 - 184.6	PyF	Lt to dk grey intensely clay-alted rock with~2% diss/wispy sooty ^ fresh VFgr Py				
184.5 - 184.6			Pervasive Intense Clay	Altered to grey clay		
184.6 - 184.9	Ycarb	Clast	Clay-alted FG angular clasts in a yellowish orange unconsolidated Cte+Lim matrix			
184.6 - 184.9			replace matrix Strong Clay	Aphanitic, clay altered Bx matrix in Ycarb		
184.9 - 185.2	PyF	Clast-supported Bx with intensely clay-alted FG(?) angular clasts in a dk grey clay-alted matrix w. ~2% diss VFgr sooty & fresh Py				
184.9 - 185.2			Pervasive Intense Clay	Altered to grey clay		
185.2 - 186.8	FG	Silicified felsic gneiss				
185.2 - 186.8			Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
186.8 - 192.0	IV	phyr	Silicified or siliceous Fspr-phyr dyke. Sharp planar upper contact, faulted/shattered lower contact. ~35% white to pale green Fgr to Mgr Fspr Xtls in a black aphanitic groundmass. Trace diss VFgr fresh Py			
186.8 - 192.0			Pervasive Moderate Silicification	Fracture Controlled Weak Talc		Pervasive silicification, greenish talc gouge on fractures
192.0 - 238.0	FG	Lt grey felsic gneiss				
192.0 - 200.2			Replaces Mafics Strong Clay	Moderate Sericitisation		Broken, altered rock @ lower dyke contact
200.2 - 238.0			Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Clay-altn of Fspr. Ser bands & Fgr white mica growing // foln. Pervasive silicification overprinting Clay+Ser
238.0 - 245.0	MxM	augn	Mafic-dominated mixed gneiss. Sharp change from felsic gneiss to more Bt-rich, melanosome-dominated MxM. No change in orientation of foln.. Augen texture locally. EOH @ 245			
238.0 - 245.0			Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Clay-Ser as above. Bands & patches of diss Epid // foln. Silicification overprinting all.

Drill Log: CFD0234

Easting	584301.05	Hole Length	308 m	Prospect	Supremo T3	Drill Started	Jun 07, 2012	Comment
Northing	6974250.32	Azimuth	270 °	Target	T3	Drill Completed	Jun 10, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1268.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.2	OVB			
3.2 - 4.5	FG	0.0 - 6.2 augn	Fol-str	Pervasive Moderate Silicification Augen-bearing felsic gneiss; weak-mod silc and albite altn; 0.25% diss lim
4.5 - 6.2	FG	bx		Felsic gneiss; strong perv silicification with local intense silc-seric altn from 15.4-16m; strong limonite stockwork causing localized early-stage brecciation; local narrow breccia from 16.18-16.33m- fine to med grained, intensely silicified and sericified angular monomictic clasts, in a fine grained biotite matrix (clast and matrix supported regions)
6.2 - 7.7	Yx	bx		Crackle Breccia; early stage of deformation: medium-grained, unrotated angular clasts of moderately silicified, albitised felsic gneiss (monomictic); matrix composed of sericitized biotite and limonite vein stockwork
		6.2 - 7.7	Replaces Clasts Moderate Silicification	Replaces Mafics Moderate Sericitisation Replaces Felsics Moderate Albite
7.7 - 14.0	FG	bx		Augen-bearing felsic gneiss; strong limonite stockwork resulting in local weak brecciation; strong perv silica, albite, seric and (weak) clay altn; Disseminated oxide intensity increases over the interval: 0.25-0.5% (lim) from 7.73-12.8m, 1-1.5% diss oxides (lim with mod hem staining) from 12.8-14m
		7.7 - 11.7	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Albite
		11.7 - 13.0	Pervasive Strong Albite	Pervasive Moderate Clay
		13.0 - 15.4	Pervasive Moderate Clay	Pervasive Moderate Albite Pervasive Weak Sericitisation
14.0 - 19.7	YO	bx		Monomictic breccia; med-course grained, angular clasts: strongly albite and limonite-clay altered FG; matrix is silica (quartz vein?) with weakly silified FG xenoliths; 1% diss lim with weak hem staining
		15.4 - 16.0	Pervasive Intense Silicification	Pervasive Intense Sericitisation
		16.0 - 19.7	Pervasive Strong Silicification	Pervasive Strong Albite Pervasive Moderate Sericitisation
19.7 - 138.2	MxF	augn	Fol-mod	Augen-bearing felsic gneiss; strong perv silica, weak perv sericite, weak patchy epidote; 0-0.15% disseminated and frac control hematite
		19.7 - 138.2	Pervasive Strong Silicification	Patchy Weak Albite Patchy Weak Epidote
138.2 - 145.6	MxF			Felsic-dominant mixed gneiss; strong-intense silc altn; 0.5% stockwork limonite and 0.5-1% diss lim with hem staining; moderate perv albite-seric altn and strong patchy clay altn; very narrow fault zone from 141.83-142.1m characterized by intense clay altn and limonite-clay-matrix brecciation if silicified FG (fine-grained, angular clasts)
		138.2 - 142.2	Patchy Strong Albite	Patchy Strong Clay
		142.2 - 145.6	Pervasive Strong Silicification	Patchy Moderate Albite Pervasive Weak Sericitisation
145.6 - 187.3	MxF	augn		Felsic-dom mixed gneiss; strong perv silica, weak perv sericite, weak patchy epidote; 0-0.15% frac control hematite and limonite
		145.6 - 187.3	Pervasive Moderate Silicification	
187.3 - 222.0	MxF	augn		Felsic-dominant mixed gneiss; 0-0.5% patchy and frac control limonite, patchy qsp mineralization (<0.25% diss pyrite); local strong pervasive silc-seric and albite alteration; cross-cutting and oblique buck quartz veins
		187.3 - 222.0	Pervasive Strong Sericitisation	Pervasive Strong Silicification Patchy Strong Albite
222.0 - 226.3	MsS		Fol-str	Feldspar-muscovite schist; hanging wall of zone; strong perv albite-sericite, mod perv clay altn; 0.5-1% diss lim
		222.0 - 226.3	Pervasive Strong Albite	Pervasive Strong Sericitisation Pervasive Moderate Clay

226.3 - 227.3	YO	bx	Polymictic breccia; local Dacite and MsS; brecciated irregular contact between dacite intrusion and MsS; clasts are dominantly sub-angular, rotated, fine-med grained, polymictic composition (dacite, MsS, silica); mainly matrix supported with local clast-supported regions; massive fine-grained matrix of chalcedonic silica and clay composition; local vugs; 1% disseminated oxides (lim, hem)		
		226.3 - 231.8	Pervasive Strong Silicification		
227.3 - 228.2	Yx	bx	Crackle breccia; silicified felsic gneiss clasts: angular, unrotated clasts seperated by thin weakly clay-altered limonite vein stockwork; local brecciated clasts: ylim-limonite clay supported matrix with fine grained sub-rounded silica clasts)		
228.2 - 229.4	YO	bx	Polymictic breccia with local intensely silicified HU; fine-course grained (Ave clast-width is 4mm); clasts are composed of strongly silicified gneiss and dacite; matrix is massive, chalcedonic, silified clay; 1-1.5% diss oxides (lim with hem staining)		
229.4 - 231.8	HU	bx	Hydrothermally altered unrecognizeable; intense silicification, local crackle breccia caused by small fractures dominantly parallel to contact with upper breccia; weakly clay-altered limonite vein stockwork- 0.5% lim		
231.8 - 232.8	YO	bx	Polymictic breccia; clasts are dominantly dacite with strongly silica-seric altered gneiss (?) clasts; matrix-supported: fine-grained, silicified limonite-clay massive matrix. 1-2% diss oxides (limonite with mod hem staining)		
		231.8 - 232.8	Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay	Replaces Clasts Strong Sericitisation
232.8 - 234.2	FC		Dacite dyke; felsic, fine-grained; moderate pervasive clay alteration; local bleaching; disseminated limonite ranging from 0.5-2% with patchy hem staining		
		232.8 - 234.5	Pervasive Strong Clay		
234.2 - 234.5	YO	bx	Polymictic breccia; clasts are dominantly dacite (mineralized and non-mineralized) with strongly silica altered gneiss (?) clasts; matrix-supported: fine-grained, silicified limonite-clay massive matrix. 1-2% diss oxides (limonite with mod hem staining)		
234.5 - 236.4	Yx	bx	Silicified-clast crackle breccia; medium-course grained angular-unrotated clasts seperated by weakly limonitic clay; local narrow patches of silified clast breccia with limonite-clay matrix and fine-med grained sub-rounded rotated clasts		
		234.5 - 236.4	Pervasive Intense Silicification	Replaces Matrix Moderate Clay	
236.4 - 239.1	YC	bx	Silified-clast breccia with weakly limonitic clay matrix; medium-course grained, angular clasts, dominantly clasts supported, with narrow intervals of limonite-clay supported matrix with fine-grained rounded clasts; average 0.25-0.5% diss lim with weak hem staining		
		236.4 - 239.1	Replaces Clasts Intense Silicification	Replaces Matrix Strong Clay	
239.1 - 264.2	MxF	augn	Felsic-dominant mixed gneiss; 0-0.5% frac control limonite with local diss 1% lim (with weak hem staining), patchy qsp mineralization (<0.25% diss pyrite, <.1% sooty pyrite vein); local strong pervasive silc-seric and albite alteration; cross-cutting and oblique/anastomosing limonite veinlets (0.15%)		
		239.1 - 264.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Patchy Moderate Albite
264.2 - 275.4	FC	fgrn	Dacite dyke, fresh; aphanitic, fine grained; strong silica-seric perv altn; sharp upper contact with gneiss unit		
		264.2 - 275.4	Pervasive Strong Sericitisation	Patchy Strong Silicification	
275.4 - 282.4	FC	fgrn	Dacite dyke, mineralized; 0.5-2% diss lim with weak hem staining; flow bands and stockwork limonite-hematite vienlets (1%); mod-strong perv clay altn		
		275.4 - 282.4	Pervasive Strong Clay		
282.4 - 287.6	FG	fgrn	Augen-bearing felsic dominant gneiss; strong perv clay and albite (selective replacement of felsics) altn; 0.5-2% diss lim; visible discrete pyrite grains (<0.1%)		
		282.4 - 287.6	Replaces Felsics Strong Albite	Pervasive Strong Clay	
287.6 - 308.0	MxF	augn	Augen-bearing felsic-dom mixed gneiss; weak perv silc and chlorite altn; trace frac control lim (<.1%)		
		287.6 - 308.0	Pervasive Weak Silicification	Patchy Weak Chlorite	

Drill Log: CFD0235

Easting	584327.81	Hole Length	248 m	Prospect	Supremo T3	Drill Started	Jun 08, 2012	Comment
Northing	6974554.88	Azimuth	270 °	Target	T3	Drill Completed	Jun 10, 2012	
Projection	UTM7-NAD83	Dip	-55 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1259.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVb			Appears to be felsic augen gneiss.
9.0 - 50.0	MxF	augn	Fol-str	Mixed felsic gneiss, felsic dominated. Moderate silicification, weak sericite, with moderate chlorite alteration in mafic bands. Majority of unit is composed of weak fracture controlled lim & hem 0.15%. Local interval of moderate disseminated lim 0.75% & hem 0.25%, associated with strong silicification, moderate albite, sericite, & weak clay alteration, 17.31 - 23.78m. Possible small mafic intrusions located before interval of mod. lim & hem, fine lamination that cross cuts gneiss foliation, small (cm) xenoliths of MxF. Small(mm) local calcite veins located within mafic bands, local (cm) quartz veins varying throughout unit.
		9.0 - 17.3	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
		17.3 - 23.8	Pervasive Strong Silicification	Pervasive Moderate Albite
		23.8 - 50.0	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
				Patchy Moderate Chlorite
50.0 - 52.6	MV	silc		Massive quartz vein. Weak fracture controlled lim 0.10%.
		50.0 - 52.6		
		52.6 - 61.8	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
52.6 - 61.8	MxF	band	Fol-str	Mixed felsic gneiss, with mafic bands. Weak fracture controlled lim & hem 0.15%. Moderate silicification, sericite, with chlorite alteration in mafic bands.
61.8 - 88.9	FG	augn	Fol-str	Felsic augen bearing gneiss. Weak sericite & silica alteration. Local pitted weathered sulphides. Weak fracture controlled lim & hem 0.1%. Small intervals of possibly mafic foliated dykes exhibiting a large xenolith of the surrounding country rock (Fg), located 83.90-84.35m. Possible fault from 63 - 63.30m.
		61.8 - 88.9	Pervasive Weak Silicification	Pervasive Weak Sericitisation
88.9 - 104.5	MxF	band	Fol-mod	Mixed felsic gneiss, felsic dominated. Moderate patchy silica, weak pervasive sericite, & chlorite alteration in mafic bands. Weak fracture controlled lim & hem 0.1%. Local interval of moderate pervasive clay alteration hosted in a mafic band.
		88.9 - 104.5	Patchy Moderate Silicification	Pervasive Weak Sericitisation
				Pervasive Moderate Clay
104.5 - 121.8	FG	augn	Fol-mod	Felsic gneiss. Unit begins with local strong pervasive silicification, moderate albite, weak patchy sericite & clay alteration. Disseminated lim 0.15% with hematite staining and halos 0.15%. Unit changes to weak silica & sericite alteration with weak fracture controlled lim & hem 0.1%, local change (114.45-117.95m) of strong silica with weak pervasive clay, selective replacement albite, & patchy sericite alteration. This change of alteration is associated with small(mm) hematite veins, and weak disseminated lim & hem 0.25%.
		104.5 - 108.3	Pervasive Strong Silicification	Pervasive Moderate Albite
		108.3 - 114.5	Patchy Weak Silicification	Pervasive Weak Sericitisation
		114.5 - 121.8	Pervasive Strong Silicification	Pervasive Weak Clay
				Selective Repl Weak Albite
121.8 - 125.6	IV	phyr		Fresh porphyritic andesite dyke. No alteration. Small (mm) local calcite veins. Fracture controlled lim & hem 0.1%. Local interval located at the bottom of the unit of moderate disseminated lim & hem 0.25%.
		121.8 - 125.1		
		125.1 - 138.8	Pervasive Strong Silicification	Selective Repl Moderate Clay
				Patchy Moderate Albite
125.6 - 138.8	FG	band	Fol-mod	Felsic gneiss, majority of unit is altered with small local patchy unaltered gneiss. Alteration includes strong silicification, moderate clay & albite with weak patchy sericite alteration. Weak/moderate disseminated lim & hem staining 0.25%, unaltered FG brassy pyrite 0.1%. Local dacite intrusion located 135.72 - 136.14m, that includes disseminated lim & hem 0.25%. Small (mm) local hematite/sooty sulphide stringer veins.
138.8 - 152.1	FC	mgrn		Dacite dyke, strong mineralization, zone, aphanitic feldspar porphyritic. Strong disseminated limonite 3% & hematite staining 2%, overprinting hematite veins, local pitted weathered sulphides. Intense pervasive clay alteration. Local intervals of hydrothermally unaltered protolith (Hu).
		138.8 - 152.1	Pervasive Intense Clay	

152.1 - 180.4	FG	augn	Fol-mod	Felsic augen bearing gneiss, strong footwall mineralization zone. Strong pervasive silicification, moderate selective replacement clay, with weak patchy sericite alteration. Strong disseminated limonite 1.5% & hematite 3.5%, with local patchy disseminated sooty sulphides 1% located in unaltered patches of felsic gneiss. Local small quartz, & chalcedonic vein slightly brecciated with rounded felsic gneiss clasts located 158.50m. Small 1.5cm wide, fine/medium-grained rounded monomictic clasts, clast-supported, limonite clay matrix breccia vein, located from 160.80 - 161.40m; detailed photos to follow. Unit includes local vuggy spaces.			
		152.1 - 180.4	Pervasive	Strong Silicification	Selective Repl	Moderate Clay	Patchy Weak Sericitisation
180.4 - 248.0	MxF	band	Fol-str	Mixed felsic gneiss, felsic dominated. Mafic bands have small (mm) calcite veins. Moderate silica, sericite, with weak selective clay alteration. Weak/moderate fracture controlled limo & hem 0.25%. Local moderate disseminated lim & hem 0.5% from 195.1 - 197m, block @ 196.60m. Local unaltered mixed gneiss has brassy disseminated pyrite 0.1%. Remaining unit varies between unaltered fresh gneiss with brassy disseminated pyrite 0.1% and local alteration including: Moderate pervasive silicification, mod pervasive clay, & weak patchy sericite. Alteration is associated with weak/moderate disseminated lim & hem 0.25%. Unaltered gneiss exhibits fracture controlled lim & hem 0.15%, associated with weak silicification, sericite, & moderate chlorite alteration in mafic bands.			
		180.4 - 201.4	Pervasive	Moderate Silicification	Pervasive	Moderate Sericitisation	Selective Repl Weak Clay
		201.4 - 222.0	Pervasive	Moderate Silicification	Pervasive	Moderate Clay	Patchy Weak Sericitisation
		222.0 - 234.1	Pervasive	Moderate Chlorite	Patchy Weak	Silicification	Patchy Weak Sericitisation
		234.1 - 240.1	Pervasive	Moderate Silicification	Pervasive	Moderate Clay	Patchy Weak Sericitisation
		240.1 - 248.0	Pervasive	Moderate Chlorite	Patchy Weak	Silicification	Patchy Weak Sericitisation

Drill Log: CFD0236

Easting	584825.69	Hole Length	245 m	Prospect	Double Double	Drill Started	Jun 10, 2012	Comment
Northing	6973248.98	Azimuth	187 °	Target		Drill Completed	Jun 13, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	MRender	Core Size	NQ	
Survey method	RTK GPS	Elevation	1067.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 15.0	OVb			Casing to 15m. Bedrock may start @ 14.3m. Overburden is cobbles & blders of BtS & minor MxF
15.0 - 17.7	BtS			Chl+/-Epid stringers cutting across earlier silicification & clay/ser altn. ~0.25% Lim+ ~0.25% Hm along fractures
		15.0 - 17.5	Patchy Strong Chlorite	Patchy Moderate Silicification Replaces Felsics Weak Clay Small patches of silicified BtS surrounded by, & cut by stringers strongly Chltd Bts.
		17.5 - 18.1	Pervasive Intense Clay	Selective Repl Strong Sericitisation Strongly clay-altd gouge
17.7 - 18.1	HU			Core broken to rubble & gouge. Original texture destroyed by Clay altn. ~2% diss Lim throughout
18.1 - 18.7	BtS			Strongly clay-ser altdf chist. ~0.5% diss Lim, 1.5% Lim along fractures.
		18.1 - 20.8	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation Weak Chlorite Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol Chlzn of Bt.
18.7 - 26.2	BtS			Strongly clay-Ser-Chl altd schist. Locally broken to rubble. ~1% Lim along fractures, ~0.5% Hm along fractures.
		20.8 - 26.2	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation Replaces Mafics Moderate Chlorite Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol Chlzn of Bt.
26.2 - 27.5	HU			Intensely altd schist, broken to rubble & gouge. Original texture weakly preserved locally. ~4% diss Lim, ~1% diss Hm.
		26.2 - 27.5	Pervasive Intense Clay	Strongly clay-altd gouge
27.5 - 28.5	BtS			Chltd, clay-altd schist. ~0.5% Lim along fracs
		27.5 - 28.5	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation Replaces Mafics Moderate Chlorite Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol Chlzn of Bt.
28.5 - 31.5	HU			Intensely altd schist, broken to rubble & gouge. Original texture weakly preserved locally. ~4-5% diss Lim, ~1-2% diss Hm.
		28.5 - 29.6	Pervasive Intense Clay	Selective Repl Moderate Chlorite Strongly clay-altd gouge
		29.6 - 30.2	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation Replaces Mafics Moderate Chlorite Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol Chlzn of Bt.
		30.2 - 30.6	Pervasive Intense Clay	Strongly clay-altd gouge
		30.6 - 32.2	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation Replaces Mafics Moderate Chlorite Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol Chlzn of Bt.
31.5 - 32.2	Ycarb	matx		Contacts broken/unknown. 20% rotated strongly silicified polymictic Fgr-Mgr rounded clasts in 80% orange aphanitic Lim+Cte matrix. ~3% diss Lim throughout matrix.
32.2 - 32.5	HU			Intensely clay-altd schist(?). ~2% diss Lim
		32.2 - 32.5	Pervasive Intense Clay	Strongly clay-altd gouge
		32.5 - 35.0	Replaces Felsics Moderate Clay	Moderate Sericitisation Clay-altn of Fspr. Sericitization & Fgr white mica growing // fol
32.5 - 33.5	Ycarb	Clast		Contacts obscured. 80% in-situ Mgr-Cgr subangular clay-altd clasts in 20% apanitic orange Lim+Cte matrix. ~3% diss Lim throughout clasts & matrix. !1% diss Hm throughout clasts.
33.5 - 35.0	HU			Intensely altd schist, broken to rubble & gouge. Original texture weakly preserved locally. ~4-5% diss Lim, ~1-2% diss Hm.

35.0 - 42.2	BtS					
		35.0 - 37.5	Pervasive Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay+Ser
		37.5 - 41.7	Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay+Ser
		41.7 - 43.8	Patchy Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay+Ser
42.2 - 56.2	MxM		Strongly foliated. Abundant feldspar. Strong pervasive sericite alteration. Weakly silicified. Limonite (~0.25%) fracture controlled.			
		43.8 - 44.1	Pervasive Intense Clay			Original texture almost destroyed
		44.1 - 50.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay+Ser. Leucosomes more strongly Clay-altd
		50.0 - 51.4	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Silicification overprinting earlier Clay+Ser
		51.4 - 56.1	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	Replaces Mafics Weak Chlorite	
		56.1 - 67.9	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
56.2 - 71.0	MxM		Very broken ground. Weakly mineralized- 0.5-1% disseminated (locally) and fracture controlled limonite. Sericitic. Clay alteration of feldspar. From 65-71m-silicified.			
		67.9 - 71.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation		
71.0 - 71.5	Ycarb	bx	Carbonate+Limonite+clay breccia vein. Limonite (~3%). Carbonate throughout. Clasts are sub-rounded, 5-15mm. Clasts of silicified gneiss.			
		71.0 - 71.4	Pervasive Strong Clay	Pervasive Strong Calcite		
		71.4 - 76.7	Replaces Mafics Weak Chlorite	Replaces Felsics Moderate Sericitisation	Selective Repl Weak K-feldspar	
71.5 - 76.7	BtS		Feldspar throughout. Biotite foliation. Feldspar sericitized. Weakly siliceous. Biotite altering to chlorite. Limonite on fracture planes (0.25%).			
76.7 - 79.0	BtS		Weak zone. Patchy limonite (disseminated locally) ~1% over intervals. Clay alteration of feldspar. Chlorite after preserved mafics. Limonite veining. Hematite patchy (~0.5%).			
		76.7 - 79.0	Pervasive Moderate Clay	Patchy Weak Silicification	Replaces Mafics Moderate Chlorite	
79.0 - 80.8	BtS		Frac-controlled limonite (0.25%). Chlorite + ser + weak clay (frac-controlled) alteration.			
		79.0 - 93.0	Replaces Mafics Moderate Chlorite	Patchy Weak Calcite	Selective Repl Moderate Sericitisation	
80.8 - 84.1	IV	mass	Fine-grained, massive. Mm-scale epidote veining. Contact 45deg to core axis.			
84.1 - 95.0	BtS	mgn	Abundant feldspar- potassic? Biotite defining foliation- altering to chlorite. Trace dissolved py. Weak clay alteration of feldspar. Limonite % increasing down-hole- starting at ~93m- associated with bleaching- increased clay alteration.			
		93.0 - 95.0	Pervasive Moderate Silicification	Pervasive Moderate Albite	Pervasive Moderate Sericitisation	
95.0 - 98.0	BtS		Weak to moderate zone. Pervasive clay alteration. Weak preservation of mafics. Calcareous. Limonite disseminated (~2-3%). Minor limonite and carbonate veining.			
		95.0 - 98.0	Pervasive Moderate Clay	Patchy Moderate Albite	Pervasive Weak Silicification	
98.0 - 101.4	BtS		Variably altered. Patchy silicification. Chlorite after biotite. Limonite disseminated locally- and fracture controlled (~0.75%). Minor Fe-carb veining. Hematite on fractures (~0.25%).			
		98.0 - 101.4	Replaces Mafics Moderate Chlorite	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay	
101.4 - 103.0	BtS	silc	Strongly silicified. Preserved feldspar augen. Fine-grained sericite throughout.			
		101.4 - 103.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		
103.0 - 105.3	BtS		Variably altered. Weakly limonitic-frac-controlled (0.25%).			
		103.0 - 104.7	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Sericitisation		
		104.7 - 107.0	Fracture Controlled Moderate Clay	Replaces Mafics Weak Chlorite		
105.3 - 105.4	HU		Discrete zone of strong clay alteration + limonite (~3%).			
105.4 - 107.0	FLT		Weak zone. Largely rubble. Locally disseminated limonite and fracture controlled (~1%). Moderate pervasive clay alteration.			

107.0 - 165.0	BtS	Variably altered- patchy sil+ser alteration. Weakly chloritic. Clay on fractures.		
		107.0 - 132.0	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Sericitisation
		132.0 - 134.0	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
				Replaces Felsics Moderate Sericitisation
		134.3 - 141.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
		141.0 - 165.0	Replaces Mafics Weak Chlorite	Patchy Weak Silicification
				Selective Repl Weak Sericitisation
165.0 - 168.8	BtS	biot	Increased alteration- chlorite after biotite. , epidote in vein+ alb? . Patchy silicification. Biotite? Veining parallel to bx wall. Irregular/dismembered opaque qtz veins. Trace diss py. Limonite (0.25%) on fracture planes. Patchy hem (0.25%).	
		165.0 - 168.6	Replaces Mafics Moderate Chlorite	Pervasive Moderate Albite
		168.6 - 171.3	Pervasive Strong Clay	Vein Seldedge Weak Epidote
				Selective Repl Moderate Sericitisation
168.8 - 169.0	Ylim	bxv	Zone. Strongly Limonitic (~5%) disseminated in clay matrix. Clasts of gneiss- rounded 5mm-10mm. Matrix supported.	
169.0 - 171.3	BtS		Moderate zone. Limonite weakly disseminated and in-vein (~3%). Discete zone of brecciation (from 169.9-170.0m)- with weak limonite + clay matrix- bts clasts- very mature. Hematite on fractue planes (0.5%).	
171.3 - 171.7	IV		Altered dyke? Cross-cut by ankerite?/albite veins. Chloritic and very fine-grained.	
		171.3 - 171.9	Selective Repl Strong Chlorite	Pervasive Strong Silicification
				Strong Albite
171.7 - 187.0	BtS		Variably altered. Patchy silicification with disseminated hematite. Frac-controlled limonite (~0.25%). Chlorite alteration of bt.	
		171.9 - 187.0	Patchy Strong Silicification	Selective Repl Moderate Chlorite
				Selective Repl Moderate Sericitisation
187.0 - 187.8	BtS		V. Weak zone. 1% fracture controlled limonite. Clay on fracture planes.	
		187.0 - 187.8	Fracture Controlled Moderate Clay	Selective Repl Moderate Chlorite
187.8 - 191.8	AmBtS		Strongly chloritic. Strong patchy epidote alteratoin. Calcite infilling around grain boundaries. Disseminated py (0.25%). Hematite on fracture planes (0.25%).	
		187.8 - 193.5	Patchy Strong Epidote	Selective Repl Strong Chlorite
				Patchy Moderate Calcite
191.8 - 194.6	BtS		Loss of epidote. Loss of foliation- more massive. Recrystallized biotite. Calcite infilling around grain boundaries.	
		193.5 - 198.1	Patchy Strong Silicification	Selective Repl Moderate Chlorite
				Selective Repl Moderate Sericitisation
194.6 - 198.2	BtS	silc	Silicified. Broken ground.- fault? Hemaititic ~1% fracture controlled. Limonite ~0.25%. Epidote + chlorite alt.	
		198.1 - 215.3	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
				Selective Repl Weak Chlorite
198.2 - 215.3	BtS		Fracture controlled limonite ~1%.	
215.3 - 215.7	HU		Zone. Disseminated limonite ~3%. Strong clay alteration. Fg- biotite + sooty py vein- sylolites? At top contact with HU.	
		215.3 - 215.6	Pervasive Strong Clay	
		215.6 - 224.3	Selective Repl Weak Chlorite	Moderate Sericitisation
215.7 - 224.4	BtS		Variably altered. Calcite veining throughout. Re-crystallized biot- weakly chloritic.	
		224.3 - 230.0	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification
				Patchy Moderate Albite
224.4 - 230.0	BtS		Patchy bleaching (fine-grained ser+sil+alb). Weakly chloritic. Minor epidote veining. Undulating shear farbric- steepening in part. Trace diss py.	
230.0 - 245.0	BtS		Fresh. Fine-grained. Trace diss py.	
		230.0 - 245.0	Selective Repl Weak Chlorite	Patchy Weak Silicification

Drill Log: CFD0237

Easting	584876.66	Hole Length	245 m	Prospect	Double Double	Drill Started	Jun 10, 2012	Comment
Northing	6973252.44	Azimuth	180 °	Target		Drill Completed	Jun 13, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1076.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.2	OVB			
6.2 - 23.0	MxF	augn		Mixed gneiss, minor fracture controlled clay. Weak 0.25% fracture controlled limonite, mod muscovite altn and patchy strong silicification.
		6.2 - 15.0	Fracture Controlled Weak Clay	Replaces Mafics Moderate Muscovite
		18.0 - 19.0	Pervasive Strong Silicification	
23.0 - 47.4	MxF	musc		Mixed gneiss, frac mod-strong, 0.25% disseminated limonite, mod clay replacement of fspars, mod muscovite altn. Large 8-12cm limonite filled fractured buck qtz veins. Area adjacent has stronger limonite/hematite content. Fe-carb and calcite veinlets throughout.
		23.0 - 47.4	Selective Repl Moderate Clay	Replaces Mafics Weak Sericitisation Patchy Moderate Silicification
47.4 - 47.6	Yx	mgrn		Limonite med grain angular clast crackle bx, limonitic silica matrix supported.
		47.4 - 77.0	Fracture Controlled Weak Clay	Selective Repl Weak Chlorite Patchy Moderate Silicification
47.6 - 72.6	FG	amyg		Augen gneiss, moderate muscovite altn, weak local fracture controlled clay. 0.2% red stained subhedral pyrite
72.6 - 73.8	IV	phyr		Qtz -Feldspar porphyritic andesite dike, moderate selective clay replacement
73.8 - 76.2	FG	amyg		Felsic gneiss
76.2 - 77.6	IV	phyr		
		77.0 - 125.0	Selective Repl Moderate Silicification	Replaces Felsics Moderate Epidote Replaces Mafics Weak Chlorite
77.6 - 100.4	MxF	band		Mixed gneiss, local epidote veining and chlorite altn. Very minor fracture controlled clay. Moderate silicification surrounding MV buck qtz.
100.4 - 125.0	MxM	band	Fol-str	Mafic gneiss, 0.1% blebby brassy pyrite, moderate epidote and weak chlorite replacement of biotite. Leucocratic zones display moderate silicification
125.0 - 143.0	BtS	biot		Biotite schist and fine grain amphibole, minor chlorite and epidote altn. 0.1% blebby pyrite
		125.0 - 141.0	Replaces Felsics Moderate Epidote	Replaces Mafics Weak Chlorite
143.0 - 144.0	IV	fgn		Aphanitic mafic dyke, carbonate veinlets.
144.0 - 146.9	FG	band	Fol-str	Strong sericite and chlorite altered gneiss between IV and lower contact of older felsic intrusive.
		146.0 - 155.9	Selective Repl Strong Sericitisation	Selective Repl Weak Chlorite Pervasive Moderate Silicification
146.9 - 153.2	FC	mgrn	Fol-wk	Altered felsic intrusive? Equigranular, strong sericite, chlorite altn. 0.25% fine grain magnetite and 0.1% sooty sulphide. Minor sulphide shear at 152.8.
153.2 - 155.0	FG	silc		Sericitized felsic gneiss and local segments of above intrusive. Strong altn, minor fracture controlled limonite.
155.0 - 161.0	FG	silc		Intensely silicified FG, 0.25% disseminated hematite, fracture controlled limonite. Beginning at 159m Fe-Carb matrix crackle bx focused on buck qtz veins.
		155.9 - 161.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation Fracture Controlled Weak Clay
161.0 - 161.3	Ycarb	bx		Fine grain angular silica clasts, clay-fe-carb matrix supported bx
		161.0 - 179.5	Replaces Felsics Moderate Epidote	Replaces Mafics Weak Chlorite Pervasive Weak Silicification
161.3 - 179.5	MxM	biot		Biotite dominated gneiss, moderate epidote altn, wk fracture controlled limonite. Local mod sericite and silicification in higher strained locales.
		179.5 - 180.9	Replaces Mafics Moderate Sericitisation	Pervasive Moderate Silicification
179.5 - 180.8	RQM	silc	Fol-str	High strained gneiss, qtz ribbons present, strong silica and sericite altn. Minor 0.5% limonite, unoxidized windows show 0.5% disseminated sooty sulphides

180.8 - 181.9	HU	mass	Protolith is highly strained, First 180.8-180.92cm intense clay replacement, -181.27, strong bleaching with 5% hematite and limonite. Unconsolidated fault gouge for 20cm.		
		180.9 - 181.0	Pervasive Intense Clay		
		181.0 - 186.9	Pervasive Moderate Silicification	Pervasive Moderate Albite	Fracture Controlled Weak Clay
181.9 - 182.5	FC	fgrn	Altered aphanitic fine grain dike, 3% limonite and minor hematite fractures.		
182.5 - 187.8	RQM	qtz	Silicified mylonite, moderate clay alteration along fractures, strong sericite altn. 2-3% disseminated limonite. 15cm qtx vein ~186.1m		
		186.9 - 195.9	Pervasive Weak Silicification	Replaces Mafics Weak Sericitisation	Selective Repl Weak Chlorite
187.8 - 245.0	AmBtS	fgrn	Amphibole and Bt schist, 0.1% disseminated brassy pyrite. Local selective replacement Epidote altn. Fine grain sooty sulphides and sulphide veinlets from 195.5 to 197.6		
		195.9 - 198.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	
		198.9 - 245.0	Selective Repl Weak Chlorite		

Drill Log: CFD0238

Easting	584300.85	Hole Length	260 m	Prospect	Supremo T3	Drill Started	Jun 10, 2012	Comment
Northing	6974248.49	Azimuth	271 °	Target	T3	Drill Completed	Jun 13, 2012	
Projection	UTM7-NAD83	Dip	-51 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1268.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.1	OVb			
4.1 - 14.9	FG	augn		Felsic gneiss, moderate silicification and labitization. Weak 0.25-0.5% disseminated limonite. Local 0.5% hematite veining/
		4.1 - 15.0	Pervasive Moderate Silicification	Selective Repl Weak Albite
14.9 - 15.8	FG	silc		Felsic gneiss, strongly silica altered, minor fracture controlled clay. 1% disseminated limonite and high frequency hematite stockwork. Mily brecciated qtz ening.
		15.0 - 19.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay
15.8 - 21.0	FG	augn		Felsic gneiss, moderate silicification, minor 0.25-0.5 limonite. Limonite inlets and minor limonite vein breccias.
21.0 - 145.3	FG	augn	Fol-str	Fresh gneiss, minor disseminated red stained pyrite. Weak local epidote. Melanocratic zones show weak to moderate chlorite altn.
		29.5 - 145.3	Fracture Controlled Weak Clay	Selective Repl Weak Albite
145.3 - 148.3	MxF			Weak zone. Felsic dominated gneiss. Weak clay altn; both FC and replacing feldspars. Local weak to mod sil-ser altn, weak chlorite altn in BtS intervals. 0.25-1.5% limonite; locally diss, bleeding out of fractures as well as lim-clay replacing feldspars. 0.25-0.5% FC to diss hm. XRF As 475 ppm at 147.65. 0.1% foliation parallel quartz veins and veinlets.
		145.3 - 146.4	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite Fracture Controlled Weak Clay
		146.4 - 147.2	Fracture Controlled Weak Clay	Replaces Felsics Weak Clay Patchy Weak Silicification
		147.2 - 148.3	Selective Repl Moderate Sericitisation	Patchy Weak Silicification Fracture Controlled Weak Clay
148.3 - 148.9	HU			Zone. Highly clay altered and fractured unit; probably felsic dominated gneiss, +/- muscovite. XRF As 3416 ppm at 148.4m. Strong clay, mod patchy silicification. 1% diss lim, 1.5% diss hm.
		148.3 - 148.9	Pervasive Strong Clay	Patchy Moderate Silicification
148.9 - 150.7	HU			Zone. Highly fractured and clay altered unit. Lim-hm-clay breccia to breccia veins at 148.9-149.95 m; sub-angular silicified clasts. Less clay-altered sub-unit from 149.95- 150.65m; felsic gneiss (?) containing stockwork hematite veins and veinlets. Mod to strong clay, patchy weak silicification. 1-2% diss lim, 0.5-2.5% FC to diss hm + in veins and veinlets.
		148.9 - 150.0	Pervasive Strong Clay	Patchy Weak Silicification
		150.0 - 150.7	Pervasive Moderate Clay	Patchy Weak Silicification
150.7 - 181.2	MxF			Patchy zone. Felsic dominated gneiss; patchy mineralization (XRF As values ranging from 223-1808 ppm throughout unit). Mod pervasive silicification, weak FC clay; local mod clay associated with a highly fractured interval containing a clay-matrix breccia (matrix-supported, sub-angular clasts of wall rock+silica clasts). Weak chlorite altn in mafic intervals. Frequent hm (+minor lim) veins and stringers/veinlets; foliation parallel to local close to LCA parallel. 0.25-0.5% lim; FC as well as in veins/veinlets. 0.1-1% hm, locally diss (replacing feldspars), otherwise in veins/veinlets + FC.
		150.7 - 167.5	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
		167.5 - 169.0	Fracture Controlled Moderate Clay	Patchy Moderate Silicification
		169.0 - 181.2	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
181.2 - 187.7	MxF	augn	Fol-mod	Fresh felsic dominated gneiss, minor BtS content +/- muscovite. Strong silicification, weak chlorite in mafic intervals, discreet intervals with mod sericite altn. 0.1% blebby pyrite, rare red stained pyrite.
		181.2 - 187.7	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite Patchy Moderate Sericitisation

187.7 - 197.6	FG			Weak zone. Felsic gneiss. Overall weak FC clay, as well as intervals of lim-clay replacing feldspars. Patchy mod sil-ser altn, patchy weak albite. Mod FC clay in a more oxidized and heavily fractured interval at 192.6-194 m; including a 15 cm wide milky quartz vein; with up to 1.5% diss lim and 0.25% hm in fractures and stringers/veinlets (XRF As 336 ppm at 193 m, spot check at 193.46 m at 1071 ppm). Otherwise 0.5% lim bleeding out of fractures and replacing feldspars, 0.25% hm bleeding out of fractures and stringers/veinlets. Rare brassy pyrite in unoxidized windows.	
		187.7 - 192.6	Fracture Controlled Weak Clay	Patchy Moderate Silicification	Patchy Moderate Sericitisation
		192.6 - 194.0	Fracture Controlled Moderate Clay	Patchy Moderate Silicification	
		194.0 - 197.6	Fracture Controlled Weak Clay	Patchy Moderate Silicification	Patchy Moderate Sericitisation
197.6 221.2	FG	augn	Fol-str	Felsic gneiss; overall fresh. Strong silicification. 0.01% FC lim, 0.1% blebby pyrite and rare red stained pyrite. 5 cm wide brecciated quartz veining with limonitic matrix at 209.13 m (spot check XRF As 4921 ppm). Unit includes a sub-unit with weak clay and patchy weak patchy albite+ser altn at 210.22-211.95 m; associated with 0.25% FC lim; frequent foliation paralell up to 1 cm buck quartz veins; XRF spot checks up to 324 ppm within sub-unit.	
		197.6 - 210.2	Pervasive Strong Silicification		
		210.2 - 212.0	Patchy Moderate Silicification	Selective Repl Weak Clay	Selective Repl Weak Sericitisation
		212.0 - 221.2	Pervasive Strong Silicification		
221.2 - 229.2	FG			Weak zone, increasing mineralization from 223.83 m to end of unit. Felsic gneiss. Mod silicification, strong in less oxidized window at 222.32-223.83 m; weak clay altn of feldspars and in fractures; weak patchy albite. Intervals of up to 0.5% diss lim and hm down to 222.32 m, up to 1% diss lim (lim-clay replacing feldspars) and 0.5% FC hm at 223.83-228.32 m, then decreasing lim (up to 0.5% FC) increasing hm (up to 2% diss and FC) associated with less clay altn (weak FC clay) to end of unit.	
		221.2 - 222.3	Pervasive Moderate Silicification	Selective Repl Weak Clay	Patchy Weak Albite
		222.3 - 223.8	Pervasive Strong Silicification		
		223.8 - 228.3	Patchy Moderate Silicification	Selective Repl Weak Clay	
		228.3 - 229.2	Pervasive Moderate Silicification	Fracture Controlled Weak Clay	
229.2 - 230.0	YC	bxm		Zone. Medium-grained clast-supported polymictic silicified clast breccia with a fine-grained silica-limonite matrix. At least three phases of brecciation: 1) dominating 2-50 mm wide angular to sub-angular clasts of silicified foliated felsic gneiss; 2) 1-5 mm wide sub-angular to sub-rounded fragments of highly lim-clay altered unrecognizable rock fragments, possibly dyke material; 3) 2-40 mm wide rounded to sub-rounded highly silicified clasts of wall rock (FG?). Local vuggy texture. Gradational upper contact, sharper lower contact. Abundant cruss-cutting quartz veining at the top of theunit. Highly clay-altered HU sub-unit (dacite dyke?) at 229.32-229.45 m with multi-directional clay-lim-hm stringers/veinlets, minor content of sub-angular silicified wall-rock clasts; 3% diss lim, 0.5% diss hm. Overall strongly silicified, weak to local strong clay altn. 1% diss lim as well as in stringers/veinlets, 0.25% FC hm + in stringers and veinlets. XRF spot checks up to 2332 ppm (at 229.42 m).	
		229.2 - 229.3	Pervasive Strong Silicification	Fracture Controlled Weak Clay	
		229.3 - 229.5	Pervasive Strong Clay		
		229.5 - 230.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay	
230.0 232.3	FG			Zone. Felsic gneiss. Mod to strong silicification, weak clay alteration of feldspars and in fractures,local mod albite altn. Unit shows local weak brecciation around quartz-lim-clay veins from 231.50-232.40 m, typically with slightly rotated angular clasts of wall-rock. 1% diss lim (replacing feldspars) and 0.25% FC hm down to 231.50 m, 0.5% FC lim and 1.5% diss hm (intense bleeding out of fractures)from 231.50 232.40 m. XRF As values at 232-369 ppm on meter marks.	
		230.0 - 231.5	Pervasive Moderate Silicification	Selective Repl Weak Clay	
		231.5 - 232.3	Pervasive Strong Silicification	Fracture Controlled Weak Clay	
232.3 - 233.5	YC	matx		Zone. Unit consists of two sub-units of silicified clasts breccias. 1) The upper sub-unit (232.34-233.16 m) consists of a medium-grained, matrix-supported, polymictic silicified clast breccia with a fine-grained massive silica matrix. Upper contact is sharp. The sub-unit is dominated by sub-angular to sub-rounded 1-10 mm wide silicified clasts of wall-rock; second component consists of sub-rounded to sub-angular 2-15 mm wide limonitic HU clasts, some of which contain micro-brecciation. The sub-unit also contains an up to 70 mm wide band of a more clast-supported interval with some limonite-clay content in the matrix, and clay content also increases from 232.98 m to the end of the sub-unit. 2) The lower sub-unit (233.16- 233.46 m) consists of a strongly fractured more mature medium-grained, clast-supported, polymictic silicified clast breccia with a silica-limonite-clay matrix. The lower contact is obscured in a broken up clay rich interval. The sub-unit is dominated by 2-30 mm wide sub-angular to sub-rounded highly silicified clasts of wall-rock with no fabric; second most common component consists of 3-25 mm wide sub-rounded to sub-angular silicified hematitic clasts of wall-rock with some fabric; third component consists of 1-25 mm wide sub-angular silicified limonitic HU clasts (wall-rock?). Overall strong silicification, with strong FC clay alteration from 232.98-233.46 m. 0.25% diss lim at 232.34-232.98 m, 2% diss lim and 0.5% diss hm at 232.98-233.46 m. XRF As spot check at 1415 ppm at 233.36 m.	
		232.3 - 233.0	Pervasive Strong Silicification		
		233.0 - 233.5	Pervasive Strong Silicification	Fracture Controlled Strong Clay	
233.5 - 234.5	HU	fgrn		Zone. Highly clay-altered unrecognizable fine-grained unit with a mottled texture. Rare 1-10 mm wide sub-rounded silicified clasts of wall rock. Abundant multi-directional laminated stringers and veinlets of quartz with clay-lim-hm selvedge. Strong clay alteration. 4% diss lim, 1.5% diss hm, as well as lim and hm in vein selvedge. XRF As 2467 ppm at 234 m.	
		233.5 - 234.5	Pervasive Strong Clay		

234.5 - 236.5	FC	mgrn	Zone. Felsic dyke, dacite, medium-grained. Up to 4 mm wide feldspar and quartz grains and rare up to 4 mm wide biotite grains. Highly clay-altered and fractured, weak silicification. Local vuggy texture associated with lim and hm bleeding out of fractures. Stockwork stringers and veinlets of hm and lim close to lower contact. 5 cm wide interval of brecciation makes up lower contact: 1-15 mm wide sub-angular to sub-rounded clasts of wall rock in lim-hm-clay matrix. 0.25% lim in fractures and replacing feldspars, 0.25% FC hm. XRF As spot checks up to 3682ppm around hm fracture bleeding at 235.15 m, typically up to 236 ppm in intervals without FC hm/lim.	
		234.5 - 236.5	Pervasive Strong Clay	Patchy Weak Silicification
236.5 - 241.0	FG	silc	Weak zone. Felsic gneiss, local vuggy texture. Strong silicification, weak FC clay. Unit contains a strongly fractured and mod clay altered interval at 239.82-240 m; possibly a clay matrix breccia. Overall 0.5% lim in fractures and replacing feldspars, 0.25% FC hm.	
		236.5 - 239.8	Pervasive Strong Silicification	Fracture Controlled Weak Clay
		239.8 - 240.0	Pervasive Moderate Clay	
		240.0 - 241.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay
241.0 - 241.7	YC	bxi	Medium-grained, matrix-supported lim-clay-matrix breccia (discreet intervals of more clast-supported brecciation). Sharp upper and lower contacts. Strong silicification, mod FC clay. 2-30 mm wide sub-angular to sub-rounded clasts of silicified wall rock. Up to 0.5% lim in fractures and in breccia matrix. XRF As spot checks at background levels.	
		241.0 - 241.7	Replaces Clasts Strong Silicification	Fracture Controlled Moderate Clay
241.7 - 260.0	FG	augn	Felsic gneiss. Variably altered; intervals of weak clay altn of feldspars and weak patchy silicification, interlayered with intervals with strong silicification +/- mod sericite, strong silicification in fresh intervals. Trailing footwall mineralization; XRF As at metermarks: 1906 ppm at 252 m (associated with FC hm), 423 ppm at 256 ppm (associated with late-stage cross-cutting quartz-sooty sulphide vein). Overall 0.25% lim and hm in fractures and locally replacing feldspars. Local 0.01% sooty sulphides (at 256 m).	
		241.7 - 242.5	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
		242.5 - 244.6	Replaces Felsics Weak Clay	Pervasive Weak Silicification
		244.6 - 246.4	Pervasive Strong Silicification	
		246.4 - 255.6	Patchy Strong Silicification	Replaces Felsics Weak Clay
		255.6 - 260.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay

Drill Log: CFD0239

Easting	584259.57	Hole Length	212 m	Prospect	Supremo T3	Drill Started	Jun 13, 2012	Comment
Northing	6974273.91	Azimuth	275 °	Target	T3	Drill Completed	Jun 14, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1272.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 1.9	OVb			
1.9 - 34.8	MxF	augn	Fol-mod	Moderate to strong silicification of felsic component. BtS present up to 60cm bands which are moderately chloritized. Patchy epidote through both units, hematite present throughout felsic. Mafic component in felsics which are not as strongly silicified can be weathered out (clay/chlorite) leading to pitting. Hematite throughout felsics 0.5%, weak patchy limonite in some silicified zones .25% patchy.
		1.9 - 34.8	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Selective Repl Weak Calcite
34.8 - 48.4	FG	augn		Altered felsic gneiss package, patchy weak to moderate silicification and areas of moderate to strong albitization/bleaching. Patches have stronger augen appearance. Hematite and limonite have stronger presence with an almost stockwork appearance exploiting more fractured rock. Moderate to strong clay along fractures. Zone from 44.80m to 45.40m runs approx. 800ppm arsenic with strong clay, heavily fractured, and 75% disseminated limonite and .5% disseminated hematite also present.
		34.8 - 48.4	Patchy Moderate Silicification	Selective Repl Strong Albite Fracture Controlled Moderate Clay
48.4 - 87.9	MxF	band	Fol-mod	Mixed gneiss, felsic dominant, 3m thick BtS which is very weakly foliated relative to adjacent units at top of unit. Strong albitization of felsic gneiss with moderate chlorite and clay alteration of mafics. Moderate to strong clay along fractures, .1% hematite with felsics and .1% fracture controlled limonite. Small high As (~1500ppm) zone from 81.18-81.30m in area of only very weakly increased limonite and hematite in wall rocks. Also from 86.90-87.80m have fractured and clay rich zone of altered felsic gneiss: .75% disseminated limonite and .25% frac controlled hematite, with moderate albitization.
		48.4 - 60.8	Selective Repl Strong Albite	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
		60.8 - 81.2	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
		81.2 - 81.3	Pervasive Strong Clay	
		81.3 - 86.9	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Weak Clay
		86.9 - 87.9	Selective Repl Moderate Albite	Fracture Controlled Moderate Clay Patchy Moderate Silicification
87.9 - 150.2	MxM	augn	Fol-mod	Mafic component is variably coarse to finely porphyroblastic biotite schist with moderate chloritization and patchy strong carbonation along foliation. Also have small (1-2cm) carbonate bands within the schist. Felsic units are moderately to strongly silicified, and contain up to .25% disseminated hematite. Pyrite present (.5%) occurring as oxidized cubes along foliation. Patchy clay after mafic components with areas breaking down strongly.
		87.9 - 150.2	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Selective Repl Moderate Calcite
150.2 - 161.2	MxF	augn	Fol-mod	Alternating patchy strong albitization and silicification of felsic gneiss with minor BtS within. Weak limonite component to the albitized areas, and minor hematite within silicified zones. Ends abruptly with contact to IV.
		150.2 - 161.2	Patchy Strong Albite	Patchy Strong Silicification Replaces Mafics Moderate Chlorite

161.2 - 166.0	IV	phyr	IV, fine grained and weakly magnetic with patchy white clay alteration, but generally quite fresh. Contact strikes 102 degrees with an near vertical dip (86 degrees). Ends abruptly in oxidation front and stronger clay alteration in patch which is foliated and possibly a raft of mafic wall rock (BtS) from 162.72-163.07m. Beyond the raft, grain size increases and the dyke is strongly white clay altered with ghost laths most likely of amphibole present in a white clay/silica matrix until 164m, where oxidation returns and clay alteration intensifies to strong. Appearance resembles an FC but seems to be simply increase in alteration.		
		161.2 - 163.2	Patchy Moderate Clay		
		163.2 - 164.0	Pervasive Moderate Clay	Selective Repl Moderate Leucoxene	
		164.0 - 170.9	Pervasive Strong Clay		
166.0 - 170.9	HU		HU unit, possibly extension of dyke with strong clay alteration, however still competent. Small patches of Ylim with hematitic clay matrix up t 9cm in size, pervasively clay altered. Patches have completely broken down, strong limonite up to 3% with hematite present up to 3%		
170.9 - 172.0	FC	phyr	White clay altered with lise gang banded oxidation (hematite) through fine grained FC. End contact is brecciated (Ylim) over 8cm interval before breaking down against felsic gneiss wallrock. 1.5% lim and hematite throughout. Breccia matrix is hematitic clay with fragments of the FC preserved and very small (.5mm) fragments/pieces of quartz, however unsilicified.		
		170.9 - 180.5	Patchy Strong Albite	Patchy Moderate Silicification	Fracture Controlled Weak Clay
172.0 - 180.5	FG	augn	Fol-mod	Felsic gneiss below zone with extension of oxidation halo present. Stong albitization in patches with associated clay breakdown (mod to strong). Limonite and hematite disseminated 1% lim and 1% hem, strongest along fractures. Patchy moderate silicification in most competent and un-albitized gneiss.	
180.5 - 212.0	FG	augn	Fol-mod	End of oxidation halo, rock becomes strongly patchily silicified with patches of moderate albite and clay alteration of feldspars. In albitized areas, have occasional breakdown along fractures due to white clay alteration, however most of unit is very competent. Patches of hematite disseminated through gneiss giving a pink colour, .25%. Weak limonite, .1% associated with albitization. Coarse muscovite dispersed throughout foliation (phengite?).	
		180.5 - 212.0	Patchy Moderate Albite	Patchy Moderate Silicification	Fracture Controlled Weak Clay

Drill Log: CFD0240

Easting	584825.65	Hole Length	305 m	Prospect	Double Double	Drill Started	Jun 13, 2012	Comment
Northing	6973249.21	Azimuth	180 °	Target	Double Double	Drill Completed	Jun 17, 2012	
Projection	UTM7-NAD83	Dip	-60 °	Geologist	MRender	Core Size	HQ	
Survey method	RTK GPS	Elevation	1068.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.5	OVB			
		0.0 - 10.8	Fracture Controlled Moderate Clay	Selective Repl Moderate Sericitisation
9.5 - 10.7	BtS			Zone. Very broken ground. Silicified in part. Stockwork of silicified-clay altered limonite veins (~3%). Dismembered opaque qtz veins.
10.7 - 14.5	BtS			Very broken ground. Limonite+hemaite on fracture planes (1% + 1%). Clay alteration fracture controlled. Chlorite after biot.
		10.8 - 20.5	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
				Selective Repl Moderate Sericitisation
14.5 - 20.5	BtS			High frequency of limonite veining (~1%). Silicified-patchy. Sericite throughout-overgrowing both chlorite and biotite.
20.5 - 21.2	HU			Unconsolidated. Rubble. Limonite ~1-2% fracture controlled. Strong clay alteration-pervasive (white).
		20.5 - 21.2	Pervasive Strong Clay	
21.2 - 26.0	BtS			High frequency of limonite +clay+?late silica veining trending sub-parallel to core axis (1-2%). Patchy silicification throughout.Chlorite after biotite. Clay + limonite on fracture planes. At 23.2-possible fuchs site.
		21.2 - 31.7	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
				Selective Repl Moderate Sericitisation
26.0 - 31.5	BtS			Variably altered. Weakly silicified and chloritic. Limonite on fracture planes (~0.25%).
31.5 - 35.1	BtS			Weak zone. Mottled silicification + hemaite (~1%). Limonite on fracture planes and in-vein (~1%). Sericite overgrowing chlorite. Weak limonite vein stockwork.
		31.7 - 37.2	Pervasive Strong Silicification	Pervasive Strong Clay
				Selective Repl Moderate Sericitisation
35.1 - 37.2	HU	silc		Zone. Limonite vein stockwork and pervasive (~3%). Silicified. Truncated opaque qtz vein and gneiss by limonite stringers-brecciate appearance.
37.2 - 37.6	HU			Zone. Intensely clay altered. Pervasive limonite (5%) and hemaite (~2%). Preserved grains of qtz? 2-5mm.
		37.2 - 37.6	Strong Clay	
37.6 - 38.6	HU	silc		Zone. Limonite vein stockwork and pervasive (~3%).Silicified limonite + clay veins up to 20mm wide. Patchy hematite (~1%).
		37.6 - 51.5	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite
				Selective Repl Moderate Sericitisation
38.6 - 44.8	BtS			Very broken ground. Largely rubble. Preserved silicified chloritic intervals (Bts). Limonite (~0.5%) + hematite (~0.25%) on fracture planes.
44.8 - 51.6	AmBtS	silc		Strongly silicified in part. Silicified intervals have white mica overgrowing foliation. Alteration contacts obvious. BTs-preserved is also strongly sericitic. Silicified intervals are pink-hem?
		51.5 - 53.5	Fracture Controlled Strong Clay	Replaces Mafics Moderate Chlorite
				Vein Selvege Weak Calcite
51.6 - 54.2	AmBtS			Weak zone. Largely unconsolidated-rubble. Fracture controlled limonite (~1-2%). Compotent sections have stockwork of Fe-Carb veins. Wall rocks-chloritized.
		53.5 - 61.0	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
				Patchy Moderate Epidote
54.2 - 60.0	AmBtS			Equigranular mafic-with chlorite/biotite foliation. Medium grained. Minor carbonate veining.
60.0 - 61.3	AmBtS			Very broken ground. Clay alteration of feldspar. Patchy silicification. Limonite increasing- ~0.5%, fracture controlled.
		61.0 - 61.3	Pervasive Strong Silicification	

61.3 - 61.8	AmBtS			Zone. Brecciated limonite + clay vein. Coherent. Limonite ~2%. White clay + late calcite veining. Steeply dipping to the north. Wall rocks limonite + hematite (~2 + 1%), with remnant foliation- earlier mineralizing event- ~3000ppm As. Small grains of qtz- subrounded 2-3mm and limonitic ambs.
		61.3 - 61.8	Patchy Strong Clay	Pervasive Weak Silicification
61.8 - 67.3	AmBtS			Strongly foliated. Carbonate pervasvie. Locally very broken. Chloritic. Fracture controlled limonite (~0.25%).
		61.8 - 67.2	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
		67.2 - 67.4	Pervasive Moderate Clay	Pervasive Moderate Silicification
67.3 - 67.4	HU			Weak discrete zone. Limonite disseminated (~2%) with strong clay- coherent. Fe carb vein? Irregular margins. Secondary pyrite blebs. -2-3mm.
		67.4 - 71.5	Replaces Mafics Moderate Chlorite	Pervasive Moderate Calcite Fracture Controlled Weak Clay
67.4 - 75.1	BtS			Strongly foliated. Carbonate pervasvie. Locally very broken. Chloritic. Fracture controlled limonite (~0.25%).
		71.5 - 75.0	Replaces Mafics Weak Chlorite	Selective Repl Weak Clay Patchy Weak Calcite
		75.0 - 76.2	Strong Clay	
75.1 - 76.3	HU			Weak zone. Pervasive limonite (~2%). Strong clay alteration pervasive. Carbonate throughout. Weak remnant foliation.
		76.2 - 98.0	Replaces Mafics Moderate Chlorite	Patchy Weak Calcite Patchy Weak Epidote
76.3 - 97.0	BtS			Strongly foliated. Weakly chloritic. Patchy epidote through. Trace disseminated py-overgrowing foliation. Patchy silicification- foliation parallel. From 77-77.2m- Pegmatite? Partial melting? Coarse quartz (pink)+ amphibole?-alterting to chlorite
97.0 - 113.2	AmBtS			Weakly chloritic. Patchy epidote throughout. Zones less chloritic with more fldspr +/-qtz and biotite foliation (bts). Trace diss py throughout. Limonite fracture controlled (~0.25%).
		98.0 - 113.0	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
		113.0 - 114.8	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
113.2 - 114.8	FG	silc		Cream-pink coloured. Weakly foliated. Siliceous. Older felsic intrusive? Contacts are foliation parallel.
114.8 - 140.7	MxF	augn		Biotite defining the foliation. Fldsp- augen. Fresh. Trace diss py.
		114.8 - 140.7	Selective Repl Weak Sericitisation	
140.7 - 142.6	SZ		Fol-str	Zone? At contact between augen gneiss and massive felsic intrusive? Zone is sheared- appears to be ambs. With calcite veining trending parallel to foliation. Weakly limonitic in part. Trace sooty py? And fine-grained biotite+chlorite veining/alteration? Bleached in part- Fg sericite+albite+/- quartz.
		140.7 - 142.6	Pervasive Strong Sericitisation	Selective Repl Moderate Chlorite Pervasive Strong Albite
142.6 - 171.1	Amph		Fol-wk	Massive, intrusive? Strongl altered- sericite + chlorite. Weakly foliated. Qtz+plag+biotite- alteration is chlorite+ser+calcite. Calcite disseminated throughout. Weak limonite on fracture planes (~0.25%). More intermediate? Strongly altered. At 160.7- foliation weakening. Becomes more eqigranular. Weak spinifex texture defined by amphibole. Chlorite pseudomorphing ampibole. Mineral assemblage= plag+qtz+amphibole. Alteration= chlorite (after amphibole) + calcite pervasive. Quartz diorite- in composition. Trace diss- py. Fining towards basal contact with gneiss.
		142.6 - 155.4	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite
		155.4 - 175.0	Replaces Mafics Moderate Chlorite	Patchy Moderate Calcite
171.1 - 173.4	MxF	augn		Fresh gneiss.
173.4 - 175.1	DIOR	fgrn		Fresh mafic dyke. Weakly chloritic. Aphanetic. Contact cross-cutting foliation.
		175.0 - 264.6	Selective Repl Moderate Sericitisation	Patchy Moderate Calcite Patchy Weak Silicification
175.1 - 264.6	MxF	augn		Fresh. Weak limonite on fracture planes 0.25%. Trace diss py throughout. Small fldspr augen- increasing in size down-hole. Biotite defining foliation. Becoming increasingly broken down-hole from 200m- ~0.5% fracture controlled limonite. Patchy hematite. Sericite overgrowing foliation-metamorphic? Weakly siliceous in part. Mm-scale chlorite veining from 2610m. Trace epidote veining.
264.6 - 305.0	BtS	fgrn		Transitional contact with overlying mixed gneiss. Fine-grained. Trace disseminated pyrite. Fine-grained leucoxene throughout. Coarsening down-hole. Strong foliation. Very broken ground to end-of-hole.
		264.6 - 305.0	Selective Repl Moderate Leucoxene	Selective Repl Weak Sericitisation Patchy Weak Silicification

Drill Log: CFD0241

Easting	584876.71	Hole Length	311 m	Prospect	Double Double	Drill Started	Jun 13, 2012	Comment
Northing	6973253	Azimuth	180 °	Target	DD	Drill Completed	Jun 16, 2012	
Projection	UTM7-NAD83	Dip	-60 °	Geologist	JCurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1077.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.3	OVb			
5.3 - 40.2	MxF	augn		Variably altered gneiss, local weak fracture controlled clay and albite altn, felsic units display moderate silicification. Minor FC limonite (0.25% with hematite staining associated with clay and bleaching.)
		5.3 - 40.2	Selective Repl Moderate Silicification	Fracture Controlled Weak Clay Replaces Mafics Weak Chlorite
40.2 - 80.0	MxM	fgrn	Fol-mod	Chlorite and epidote altered Bts dominant gneiss, gneiss lith displays moderate silicification.
		40.2 - 92.4	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote
80.0 - 92.4	BtS	biot		Bts with moderate chlorite and epidote altn, weak selective replacement clay. 1% buck qtz veins (foliation parallel)
92.4 - 105.7	IV	phyr		Qtz phenocrystic intermediate dike. Displays weak foliation locally. Minor fracture controlled clay and limonite staining.
		105.0 - 116.0	Selective Repl Weak Silicification	Replaces Mafics Strong Chlorite
105.7 - 116.1	BtS	band	Fol-str	Strong chlorite altn and moderate epidote BtS. Local minor blebby brassy pyrite.
		116.0 - 185.0	Selective Repl Weak Silicification	Replaces Mafics Weak Chlorite
116.1 - 196.4	MxM	amyl		Mixed gneiss with minor chlorite and sericite altn. Weakly silicified. Brassy pyrite blebs continue.
		185.0 - 213.0	Selective Repl Moderate Chlorite	Selective Repl Moderate Sericitisation Vein Seldedge Weak Epidote
196.4 - 213.5	FC	mgrn	Fol-wk	Intermediate intrusive, fine grain disseminated magnetite, strong chlorite/sericite alteration.
		213.0 - 213.8	Selective Repl Moderate Sericitisation	Selective Repl Weak Albite
213.5 - 213.6	Ylim	bxm		sub-angular porcelainic clast, silica-limonite matrix supported bx. Upper contact open space qtz vein.
213.6 - 216.9	FC	mgrn	Fol-wk	Qtz phenocrystic intermediate dike.
216.9 - 238.4	MxM	biot		
238.4 - 246.9	IV	phyr		
246.9 - 275.8	MxF	silc		Mixed gneiss, felsic dominant, moderate chlorite altn of melanocratic zones and silification of felsic gneiss.).25% fracture controlled limonite.
		247.0 - 271.0	Selective Repl Moderate Silicification	Replaces Mafics Moderate Chlorite
275.8 - 276.0	YO	silc		fine grain angular silica clasts, porcelainic matrix bx. Fracture controlled limonite.
276.0 - 276.8	HU	mud		Intense clay and limonite altn, patchy windows of tight foliation observed. 7-10% limonite, 2cm plan qtz vein xcutting.
		276.0 - 279.0	Pervasive Strong Clay	Selective Repl Intense Silicification
276.8 - 277.2	HU	silc		Silicified sooty sulphides and oxidized limonite and hematite up to 7%. Local med grain angular brecciation in silica/pyrite matrix.
277.2 - 277.6	Ylim	bxm		fine grain sub angular silicified schist clasts, limonitic clay matrix bx with 5% limonite and hematite.
277.6 - 277.8	YC	bxl		crs grained angular silicified clasts w/ 1% diss sooty and hematite rims in weakly limonitic clay matrix supported bx. 2% limonite.
277.8 - 279.1	HU	silc		Intensely silicified, protolith unrecognizable. Mod sericite and 2% disseminated limonite. Weak fracture control hematite.
		279.0 - 286.5	Selective Repl Strong Sericitisation	Selective Repl Moderate Fracture Controlled Strong Clay Silicification
279.1 - 280.3	BtS			Strongly altered Bts, mod chlorite and clay replacement. Overprinting silicification. 1% limonite associated with clay and 0.25% disseminated throughout.

280.3 - 280.8	YO	silc	Siliceous brecciam percelianic and vuggy qtz veins brecciated within thematrix of a med grain sub angular silica amtrix supported bx?		
280.8 - 311.0	BtS	band	Fol-wk	BtS with minor felisc gneiss, Moderate local silica and sericite altn, weak fracture controlled limonite and blebby pyrite.	

Drill Log: CFD0242

Easting	584290.85	Hole Length	253.75 m	Prospect	Supremo T3	Drill Started	Jun 14, 2012	Comment
Northing	6974275.04	Azimuth	269 °	Target	T3	Drill Completed	Jun 16, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1271.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.4	OVb			Overburden; felsic gneiss. Strong silicification.
		0.0 - 3.4	Pervasive Strong Silicification	
3.4 - 34.5	MxF			Felsic dominated gneiss. Variably altered. 3.4-23.06 m: mod to strong silicification, mod chlorite in mafic segregations associated with mod clay altn, mod epidote appearing in bands and blebs; 0.01% FC lim, 0.01% red stained pyrite cubes. 23.06-34.45 m: more fractured interval with local vuggy texture, weak clay alteration of feldspars and in fractures, strong patchy silicification, local weak epidote in bands, weak albite altn; 0.1% FC lim and 0.1% lim/hm staining pyrite. Unit contains 0.1% 10-120 mm wide milky quartz veins, cross-cutting foliation.
		3.4 - 23.1	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite
		23.1 - 34.5	Patchy Strong Silicification	Fracture Controlled Weak Clay
				Patchy Moderate Clay
				Replaces Felsics Weak Clay
34.5 - 35.0	DIOR	mgrn		Intermediate dyke, diorite. Equigranular with 2mm wide plagioclase and biotite grains. Minor muscovite content around upper and lower contacts; both contacts are sharp. Vuggy texture. Weak clay and chlorite altn. 0.1% hm stained pyrite.
		34.5 - 35.0	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite
35.0 - 35.9	FG	augn		Felsic gneiss. Augen-bearing with vuggy texture. Strong silicification. 0.1% hm staining pyrite.
		35.0 - 35.9	Strong Silicification	
35.9 - 37.9	DIOR	mgrn		Intermediate dyke, diorite. Equigranular with 3mm wide plagioclase (60%) and biotite (40%) grains. Local vuggy texture. Fabric is visible from 37.15 m to end of unit (45 LCA), associated with foliation parallel quartz veinlets. 0.1% red stained pyrite, as well as 0.1% brassy pyrite cubes.
		35.9 - 37.9	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite
37.9 - 43.6	FG	augn		Felsic gneiss. Locally augen-bearing, vuggy texture. Strong silicification, weak albite, weak FC clay. 0.1% lim in fractures and replacing feldspars, 0.1% hm staining pyrite.
		37.9 - 43.6	Pervasive Strong Silicification	Selective Repl Weak Albite
				Fracture Controlled Weak Clay
43.6 - 61.1	MxF	augn	Fol-mod	Mixed gneiss, felsic dominant with clay/chlorite alteration of mafics including pitting of thing (1cm) mafic layers within felsic gneiss. Moderate to strong albite alteration of feldspars within felsics. Areas of stronger clay are heavily fractured and rubbly, and .5% fracture controlled limonite and .25% frac cont hematite present. Small zone of strong albite leading into 1% disseminated limonite and .5% hematite from 58.30-59.20m.
		43.6 - 58.3	Patchy Moderate Silicification	Fracture Controlled Moderate Clay
		58.3 - 59.2	Selective Repl Strong Albite	Fracture Controlled Strong Clay
		59.2 - 61.1	Patchy Moderate Silicification	Fracture Controlled Moderate Clay
				Selective Repl Moderate Albite
61.1 - 70.6	MxM	pblst	Fol-mod	Dominantly mafic, moderate chlorite throughout and very weak fracture controlled limonite. Patches of moderate clay after the mafics. Biotite schist is carbonated along foliation, no significant banding.
		61.1 - 70.6	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Calcite
				Patchy Moderate Silicification

70.6 - 89.4	MxF	augn	Fol-mod	Coarse augens in dominantly felsic gneiss. Patchy oxidation fronts with patchily moderate to strong silicification through the felsic gneiss. Small slips of BtS are pervasively carbonated with moderate chlorite replacement of biotite. Small microbreccia present in felsic gneiss with red hematite matrix. Weakly developed, on XRF runs 1100ppm As. Surrounding limonitic oxidized zones, some with similar weakly developed brecciation do not run at all. Patch is from 78.45-78.54m, see detailed picture.		
			70.6 - 87.3	Patchy Strong Silicification	Fracture Controlled Weak Clay	Selective Repl Moderate Calcite
			87.3 - 94.3	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
89.4 - 116.1	MxM	pblst	Fol-mod	Moderate patchy silicification through the felsic components, moderate chlorite alteration of biotite schist. Small zone from 94.32-95.0m which runs 3400ppm As on deep red hematite areas. Zone is in patch of BtS which contains 1.5% disseminated limonite with 1% hematite in small patches and bands (areas which run high As). Very localized zone, no oxidation halo or silicification present, but moderate pervasive clay with the limonite.		
			94.3 - 95.0	Pervasive Moderate Clay	Selective Repl Moderate Albite	
			95.0 - 116.1	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
116.1 - 118.6	FG		Fol-wk	Patch of oxidized and clay altered felsic gneiss. Moderate pervasive clay alteration and moderately fractured, with 1% disseminated limonite and dark red hematite bleeding in along fractures. These fractures run approx. 400ppm As while surrounding oxidized rock runs approx. 150ppm. .5% fracture controlled hematite.		
		116.1 - 118.6	Pervasive Moderate Clay	Selective Repl Moderate Albite		
118.6 - 134.5	MxM	pblst	Fol-mod	Mixed gneiss, mafic dominant. Biotite schist units are moderately to strongly decomposing to chlorite and clay. Felsic rocks are moderately silicified. Small fracture zones present within biotite schist with moderate clay along fractures.		
118.6 - 134.5			Patchy Moderate Silicification	Replaces Mafics Moderate Clay	Replaces Mafics Strong Chlorite	
134.5 - 136.6		FG			Felsic gneiss, +/- muscovite. Fractured unit with vuggy texture in strongly silicified felsic intervals, associated with mod albite altn and local weak epidote. 0.1% blebby py, as well as partly oxidized pyrite cubes.	
		134.5 - 136.6	Pervasive Strong Silicification	Replaces Felsics Moderate Albite	Selective Repl Weak Epidote	
136.6 - 140.0	MxF	augn		Felsic dominated gneiss. Augen-bearing fractured unit. Strong patchy silicification, mod chlorite and weak FC clay alteration in BtS intervals. 0.1% red-stained to blebby pyrite.		
			136.6 - 140.0	Patchy Strong Silicification	Fracture Controlled Weak Clay	Replaces Mafics Moderate Chlorite
140.0 - 170.1	MxF	augn		Felsic dominated gneiss. Augen bearing. Strong silicification, weak to mod chlorite altn in BtS intervals. Vuggy texture at 167.10-168.42 m associated with bands of mod albite altn of feldspars. 0.1% red-stained to brassy pyrite blebs. 0.1% milky quartz veins, 2-14 cm wide, irregular to sub-parallel to foliation.		
			140.0 - 167.1	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite	
			167.1 - 168.4	Pervasive Strong Silicification	Replaces Felsics Weak Albite	Replaces Mafics Weak Chlorite
			168.4 - 176.2	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite	
170.1 - 176.2	MxF			Felsic dominated gneiss. Locally augen-bearing. Vuggy texture at top of unit, with limonitized pyrite cubes (?). Weakly brecciation around a quartz vein at 171.74-172m: sub-angular limonitized clasts of wall-rock in irregular milky quartz vein. Strong silicification, weak chlorite altn in BtS intervals. 0.1% FC lim at 170.15-175 m, 0.1% brassy pyrite.		
176.2 - 180.0	FG	augn	Fol-mod	Zone of felsic gneiss with strong albitization of feldspars, and approx. .75% disseminated limonite and weak clay associated with the feldspar replacement. Fractures contain up to 1% deep red hematite which bleeds in throughout the bleached zone and runs up to 900ppm As. Fractures also have up to moderate clay alteration, especially at 178m where deep red clay fractures run up to 2000ppm As.		
			176.2 - 180.0	Selective Repl Strong Albite	Fracture Controlled Moderate Clay	
180.0 - 199.2	MxF	augn	Fol-mod	Mixed gneiss, very dominantly felsic. Gneiss is pervasively silicified (strong), contains coarse feldspar augens, and contains small pyrite cubes along foliation oxidizing to hematite giving a pink colour. Rare coarse brassy pyrite up to 3mm in size. Weak fracture controlled limonite.		
			180.0 - 199.2	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite	
199.2 - 207.6	FG	augn	Fol-mod	Alteration halo of main zone begins: felsic gneiss with patchy alternation of strong silicification and strong albitization of feldspars. Hematite bleeds in off of fractures and limonite is disseminated through the albitized gneiss. Limonite can also be fracture controlled through the silicified gneiss. Unit ends in obscured contact with FC where stronger mottled hematite bleeding begins through very strongly altered gneiss. Weak fracture controlled clay present nearing the FC contact. No orientation at contact possible due to drilling block.		
			199.2 - 207.6	Selective Repl Strong Albite	Patchy Strong Silicification	Fracture Controlled Weak Clay

207.6 - 216.1	FC	fgrn	Beginning of main zone: FC which has been pervasively clay altered and strongly oxidized. Mottled oxidation bands of hematite through limonite, with less oxidized patches showing relict igneous textures. Dyke contains an intensely altered (silicified, clay, strong oxidation) unit of felsic gneiss from 212.45-214.50m which represents either the dyke splitting into two main fingers around it, or (more likely) a raft of wall rock caught up in the dyke. No discernable hard contacts are present between the two units implying that the FG is a raft and has been partly assimilated with the dyke. Fractures through dyke show strongest deep red hematite alteration and are clay rich.	
		207.6 - 212.5	Pervasive Strong Clay	
		212.5 - 214.5	Pervasive Strong Silicification	Fracture Controlled Weak Clay
		214.5 - 220.5	Pervasive Strong Clay	
216.1 - 219.5	HU	Unit is most likely the continuation of FC above, however is completely broken down, no relict igneous textures readily visible, and is very limonite and hematite rich. Heavily fractured and strong clay alteration is pervasive throughout.		
219.5 - 220.3	FC	fgrn	Dyke continues and is less fractured than HU above, but still extremely oxidized and contains strong pervasive clay alteration. Unit ends in beautiful contact with altered FG. Dyke side of contact is brecciated over 10cm interval with small (1mm) rounded clasts in a strong clay/limonite matrix juxtaposed with a more competent and silicified felsic gneiss unit. Contact is near vertical dipping XX to XXX. Note: end of unit (.25) is measured to center of contact.	
220.3 - 238.8	FG	augn	Fol-mod	Felsic gneiss with patchy strong silicification and albitization of coarse feldspar augens. Albitized areas have minor disseminated limonite, and .5% fracture controlled limonite over interval. Silicified gneiss has pinkish hue due to minor (25%) hematite.
		220.5 - 222.8	Selective Repl Strong Albite	Patchy Moderate Silicification Fracture Controlled Weak Clay
		222.8 - 227.3	Pervasive Strong Silicification	
		227.3 - 238.8	Patchy Strong Silicification	Selective Repl Strong Albite
238.8 - 246.4	FG	augn	Fol-mod	Oxidized zone of felsic gneiss with moderate albitization of feldspars, and patchy strong silicification. Fractured quartz veins present with limonite along fractures, no brecciated textures however. Minor clay along some fractures which have broken down. 1% limonite disseminated throughout, .5% hematite found as stringer/veinlets which could run.
		238.8 - 246.4	Selective Repl Moderate Albite	Pervasive Moderate Silicification
246.4 - 253.8	MxF	augn	Fol-mod	Moderately to strongly pervasively silicified felsic gneiss with minor (20cm max) biotite schist slips which are moderately chloritized. .1% fracture controlled limonite.
		246.4 - 253.8	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite

Drill Log: CFD0243

Easting	585428.97	Hole Length	254 m	Prospect	Double Double	Drill Started	Jun 16, 2012	Comment
Northing	6973428.11	Azimuth	177 °	Target		Drill Completed	Jun 19, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	Jcurrie	Core Size	NQ	
Survey method	RTK GPS	Elevation	1078.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVB			
		0.0 - 29.6	Fracture Controlled Weak Clay	Replaces Mafics Moderate Chlorite
3.0 - 41.9	MxM	pblst		Mafic dominated gneiss dominated by porphyroblastic BtS with persistent muscovite throughout, with shorter intervals of augen-bearing (up to 5mm across) felsic gneiss. Surface profile weathering is strong down to 30.5m, down too where the unit is strongly fractured. Dominated by weak fracture controlled clay alteration and weak chlorite altn, with a short interval of strong FC clay at 29.63-30.5m. Trace (0.01%) limonite in fractures and 0.1% brassy pyrite.
		29.6 - 30.5	Fracture Controlled Moderate Clay	
		30.5 - 41.9	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite
41.9 - 45.6	BtS	pblst		Zone. Unit consists of three sub-units of locally porphyroblastic BtS with persistent strong sericite alteration of feldspars. The uppermost sub-unit (41.87-43.28m) is weakly clay altered, with clay appearing in fractures as well as lim-clay replacing feldspar porphyroblasts; unit is moderately fractured; 2% limonite in fractures and replacing feldspars, 0.25% FC hm. The medial sub-unit (43.28-44m) is strongly fractured and clay altered, with lim-clay replacing feldspars; at strong limonitization of feldspars and lim bleeding out of fractures (2% diss) and 0.5% FC hm; at 43.90-44m the sub-unit is intensely fractured with strong pervasive clay-lim-hm alteration (2.5% diss lim, 1.5% diss hm) and possibly contains a fault zone; sub-unit ends in a quartz vein showing some brecciation although the contact is concealed in the overlying broken up interval. The lowermost sub-unit is strongly fractured and shows weak fracture controlled clay altn, as well as lim-clay replacement of feldspars; 2% lim replacing feldspars and bleeding out of fractures, the sub-unit also contains more hematite mainly related to fracture bleeding (1%). XRF As at 617ppm at 44m, 514ppm at 45m.
		41.9 - 43.3	Fracture Controlled Weak Clay	Selective Repl Strong Sericitisation
		43.3 - 43.9	Replaces Felsics Strong Clay	Selective Repl Strong Sericitisation
		43.9 - 44.0	Pervasive Strong Clay	
		44.0 - 45.6	Replaces Felsics Moderate Clay	Patchy Weak Silicification Selective Repl Strong Sericitisation
45.6 - 53.0	MxM	pblst		Mafic dominated gneiss. Dominated by porphyroblastic BtS with persistent muscovite throughout, interlayered with intervals of augen-bearing (up to 5mm across) felsic gneiss. Unit shows overall weak clay alteration in fractures. Weak epidote and weak chlorite alteration of mafics is also present at 50.28-53 m, with epidote in irregular blebs and bands. Trace FC lim and hm (0.1-0.25m).
		45.6 - 47.6	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite
		47.6 - 47.8	Fracture Controlled Moderate Clay	
		47.8 - 50.3	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite
		50.3 - 53.0	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite Selective Repl Moderate Epidote
53.0 - 67.0	MxF	silc		Weak patchy zone. Felsic dominated gneiss with. Muscovite is persistent throughout unit. Strongly silicified and weakly mineralized felsic intervals with weak FC clay and mod calcite altn, up to 0.5% FC lim and 0.25% FC hm bleeding out of fractures (53-59.8m, 64-64m); more fractured interval with mod white clay alteration at 57.45-59.8m. BtS interval at 59.8-64m has weak FC clay, weak chlorite and mod pervasive calcite altn, 0.1% FC lim. Network of quartz veining with Fe-carb selvage at 54.83-55.53m, 0.1% calcite veins, 0.25% qtz veins and veinlets with Fe-carb selvage. Unit did not run more than background As in XRF spot checks.
		53.0 - 57.5	Pervasive Strong Silicification	Selective Repl Moderate Fe-carb Fracture Controlled Weak Clay
		57.5 - 59.8	Fracture Controlled Moderate Clay	Selective Repl Moderate Fe-carb
		59.8 - 64.0	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite Pervasive Moderate Fe-carb
		64.0 - 67.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay Patchy Moderate Fe-carb

67.0 - 93.1	MxM		Fol-str	Mafic dominated gneiss. Weakly chloritized and moderately carbonate altered biotite schist dominates unit, with local bands of moderate epidote altn. More felsic intervals are moderately silicified. Unit shows local vuggy texture. More fractured interval at 90.1-93.1 with weak FC clay. 0.1% lim in fractures, 0.1% blebby pyrite.	
		67.0 - 93.1	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote
93.1 - 96.7	MxF	silc	Fol-mod	Strong silicification and sericitization of a mixed gneiss package, felsic dominant (QSP alteration, no sooty py. Multiple fractured carbonate veins which can be offset.	
96.7 - 97.1	HU			Strongly limonitic and pervasively Fe-carbonated unit with 10cm of strong pervasive clay through a microbrecciated unit with Fe-carbonate. Clay zone preserves some small clasts however most of the unit has been completely decomposed. Small patches of deep red hematite is present and does not effervesce through both the brecciated clay area and the more competent area.	
		96.7 - 97.1	Selective Repl Strong Clay	Selective Repl Strong Fe-carb	
97.1 - 99.2	HU	silc		Strong silicification of host rock which has then been multiply fractured and subsequently healed by Fe-carbonate, with associated clay along the fractures. Locally these fractures produce an immature brecciation, clast supported, which increases to a potential YC at the end of the unit over an 8cm span. Drusy quartz veining at 99.40-99.65m.	
		97.1 - 99.2	Pervasive Strong Silicification	Fracture Controlled Moderate Clay	Fracture Controlled Moderate Fe-carb
99.2 - 101.0	HU			Strong pervasive Fe-carbonate in stockwork style veining which is both offset and overprints itself. High amount of movement through the unit, and a ~30cm of strong clay decomposition from 100-100.30m, followed by heavily fractured rock immediately after. Patches of deep-red hematite do not effervesce. Possible quartz vein present however now brecciated and mildly offset. Some relict fragments of host rock present in the strongly clay altered zone raising the possibility of the patch originally being a breccia which has been near completely altered. Moderate pervasive silicification throughout.	
		99.2 - 101.0	Pervasive Moderate Silicification	Patchy Strong Clay	Pervasive Strong Fe-carb
101.0 - 101.7	HU			Moderate pervasive Fe-carbonate with moderate silicificiaton, and small breccia (7cm) with fine grained possibly clay replaced clasts, clast supported. Fe-carbonate is present both pervasively through limonitic clay replaced areas as well as in veinlets which are offset. Hematite patches are dark red. As hit of 1.6% through end of unit in deep red hematite dominated area (less yellow limonite and Fe-carbonate present).	
		101.0 - 101.7	Pervasive Moderate Fe-carb	Pervasive Moderate Clay	Pervasive Moderate Silicification
101.7 - 106.0	BtS	silc	Fol-wk	Intensely silicified and sericitized biotite schist. Weak foliation still visible, however patches have been so completely silicified as to obliterate any foliation. Strong movement and offsetting of multi-episodic, possibly cherty silica veins with carbonate selvage. Also Weak fracture controlled limonite, blebby brassy pyrite present throughout.	
		101.7 - 106.0	Pervasive Intense Silicification	Pervasive Intense Sericitisation	
106.0 - 110.5	BtS	silc		Moderately silicified biotite schist with veinlets of quartz cross-cutting weak foliation, locally offset suggesting some deformation. Weak sericite and 0.1% FC lim. More fractured with weak pervasive clay and mod carbonate altn at 108.8-110.45m; possibly a very weak shear zone. 0.25% disseminated brassy pyrite.	
		106.0 - 109.8	Pervasive Moderate Silicification	Patchy Moderate Fe-carb	Selective Repl Weak Sericitisation
		109.8 - 110.5	Pervasive Weak Clay	Pervasive Moderate Fe-carb	
110.5 - 113.3	FG	silc		Strongly silicified felsic gneiss. Fabric is almost completely lost due to silicification and potassium (?) alteration of feldspar. Weak clay and moderate carbonate altn in fractures. 0.25% lim in fractures and 0.1% hm staining pyrite cubes. Multi-directional chalcedonic quartz veinlets with local limonitic selvage, as well as up to 15 mm wide locally offset buck quartz veins.	
		110.5 - 113.3	Pervasive Strong Silicification	Fracture Controlled Weak Clay	Fracture Controlled Moderate Fe-carb
113.3 - 122.4	MxM			Mafic dominated gneiss (minor FG intervals). Upper contact (113.33-113.63m) consists of a moderately silicified interval with numerous veins/stringers of limonite and Fe-Carb and weakly brecciated milky quartz veins. Below the contact multi-directional veining of quartz and calcite continues through an interval dominated by biotite schist intercalated with moderately silicified and weakly sericitized felsic gneiss with rare augens. Overall weak chlorite altn, patchy strong silicification and weak to moderate patchy carbonate altn, local mod epidote. 0.1% FC lim and 0.1% brassy pyrite.	
		113.3 - 122.4	Patchy Strong Silicification	Replaces Mafics Weak Chlorite	Selective Repl Weak Sericitisation
122.4 - 134.2	BtS		Fol-mod	Biotite schist +/- muscovite; weakly to moderately carbonate altered, and carbonate veins and veinlets cross-cutting fabric are abundant throught the unit, as well as weak to moderate patchy silicification. Local weak epidote. Minor quartz veining in irregular up to 100 mm wide veins, cross-cutting to foliation parallel. Sulphide content is composed of 0.25% disseminated pyrite throughout unit and trace (0.01%) fracture controlled limonite.	
		122.4 - 134.3	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Patchy Weak Fe-carb
134.2 - 136.6	MxF	silc	Fol-wk	Felsic dominated gneiss with local vuggy texture and muscovite. Strongly silicified with abundant fine-grained chlorite veins which are parallel to sub-parallel to LCA (0-22 degrees), some of which are slightly offset suggesting some deformation within the unit. 0.25% diss pyrite and 0.1% FC lim.	
		134.3 - 136.6	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Fe-carb

136.6 - 155.8	BtS		Fol-mod	Biotite schist +/- muscovite; weakly to moderately carbonate altered, and carbonate veins and veinlets cross-cutting fabric are abundant throughout the unit, as well as weak to moderate patchy silicification. Unit shows moderate epidote alteration in bands and irregular blebs at 147.2-156.64m. Sulphide content is composed of 0.25% disseminated pyrite throughout unit and trace (0.01%) fracture controlled limonite.	
		136.7 - 147.2	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Moderate Fe-carb
		147.2 - 155.8	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Moderate Fe-carb
155.8 - 179.2	BtS	silc	Fol-wk	Biotite schist +/- muscovite. Overall moderate patchy silicification, weak chlorite alteration and weak pervasive carbonate altn; 0.25% diss pyrite and 0.1% limonite in fractures and vein selvage. Local weak FC clay associated with up to 0.25% FC lim (162.5-164m; 165.05-174.5m). Top of unit contains a carbonate vein with an alteration halo of moderate chlorite, moderate silicification and weak sericite. A different alteration style is found at 164-164.50m where the unit is moderately clay altered and fractured; followed by a weakly oxidized interval with strong sil-ser in an alteration halo around laminated quartz veins with carbonate and limonite selvage (164.5-165.05m; 0.25% lim in fractures and vein selvage, 0.1% FC hm; interval did not run As on XRF).	
		155.8 - 162.5	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Sericitisation
		162.5 - 164.0	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Clay
		164.0 - 164.5	Pervasive Moderate Clay		
		164.5 - 165.1	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
		165.1 - 174.5	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite	Fracture Controlled Weak Clay
		174.5 - 179.2	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	
179.2 - 180.2	SZ			Shear zone in biotite schist. Weakly sheared unit with minor crenulations, with moderate carbonate alteration along fracture planes. Moderate patchy silicification and 0.1% diss pyrite.	
		179.2 - 180.2	Patchy Moderate Silicification	Fracture Controlled Moderate Fe-carb	
180.2 - 205.0	BtS	silc		Moderately silicified biotite schist with weak chlorite altn and pervasive weak carbonate altn probably due to frequent multi-directional carbonate veining. Local increased muscovite content and local weak epidote. 0.25% diss pyrite and 0.01 FC lim. Weak shear zone at 192.4-194.75 with minor crenulations and moderate clay-carb and weak limonite in fractures. Local vuggy texture (196.4-201.5m) with lim-clay-carb replacing feldspars.	
		180.2 - 192.4	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Pervasive Weak Fe-carb
		192.4 - 194.8	Fracture Controlled Moderate Clay	Fracture Controlled Moderate Fe-carb	Patchy Moderate Silicification
		194.8 - 196.4	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Pervasive Weak Fe-carb
		196.4 - 201.5	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Fe-carb
		201.5 - 205.0	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Pervasive Weak Fe-carb
205.0 - 226.5	BtS	silc	Fol-mod	Biotite schist with patches of strong to intense QSP alteration. Complex, multi-phase porcelanic silica veining in areas of strong sericite and pervasive silicification, with veinlets of sooty sulphides. Occasional vein haloes of sooty sulphide invading along foliation as disseminated sooty sulphide up to 1cm away from largest veins (4.5mm in width). In these zones (3 obvious zones), sooty sulphides are associated with latest phase of veining which always crosscuts foliation and earlier veins which exploited foliation. Spot XRF analysis produces As values up to ~1000ppm. Area saw multiple veining episodes, as well as multiple fluid pulses within a single episode in one example where a coxcomb quartz vein is seen to be banded with 5 separate coxcomb textures within a single vein. Patches with sooty sulphide have strongest pervasive silicification, while surrounding rock is moderately chloritized and moderately pervasively silicified.	
		205.0 - 206.2	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
		206.2 - 210.7	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite
		210.7 - 211.0	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
		211.0 - 212.6	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite
		212.6 - 212.8	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
		212.8 - 226.5	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite

226.5 - 252.2	IV	cgrn	Andesitic dyke with coarse zoned feldspar phenocrysts up to 1cm in a fine grained aphanitic matrix. Generally very fresh, with weak clay alteration of some feldspars. Fine carbonate veins crosscut the dyke randomly, with two styles of veining present, the second being cherty silica veins with carbonate selvage in a grey colour. Mild fractures (not disaggregated) have fine weak clay alteration.	
		226.5 - 252.2	Selective Repl Moderate Sericitisation	Pervasive Weak Silicification
252.2 - 254.0	BtS	silc	Fol-mod	Biotite schist with moderate chloritization and variably oriented stockwork-style late calcite veining. Brassy py present (.25%) which can be found as a 1cm blebby mass near an opaque white quartz vein at very bottom of hole.
		252.2 - 254.0	Replaces Mafics Moderate Chlorite	Pervasive Moderate Silicification

Drill Log: CFD0244

Easting	584276.64	Hole Length	260 m	Prospect	Supremo T3	Drill Started	Jun 16, 2012	Comment
Northing	6974150.57	Azimuth	272 °	Target	T3	Drill Completed	Jun 19, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1243.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.1	OVB			
4.1 - 57.2	MxF	augn	Fol-mod	Mixed gneiss, felsic dominant. Felsic gneiss has coarse (up to 1cm) augens, moderate pervasive silicification, and patchy epidote sometimes associated with mild carbonation. Fractures are limonitic with generally weak, although locally up to moderate, clay. Pyrite can be found as brassy blebs up to 2mm near BtS slips, and has visible oxidation rims (hematite), as well as oxidized cubes through the felsic gneiss.
		4.1 - 35.7	Pervasive Moderate Silicification	Selective Repl Moderate Epidote
		35.7 - 57.2	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
				Fracture Controlled Weak Clay
57.2 - 75.9	FG	augn		Moderate clay along fractures in felsic gneiss with .5% fracture controlled limonite. Moderate albitization of feldspars, with a patch of moderate silicification after fractured zone.
		57.2 - 75.9	Patchy Moderate Silicification	Selective Repl Moderate Albite
				Fracture Controlled Moderate Clay
75.9 - 76.9	IV	fgrn		Fine grained mafic dyke, well preserved contacts, weakly magnetic.
		75.9 - 76.9	Selective Repl Weak Clay	
76.9 - 77.8	FG	augn		
		76.9 - 77.8	Selective Repl Moderate Albite	Patchy Moderate Silicification
77.8 - 78.8	IV	fgrn		
		77.8 - 78.8	Selective Repl Weak Clay	
78.8 - 80.6	FG	augn		
		78.8 - 80.6	Selective Repl Moderate Albite	Patchy Moderate Silicification
80.6 - 85.0	IV	fgrn		
		80.6 - 84.6	Selective Repl Weak Clay	
		84.6 - 126.9	Patchy Moderate Silicification	Patchy Weak Albite
				Replaces Mafics Moderate Chlorite
85.0 - 126.9	MxF	augn	Fol-mod	Foliated felsic gneiss, patchy epidote, chlorites replacing mafics in rare biotite schist slips, 0.1% fracture controlled limonite, weak albitization, vuggy to pitted bands through silicified felsic gneiss present. Fractured areas have moderate fracture controlled clay.
126.9 - 143.2	MxM	pblst	Fol-mod	Mixed gneiss with pervasively carbonated biotite schist. No carbonate banding present. Moderate chlorite replacement of biotite, brassy pyrite along foliation. Felsic gneiss portions have moderate pervasive silicification and large augens (1cm) and contain brassy py along foliation. Some pitting/mass loss of mafics through gneiss, leading to a decomposed patch from 129.6-129.9 of coarse micas + clay.
		126.9 - 142.3	Patchy Moderate Silicification	Patchy Moderate Calcite
				Replaces Mafics Moderate Chlorite
		142.3 - 143.2	Pervasive Weak Silicification	Selective Repl Moderate Sericitisation
				Fracture Controlled Weak Clay

143.2 - 144.5	IV	fgrn		Fine grained intrusive with QSP style alteration immediately preceding top contact. Possible fine sooty sulphides immediately before dyke (As: ~4000ppm), with central part of dyke strongly oxidized and clay altered. Metere 143.5 runs 1% As, deep red colouration and moderate to strong pervasive clay. Alteration/oxidation then fades leaving fine grained dyke in contact with felsic gneiss.
		143.2 - 143.3	Selective Repl Strong Sericitisation	Pervasive Moderate Silicification
		143.3 - 143.9	Pervasive Strong Clay	
		143.9 - 144.5	Pervasive Weak Clay	
144.5 - 147.4	MxF	augn	Fol-mod	Small patch of chloritized biotite schist within felsic gneiss. .5% disseminated limonite and .5% disseminated hematite throughout, also on fractures. Moderate clay on fractures.
		144.5 - 147.4	Fracture Controlled Moderate Clay	Patchy Moderate Silicification Moderate
147.4 - 148.6	DIOR	mgrn		Medium grained diorite dyke, unaltered intruding into patch of felsic gneiss. Not as fine grained as previous dyke, and is probably later as it has escaped alteration/oxidation. Minor fracture controlled hematite along a single fracture (.25%). Beginning of dyke is more andesitic in appearance with coarser, more euhedral feldspars, however quickly becomes dioritic in appearance.
		147.4 - 148.6	Selective Repl Weak Sericitisation	Pervasive Weak Clay
148.6 - 154.6	MxF	augn	Fol-mod	Mixed gneiss, felsic dominant with moderate clay and chlrolitization of mafic slips. Moderate silicification of the gneiss and weak fine grained hematite through the felsic components.
		148.6 - 171.6	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Replaces Mafics Moderate Clay
154.6 - 171.6	MxM	pblst	Fol-mod	Biotite schist is moderately chloritized and patchily clay altered, with a patch of coarse porphyroblastic feldspars. Moderate silicification of felsic gneiss, up to .75cm brassy pyrite disseminated through schist, hwoever py through felsic gneiss is finer, cubic, and oxidized to hematite. Weak fracture controlled limonite, fine hematite after py through gneiss. Mild carbonation along foliation, with some large patches (3cm), rare sub cm bands along foliation.
171.6 - 215.2	MxF	augn	Fol-mod	Mixed gneiss package with areas of strong silicification and patchy .5% fracture controlled limonite which bleeds into host. Patchy strong sericite alteration associated with the strong silicification, sometimes associated with foliation parallel 1cm quartz veins; the oxidated areas are pervasively Fe-carbonated and do not run significant As under XRF analysis (sub 200ppm As along the strongest oxidized fracture). Small patches of moderate to strong albite alteration of felsic gneiss.
		171.6 - 185.3	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite Patchy Moderate Albite
		185.3 - 192.3	Patchy Strong Silicification	Selective Repl Strong Sericitisation Selective Repl Moderate Calcite
		192.3 - 193.3	Pervasive Strong Calcite	Pervasive Weak Clay
		193.3 - 195.4	Patchy Strong Silicification	Selective Repl Strong Sericitisation Selective Repl Moderate Calcite
		195.4 - 215.9	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Weak Clay
215.2 - 227.5	FG	augn	Fol-mod	Patchy strong silicification of felsic gneiss, with patches of strong albitization. Weak fracture controlled clay, and oxidation beginning at 222.45m. Oxidized areas contain .5% fracture controlled limonite which bleeds into host, and .5% disseminated hematite along foliation.
		215.9 - 227.5	Patchy Strong Silicification	Selective Repl Strong Albite
227.5 - 227.7	Ylim	bxi		Small brecciated patch through felsic gneiss host. Immature, clast supported with clay/limonite matrix. 1.5% disseminated limonite through breccia matix.
		227.5 - 227.7	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay
227.7 - 230.3	HU			Heavily fractured, strong limonite and hematite with little to no carbonate through zone. Moderate clay along fracture surfaces with deep red hematite. Unable to determine protolith, however most likely unit was originally felsic gneiss. 4% disseminated limonite and 3% disseminated hematite.
		227.7 - 230.3	Pervasive Moderate Clay	
230.3 - 230.8	Ycarb	bx		Pervasively carbonated unit with strong limonite and Fe-carbonate alteration of yellow clasts. Matrix is fine grained but probably silicified hematitic clay which does not effervesce. 3% disseminated limonite and 1.5% hematite.
		230.3 - 230.8	Replaces Matrix Moderate Calcite	Replaces Matrix Moderate Clay
230.8 - 231.8	YO	bx		Brecciated dacite dyke: carbonate and white clay matrix, strongly silicified and clast supported. Late carbonate veining throughout, as well as strong sericitic alteration. Weak limonite bleeding in off of rare fractures with oxidation fronts terminating 1cm from fracture.
		230.8 - 233.8	Selective Repl Strong Silicification	Selective Repl Moderate Sericitisation Selective Repl Moderate Clay

231.8 - 233.8	FC	fgrn			Fine grained dacite dyke, strongly bleached and white clay altered with fine, clay/sericite replaced, feldspar laths. Mottled oxidation permeates out of fractures into dyke. Dyke is brecciated (clast supported) with silica and clay matrix, and is pervasively silicified. Does not run As under XRF analysis, and is largely competent due to silicification. Lower contact obscured by strong carbonate veining and heavy silicification and sericitization.
233.8 - 235.6	FG	augn	Fol-wk		Heavily altered felsic gneiss with strong 2% disseminated limonite and 1.5% disseminated hematite. Small portions (up to 10cm) of the unit are immaturely brecciated with an uncarbonated limonitic clay matrix.
		233.8 - 240.0	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	
235.6 - 236.3	YO	bx			Breccia with 1cm limonitic clasts with a deep red hematite + strong clay matrix. Clast supported, moderately mature with angular clasts with some weak rotation. Weak and friable, with patchy strong clay in unbrecciated areas. 3% disseminated limonite through clasts and less brecciated areas, 3.5% hematite with clay through breccia matrix.
236.3 - 240.0	FG	augn			Heavily fractured felsic gneiss, strongly altered with moderate fracture controlled clay and moderate pervasive silicification. Small local patches of clast supported breccia with limonite-clay matrix up to 8cm in size. 3% disseminated limonite and 2.5% disseminated hematite.
240.0 - 245.0	FG	augn	Fol-mod		Alteration halo around zone of .5% fracture controlled limonite through felsic gneiss with .25% disseminated fine-grained hematite along foliation. Patchy albitization and silicification.
		240.0 - 260.0	Selective Repl Strong Albite	Pervasive Moderate Silicification	
245.0 - 260.0	FC	augn	Fol-mod		Felsic gneiss. Moderate sericite-albite alteration. Moderately oxidized with 0.25% lim and 0.1% hm (hm fracture controlled). Local moderate silicification. EOH.

Drill Log: CFD0245

Easting	585025.52	Hole Length	281 m	Prospect	Double Double	Drill Started	Jun 17, 2012	Comment
Northing	6973301.85	Azimuth	186 °	Target		Drill Completed	Jun 23, 2012	
Projection	UTM7-NAD83	Dip	-62 °	Geologist	MRender	Core Size	HQ	
Survey method	RTK GPS	Elevation	1102.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb			
		0.0 - 34.0	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite Selective Repl Moderate Sericitisation
3.0 - 32.0	MxM			Casing to 8m. Foliation defined by biotite. Intercalated felsic rocks- largely silicified. Biotite altering to chlorite. Broken ground. Trace diss py. Hairline chlorite veining in silicified-felsic intervals.
32.0 - 61.0	MxM	band		Mixed gneiss. Variably altered. Very broken ground in part. Felsic intervals selectively altered by silica. Mafic schist (Bts) intervals weakly chloritic. Trace diss py. Minor opaque Qtz veining-foliation parallel. From 55.4-55.6m- bleached- alb+Qtz/ altered. Fractures weakly clay altered with trace limonite (<0.25%)
		34.0 - 58.4	Selective Repl Moderate Chlorite	Patchy Moderate Silicification Selective Repl Moderate Sericitisation
		58.4 - 62.0	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite Moderate Sericitisation
61.0 - 64.0	BtS			Broken ground. Clay alteration on fracture planes. Mod. Chlorite replacement after biot.
		62.0 - 64.0	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite
64.0 - 69.5	MxF	silc		Largely silicified. Clay alteration on fracture planes and after fidspr. Limonite on fractures 0.25-0.5%.
		64.0 - 69.4	Pervasive Strong Silicification	Fracture Controlled Moderate Clay Replaces Felsics Moderate Clay
		69.4 - 104.2	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
69.5 - 104.2	BtS			Biotite schist. Strongly foliated. Altering to chlorite. Discrete broken zones with clay alteration. Limonite <0.25%. Trace diss py. Calcite veining throughout.
104.2 - 105.2	IV	mass		Mafic dyke (diorite). Aphanitic. Black. Common narrow (~1mm) carbonate veins. Very strongly broken.
105.2 - 105.6	HU	matx		Zone. Clay-dominated friable highly altered rock, with local faint biotite schist texture visible. Very strong clay alteration. 4% hm, 1.5% lim, possible sooty sulphides (trace). Carbonate veins locally (<1cm wide).
		105.2 - 105.6	Pervasive Intense Clay	
105.6 - 107.5	BtS		Fol-mod	Biotite schist. Moderately foliated. Weak chlorite alteration. Local carbonate veining. Lower contact is sharp intrusive contact.
		105.6 - 107.5	Replaces Mafics Moderate Chlorite	
107.5 - 107.9	IV	mass		Mafic dyke. Aphanitic. Black. Common carbonate veinlets. Lower contact is sharp intrusive at 45TCA.
		107.5 - 116.7	Replaces Felsics Strong Silicification	Replaces Mafics Moderate Chlorite
107.9 - 116.7	MxM		Fol-mod	Mafic-dominated gneiss. Mafic components are moderately altered by chlorite, whereas felsic components are strongly altered by silica. Weak limonite/hematite staining of feldspars locally. Lower contact obscured by rubble.
116.7 - 119.0	IV	mass		Mafic dyke. Aphanitic. Black. Moderately broken. Weak fracture-controlled bleaching (sericite?) with 1.5% fracture-controlled lim and 0.5% fracture-controlled hm. Lower contact obscured by broken core.
		116.7 - 119.0	Pervasive Weak Chlorite	Fracture Controlled Weak Sericitisation
119.0 - 120.4	BtS		Fol-mod	Biotite schist. Moderate chlorite alteration, overprinted by moderate oxidation of 1% lim, 0.5% hm. Lower contact is gradational into highly altered.
		119.0 - 120.4	Pervasive Moderate Chlorite	Selective Repl Weak Sericitisation

120.4 - 121.5	HU			Zone. Highly altered unrecognizable, with faint appearance of possible shear zone beneath oxidation. Alteration consists of strong sericite with moderate clay obscuring primary textures. Local zones of brecciated/sheared? host rock obscured by alteration. 2% lim, 0.75% hm (fracture controlled).
120.4 - 121.5			Pervasive Strong Sericitisation	Fracture Controlled Moderate Clay
121.5 - 124.5	BtS		Fol-str	Biotite schist. Strongly deformed and sheared with intense alteration of silica and strong chlorite. 0.25% disseminated hematite. Lower contact gradational over ~ 30cm as intensity of shearing and alteration increase.
121.5 - 124.5			Pervasive Intense Silicification	Patchy Strong Chlorite
124.5 - 131.9	SZ		Fol-str	Shear zone of biotite schist. Very strong alteration of chlorite-sericite with local very strong clay. Local formational quartz vein folded and disaggregated in the shear zone. Locally distinguishable foliation is constantly changing orientation although no folds were observed. 1.5% lim, 0.75% hm as disseminations. 0.5% sooty sulphides from 130.6 to 131.2m.
124.5 - 131.9			Pervasive Intense Sericitisation	Selective Repl Strong Chlorite Patchy Intense Clay
131.9 - 148.9	MxM		Fol-mod	Mafic dominated gneiss. Variable alteration dominated by weak to moderate chlorite with moderate to locally weak albite. Weak silicification throughout. Local fracture-controlled limonite (0.25%). Pyrite throughout as fine-grained disseminations (0.5%) with local sooty horizons over ~10cm (up to 1% sooties over 10cm).
131.9 - 148.9			Selective Repl Moderate Albite	Replaces Mafics Weak Chlorite Patchy Weak Epidote
148.9 - 160.4	MxM	band	Fol-mod	Mafic dominant gneiss, zone, moderately QSP altered, 0.5% disseminated brassy pyrite, 1% disseminated to vein-hosted sooty pyrite (locally up to 5% over 10cm) Unit becomes oxidized at 150.4m. 5cm fine grained silicified clast breccia with clay-pyrite matrix at 150.4m
148.9 - 160.4			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
160.4 - 161.6	Ycarb	bx		Two breccia horizons (160.36-160.88, 161.48-161.1) separated by strongly mineralized schist; breccias exhibit subangular silicified clasts from 1mm-3cm in diameter, variably rotated, some with brassy pyrite, matrix is a mixture of carbonate and quartz and contains 0.2% combined disseminated brassy and sooty pyrite
160.4 - 161.6			Replaces Clasts Weak Silicification	Replaces Matrix Weak Calcite
161.6 - 167.9	BtS	band	Fol-mod	Variably mineralized mafic schist (in and out of limonite), zone shoulder, 2-4cm thick cockcomb calcite vein with some brecciation of the host schist from 162.4-162.9m.
161.6 - 167.9			Pervasive Moderate Silicification	Pervasive Weak Sericitisation Fuchsite present in first m of interval
167.9 - 169.6	BtS	band	Fol-wk	Former biotite schist, now altered and mineralized; foliation still present, exhibits weak silicification and moderate clay alt, weak orange colour indicates about 1% limonite disseminated throughout, with trace hematite. Weak zone.
167.9 - 169.6			Pervasive Moderate Clay	Pervasive Weak Silicification
169.6 - 170.0	HU	mass		Clot of moderately recovered limonitic clay; is too sticky to be cuttings, but contains fragments of mineralized wall rock
169.6 - 170.0			Pervasive Intense Clay	Pervasive Weak Leucoxene
170.0 - 175.4	Ycarb	bxi		Mineralized biotite schist, locally crackle-brecciated by white to grey carbonate over 10-60cm; contains 2% limonite and 1% hematite (nice deep red colour in patches), some preserved Bt and leucoxene preserved in host, similar clay-silica alteration to second previous unit
170.0 - 175.4			Pervasive Weak Clay	Pervasive Weak Silicification
175.4 - 178.5	BtS	band	Fol-mod	Weakly oxidized mafic schist, exhibits locally intense clay alteration (fabric still preserved) associated with av. 0.25% limonite, 1 patch of QS alt from 177.5-178m,
175.4 - 178.5			Patchy Moderate Clay	Pervasive Weak Silicification Patchy Weak Sericitisation
178.5 - 180.7	BtS	band	Fol-mod	Former BtS (foliation is preserved), is now weak zone; strong pervasive clay alt, 1 patch of silicification at 179.4, 1% disseminated limonite, av. 0.5% fine disseminated oxidized pyrite
178.5 - 180.7			Pervasive Strong Clay	Patchy Weak Silicification
180.7 - 182.0	YO	bxi		Crackle-brecciated biotite schist with white calcite matrix; clasts of older breccia (contains ~1cm angular clasts in orange carbonate matrix) present at 180.7. Unit is same dull orange colour as previous; 1% limonite, 0.1 vein halo hematite weakly clay altered
180.7 - 182.0			Pervasive Weak Clay	
182.0 - 183.9	MV	bx		Massive calcite vein containing entrained clasts of wallrock; limonite present in clasts but only weakly between calcite crystals
182.0 - 184.0			Replaces Clasts Weak Clay	Replaces Clasts Weak Silicification
183.9 - 185.8	Ycarb	bxi		More crackle-brecciated former biotite schist, white calcite "matrix" exhibits cockcomb and vuggy textures, clasts are 0.5-5cm in diameter, rounded to angular, and exhibit weak silicification. Pale orange colour of the clasts indicates <1% limonite
184.0 - 185.8			Replaces Clasts Moderate Silicification	
185.8 - 186.3	HU	mass		Strongly altered possible dacite, however remnant quartz ribbons are locally present; sharp upper contact at high angle to CA, lower contact obscured due to alteration. Is an opaque orange creamy
185.8 - 186.3			Pervasive Strong Silicification	

186.3 - 186.8	YO	bxm		Smorg breccia; starts off as a strongly silicified schist with stockwork veining-crackle bx for 20cm, transitions to a quartz vein bx with 1 5cm qtz clast containing 1cm blebs of brassy py, to a 5cm schist clast supported bx with chalcedony-clay matrix, to a matrix supported YC with same matrix. Contact is weakly brecciated version of next unit.
		186.3 - 186.8	Pervasive Moderate Silicification	Patchy Weak Clay
186.8 - 188.4	BtS	lamn	Fol-mod	QSP altered schist, small crackle Ycarb at 187.1 (carb vein with weak clast entrainment). Unit exhibits ~1% stringers of sooty pyrite, rare disseminations, and 0.7% diss brassy py.
		186.8 - 188.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
188.4 - 190.2	YC	bxm		Dominantly former mafic schist with 5-10cm domains of fine-grained YC, 50/50 clasts/matrix, latter is silica-limonite, former seems is altered schist), the lot contains 1% limonite but also 0.5% vein halo hematite (concentrated around a carbonate vein subparallel to CA). 1 patch of semi-massive sooty py at 188.85, doesn't run, no Mn)
		188.4 - 190.2	Pervasive Strong Silicification	
190.2 - 195.9	MxF	band		Fractured, altered, and mineralized felsic-dominant gneiss; very broken, likely from former vein networks - 1% fracture controlled hematite, 0.5% disseminated limonite. Hematite is disseminated to 191m, before rock becomes fractured. Preserved carb-vein crackle bx at 194.3m, associated with an increase in hematite (up to 1.5% over 20cm). Ends in 10cm of unconsolidated fine grained silicified-clast bx with clay-hm matrix.
		190.2 - 195.9	Pervasive Moderate Silicification	Patchy Weak Clay
195.9 - 197.1	MxF	band	Fol-mod	Intensely clay altered gneiss, but still exhibits original fabric and disseminated metamorphic pyrite (now oxidized, 0.5%).
		195.9 - 197.1	Pervasive Intense Clay	
197.1 - 198.7	BtS	sand		Intensely clay altered schist, unconsolidated; small YC at 197.6 has white clay matrix, quartz clasts, and some limonite in the matrix. The reset of the unit exhibits patchy limonite (5% over 10cm, av. 0.5%)
		197.1 - 198.7	Pervasive Strong Clay	Replaces Mafics Weak Chlorite
198.7 - 200.3	MxM	band	Fol-mod	Weakly altered biotite schist with 1 felsic band at the centre of the unit, 0.1% fracture controlled limonite
		198.7 - 200.3	Replaces Mafics Weak Chlorite	Pervasive Weak Leucoxene
200.3 - 200.9	MxM	band		Mafic dominant gneiss, strong white clay alteration in last 20cm of unit, moderate beforehand which is associated with 1% disseminated limonite
		200.3 - 200.9	Pervasive Moderate Clay	
200.9 - 203.8	MxM	band	Fol-mod	mafic dominant gneiss, weakly altered and mineralized, exhibits two patches of limonite at beginning of unit and 202.8-203m, the rest is trace and in fractures. Weak sericite-epidote with some disseminated leucoxene
		200.9 - 203.8	Pervasive Weak Sericitisation	Pervasive Weak Leucoxene
203.8 - 219.9	MxM	band		Mafic dominant gneiss, strongly fractured over 0.3-1m associated with moderate to strong clay alteration (av. mod). A fine grained 5cm-wide silicified clast breccia with clay matrix occurs at 217.2m and an 5cm unaltered breccia with clay matrix and schist clasts occurs at 215.45. Unit becomes a cohesive mixed gneiss by 217m. Limonite occurs along fractures and is locally disseminated (i.e. patchy) over 20cm, but averages to 0.2%. Hematite is rare and is locally disseminated over 5cm, but generally trace.
		203.8 - 219.9	Patchy Moderate Clay	Pervasive Weak Chlorite Pervasive Weak Leucoxene
219.9 - 228.0	MxF	band	Fol-wk	Strongly silicified felsic dominant gneiss, exhibits a dark orange colour due to possibly very finely disseminated limonite-hematite (0.25 each), disseminated oxidized pyrite throughout (0.2%). 1 unoxidized window exhibits moderate sericite alteration. Unit like was mod-str QSP altered but oxidation has since destroyed it
		219.9 - 228.0	Pervasive Strong Silicification	Patchy Weak Sericitisation Patchy Weak Clay
228.0 - 238.0	FG	band	Fol-mod	Silicified felsic gneiss, takes on a purplish hue due to common hematite veins and hematite around former feldspars. Barren. Unit starts with 25cm of biotite-rich SZ. Light patches of rock appear to exhibit weak-moderate albite alteration
		228.0 - 238.0	Pervasive Moderate Silicification	Patchy Weak Albite
238.0 - 240.5	BtS	band	Fol-mod	Fresh mafic schist, exhibits epidote after feldspar and disseminated leucoxene. Two phase quartz vein at 238.78 - cockscomb white quartz lines the vein, and the vug is filled with smokey quartz.
		238.0 - 240.5	Replaces Felsics Moderate Epidote	Replaces Mafics Weak Chlorite
240.5 - 241.0	MxF	band		Strongly fractured mixed gneiss. Moderate clay and 0.5% limonite on fractures
		240.5 - 241.0	Fracture Controlled Moderate Clay	Replaces Felsics Weak Silicification
241.0 - 254.9	MxF	band	Fol-mod	Competant felsic dominant gneiss, small shear zone 252.8-253.05. Fracture controlled limonite, 0.25% disseminated brassy py, weak hematite staining of feldspars, weak silicification and sericite. 1-8mm limonite veins appear 50cm before next unit.
		241.0 - 254.9	Replaces Felsics Weak Silicification	Pervasive Weak Sericitisation

254.9 - 255.7	MV	mass			Rubbly clay-rich limonitic zone associated with 5cm-thick opaque white carbonate-quartz vein.
		254.9 - 255.7	Pervasive Intense Clay		
255.7 - 260.0	BtS	band	Fol-mod		Greenish black mafic schist; green comes from epidote, black from biotite/hbl. 10cm patch of 20% brassy foliation-parallel (i.e. metamorphic) pyrite at 257.4, 0.3% disseminated elsewhere. Disseminated leucoxene, chlorite after biotite/hbl.
		255.7 - 260.3	Replaces Felsics Moderate Epidote	Replaces Mafics Weak Chlorite	Pervasive Weak Leucoxene
260.0 - 263.9	SZ	mylo	Crenul		Multi-lith/multi-phase shear zone; 260.03-260.7- qsp altered, contains qtz porphyroclasts; 260.7-261.63 - qsp altered, 2cm porcelanic breccia vein at 261.14, 1 patch of disseminated sooty py; 261.63-262.3 - sheared BtS; 262.3-262.7 - biotite-rich shear with 2% disseminated limonite and 0.5% disseminated brassy pyrite; 262.7-263.85 - talc-biotite schear, green colour probably due to fuchsite
		260.3 - 263.9	Patchy Weak Silicification	Patchy Weak Sericitisation	Patchy Weak Talc
263.9 - 281.0	MxM	band	Fol-mod		Mafic schist with rare felsic gneiss interbands, small SZ 266.6-266.85. Barren. 1 patch of 3% disseminated brassy py 266.15-266.6, coarse blebby brassy py at 274.65. Fracture controlle limonite (rare).
		263.9 - 281.0	Pervasive Weak Silicification	Replaces Felsics Weak Epidote	

Drill Log: CFD0246

Easting	585428.79	Hole Length	194.58 m	Prospect	Double Double	Drill Started	Jun 19, 2012	Comment
Northing	6973429.02	Azimuth	181 °	Target		Drill Completed	Jun 21, 2012	
Projection	UTM7-NAD83	Dip	-62 °	Geologist		Core Size	NQ	
Survey method	RTK GPS	Elevation	1079.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 11.5	OVb			
11.5 - 35.4	MxF	augn	Fol-wk	mixed felsic gneiss with bts bands; local augens within felsic gneiss; ~40% bts; local fracture controlled clay; weak mafic replaced chlorite alteration within bts intervals; mod pervasive silicification within gneiss; narrow interval of Ylim from 26.37-26.61m; breccia is <5cm wide with no dominant grain size in a limonite/clay matrix (matrix supported); host rock (moderately silicified gneiss) angular clasts; 0.15% FC limonite; 0.15% fracture controlled hematite staining
		11.5 - 35.4	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay Selective Repl Weak Sericitisation
35.4 - 36.9	MxF		Fol-wk	Strongly altered mixed felsic gneiss package; gradational contact from previous lith; mod-strong pervasive albitisation; mod pervasive silicification; moderate fracture controlled clay; HU from 35.93-36.12 with chaotic, sub-angular-subrounded quartz clasts in a limonite/clay matrix; quartz vein from 36.15-36.20; 0.1% fracture controlled lim and 0.1% fracture controlled hem (mxf); 0.75% diss lim and 0.1% diss hem (HU)
		35.4 - 35.9	Pervasive Moderate Albite	Pervasive Moderate Silicification
		35.9 - 36.1	Pervasive Intense Clay	Pervasive Moderate Albite
		36.1 - 36.9	Pervasive Moderate Albite	Pervasive Moderate Silicification
36.9 - 55.9	BtS	biot	Fol-str	Biotite schist with rare local mixed felsic gneiss (local augens) 0.6-2.00 wide (gradational and fracture contacts); fresh rock with local mod silicification in mxf packages; weak mafic replaced chlorite; weak fracture controlled clay; calcite veins parallel to foliation <1cm wide occur throughout; opaque buck quartz vein from 38.07-38.17
		36.9 - 55.9	Patchy Moderate Silicification	Fracture Controlled Weak Clay Replaces Mafics Weak Chlorite
55.9 - 56.5	DIOR	mgrn	Fol-wk	Diorite; fractured contact; medium grained, weakly foliated, intermediate dyke; equigranular euhedral feldspars; some feldspars replaced by epidote
		55.9 - 56.5	Replaces Felsics Weak Epidote	
56.5 - 67.1	MxF	band	Fol-wk	Mixed felsic gneiss; banded with local augens; mod pervasive silicification; weak fracture controlled clay; strong local hematite staining of feldspars; weak selectively replaced sericite parallel to foliations; weak local epidote replacement; weak mafic replaced chlorite; 0.1% fracture controlled limonite; 0.15% disseminated hematite
		56.5 - 67.1	Replaces Felsics Weak Epidote	Pervasive Moderate Silicification Fracture Controlled Weak Clay
67.1 - 68.9	DIOR	mgrn	Fol-wk	Diorite; fractured contact; medium grained, weakly foliated, intermediate dyke with equigranular euhedral grains; some feldspars replaced by epidote; weak fracture controlled clay at footwall contact; alteration increases downhole
		67.1 - 68.9	Replaces Felsics Weak Epidote	Patchy Weak Clay
68.9 - 74.8	BtS	biot	Fol-mod	Biotite schist with local augen bearing mixed felsic gneiss from 69.76-71.00 (fracture contact); weak-moderate pervasive silicification; moderate fracture controlled clay; weak selectively replaced sericite in bts; weak mafic replaced chlorite; 0.1% foliation parallel opaque buck quartz veins <5m from 74m-76m; 0.1% disseminated hematite staining.
		68.9 - 69.8	Fracture Controlled Weak Clay	Pervasive Weak Silicification Replaces Mafics Weak Chlorite
		69.8 - 71.0	Pervasive Moderate Silicification	
		71.0 - 74.8	Pervasive Weak Silicification	Selective Repl Weak Sericitisation Replaces Mafics Weak Chlorite
74.8 - 75.5	DIOR	mgrn		Diorite; gradational contact along hangwall and footwall; medium grained intermediate dyke with equigranular euhedral felspar clasts; weak mafic replaced chlorite
		74.8 - 75.5	Replaces Mafics Weak Chlorite	

75.5 - 112.4	MxF	augn	Fol-wk	Mixed felsic gneiss; ~40% bts; weak local fracture controlled clay, weak mafic replaced chlorite; mod pervasive silicification; weak selectively replaced; mod pervasive epidote from 82-82.28; sercite; local strong silicification and albitisation from 100-100.46m with; 0.1% fracture controlled limonite and hematite; 100-100.46 ~0.25% diss limonite and hematite staining/specular hematite; 108.5-109.46 ~2% disseminated pyrite; 111.53-111.70m ~blebby pyrite.		
		75.5 - 100.0	Replaces Mafics Weak Chlorite	Selective Repl Weak Sericitisation	Pervasive Moderate Silicification	
		100.0 - 100.5	Pervasive Strong Silicification			
		100.5 - 112.4	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Selective Repl Weak Sericitisation	
112.4 - 117.3	BtS	biot	Fol-str	Biotite schist; weak pervasive silicification; weak mafic replaced chlorite; 1% disseminated pyrite focused along foliations; 0.1% fracture controlled limonite and hematite.		
		112.4 - 117.3	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite		
117.3 - 154.8	MxF	augn	Fol-wk	mixed felsic augen bearing; [GNEISS: moderate pervasive silicification with local strong silicification and albitisation; mod selectively replaced sercite with quartz (patchy QS alteration)]; [BTS: porphyroblastic from 127.64-128.1 with ~ 50% feldspars subtle gradational contacts or fracture contacts between gneiss and bts; weak mafic replaced chlorite]; oxidation characterized by fracture controlled limonite ~0.2% and patchy hematite ~0.15%		
		117.3 - 154.8	Pervasive Moderate Silicification	Patchy Moderate Sericitisation	Replaces Mafics Weak Chlorite	
154.8 - 156.0	MxF	band	Fol-wk	WEAK ZONE; hosted by mixed felsic gneiss; weak pervasive clay (stronger along fractures); weak pervasive silicification; ~0.75% disseminated limonite; 0.2% disseminated hematite		
		154.8 - 156.0	Pervasive Moderate Silicification	Pervasive Weak Clay		
156.0 - 158.5	Ylim	matx		STRONG ZONE; pervasive clay altered monomict (mx host rock) limonite matrix-supported breccia; 1.5% disseminated limonite; 0.5% disseminated hematite; potentially orange herring Ycarb (low level arsenic through XRF and strong carbonate content)		
		156.0 - 160.1	Pervasive Strong Clay			
158.5 - 160.1	YO	bxm		Heterolithic medium grained breccia; clay matrix supported; various size clasts <1.5cm wide, subangular-angular, unrotated clasts		
160.1 - 162.3	MxF	band	Fol-wk	WEAK ZONE; mixed felsic gneiss; quartz stockwork veins run throughout; strong pervasive silicification (original fabric blurred); 0.5% disseminated limonite (stronger limonite as selvages around stockwork veins); 0.1% fracture controlled hematite		
		160.1 - 162.3	Pervasive Strong Silicification			
162.3 - 169.6	BtS	biot	Fol-wk	Biotite Schist with local mx; weak pervasive silicification with local strong pervasive silicification in gneiss units; weak mafic replaced chlorite and selectively replaced sercite; weak fracture controlled clay; weak epidote altn; thin 0.2-0.4cm carbonate veins run perpendicular to foliation in Bts; thicker carbonate vein from 163.04-163.2m with little mass loss within vein; ~0.15% fracture controlled limonite and hematite (hematite focused primarily along fractures from 167.00-169.63)		
		162.3 - 166.6	Pervasive Weak Silicification	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite	
		166.7 - 167.9	Pervasive Strong Silicification	Fracture Controlled Weak Clay		
		167.9 - 169.6	Pervasive Weak Silicification	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite	
169.6 - 171.0	MxF	band	Fol-wk	WEAK ZONE; mixed felsic gneiss; quartz stockwork veins run throughout; strong pervasive silicification (original fabric blurred); 0.5% disseminated limonite (stronger limonite as selvages around stockwork veins); 0.1% fracture controlled hematite		
		169.6 - 171.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay		
171.0 - 172.7	BtS	pblst	Fol-mod	Porphyroblastic biotite schist; weak pervasive silicification; weak fracture controlled clay; weak mafic replaced chlorite; 0.1% trace fracture controlled limonite; 0.1% fracture controlled hematite;		
		171.0 - 172.7	Pervasive Weak Silicification	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite	
172.7 - 177.5	MxF	band	Fol-wk	WEAK ZONE; mixed felsic gneiss; stockwork veins run throughout; moderate pervasive silicification that has been overprinted by oxidation; weak selectively replaced sercite; 0.25% disseminated limonite; 0.1% fracture controlled hematite		
		172.7 - 177.5	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation		
177.5 - 194.6	BtS	biot	Fol-mod	Biotite schist with local mixed felsic gneiss; weak pervasive silicification with moderate to strong local pervasive silicification in gneiss; weak mafic replaced chlorite; 0.1% fracture controlled limonite; 0.1% fracture controlled hematite; multiple opaque buck quartz veins throughout varying in thickness, but 3cm or less; stockwork quartz veins run through gneiss from 194.11-194.58 with limonite selvages.		
		177.5 - 180.7	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite		
		180.7 - 182.8	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite		
		182.8 - 194.1	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite		
		194.1 - 194.6	Pervasive Strong Silicification			

Drill Log: CFD0247

Easting	584242.16	Hole Length	239 m	Prospect	Supremo T3	Drill Started	Jun 19, 2012	Comment
Northing	6974100.68	Azimuth	270 °	Target	T3	Drill Completed	Jun 22, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1227.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 11.1	FG	band	Fol-mod	Felsic gneiss; moderate perv silc altn; 0.15% fracture-control oxides (lim, hem) with 0.15% anastomosing limonite veinlets
		6.0 - 11.1	Pervasive Moderate Silicification	
11.1 - 12.2	DIOR	phyr		Diorite dyke; porphyritic, med-grained; felsic phenocrysts with biotite-dom matrix; selective replacement of biotite by chlorite; moderate pervasive clay and seric altn; 0.15% FC oxides (lim, hem)
		11.1 - 12.2	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Replaces Mafics Moderate Chlorite
12.2 - 39.0	FG	augn	Fol-mod	Felsic augen-bearing gneiss; moderate perv silc alteration, weak perv seric; 0.15% FC oxides (lim, hem); from 12.2-13m: strong silc and 0.5% anastomosing limonite veinlets
		12.2 - 13.0	Pervasive Strong Silicification	
		13.0 - 39.0	Patchy Moderate Silicification	Pervasive Weak Sericitisation
39.0 - 47.9	IV	fgrn		Andesite dyke; fine grained, intermediate, non-mineralized from 39-47.5m; From 47.5-49.93: 1-1.5 oxides (diss limonite with hematitic alteration halos) and weak pervasive clay altn; mod-strong perv seric alteration; 0.15% cross-cutting calcite veinlets
		39.0 - 47.5	Pervasive Strong Sericitisation	
		47.5 - 47.9	Pervasive Weak Clay	
47.9 - 48.8	FG	band	Fol-mod	Felsic gneiss; moderate perv silc; weak patchy epidote and perv seric altn; trace FC limonite (<0.15%)
		47.9 - 48.8	Pervasive Moderate Silicification	Patchy Weak Epidote Pervasive Weak Sericitisation
48.8 - 49.2	IV	fgrn		Andesite dyke; fine-grained aphanitic; 0.75-1% patchy limonite
49.2 - 53.8	MxF	augn	Fol-str	Felsic augen-bearing mixed gneiss; mod-st perv silc altn; weak qsp mineralization (trace pyrite, <0.15%); 0.25 patchy limonite
		49.2 - 53.8	Pervasive Strong Silicification	Patchy Moderate Sericitisation
53.8 - 54.3	FG	band	Fol-wk	Felsic gneiss; moderate perv clay altn; 2-2.5% diss limonite with mod-strong hematite staining
		53.8 - 123.5	Pervasive Weak Silicification	Patchy Weak Epidote Selective Repl Weak Chlorite
54.3 - 130.7	MxF	augn	Fol-str	Felsic augen-bearing mixed gneiss; mod-st perv silc altn; weak patchy qsp mineralization (trace diss pyrite, <0.15%), weak chlorite alteration (selective replacement of Biotite in BtS regions), weak patchy epidote; 0.15-0.25% FC limonite, specular hematite veinlets (<0.15%);
		123.5 - 130.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
130.7 - 135.1	DIOR	mgrn		Diorite dyke; med grained, porphyritic with fine grained, aphanitic upper and lower chill margins (~20cm wide); biotite-dominant matrix with fedspathic phenocrysts; strong calcite alteration (pervasive and 0.15% calcite and anchorite veinlets), strong patchy clay alteration; patchy limonite: 0-3%; 0.5% diss brassy pyrite; From 131.02-131.76m: 2.5-3% disseminated oxides (limonite with mod-st hem staining); strong pervasively clay altered from 131.03-131.41; From 132.28-132.88: 2% with 0.5% lim veinlets; the rest is patchy 0-0.5% lim
		130.7 - 131.0	Patchy Moderate Sericitisation	Vein Selvedge Weak Fe-carb
		131.0 - 131.3	Pervasive Moderate Clay	Pervasive Strong Calcite
		131.3 - 131.6	Pervasive Strong Clay	Pervasive Strong Calcite
		131.6 - 135.1	Patchy Strong Calcite	Patchy Moderate Clay Patchy Weak Sericitisation
135.1 - 160.9	MxF	band	Fol-str	Felsic mixed gneiss; mod-strong silc alteration, weak-mod patchy qsp and albite (selective replacement of felsics); patchy 0.5% limonite
		135.1 - 160.9	Pervasive Weak Silicification	Pervasive Weak Sericitisation Patchy Weak Albite

160.9 - 163.2	BtS	biot	Fol-str	Biotite schist; strong patchy clay altn, moderate selective replacement of felsics by clay; mod chlorite and sericite altn; 0-0.15% limonite (disseminated in felsics)		
		160.9 - 163.2	Patchy Moderate Clay	Pervasive Moderate Chlorite	Pervasive Moderate Sericitisation	
163.2 - 165.1	BtS		Fol-wk	Biotite schist, zone; mod pervasive calcite altn, weak pervasice clay altn; minor anastamosing limonite veinlets (0.15%); 3% disseminated oxides (lim with mod-strong hem staining)		
		163.2 - 165.1	Pervasive Strong Calcite	Pervasive Moderate Clay		
		165.1 - 165.5	Replaces Clasts Strong Silicification	Replaces Matrix Strong Calcite	Replaces Matrix Strong Clay	
165.1 - 165.6	Ylim	bx		Limonite-matrix breccia, zone; matrix supported with local matrix supported regions; Beginning of interval: matrix is composed of limonite and calcite, matrix supported, monomictic clasts are fine-medium grained, rounded-subrounded, rotated, mod-strongly silicified BtS; the end of the interval: dominantly clast-supported, resembles crackly breccia: sub-angular local BtS clasts, limonite-clay matrix.		
		165.5 - 166.2	Pervasive Moderate Clay	Pervasive Weak Calcite		
165.6 - 166.2	BtS		Fol-mod	Biotite schist, zone; weak pervasice calcite and Fe-Carbonate altn (0.15% vinlets), weak-mod pervasive clay altn; minor anastamosing limonite veinlets (0.15%); 3% disseminated oxides (lim with mod-strong hem staining)		
166.2 - 167.5	BtS		Fol-mod	Biotite schist; moderate-st patchy qsp alternation with strong pervasive sericite, silica and 0-0.5% diss limonite (sooty?); moderate patchy albite, weak perv clay altn; patchy 0.25% limonite		
		166.2 - 167.5	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	Patchy Weak Albite	
167.5 - 201.3	MxF	band	Fol-str	Felsic augen-bearing mixed gneiss; mod-st perv silc altn; weak patchy qsp mineralization (trace diss pyrite, <0.15%) weak patchy albite altn, 0.15-0.25% FC limonite		
		167.5 - 201.3	Pervasive Moderate Silicification	Patchy Weak Sericitisation	Patchy Weak Albite	
201.3 - 209.9	MxF	band	Fol-str	Mixed gneiss, mod-st zone; transitions between oxide and sulphide facies; strong patchy qsp mineralization with 0.5-3.5% disseminated sooty sulphides in sulphide zones and 0.5-3.5% disseminated oxides (lim with strong hematite staining) in oxide regions; mod-st perv silica, seric and weak patchy clay altn		
		201.3 - 209.9	Pervasive Strong Sericitisation	Pervasive Strong Silicification	Patchy Weak Clay	
209.9 - 211.7	YC	bx		Silicified clast breccia, st-int zone; clasts are dominantly monomictic silica composition, rounded-subrounded, fine-med grained, rotated; some clasts are strongly hematite stained; From 210.07-210.20m: local course-grained mxf clast from host rock- with disseminated sooty sulphides and oxides (lim, hem); Matrix-supported: limonite-clay matrix, fine grained, moderate-strong alteration with 3% disseminated limonite, 1% disseminated hematite.		
		209.9 - 211.7	Replaces Clasts Intense Silicification	Replaces Matrix Strong Clay		
211.7 - 216.5	MxF		Fol-mod	Mixed gneiss, st-int zone; mod-strong pervasice clay alteration with stockwork of limonite-clay with patchy intense silica alteration resembles crackle breccia texture; 3% disseminated limonite, 1% disseminated hematite		
		211.7 - 216.6	Pervasive Strong Clay	Patchy Strong Silicification		
216.5 - 218.6	MxF	band	Fol-str	Mixed gneiss; moderate-strong qsp alteration; strong perv silica altn; 0.5-0.75% disseminated sooty pyrite, 0.25% FC oxides (limonite with mod hem staining)		
		216.6 - 218.6	Pervasive Strong Sericitisation	Pervasive Strong Silicification		
218.6 - 239.0	MxF	band	Fol-str	Felsic mixed gneiss; mod-strong silc alteration, weak-mod patchy qsp (0-0.5% sooty sulphides), weak patchy chlorite; patchy 0.25% FC limonite; 0.15% cross-cutting sooty sulphide veinlets from 220-230m		
		218.6 - 239.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Patchy Weak Chlorite	

Drill Log: CFD0248

Easting	584248.21	Hole Length	308 m	Prospect	Supremo T3	Drill Started	Jun 22, 2012	Comment
Northing	6974051.27	Azimuth	271 °	Target	T3	Drill Completed	Jun 25, 2012	
Projection	UTM7-NAD83	Dip	-49 °	Geologist	HGrimson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1214.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
		0.0 - 23.4	Replaces Felsics Strong Silicification	Replaces Mafics Moderate Chlorite Pervasive Moderate Sericitisation
6.0 - 23.4	MxF	augn	Fol-str	Felsic-dominant mixed gneiss, augen bearing. Strong pervasive silica alteration in felsic regions, moderate pervasive chlorite in BtS regions; moderate pervasive sericite altn; 0.75% FC oxides (lim, hem)
23.4 - 26.5	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; patchy qsp (~0.25% pyrite- diss and brassy); moderate perv sericite and silica altn; 0.25% patchy limonite with 0.1% limonite oblique veinlets
		23.4 - 26.5	Pervasive Moderate Sericitisation	Patchy Moderate Sericitisation
26.5 - 40.8	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; strong clay alteration of felsics; strong perv seric, mod patchy silc altn; 0.5-0.75% disseminated oxides (lim, hem); 0.5% quartz veining (veins range from 2mm-3cm in width, parallel to foliation and oblique)
		26.5 - 40.8	Replaces Felsics Strong Clay	Patchy Moderate Silicification
40.8 - 42.2	MxF	augn		Felsic-dominant gneiss; intense pervasive clay alteration; patchy strong silica alteration; 0.5-0.75% oxides (diss lim, FC hem)
		40.8 - 42.2	Pervasive Intense Clay	Patchy Strong Silicification
42.2 - 47.5	MxF	augn	Fol-mod	Felsic-dominant mixed gneiss; strong perv silc, mod perv seric, weak FC clay altn; 0.75-1% disseminated oxides (lim, hem); 0.5% anastomosing oxide veins (lim with strong hem staining)
		42.2 - 47.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Fracture Controlled Weak Clay
47.5 - 112.4	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; moderate pervasive silica altn, weak qsp (0.15-0.25% patchy pyrite), weak patchy chlorite; 0.25-0.5% disseminated limonite with 0.25% anastomosing veinlets (lim with strong hem staining)
		47.5 - 83.0	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Chlorite
112.4 - 153.2	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; fresh; weak silica, sericite, chlorite altn
		112.4 - 153.2	Pervasive Weak Silicification	Patchy Weak Sericitisation Patchy Weak Chlorite
153.2 - 155.9	MxM	band	Fol-str	Mafic-dominant gneiss; weak-mod perv clay, sericite and chlorite alteration
		153.2 - 155.9	Pervasive Moderate Clay	Pervasive Weak Chlorite Weak Sericitisation
155.9 - 156.8	DIOR	bx		Brecciated intermediate dyke; fine-grained, aphanitic; clear upper contact with mafic gneiss, transitioning into a breccia: matrix-supported: intensely biotite rich clay matrix with medium grained, angular polymictic clasts (dyke and mafic gneiss)
		155.9 - 156.8	Replaces Matrix Strong Clay	Replaces Clasts Weak Clay Pervasive Weak Sericitisation
156.8 - 158.6	MxM	band	Fol-str	Mafic-dominant gneiss; weak-mod perv clay, sericite and chlorite alteration; med-course grained diorite xenoliths at end of interval
		156.8 - 158.6	Pervasive Moderate Clay	Pervasive Weak Chlorite Pervasive Weak Sericitisation
158.6 - 161.4	DIOR	biot		Diorite dyke; medium grained equigranular with fine-grained, aphanitic upper and lower chill margins (~30-40cm wide); strong calcite alteration (diss with 0.15% cross-cutting veinlets); 0.15% FC limonite- end of interval (~168-161.4) is bleached and strongly clay altered with 0.5% diss limonite. 0.1% brassy pyrite blebs.
		158.6 - 160.7	Patchy Moderate Calcite	Pervasive Moderate Clay Pervasive Weak Sericitisation
		160.7 - 161.4	Pervasive Strong Clay	Pervasive Moderate Calcite
161.4 - 161.8	FC	fgrn		Two narrow dacite dykes (10-15cm in width) intersecting upper diorite dyke with local mixed gneiss in between the dykes. Felsic, aphanitic, mod pervasive clay alteration; 1% disseminated oxides (limonite with strong hematite staining along fractures)
		161.4 - 161.8	Pervasive Moderate Clay	

161.8 - 166.9	MxF	fgrn	Fol-wk	Mafic-mixed gneiss, strong zone; moderate (perv) clay and calcite, (patchy) silc altn; 0.15% anchorite Fe-carbonate veinlets and 0.15% quartz veins (ave 1cm wide); trace sooty sulphides (0.15-0.25% over interval), 2-3% disseminated oxides (lim with mod-strong hem staining), 0.5% hematite stockwork causing local 5-15cm brecciation at 163.68, 164.51m, 165.78-165.88m (rotated, sub-angular monomictic mxf supported by a mxf matrix; From 164.73-165.2 and 166.5-166.92: intense pervasive clay alteration, unconsolidated.	
		161.8 - 164.7	Pervasive Moderate Clay	Pervasive Moderate Calcite	
		164.7 - 165.2	Pervasive Intense Clay		
		165.2 - 166.9	Pervasive Moderate Clay	Pervasive Moderate Calcite	
166.9 - 168.5	MxM	band	Fol-str	Mafic-dominant gneiss; strong patchy clay, weak-mod perv sericite and chlorite alteration	
		166.9 - 170.6	Pervasive Strong Clay	Pervasive Moderate Calcite	
168.5 - 170.6	DIOR	fgrn		Diorite dyke; fine-med grained, aphanitic-equigranular; strong perv clay, weak perv calcite, sericite altn	
170.6 - 178.4	MxF	augn	Fol-str	Mixed gniss, augen bearing. Strong pervasive silc altn, weak-mod qsp (trace pyrite- 0.15% disseminated), weak albite altn; 0.25% FC limonite. 0.5% cross-cutting and oblique limonite veinlets. Brecciated chalcedonic matrix-supported vein at end of interval: Clasts are local mixed gneiss, angular and rotated, matrix is fine-grained chalcendonic silica.	
		170.6 - 178.4	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Patchy Weak Albite
178.4 - 188.7	MxF	augn	Fol-str	Mixed gneiss, fresh; weak silc, seric and chlorite altn	
		178.4 - 188.7	Pervasive Weak Silicification	Patchy Weak Sericitisation	Patchy Weak Chlorite
188.7 - 196.3	MxF	augn	Fol-str	Mixed gneiss; moderate perv silc, weak perv ser, albite altn; 0.15% FC clay; 0.5% Fe-carbonate veinlets (anchorite?)	
		188.7 - 196.3	Pervasive Moderate Silicification	Pervasive Weak Sericitisation	Patchy Weak Albite
196.3 - 203.0	MV			Calcite-carbonate Quartz vein (50%), 50% local mixed gneiss; strongly fractured (cross-cutting) with trace limonite FC staining; calcite has patchy pale-lime-green staining; buck-quartz and calcite regions (both with calcite/quartz inclusions within them)	
		196.3 - 203.0	Pervasive Strong Silicification		
203.0 - 219.2	MxF	augn	Fol-str	Mixed gneiss; moderate-st patchy qsp alteration, moderate perv silc; 0.5% patchy pyrite (sooty?), 0.5% patchy (and FC) oxides (lim with str hem staining)	
		203.0 - 219.2	Patchy Moderate Silicification	Pervasive Moderate Sericitisation	
219.2 - 224.0	MxF	band	Fol-str	Mixed gneiss, zone (mod-str); patchy strong qsp alteration, moderate patchy silc, patchy clay altn; 1% patchy disseminated sooty sulphides, 1.5% patchy, FC oxides (lim with stong hem staining); 0.25% hem-lim veinlets	
		219.2 - 224.0	Pervasive Strong Sericitisation	Strong Silicification	
224.0 - 227.3	MxF	band	Fol-wk	Mixed gneiss, zone (strong); mod-strong pervasive clay, mod-strong patchy silc and sericite altn; 3-3.5% oxides (lim with strong hematite staining) and 0.15% disseminated sooty sulphides	
		224.0 - 227.4	Pervasive Strong Clay	Pervasive Moderate Sericitisation	Patchy Moderate Silicification
227.3 - 227.6	YO	bx		Monomictic breccia, zone (st-int); Matrix is very fine grained and intensely sericite altered- probably andesite composition (fine grained, intermediate-mafic with small feldspar grains that resemble phenocrysts in the matrix and in some grains)- however it may be intensely altered and deformed mixed gneiss; First half of interval is sulphide facies (3.5% disseminated sooty sulphides) with 0.5% oxides found in some clasts; second half of interval is dominantly oxide facies (3.5% oxides- limonite with strong hem staining) with 0.5% sooty sulphides found in some clasts. Clasts are matrix supported, sub-angular, rotated, of andesite (?) composton	
		227.4 - 227.5	Pervasive Intense Sericitisation	Pervasive Weak Clay	
		227.5 - 227.6	Pervasive Moderate Clay	Replaces Clasts Strong Sericitisation	
227.6 - 228.3	Ylim	bx		Limonite-clay matrix breccia with local HU (~50%), zone (str-int); Matrix: fine grained with intense pervasive clay alteration; Clasts: HU composition- extremely deformed and altered- could be mixed gneiss or oxidized andesite, fine grained, matrix-supported, rounded and rotated. 4% disseminated oxides (lim with strong hem staining); weak patchy calcite altn	
		227.6 - 228.3	Pervasive Intense Clay	Patchy Weak Calcite	
228.3 - 228.8	MxF		Fol-wk	Mixed gneiss, zone (st-int); mod-strong pervasive clay altn; moderate perv calcite altn; 4% oxides (3%lim, 1%hem)	
		228.3 - 228.8	Patchy Moderate Silicification	Pervasive Moderate Clay	
228.8 - 233.5	MxF	band	Fol-str	Mixed gneiss, mod-strong patchy silc and seric, weak perv clay altn; 1.5% patchy oxides (lim with weak hem staining- more concentrated at beginning of interval); 1.5% patchy sooty sulphides with local peak of 4% disseminated sooties from 232.47-233.11m; 0.15% quartz veins (parallel-to-fol and oblique), 0.15% calcite veins (parallel-to-fol and oblique)	
		228.8 - 233.5	Pervasive Moderate Clay	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
233.5 - 250.3	MxF	band	Fol-str	Mixed gneiss, weak perv silc, chlorite and seric altn; trace diss brassy pyrite, FC oxides (lim, hem)	
		233.5 - 250.3	Pervasive Weak Silicification	Pervasive Weak Chlorite	

250.3 - 258.5	MxF	band	Fol-str	Mixed gneiss, zone (str); transitional facies, dominantly sulphidic; strong qsp alteration, strong perv silica, weak patchy clay altn (st patchy clay at beginning of interval); 1% FC oxides (lim with strong hem), 3-4% diss sooty sulphides; 2% qtz veins (parallel-to-fol and cross-cutting)	
		250.3 - 252.0	Pervasive Strong Clay		
		252.0 - 288.0	Pervasive Strong Sericitisation	Pervasive Strong Silicification	Patchy Weak Clay
258.5 - 290.8	MxF	band	Fol-str	Mixed gneiss; strong qsp alteration, strong perv silc altn (strong-intense from 288-289.5,); 0.25-1% patchy pyrite (disseminated sooty and brassy), 0.25-1% patchy diss oxides (lim, hem); local quartz veining (~1% over interval, 25% from 288-290), minor sooty pyrite veinlets (<0.15%)	
		288.0 - 289.4	Pervasive Intense Silicification	Pervasive Strong Sericitisation	
		289.4 - 290.5	Pervasive Moderate Clay	Pervasive Moderate Albite	Patchy Moderate Silicification
		290.5 - 291.4	Pervasive Intense Sericitisation	Pervasive Strong Silicification	
290.8 - 291.4	IV	phyr	Andesite dyke; intense perv seric, strong perv silc; fine-med grained non-equigranular plagioclase phenocrysts; upper contact with mxh is gradational- the dyke has warped the foliation of upper MxF (region is ~40cm); sharp but irregular lower contact with mxh		
291.4 - 306.0	MxF	band	Fol-str	Mafic gneiss; moderate-strong perv qsp and silc altn; 0.25-0.5% diss pyrite, 0.25% FC limonite	
		291.4 - 305.8	Pervasive Strong Silicification	Patchy Strong Sericitisation	
		305.8 - 306.9	Pervasive Moderate Sericitisation	Patchy Moderate Clay	
306.0 - 306.9	IV	phyr	Andesite dyke, fresh; fine-grained biotite and chlorite rich with feldspathic phenocrysts; weak seric altn		
306.9 - 308.0	MxF	band	Fol-str	Mafic gneiss; moderate-strong perv qsp and silc altn; 0.25-0.5% diss pyrite, 0.1-15% FC limonite	
		306.9 - 308.0	Pervasive Strong Silicification	Patchy Strong Sericitisation	

Drill Log: CFD0249

Easting	585026.85	Hole Length	317 m	Prospect	Double Double	Drill Started	Jun 23, 2012	Comment
Northing	6973328.07	Azimuth	178 °	Target		Drill Completed	Jun 27, 2012	
Projection	UTM7-NAD83	Dip	-62 °	Geologist		Core Size	HQ	
Survey method	RTK GPS	Elevation	1106.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 26.1	MxF	augn	Fol-mod	Dominantly felsic augen gneiss with narrow interbands of mafic schist, exhibiting typical silicification of felsics and weak chlorite alt of biotite. Last 4m is dominantly mafic schist. Small fracture zone at 24.1 with frac lim. Rare disseminated oxidized pyrite.
		9.0 - 26.1	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
26.1 - 33.1	IV	phyr		Feldspar-porphyritic andesite, weak silicification of phenocrysts, locally strongly fractured
		26.1 - 33.1	Replaces Felsics Moderate Silicification	
33.1 - 39.3	MxF	band	Fol-mod	Mixed gneiss, approximately 60% felsic. Silicification of felsic bands, chlorite after biotite and epidote after fs in mafic bands.
		33.1 - 39.3	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite Patchy Weak Epidote
39.3 - 40.2	RU	mylo	Crenul	Talc schist, contains biotite layers and talc-fuchsite layers, strongly foliated and moderately fractured at end of unit
		39.3 - 40.2	Pervasive Intense Talc	Pervasive Moderate Fuchsite
40.2 - 43.0	MxF	mass	Fol-wk	Unit is felsic gneiss to about 41.8m, then becomes chaotically deformed and contains mafic schist. After 41.8, the unit becomes pink like a counter-top granite, and pods of this felsic material appear entrained in the mafic schist. Strangely enough, sauseritization of feldspar porphyroblasts is overprinted by the pink silica alteration (two phase). The unit exhibits ~5mm semi-oxidized pyrite crystals from 42.75 to end of unit.
		40.2 - 43.0	Replaces Felsics Strong Silicification	Replaces Felsics Weak Epidote Replaces Mafics Moderate Chlorite
43.0 - 49.3	AmBtS	band	Fol-mod	Amphibole biotite schist containing another RU from 44.38-44.82. The schist is mafic and exhibits amphibole porphyroblasts, epidote after feldspar with chlorite after biotite. 0.5% disseminated metamorphic pyrite was present but has been oxidized.
		43.0 - 49.3	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
49.3 - 52.9	FG	band		Very broken felsic gneiss. Fractures exhibit limonite and some calcite. Rock is strongly pervasively silicified. Strong clay over 5cm at 50.95 (fault gouge?)
		49.3 - 52.9	Replaces Mafics Strong Silicification	Patchy Weak Clay
52.9 - 77.2	BtS	band	Fol-str	Monotonous biotite schist, locally with significant amphibole. Pyrite ceases to be oxidized by 57.6, except from 69.5-70.2 where local oxidation has occurred. As is typical of the mafic schist in Double Double, local narrow quartz veins/pods are spatially associated with up to 20% coarse brassy pyrite that never runs. One vein occurs at 57.25 and another 70m.
		52.9 - 77.2	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote
77.2 - 80.9	BtS	band	Fol-mod	Biotite schist with 5-30cm patches of weak-mod QSP alteration spatially associated with 1-2mm white porcelanic quartz veins, 0.2% limonite, and trace hematite.
		77.2 - 80.9	Vein Selvege Weak Silicification	Vein Selvege Weak Replaces Mafics Weak Chlorite
80.9 - 82.4	BtS	band	Crenul	Biotite schist weakly developed into a shear zone without grain-size destruction (foliation becomes stretched, locally contorted). Presence of 0.5% limonite and 0.2% associated with a swarm of near CA-parallel calcite veins.
		80.9 - 82.4	Pervasive Moderate Clay	Patchy Weak Sericitisation
82.4 - 92.1	MxM	band	Fol-mod	Biotite schist with rare 10cm interbands of felsic gneiss, dominantly competent with no significant alteration/mineralization
		82.4 - 92.1	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
92.1 - 95.6	MxF	band	Fol-mod	Felsic-dominant gneiss. Unit exhibits strong silicification of felsic bands, 0.25% fracture-controlled limonite, and one 50cm patch of sericite alteration.
		92.1 - 95.6	Replaces Felsics Moderate Silicification	Patchy Weak Sericitisation

95.6 - 98.9	BtS	band	Fol-mod	Biotite schist with 1 small FG interband at 97.8m, qtz-carb vein 98.28-98-71m		
		95.6 - 98.9	Replaces	Mafics Weak Chlorite	Replaces Felsics Weak Epidote	Pervasive Weak Leucoxene
98.9	103.7	MxM	band	Fol-mod	Dominantly biotite schist with some FG interbands, exhibits patchy limonite associated with carbonate veins at 99.2, and associated with moderate sericite alteration in the gneiss bands.	
		98.9 - 103.7	Replaces	Felsics Moderate Silicification	Replaces Felsics Moderate Sericitisation	Replaces Mafics Moderate Chlorite
103.7 - 116.8	MxF	band	Fol-mod	Felsic dominant gneiss, weak pervasive sericite, moderate silica after feldspar, exhibits foliation-parallel and fracture controlled limonite limonite veins (av. 0.2%). Rare disseminated oxidized pyrite.		
		103.7 - 116.8	Replaces	Felsics Moderate Silicification	Pervasive Weak Sericitisation	
116.8 - 118.0	FG	band	Fol-mod	Weakly mineralized felsic gneiss, cut by numerous 1-15mm limonite-carbonate veins (limonite av. 0.75%). Exhibits stronger sericite than previous unit, but is not classic QSP alteration.		
		116.8 - 118.0	Replaces	Felsics Moderate Silicification	Pervasive Moderate Sericitisation	
118.0 - 130.7	MxF	band	Fol-mod	Mixed gneiss exhibiting 0.3-1m patches of QSP alteration associated with textural destruction and weak limonite, many of which are completely oxidized and bleached. Much of the core exhibits near CA-parallel fractures filled with carbonate and limonite with some hematite (av. 0.5%)		
		118.0 - 130.7	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	
130.7	134.2	BtS	band	Fol-str	Dark coloured mafic schist, exhibit numerous thin calcite veinlets crossing at random angles, weak fracture controlled limonite. As typical for this lithology, there is a quartz clot at 132m but with no spatially associated brassy pyrite (however there is 0.5% disseminated brassy py)	
		130.7 - 134.2	Replaces	Mafics Weak Chlorite	Replaces Felsics Weak Epidote	
134.2 - 136.4	MxM	band	Fol-mod	Weak-mod QSP altered mafic-dominant gneiss. At 136.2 there is a ~10cm-wide silica matrix, clay-altered, subrounded crackle breccia with 0.1% disseminated limonite and 0.25% disseminated alt-related brassy py. Full unit exhibits partially to completely oxidized sooty pyrite veinlets at very shallow angles to CA. It is likely that the veins/fractures observed up-hole were once sooty pyrite. Unit contains 2% disseminated alt-related brassy py, 0.2% fracture-controlled limonite, and trace vein-hosted sooty py.		
		134.2 - 136.4	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	Patchy Weak Clay
136.4 - 138.7	MxM	band	Fol-mod	Unit of mafic dominant gneiss with similar alteration compared to previous and next units, contains 1% disseminated alt-related brassy py (QSP)		
		136.4 - 138.7	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	
138.7 - 140.2	MxM	band	Fol-mod	Altered and mineralized mafic dominant gneiss. Moderate to strong QSP alteration, 0.5% vein-halo limonite both from oxidation of blebby 1% brassy pyrite and from oxidized (now trace) sooty pyrite in veins.		
		138.7 - 140.2	Pervasive	Strong Silicification	Pervasive Moderate Sericitisation	
140.2 - 144.5	BtS	band	Fol-str	Generally unaltered mafic schist between two zones, similar to that seen up hole		
		140.2 - 144.5	Replaces	Mafics Weak Chlorite	Replaces Felsics Weak Epidote	Pervasive Weak Leucoxene
144.5 - 145.7	BtS	bxi	Fol-wk	Moderately QSP altered BtS with locally developed stockworks/crackle breccia. A 1-6cm wide zone of 50% of sooty pyrite occurs at 144.82 - the mineralization appears to be hosted in altered mafic schist (leucoxene still present, defines foliation). Sooty pyrite is also present in small stringers, on the margins of/within chalcedony veins, and localized disseminations - av. 2%.		
		144.5 - 145.7	Pervasive	Moderate Silicification	Pervasive Strong Sericitisation	Pervasive Weak Leucoxene
145.7 - 146.2	IV	mass		Small aphanitic andesite dike with sharp contacts up- and down-hole, though at different orientations. Contains 0.5% ultra-fine disseminated brassy pyrite		
		145.7 - 146.2	Pervasive	Weak Chlorite		
146.2 - 147.4	BtS	band	Fol-mod	Interval of mineralized mafic schist, possibly part of the second previous unit. QSP alteration is however spatially associated with the near CA-parallel qtz-sulphide veins. Also like the second previous unit, sooty pyrite has infiltrated the foliation of the host schist and is near semi-massive (total sooty py 2.5%), which is also spatially associated with the veining.		
		146.2 - 147.4	Pervasive	Weak Silicification	Pervasive Weak Sericitisation	Pervasive Weak Leucoxene
147.4 - 149.3	BtS	band	Fol-str	Another interval of mafic schist between small zones. Exhibits a bit more veining than those observed up hole.		
		147.4 - 149.3	Replaces	Mafics Weak Chlorite	Pervasive Weak Sericitisation	Pervasive Weak Leucoxene
149.3 - 150.4	BtS	band	Fol-mod	QSP altered mafic schist, stronger than second previous unit, with 2% vein-hosted sooty pyrite (near CA-parallel again). Also has sooy py in local patchy disseminations, but no semi massive pyrite like in previous units. Total of 3%.		
		149.3 - 150.4	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	Pervasive Weak Leucoxene
150.4 - 159.4	MxM	augn	Fol-mod	Mafic dominant mixed gneiss, pervasively QSP altered but the strength of the alt is patchy and also dictates the abundance of sulphide - rare vein hosted sooty pyrite, rare disseminated sooty py, and rare disseminated alt-related brassy py (total 0.2%)		
		150.4 - 159.4	Patchy	Moderate Silicification	Patchy Moderate Sericitisation	

159.4 - 161.1	BtS	fgrn	Fol-str	Altered biotite schist unit that hosts what can only be described as a grey competent shear zone: it has sharp boundaries, hosts the strongest QSP alteration in the unit, and contains a contact-parallel cockcomb qtz-carbonate vein with sooty pyrite selvages. This shear also hosts small domains of silica microbreccia. The rest of the unit exhibits QSP alteration with more-than-normal bleaching, possibly indicative of local kalonite. Total pyrite 1%.		
		159.4 - 161.1	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Patchy Weak Clay	
161.1 - 178.3	MxF	augn	Fol-mod	Felsic dominant gneiss, strongly pervasively silicified with weak to moderate sericite over 50cm or so. 0.2% disseminated brassy py, likely metamorphic.		
		161.1 - 178.3	Pervasive Strong Silicification	Patchy Weak Sericitisation		
178.3 - 182.0	BtS	band	Fol-mod	Fresh biotite schist, weak pervasive sericite and weak disseminated leucoxene. Last 75cm of unit becomes increasingly limonitic (av. 0.2%) and fractured. Unit has trace disseminated brassy metamorphic pyrite.		
		178.3 - 182.0	Pervasive Weak Sericitisation	Pervasive Weak Leucoxene	Replaces Mafics Weak Chlorite	
182.0 - 193.3	MxF	band		Weak zone/shoulder. Strongly to intensely silicified mixed felsic dominant gneiss, weak patchy sericite (visible where unit not completely oxidized). Average of 1% disseminated limonite, 0.25% hematite. Local qtz-vein breccias, specifically from 187.9-188.2.		
		182.0 - 193.3	Pervasive Strong Silicification	Patchy Weak Sericitisation		
193.3 - 198.0	MxF	band	Fol-wk	Weak zone. Intensely silicified felsic dominant mixed gneiss with locally complete textural destruction. Weak clay along fractures. Av. 0.25% each disseminated limonite and hematite. Unoxidized gneiss from 196.9 exhibits 0.5% disseminated alt-related (QSP) brassy pyrite and 0.5% vein-hosted sooty pyrite. Average 0.1% overall		
		193.3 - 198.0	Pervasive Intense Silicification	Pervasive Weak Sericitisation		
198.0 - 199.2	YC	bxm		Zone. Two silicified clast breccias separated by 60cm of previous unit: the first is 2cm wide at start of unit and the second is 60cm wide. The first is a crackle breccia with clasts of silicified gneiss. The second is a medium to coarse grained breccia, white clay matrix supported, and nearly consolidated (falls apart when handled) with unconsolidated parts. Clasts do not appear more or less altered than surrounding gneiss. Av 0.25% each disseminated limonite and hematite.		
		198.0 - 199.2	Pervasive Intense Silicification	Replaces Matrix Strong Clay		
199.2 - 204.2	FG	augn		Zone. Strongly to locally intensely silicified felsic gneiss. Uncommon clay on fractures. Unit contains 0.5% disseminated limonite and 0.2% disseminated hematite.		
		199.2 - 204.2	Pervasive Strong Silicification	Vein Selvedge Weak Clay		
204.2 - 206.0	YC	bx		Zone. Poorly recovered silicified clast breccia, silica-clay matrix, matrix supported, 1mm-1.5cm sub angular-subrounded clasts of silicified wall rock. Contains 1% disseminated limonite with 0.2% patchy hematite.		
		204.2 - 206.0	Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay		
206.0 - 208.3	FG	augn	Fol-wk	Zone. Strongly silicified felsic gneiss with weak pervasive sericite. 0.1% oxidized metamorphic pyrite, 0.3% disseminated limonite, trace fracture controlled hematite. Unit exhibits some white carbonate veining akin to CFD0245, but much less.		
		206.0 - 208.3	Pervasive Strong Silicification	Pervasive Weak Sericitisation		
208.3 - 213.4	HU	mass		Zone. Intense silicification has caused complete textural destruction: this unit was likely a felsic gneiss. 1% disseminated limonite, 0.5% vein-halo hematite. White carbonate veining (like previous unit) present from 210.5-211, 212-213.		
		208.3 - 213.4	Pervasive Intense Silicification	Pervasive Weak Sericitisation		
213.4 - 216.0	YC	bx		Zone. Probable silicified clast breccia, is similar to 204.2 to 206- has become rubble in the box. Strong clay in former matrix. 1.5% disseminated limonite and 0.75% hematite.		
		213.4 - 216.0	Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay		
216.0 - 225.6	FG	augn	Fol-mod	Weak zone/shoulder. Strongly to locally intensely silicified felsic gneiss, moderate textural destruction but augens still clearly visible. 1% disseminated limonite and 0.5% vein halo hematite.		
		216.0 - 225.6	Pervasive Strong Silicification	Pervasive Weak Sericitisation		
225.6 - 239.2	MxM	augn	Fol-mod	Biotite schist with 1m bands of felsic gneiss, is locally highly fractured/crushed over 0.1-1m with associated clay and limonite. Felsic gneiss is moderately silicified, biotite schist is weakly chloritic. Av. 0.2% fracture controlled limonite, moderate clay.		
		225.6 - 239.2	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite	Patchy Moderate Clay	
239.2 - 240.9	BtS	band	Fol-wk	Small zonelet; biotite schist that is pervasively QSP altered and patchy oxidized. Strong hematite over 10cm starting at 239.7 associated with a fracture, same at 240.35. Limonite and hematite in this unit are spatially associated with veins/fractures, and are av. 0.25% and 0.75%, respectively. Trace disseminated pyrite.		
		239.2 - 240.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
240.9 - 257.1	BtS	band	Fol-mod	Nearly fresh biotite schist with rare hematitic fractures. Exhibits typical weak chlorite after bt, epidote after fs, and disseminated metamorphic py (av. 0.5%). Unit becomes weakly sericite-altered and crenulated in last 3m.		
		240.9 - 257.1	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote	Pervasive Weak Leucoxene	

257.1 - 261.2	YO	bxi		Polymictic breccia, probably a fault, with angular to subrounded clasts of BtS, FG, and quartz. Many parts of the breccia are unconsolidated, and one cannot pick it out of the box without it falling apart. The breccia grades from matrix supported to clast supported, and the matrix can be a mixture of clay and biotite (gouge), or clay with trace limonite and 1% hematite over 20cm (av. 0.25% hm).
		257.1 - 261.2	Patchy Strong Clay	Pervasive Weak Sericitisation
261.2 - 269.2	MxM	band	Fol-mod	Biotite schist with weak pervasive sericite alteration. 35-50cm patches of strongly fractured schist with associated hematite and clay, present at 265.3 and 268.2. Next unit is a larger version of the crush zones above. 0.2% hematite and trace limonite, fracture-controlled.
		261.2 - 269.7	Pervasive Weak Sericitisation	Replaces Felsics Weak Silicification Fracture Controlled Weak Clay
269.2 - 270.4	BtS	band		Broken and crushed biotite schist, exhibits strong fracture controlled/patchy clay and hematite (0.5%), most of which is concentrated in the last 25cm of the unit.
		269.7 - 270.4	Fracture Controlled Strong Clay	Pervasive Weak Sericitisation
270.4 - 275.9	MxF	pblst	Fol-mod	Felsic dominant gneiss with porphyroblasts but no augens, moderate-pervasive silica, weak sericite, and weak leucoxene. Trace limonite on fractures, no observed metamorphic pyrite.
		270.4 - 275.9	Replaces Felsics Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Leucoxene
275.9 - 277.7	MxF	pblst		Same unit as above but is moderately to strongly fractured. Fractures contribute to local crushing of the rock, and these zones contain weak clay and trace limonite-hematite.
		275.9 - 277.7	Replaces Mafics Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Leucoxene
277.7 - 280.4	MxM	pblst		Biotite schist with gneiss bands, moderately broken with most fractures sub-parallel to CA. Small breccia very similar to that observed from 257.05-261.17m (278-278.3) This unit has a slightly grungy appearance, probably due to local oxidation. Limonite (0.25%) and clay are found in the fractures.
		277.7 - 280.4	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
280.4 - 286.0	BtS	pblst	Fol-wk	Patchy to pervasive moderate to locally strongly QSP altered biotite schist with associated rare sooty pyrite veins similar to those observed up-hole, and uncommon alt-related brassy pyrite in the most altered regions (total av. 0.25%). Weak disseminated leucoxene visible in less altered regions.
		280.4 - 286.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
286.0 - 290.5	MxM	augn	Fol-mod	Less altered biotite schist with felsic augen gneiss bands: more textures are preserved than in previous unit. Silicification is moderate and pervasive throughout unit, but sericite is patchy. Sooty pyrite is very rare and still present in thin veins at shallow angles to CA. Disseminated pyrite is rare. Both average to trace.
		286.0 - 290.5	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Leucoxene
290.5 - 292.0	BtS	band	Fol-wk	Strongly QSP altered schist with associated 2% disseminated limonite. No observed sooty pyrite veins, although chalcedony there are near CA-parallel chalcedony veins
		290.5 - 292.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation
292.0 - 297.8	MxF	augn	Fol-mod	Silicified felsic dominant gneiss, exhibits moderate pervasive silica, weak disseminated leucoxene, weak pervasive sericite, trace disseminated brassy pyrite.
		292.0 - 297.8	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Leucoxene
297.8 - 302.9	MxF	augn	Fol-mod	Strongly QSP altered felsic dominant gneiss with a region from 301-302 with no QSP alteration. The initial alteration, from 300-301, exhibits a horsetail sooty pyrite vein at 300.55, and the unit as a whole exhibits 0.2% brassy alt-related pyrite. Total of 0.25% for the interval.
		297.8 - 302.9	Pervasive Strong Silicification	Pervasive Strong Sericitisation
302.9 - 309.0	FG	band	Fol-mod	Moderately silicified felsic gneiss with overall pink hue due to hematite staining of feldspars. Sericite is local and is spatially associated with 0.1-1cm thick chalcedony veins cutting at moderate angles to CA. Some epidote has survived the silicification and is present in the top 3m of the interval. 0.2% disseminated brassy pyrite.
		302.9 - 309.0	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation Patchy Weak Epidote
309.0 - 313.2	FG	band	Fol-wk	Strongly QSP altered felsic gneiss, last 2m also exhibit strong clay alteration - also fractures near parallel to CA. Sooty pyrite veins are present at 309.4, 310.8, 311.7, and 312.7. Sooty pyrite content averaged over the interval is 0.25%, disseminated brassy alt-related pyrite is 0.5%.
		309.0 - 313.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation Patchy Moderate Clay
313.2 - 317.0	FG	band	Fol-mod	Silicified felsic gneiss with moderate sericite spatially associated with thin veins throughout the unit. Weak disseminated leucoxene throughout, pinkish feldspars (hematite staining). Trace brassy pyrite.
		313.2 - 317.0	Pervasive Moderate Silicification	Vein Seldedge Moderate Sericitisation Pervasive Weak Leucoxene

Drill Log: CFD0250

Easting	584227.09	Hole Length	278 m	Prospect	Supremo T3	Drill Started	Jun 25, 2012	Comment
Northing	6974001.25	Azimuth	270 °	Target	T3	Drill Completed	Jun 28, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1202 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.8	OVB			
		0.0 - 30.0	Patchy Weak Silicification	Patchy Moderate Epidote
5.8 - 30.0	BtS	lamn	Fol-str	Pervasive Moderate Sericitisation
				Biotite schist with local mixed felsic gneiss exhibiting schistose foliation; small (mm) local calcite veins; weak patchy silicification, moderate patchy epidote, pervasive chlorite & sericite alteration. Unit contains weak to no fracture controlled lim & hem 0.05%, local pitted weathered sulphides.
30.0 - 111.9	MxF	band	Fol-mod	Mixed felsic gneiss. Local moderate silicification, pervasive clay & sericite alteration; associated with alteration is disseminated lim & hem staining 0.25%, with unaltered sections of sooty sulphides 0.25%, unaltered QSP from 45.40 - 46.09m, local small (mm) calcite vein with limonite selvage located at 36.51-36.52m. Increasing in depth lith unit exhibits: moderate silicification & sericite, with weak patchy epidote alteration, this section is associated with weak fracture controlled lim & hem 0.10%, with weathered/brassy pyrite cubes 0.1%. Local intervals of increase fracture controlled lim & hem 0.2%, associated with strong silicification, moderate sericite, & weak patchy clay alteration. Slight augen texture spread throughout unit.
		30.0 - 47.4	Patchy Moderate Silicification	Pervasive Moderate Clay
		47.4 - 87.8	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		87.8 - 90.1	Pervasive Strong Silicification	Patchy Weak Epidote
		90.1 - 111.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
111.9 - 113.9	FG	band	Fol-wk	Felsic gneiss, small weak/mod zone. Moderate silicification, sericite, & clay alteration. Small (mm) cross cutting hematite veins and small (cm wide) quartz veins. Moderate lim & hem staining 1.5% with sooty sulphides 0.5% in local unoxidized intervals.
		111.9 - 113.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
113.9 - 114.1	YC	bx		Patchy Moderate Clay
				Silicified-clast breccia. Fine-grained rounded clay matrix supported clast breccia. Moderate disseminated lim & hem 1.5% staining. Weak silicification, with strong clay replacement matrix alteration.
		113.9 - 114.1	Replaces Clasts Weak Silicification	Replaces Matrix Strong Clay
114.1 - 116.1	FG	band	Fol-wk	Felsic gneiss, small weak/mod zone. Moderate silicification, sericite, & clay alteration. Small (mm) cross cutting hematite veins. Moderate lim & hem staining 1.5% with sooty sulphides 0.5% in local unoxidized intervals.
		114.1 - 116.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
				Patchy Moderate Clay
116.1 - 124.3	MxF	band	Fol-mod	Mixed felsic gneiss. Interval of strong pervasive silicification, mod sericite alteration, associated with frac controlled lim & hem 0.25% and sooty disseminated sulphides 0.25%, local QSP intervals. Local moderate pervasive clay, silica & sericite alteration, sub-unit includes same sulphide content as above but sulphides are disseminated. Large 10cm quartz vein located at 120m.
		116.1 - 122.2	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
		122.2 - 124.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
124.3 - 128.5	DIOR	fgrn		Pervasive Moderate Clay
				Diorite dyke. Local interval of strong pervasive clay alteration, with 0.25% disseminated lim & hem staining located at the start of the lith unit. Remaining unit is fresh fine equigrained diorite dyke, local small (mm) calcite veins, with weak frac controlled lim 0.1% and moderate silicification alteration.
		124.3 - 125.1	Pervasive Strong Clay	
		125.1 - 128.5	Pervasive Moderate Silicification	
128.5 - 136.9	MxF	band	Fol-wk	Mixed felsic gneiss . Strong pervasive silicification, mod sericite alteration, associated with weak frac controlled lim & hem 0.20%.
		128.5 - 136.9	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
136.9 - 138.9	DIOR	fgrn		Diorite dyke with felsic gneiss xenoliths. Weak frac con lim & hem 0.1%. Weak silica alteration, local small (mm) calcite veins.
		136.9 - 138.9	Pervasive Weak Silicification	

138.9 - 157.5	MxF	band	Fol-mod	Mixed felsic gneiss, felsic dominated. Small fine-grain rounded lime matrix supported breccia located @ 140.14m, detailed photo to follow. Unit includes moderate pervasive silicification, sericite & clay alteration, associated with disseminated lim 0.5% & hem 0.25% staining. Local small (mm-cm) quartz veins and small (mm) hematite veins.
		138.9 - 157.5	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
157.5 - 164.1	DIOR	fgrn		Diorite dyke, equigranular. Unit is composed of weak frac controlled lim & hem 0.1%, associated with weak pervasive silicification alteration. Local interval of moderate/strong pervasive clay alteraion. Unit includes small (mm) wide calcite veins, similar to dykes seen above. Fresh brassy pyrite 0.1%.
		157.5 - 161.4	Pervasive Weak Silicification	
		161.4 - 162.9	Pervasive Strong Clay	
		162.9 - 164.1	Pervasive Weak Silicification	
164.1 - 215.9	MxM	band	Fol-str	Mixed mafic gneiss. Unit is composed of fresh gneiss with altered weak mineralized gneiss intervals. Top of unit consists of moderate silicification, sericite & weak patchy alteration (QSP), associated with weak frac controlled lim & hem 0.1% with fresh brassy pyrite 0.1%, this unit includes local small (mm - 1cm) wide quartz & calcite veins. From 193.38 -198.74m local interval of frac controlled lim & hem 0.25% associated with moderate silicification, sericite, & weak clay alteration. Bottom of unit consists of fresh gneiss and altered gneiss composed of moderate disseminated lim 0.75% & hem staining 0.5%, associated with weak silicification, sericite & moderate clay alteration, this section includes local small (1cm) wide limonite breccia veins and small (mm) hematite veins.
		164.1 - 193.4	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Albite
		193.4 - 198.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
		198.7 - 206.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Albite
		206.3 - 206.5	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Clay
		206.5 - 208.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		208.7 - 215.9	Pervasive Weak Silicification	Pervasive Weak Sericitisation Pervasive Moderate Clay
215.9 - 216.7	DIOR	fgrn		Fresh equigranular diorite dyke, weak silicification alteration, associated with bronzy/brassy pyrite 0.5%
		215.9 - 216.7	Pervasive Weak Silicification	
216.7 - 220.3	MxM	band	Fol-mod	Mixed mafic gneiss. Lith unit is composed of altered/mineralized & non-mineralized gneiss. The unit begins with a small interval of gneiss composed of moder silicification & sericire alteration. Followed by a local interval of moderate pervasive clay, sericite & weak silica alteration, this interval is associated with disseminated lim 0.5% & frac con hem 0.1%, this interval includes local (1cm) quartz veins & small (1mm) wide hematite veins. Following this low mineralization is fresh gneiss that was located above the mineralization that is associated with weak frac con lim & hem staining 0.15% with brassy pyrite 0.15%.
		216.7 - 216.8	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		216.8 - 218.2	Pervasive Weak Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
		218.2 - 220.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
220.3 - 236.6	MxM	band	Fol-wk	Mixed mafic gneiss, unit begins with strong zone and finishes with a weak zone. Unit starts with strong pervasive sericite, moderate clay & weak silica alteration which continues in the interminging un-oxidized intervals associated with weak frac controlled lim & hem staining 0.1%. Oxidized intervals of zone consist of disseminated lim 2% with hematite staining 0.5%, associated with moderate silica & weak clay alteration, sooty sulphides 1.5% located middle of zone. After the strong zone alteration is observed to have strong sericite, mod silica, weak clay & chlorite alteration associated with frac con lim & hem staining 0.1% and brassy pyrite 0.1%. Weak zone which consists of: disseminated lim 1% with 0.5% hematite staining, associate with moderate silica, sericite, & clay alteration.
		220.3 - 223.5	Pervasive Weak Silicification	Pervasive Strong Sericitisation Pervasive Moderate Clay
		223.5 - 226.5	Pervasive Moderate Silicification	Pervasive Weak Clay
		226.5 - 232.2	Pervasive Moderate Silicification	Pervasive Strong Sericitisation Pervasive Weak Clay
		232.2 - 236.6	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
236.6 - 278.0	MxM	band	Fol-mod	Mixed mafic gneiss, footwall rock. This unit is composed of moderate silica, clay, & sericite alteration associated with frac con lim 0.25-0.2% & hem staining 0.15%. Local intervals of fresh gneiss with moderate silica & sericite alteration associated with weak frac con lim 0.1% & hem 0.1% staining with brassy pyrite 0.1%. Local quartz veins varying in sizes (2-5cm) wide, & weathered vugs & large two-phase quartz vein located at 243m, quartz vein includes brassy pyrite 0.1%, & earlier phase contains/contained mineralization, appears brecciated.
		236.6 - 247.6	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
		247.6 - 253.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		253.3 - 259.6	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Clay
		259.6 - 263.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		263.1 - 267.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
		267.7 - 278.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Clay

Drill Log: CFD0251

Easting	585030.45	Hole Length	239 m	Prospect	Double Double	Drill Started	Jun 28, 2012	Comment	redrill of CFD0249
Northing	6973328.08	Azimuth	182 °	Target		Drill Completed	Jul 02, 2012		
Projection	UTM7-NAD83	Dip	-62 °	Geologist		Core Size	HQ		
Survey method	RTK GPS	Elevation	1107.1 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.7	OVb			
4.7 - 28.1	MxF	band	Fol-mod	Felsic dominant mixed gneiss, with 1-2m intersections as either biotite schist or felsic gneiss. Augens locally present but not pervasive. Moderate silicification of felsic bands, weak chlorite after biotite in mafic bands (standard alteration suite). Rare limonite/hematite on fractures. Former disseminated metamorphic pyrite converted to iron oxides.
		4.7 - 28.1	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
28.1 - 33.8	IV	phyr		Plag porphyritic andesite, phenocrysts are completely silicified. Weak foliation locally present, possibly indicative of flow banding. Both up- and down-hole contacts are preserved.
		28.1 - 33.8	Replaces Clasts Moderate Silicification	
33.8 - 35.8	MxM	band		Relatively fresh mafic dominant mixed gneiss, if slightly more fractured than usual: fractures may host calcite. Competent by 34.5. Weak chlorite after biotite, silica after felsic bands, epidote after feldspar in mafic bands.
		33.8 - 35.8	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite Replaces Felsics Weak Epidote
35.8 - 42.0	RU	lamn		Fault zone: intensely fractured to 38, again from 39.15-39.65, and again from 41-42. Lithologies in the interval are a mixed bag of BtS, RU, FG, and SZ. Dominant alteration is chlorite (strong), but also talc and silica.
		35.8 - 42.0	Patchy Strong Chlorite	Replaces Mafics Moderate Talc Replaces Felsics Weak Silicification
42.0 - 49.0	AmBtS	band	Fol-mod	Amphibole biotite schist with common ~1mm amphibole augens (now chlorite), epidote after feldspar. Small intersection of talc schist 44-44.23m. 5% coarse brassy pyrite from 42.1-42.3 associated with a quartz-epidote clot - original host may have been a band of felsic gneiss (pink). No observed disseminated pyrite in the schist.
		42.0 - 49.0	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
49.0 - 54.4	MxF	band		Competent to moderately fractured felsic dominant mixed gneiss with an intersection of talc schist from 53-53.25. Common limonite/hematite on fractures which also host calcite.
		49.0 - 54.4	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
54.4 - 82.2	BtS	band	Fol-mod	Biotite schist locally grading to amphibole biotite schist over 10-70cm, typical chlorite after amphibole and epidote after feldspar. First appearance of fresh metamorphic brassy pyrite (0.25%). Strange quartz vein from 70.3-70.65 consisting of 20% quartz and 80% limonite - former pyrite? Starting at 72.5, patchy sericite alteration that is spatially associated with white quartz veins cutting at random angles to CA. Limonite appears on fractures at 77m.
		54.4 - 72.5	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote
		72.5 - 82.2	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote Vein Seldge Weak
82.2 - 90.4	BtS	band		Biotite schist, cut by numerous limonite/hematite+calcite veins, many running near parallel to CA (like those observed uphole in 249 and like the sooty veins downhole in 249). Foliation is locally contorted. The schist where the veins intersect is pervasively strongly clay altered. From 86-88m the rock is almost completely disaggregated. Av. 0.75% limonite 0.2% hematite
		82.2 - 90.4	Vein Seldge Strong Clay	Vein Seldge Weak Calcite
90.4 - 95.5	MxF	band	Fol-mod	Felsic dominant mixed gneiss, 0.25% fracture controlled limonite: fractures run throughout but seem more concentrated in the felsic bands. Strong silicification of felsic bands (av. Mod), weak leucoxene in mafic bands along with epidote after feldspar
		90.4 - 95.5	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene

95.5 - 101.0	BtS	band	Fol-mod	Biotite schist, weak chlorite after hbl/bt, epidote after fs, rare metamorphic brassy pyrite. Unit is also cut by limonite veins, similar to previous, but fewer. A 20cm white bull quartz vein starting at 97.55m is coincident with a sudden change in the foliation, which becomes contorted and irregular to 99.7m. Uncommon disseminated metamorphic pyrite where unit is unoxidized, averaging 0.25%.
		95.5 - 101.0	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
101.0 - 102.9	MxF	augn	Fol-mod	Felsic dominant mixed gneiss with some visible augens, is strongly silicified and exhibits moderate to locally strong sericite. Some parts of the unit are pitted, perhaps attributed to local clay alteration. Unit exhibits common limonite veins and stockworks, some of which form a crackle breccia (from 102.07-102.2, 102.7 - minimal clast rotation, no preferential alteration of clasts). Average 0.25% frac lim.
		101.0 - 102.9	Pervasive Strong Silicification	Patchy Moderate Sericitisation
102.9 - 117.5	MxF	augn	Fol-mod	Fairly fresh felsic-dominant mixed gneiss with uncommon augens. Most of the feldspar has been silicified, and some epidote has replaced feldspar in the mafic bands. Uncommon disseminated metamorphic pyrite (0.2%) and trace fracture controlled limonite.
		102.9 - 117.5	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
117.5 - 121.5	MxF	pblst	Fol-mod	Felsic dominant gneiss, cut by uncommon limonite veins with some local disseminated limonite (av. 0.25%). Bleaching occurs in the vicinity of limonite veins, but this is likely an oxidized feature. Very rare disseminated metamorphic pyrite.
		117.5 - 121.5	Replaces Felsics Moderate Silicification	
121.5 - 122.1	FG	mass	Fol-wk	Altered and weakly mineralized felsic gneiss. Limonite is spatially associated with thin hematite veins. Strong silicification and associated bleaching (albite).
		121.5 - 122.1	Pervasive Strong Silicification	Pervasive Moderate Albite
122.1 - 125.5	FG	band	Fol-wk	Silicified felsic gneiss, rare fracture-controlled limonite or hematite. Unit is cut by thin stringers of what looks like epidote but is probably sericite(?). No observed metamorphic pyrite.
		122.1 - 125.5	Replaces Felsics Strong Silicification	Fracture Controlled Weak Epidote Fracture Controlled Weak Sericitisation
125.5 - 128.7	MxF	band	Fol-mod	Felsic dominant mixed gneiss, mostly QSP altered with 5-30cm intervals of un-/weakly-altered rock. Sooty pyrite is very rare, and observed as a few disseminated grains in the QSP altered intervals. Limonite is spatially related to fractures, with hematite closer to (~1cm) the veins than limonite (15cm). Av. 1% limonite, 0.2% hematite.
		125.5 - 128.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
128.7 - 139.9	MxF	band	Fol-mod	Felsic dominant gneiss, much less oxidized than previous unit, similar patches of moderate QSP alteration which are spread out further (1-1.5m instead of 0.05-0.3m). The QSP areas exhibit only a little bit of fracture controlled limonite, and contain up to 2% disseminated alt-related brassy pyrite (av. 1.5%). Thin near CA-parallel sooty py vein from 134.9-135.55.
		128.7 - 139.9	Pervasive Moderate Silicification	Patchy Moderate Sericitisation
139.9 - 142.4	MxM	band	Fol-mod	Mafic schist with two 25cm bands of felsic gneiss, relatively fresh compared to previous unit. 5cm patch of 7% pyrite at 140.25 - is not foliation parallel and spatially associated with a <1cm quartz vein. 1% disseminated metamorphic pyrite also present.
		139.9 - 142.4	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Pervasive Weak Leucoxene
142.4 - 142.7	IV	mass		Aphanitic mafic dike, cut by a stockwork of thin silica veinlets, locally created micro-crack breccia. Preserved down-hole contact.
		142.4 - 142.7	Pervasive Moderate Chlorite	
142.7 - 143.8	MxM	band	Fol-wk	QSP-altered mafic dominant gneiss with one oxidized portion in the middle: 143.17-143.55, exhibits disseminated limonite (av. 0.2%). No observed pyrite.
		142.7 - 143.8	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
143.8 - 150.0	BtS	band	Fol-mod	Biotite schist cut by <0.5cm to 2cm bull quartz veins with chaotic margins (some may have been pre-metamorphism?), rare hematite on fractures, 0.5% disseminated metamorphic pyrite. Unit exhibits chlorite after biotite, disseminated leucoxene, and rare epidote after fs bands
		143.8 - 150.0	Pervasive Weak Chlorite	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
150.0 - 154.5	MxM	band	Fol-mod	QSP-altered biotite schist with some felsic gneiss bands. Small crackle breccia with quartz-sericite matrix at 153.43. Unit contains trace amounts of disseminated sooty pyrite, 1% disseminated alt-related brassy pyrite, and fracture-controlled to locally disseminated limonite (av. 0.25%). Local moderate clay alteration of former feldspars.
		150.0 - 154.5	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
154.5 - 156.0	IV	phyr		Sericite-altered patchy-porphyritic andesite dike with vein-halo limonite and 0.5% vfg disseminated alt-related pyrite. Alteration wanes by the end of unit, showing the normal black aphanitic andesite the unit truly is.
		154.5 - 156.0	Pervasive Strong Sericitisation	Pervasive Moderate Silicification
156.0 - 168.5	FG	augn	Fol-mod	Felsic augen gneiss, moderately silicified, with 20-50cm patches of moderate sericite alteration associated with 2% brassy pyrite, also 1% disseminated metamorphic brassy pyrite elsewhere - av. 1.25%. Small andesite dike from 160.8-161, and a finger thin dike at 161.23
		156.0 - 168.5	Pervasive Moderate Silicification	Patchy Weak Sericitisation

168.5 - 174.9	MxF	band	Fol-wk	Zone. Mafic dominant gneiss, pervasively moderate QSP alteration. Limonite is generally concentrated around fractures but is disseminated from 168.6-171.2 (av. 0.25%). Unoxidized parts of the unit contain 1.5% disseminated brassy pyrite and 0.25% disseminated to vein-hosted sooty pyrite - disseminated sooties spike to 5% from 173.9-174.9
		168.5 - 174.9	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
174.9 - 176.5	BtS	band	Fol-mod	Biotite schist, strong chlorite after biotite, weak pervasive sericite and disseminated leucoxene, traces disseminated brassy pyrite.
		174.9 - 176.5	Replaces Mafics Strong Chlorite	Pervasive Weak Sericitisation Pervasive Weak Leucoxene
176.5 - 179.2	BtS	band	Fol-mod	Strong zone, former biotite schist that exhibits patchy intense clay, sericite, and moderate silica, and disseminated leucoxene. Pyrite fault from 177.5-178.2, mostly unconsolidated. Sooty sulphids averages 7% over the interval: dominantly disseminated but some 1 area of vein hosted sooties (178.2-178.6) associated with quartz-matrix crackle breccia.
		176.5 - 179.2	Patchy Intense Clay	Patchy Intense Sericitisation Pervasive Moderate Silicification
179.2 - 182.5	BtS	band	Fol-mod	Biotite schist, standard alteration suite of chlorite, epidote, and leucoxene. 0.2% disseminated brassy metamorphic pyrite. Cut by thin milky quartz veins at random angles to CA.
		179.2 - 182.5	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
182.5 - 185.4	MxM	band		Zone. Silica altered and mineralized biotite schist with some rare felsic augen gneiss. 1"-thick breccia vein at 183. Unit is moderately fractured to locally unconsolidated and exhibits 1% disseminated limonite and 0.25% disseminated hematite.
		182.5 - 185.4	Pervasive Moderate Silicification	Patchy Moderate Clay
185.4 - 187.4	HU	mass		Zone. Intensely silicified unit, most likely former gneiss but almost all textures are annihilated. Dominant sulphide is hematite, which is a combination of stockwork, disseminated, and vein-halo. Small silicified-clast breccia from 186.35-186.75, with 1-5mm subrounded clasts and clay-matrix supported. Av. 0.5% hematite, 0.1% limonite. Uncommon oxidized pyrite throughout.
		185.4 - 187.4	Pervasive Intense Silicification	Patchy Weak Clay
187.4 - 188.1	MV	mass		Large variably fractured bull quartz vein. Trace fracture-controlled limonite.
188.1 - 199.9	MxM	band	Fol-wk	Zone. Strongly to intensely silicified mafic dominant gneiss (thin bands typical of biotite schist still visible). Intense silicification creates 10-15cm intersections of HU. Consolidated angular-clast supported crackle breccia with white clay matrix from 192.8-193.05 and two probable unconsolidated silicified clast breccias 196.5-196.6 and 198.9-199. Average of 0.5 fracture controlled limonite and 0.5% vein halo hematite. 1% disseminated oxidized pyrite.
		188.1 - 199.9	Pervasive Strong Silicification	Fracture Controlled Weak Clay
199.9 - 203.5	BtS	band	Fol-mod	Zone shoulder. Altered and mineralized biotite schist with un-altered/mineralized intervals from 10-90cm in length. Unit exhibits moderate silicification and clay, generally pervasive save for the few unaltered horizons. Similar sulphide mineralization to previous unit but with slightly less limonite (0.25%).
		199.9 - 203.5	Pervasive Moderate Silicification	Pervasive Moderate Clay
203.5 - 209.5	MxM	band	Fol-wk	Zone. Strongly to intensely silicified mafic dominant gneiss, locally grading to HU over 10-30cm. Oxidation becomes transitional, and unoxidized regions exhibit moderate sericite alteration. Probable fold observed at 208.32m - very silica-rich interval with preserved foliation folds over completely in the core, with its apex on the ori-line. Limonite is both fracture-controlled and disseminated, and averages to 0.5%. Hematite is generally vein-halo to locally disseminated and is 0.25%.
		203.5 - 209.5	Pervasive Strong Silicification	Pervasive Weak Sericitisation
209.5 - 211.4	BtS	band	Fol-wk	Shoulder, biotite schist with 1 patch of 2% limonite in the middle (av. 1%). Unit exhibits moderate QS alteration and a near CA-parallel limonite vein from 210.5-210.9.
		209.5 - 211.4	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
211.4 - 220.2	MxM	band	Fol-wk	Last gasp of zone. Former mafic-dominant mixed gneiss (rare augens), unit exhibits strong to intense silicification, 0.25% fracture controlled limonite, trace vein halo hematite, and 0.5% disseminated brassy pyrite. Common near-CA parallel silica veins with locally developed stockworks and/or crackle breccia. Unoxidized windows exhibit QSP weak-moderate QSP alteration.
		211.4 - 220.2	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
220.2 - 227.4	MxM	band	Fol-mod	Biotite schist with pink felsic gneiss bands, silicification is strong in first two metres and gradually fades out to encompass only the felsic bands. Mafic units exhibit typical weak chlorite after biotite, epidote after feldspar. Trace fracture controlled limonite, trace disseminated brassy metamorphic pyrite.
		220.2 - 227.4	Replaces Felsics Weak Silicification	Patchy Weak Sericitisation Replaces Mafics Weak Chlorite
227.4 - 231.2	BtS	band		Biotite schist with locally strong clay alteration that is spatially associated with near-CA parallel quartz-limonite veins (av. 0.25%). Last 1.5m of unit exhibit 1% disseminated and fracture-controlled hematite. Other than the clay, the unit exhibits typical alteration.
		227.4 - 231.2	Fracture Controlled Strong Clay	Replaces Mafics Weak Chlorite Replaces Felsics Weak Epidote
231.2 - 234.4	MxF	augn	Fol-mod	Felsic-dominant mixed gneiss, trace fracture controlled limonite, local contortions of foliation, silicification of felsic bands.
		231.2 - 234.4	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite

234.4 -	236.4	MxM	band	Fol-mod	Zonelet. Mafic dominant mixed gneiss with 1.5% disseminated limonite. Unit exhibits contorted foliation, 0.5% vein halo hematite. Weakly silicified and clay altered.		
			234.4 - 236.4	Pervasive Weak Silicification	Pervasive Weak Clay		
236.4	239.0	BtS	band	Fol-mod	Biotite schist with patchy clay/limonite associated with veins/fractures, generally exhibits typical alteration suite. 0.5% fracture-controlled limonite, trace hematite.		
			236.4 - 239.0	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote	Pervasive Weak Leucoxene	

Drill Log: CFD0252

Easting	584249.94	Hole Length	320 m	Prospect	Supremo T3	Drill Started	Jun 28, 2012	Comment
Northing	6973950.75	Azimuth	277 °	Target	T3	Drill Completed	Jul 01, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1188.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 17.0	MxF	band		Mixed felsic gneiss, weathered friable rock. Possible local small intervals of fine-grain rounded clast, clay matrix breccias (1-2cm wide, and ~10cm long). Weakly mineralized rock with frac controlled lim 0.25% with hematite staining 0.25%. Unit exhibits moderate sericite & silica with weak patchy clay, epidote & chlorite alteration. Local thin (mm) limonite veins.
		6.0 - 17.0	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification Replaces Felsics Weak Epidote
17.0 - 17.9	SZ	lamn	Crenul	Shear zone, with strong crenulations. Partly mineralized with frac controlled lim 0.25%, associated with pervasive mod chlorite & possible weak clay alteration. Unit reacts with HCl over the entire interval of groundmass.
		17.0 - 17.9	Pervasive Moderate Chlorite	Patchy Weak Clay
17.9 - 28.0	BtS	lamn	Fol-mod	Biotite schist. Weakly mineralized with frac controlled lim & hem 0.15%. Unit contains moderate epidote replacing felsics, chlorite, with weak silica & sericite alteration. Small possible fault gouge located @ 24m where core loss has been recorded.
		17.9 - 28.0	Pervasive Weak Sericitisation	Patchy Weak Silicification Replaces Felsics Moderate Epidote
28.0 - 122.4	MxF	band	Fol-str	Mixed felsic gneiss, includes varying sizes of mafic bands. Selective mafic bands include weak epidote & chlorite alteration. Remainder of unit includes mod pervasive silica, sericite & weak patchy epidote alteration. Local long quartz veins (~1-2cm wide) that are roughly parallel TCA, and a small (mm) thin local hematite & limonite veins throughout. Mineralization includes: frac controlled lim & hem staining 0.2%, weathered/oxidized pyrite blebs and brassy pyrite 0.1% located in the mafic bands. Small quartz vein (2cm wide) with limonite selvage located at 91m. Long spanning from 84.63- 86.20m limonite clay infill vein roughly parallel TCA, detailed photo to follow. Small interval of monomictic silicified clast YO breccia located from 101.80-101.90m. Local interval of moderate frac controlled lim 0.5% with hematite staining 0.25% btw 109.82 - 110.14m.
		28.0 - 122.4	Pervasive Weak Chlorite	Replaces Felsics Weak Epidote Pervasive Moderate Silicification
122.4 - 135.7	FG	band	Fol-wk	Felsic gneiss, weak/moderate zone. Unit is composed of various alteration and sulphide intervals beginning with: moderate pervasive silica, albite, sericite & weak clay alteration, associated with frac controlled lim 0.5% with hematite 0.25% staining. Local intervals of moderate selective replacement clay, with moderate silica alteration associated with disseminated lim 1% & hem 0.5% staining; leading into strong disseminated lim 1.5% & hem 1%, associated with weak select clay, sericite, with mod/strong silica alteration. Small (7cm wide) sub-angular silicified hematite clay matrix supported clast breccia, detail photo to follow. Thin (mm) local limonite veins.
		122.4 - 128.4	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification Selective Repl Moderate Albite
		128.4 - 129.7	Pervasive Moderate Silicification	Selective Repl Moderate Clay
		129.7 - 131.0	Patchy Strong Silicification	Selective Repl Weak Clay Patchy Weak Sericitisation
		131.0 - 135.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Albite
135.7 - 158.5	MxF	band	Fol-str	Mixed felsic gneiss, small mafic bands. Unit is composed of fresh and altered gneiss. Fresh gneiss consists of moderate pervasive silica, weak sericite, albite & patchy epidote alteration, associated with weak frac controlled lim 0.25% & hem 0.25% staining. Local alteration window changes including: strong silicification, weak sericite, albite, & clay alteration, associated with disseminated lim 0.25% & hem 0.15% staining. Entire unit includes brassy pyrite 0.1%, with local thin (mm - 1cm) quartz veins & thin (mm) limonite veins.
		135.7 - 143.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Patchy Weak Epidote
		143.7 - 144.6	Pervasive Strong Silicification	Patchy Weak Sericitisation Selective Repl Weak Albite
		144.6 - 146.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Selective Repl Weak Albite
		146.7 - 148.7	Pervasive Strong Silicification	Patchy Weak Sericitisation Selective Repl Weak Albite
		148.7 - 158.5	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Selective Repl Weak Albite

158.5 - 161.2	BtS	lamn	Fol-str	Biotite schist, unmineralized. Moderate silica with weak sericite alteration. Weak frac controlled lim 0.1% & brassy pyrite 0.15%.
158.5 - 161.2			Pervasive Moderate Silicification	Patchy Weak Sericitisation
161.2 - 175.4	MxF	band	Fol-mod	Mixed felsic gneiss, mineralization and alteration window occurs at the bottom of the lith unit close to a dyke contact. Unit begins with strong pervasive silicification, weak selective replacement clay & sericite alteration. Weak frac controlled lim & hematite 0.15% staining with brassy pyrite 0.15%. Local interval of moderate selective clay, weak silica & sericite alteration, associated with disseminated lim & hem 0.5%, includes small local hematite veins (mm thin)
161.2 - 170.7			Pervasive Strong Silicification	Selective Repl Weak Sericitisation
170.7 - 175.2			Selective Repl Moderate Clay	Pervasive Weak Silicification
175.2 - 175.8			Pervasive Strong Clay	Patchy Weak Sericitisation
175.4 - 177.1	IV	fgrn		Andesite dyke. Unit starts with strong pervasive clay alteration associated with disseminated lim & hem 0.5%, leading to weak silica alteration & frac controlled lim & hem 0.1% with brassy pyrite 0.1%. Bottom of unit includes: strong clay alteration with disseminated lim & hem 0.25%. Local thin (mm) calcite veins throughout the dyke.
175.8 - 176.8			Pervasive Moderate Silicification	
176.8 - 177.1			Pervasive Strong Clay	
177.1 - 192.9	MxF	band	Fol-mod	Mixed felsic gneiss, composed of varying sizes of mafic bands. Unit is composed of strong felsic replacement with weak sericite, epidote & clay alteration, mafic bands exhibit moderate pervasive chlorite alteration. Entire unit is associated with weak frac controlled lim 0.1% with hematite staining 0.1%.
177.1 - 192.9			Replaces Felsics Strong Silicification	Selective Repl Weak Clay
177.1 - 192.9				Selective Repl Weak Epidote
192.9 - 200.6	FG	band	Fol-wk	Felsic gneiss. Unit exhibits moderate selective replacement clay, moderate silica & sericite alteration, associated with disseminated lim & hem 0.5%. Many local thin (mm) hematite veins & stringer veins.
192.9 - 200.6			Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
192.9 - 200.6				Selective Repl Moderate Clay
200.6 - 204.2	MxF	band	Fol-wk	Mixed felsic gneiss. Mafic bands include moderate chlorite alteration, while the remaining lith unit is composed of: strong silica, sericite & moderate albite alteration. Frac controlled lim 0.15% with hematite staining 0.15%.
200.6 - 204.2			Pervasive Strong Silicification	Pervasive Strong Sericitisation
200.6 - 204.2				Patchy Moderate Albite
204.2 - 209.6	FG	band	Fol-mod	Felsic gneiss, beginning of zone. Unit is composed of moderate silica, selective replacement clay, associated with disseminated limonite 1% & hematite staining 0.5%. Local interval of intense clay alteration, located where there was a significant amount of core loss ~ 208.25m - 209m, intense clay alteration is associated with strong disseminated limonite 1% & hem staining 1%. Local thin (mm) hematite veins.
204.2 - 208.3			Pervasive Moderate Silicification	Selective Repl Moderate Clay
208.3 - 209.0			Pervasive Intense Clay	
209.0 - 209.6			Pervasive Moderate Silicification	Selective Repl Moderate Clay
209.6 - 210.9	Yx	bx		Crackle breccia. Silicified clasts are comparable to wallrock alteration. Coarse-grain angular silicified clast supported limonite clay matrix breccia. Strong disseminated limonite & hematite 1.25%. Strong silica replaces clasts & clay replaces matrix alteration.
209.6 - 210.9			Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay
210.9 - 211.2	HU			Hydrothermally unrecognizable protolith. Moderate pervasive clay with weak patchy silica alteration. Strong disseminated lim & hem 1.25%, with local thin (mm) calcite veins.
210.9 - 211.2			Patchy Weak Silicification	Pervasive Moderate Clay
211.2 - 214.8	IV	fgrn		Andesite dyke. Unit begins with strong pervasive clay alteration associated with disseminated lim & hem 0.5%. The remainder of the unit has moderate silica alteration with weak fracture controlled lim 0.1% & brassy pyrite 0.1%. Local thin (mm) calcite veins throughout unit.
211.2 - 211.4			Pervasive Strong Clay	
211.4 - 214.8			Pervasive Moderate Silicification	
214.8 - 246.0	MxM	band	Fol-str	Mixed mafic gneiss. Unit is composed of: moderate silicification & weak sericite occurring in felsic intervals, with moderate patchy chlorite alteration occurring in mafic bands. Unit includes frac controlled lim 0.1%, 0.1% hematite staining, & fresh brassy pyrite 0.1%. Many thin (mm) local calcite veins throughout the unit.
214.8 - 246.0			Pervasive Moderate Silicification	Patchy Weak Sericitisation
214.8 - 246.0				Patchy Moderate Chlorite
246.0 - 252.2	MxM	silc	Fol-wk	Mixed mafic gneiss, strong - intense alteration. Unit is composed of strong sericite & silica, with weak selective replacement clay alteration. QSP, unit is associated with weak frac controlled lim 0.1%, sooty sulphide 0.5% with 0.25% brassy pyrite.
246.0 - 252.2			Pervasive Strong Silicification	Pervasive Strong Sericitisation
246.0 - 252.2				Selective Repl Weak Clay
252.2 - 254.7	IV	phyr		Porphyritic andesite dyke, strong alteration start of zone. Strong silicification & sericite alteration, associated with strong disseminated sooty sulphides & weak brassy pyrite 2% (QSP). Local thin (mm) calcite veins.
252.2 - 254.7			Pervasive Strong Silicification	Pervasive Strong Sericitisation

254.7 - 262.2	MxF	band	Fol-mod	Mixed felsic gneiss, strongly altered strong zone. QSP package, strong silica, sericite, with weak selective replacement alteration. Strong disseminated very fine-grain sooty sulphides & brassy pyrite 2.5% with weak frac controlled lim 0.5%.		
		254.7 - 262.2	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	Selective Repl Weak Clay
262.2 - 265.3	YC	bx		Silicified-clast breccia, strong zone. Fine to coarse-grained monomict clay matrix supported, rounded silicified clasts most likely felsic gneiss wallrock breccia. Strong silica replaces clast with intense clay alteration. Strong disseminated sooty sulphide & brassy pyrite 2%, disseminated lim 0.25%. Core has shown signs of oxidization after one night in the core shack, detailed photos to follow.		
		262.2 - 265.3	Replaces Clasts	Strong Silicification	Replaces Matrix Intense Clay	
265.3 - 268.8	HU			Hydrothermally unrecognizable protolith. Unit is composed of strong pervasive silicification with moderate selective replacement clay alteration. Moderate lim 0.75% with hematite staining 0.25% and 1% disseminated sooty sulphides. Local thin anastomising sooty sulphide veins.		
		265.3 - 268.8	Pervasive	Strong Silicification	Selective Repl Moderate Clay	
268.8 - 291.2	MxF	band	Fol-str	Mixed felsic gneiss, footwall rock & mineralization. Rock exhibits moderate silica, selective clay & weak sericite alteration. Disseminated & frac controlled lim 0.5% with 0.5% hematite staining with 0.1% brassy pyrite in non-oxidized intervals. Thin (mm) local hematite veins.		
		268.8 - 291.2	Pervasive	Moderate Silicification	Selective Repl Moderate Clay	Patchy Weak Sericitisation
291.2 - 320.0	MxF	band	Fol-str	Mixed felsic gneiss. Varying btw altered and fresh mixed gneiss. Fresh gneiss consists of mod silica with variable weak sericite and albite alteration, associated with frac controlled lim 0.15% and 0.15% hematite staining. Altered intervals are composed of moderate silicificatoin, selective replace clay alteration, associaed with frac controlled/disseminated lim 0.25% with 0.25% hematite staining. Local interval of strong silica and sericite alteration associated with frac controlled lim 0.5%. Fresh gneiss includes brassy disseminated pyrite 0.1%.		
		291.2 - 295.9	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	
		295.9 - 298.3	Pervasive	Moderate Silicification	Selective Repl Moderate Clay	
		298.3 - 299.9	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	
		299.9 - 302.2	Pervasive	Moderate Silicification	Selective Repl Moderate Clay	
		302.2 - 309.3	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	Patchy Weak Albite
		309.3 - 311.2	Pervasive	Moderate Silicification	Selective Repl Moderate Clay	
		311.2 - 312.9	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	Patchy Weak Albite
		312.9 - 313.5	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	
		313.5 - 320.0	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	

Drill Log: CFD0253

Easting	584315.98	Hole Length	221 m	Prospect	Supremo T3	Drill Started	Jul 01, 2012	Comment
Northing	6974450.13	Azimuth	277 °	Target	T3	Drill Completed	Jul 03, 2012	
Projection	UTM7-NAD83	Dip	-53 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1265.8 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 38.0	MxM	band	Fol-mod	Mixed mafic gneiss, composed of many various sizes of mafic bands. Weak frac controlled lim 0.1% with weak hematite staining 0.1%, FeO rims around pyrite cubes. Unit is composed of moderate silicification in felsic intervals while mafic intervals include mafic replacement chlorite & felsic replacement epidote alteration. Local various sizes of quartz veins (1-5cm wide).
		6.0 - 38.0	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Replaces Felsics Moderate Epidote
38.0 - 44.8	IV	phyr		Porphyritic andesite dyke, large porphyries, coarse-grain. Little to no mineralization, weak disseminated brassy pyrite 0.1%. Moderate replaces felsic silicification alteration.
		38.0 - 44.8	Replaces Felsics Moderate Silicification	
44.8 - 80.2	MxM	band	Fol-mod	Mixed mafic gneiss, composed of many various sizes of mafic bands. Weak frac controlled lim 0.1% with weak hematite staining 0.1%, FeO rims around pyrite cubes. Unit is composed of moderate silicification in felsic intervals while mafic intervals include mafic replacement chlorite & felsic replacement epidote alteration. Local pitted weathered sulphides in mafic bands. Felsic intervals exhibit augen texture. Local interval of increased sulphide concentration frac controlled lim 0.25% with 0.15% hematite staining from 68.25 - 71.90m.
		44.8 - 80.2	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Replaces Felsics Moderate Epidote
80.2 - 125.0	FG	augn	Fol-str	Felsic augen bearing gneiss. Weak frac controlled lim 0.15% with hematite staining 0.1%. Local thin (mm) limonite veins, and quartz veins. Alteration is composed of moderate silica, with weak patchy clay & sericite alteration. Local interval of increased mineralization, frac controlled lim 0.5% with 0.25% hematite staining associated with strong pervasive silica & weak selective replacement clay alteration, includes cross cutting hematite veins. Remainder of unit is has 0.25% frac controlled lim & 0.25% hematite staining with brassy 0.1% pyrite.
		80.2 - 116.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Clay
		116.2 - 120.1	Pervasive Strong Silicification	Selective Repl Weak Clay
		120.1 - 125.0	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Clay
125.0 - 146.2	MxF	band	Fol-mod	Mixed felsic gneiss, felsic intervals exhibit augen texture. Moderate silica, weak patchy sericite & epidote alteration. Majority of unit exhibits frac controlled lim 0.25% with hematite staining 0.15% & brassy pyrite 0.1%; except where there is a local interval of disseminated lim 0.75% with 0.5% hematite staining, associated with moderate silica, weak selective replacement clay & sericite alteration, large massive quartz vein located within this window of mineralization & alteration.
		125.0 - 142.8	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Epidote
		142.8 - 146.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation Selective Repl Weak Clay
146.2 - 149.4	MxM	lamn	Fol-wk	Mixed mafic gneiss, mafic/Bts dominated. Composed of moderate silica, sericite, & weak patchy chlorite alteration. Unit has weak fracture controlled lim 0.15% with fresh brassy pyrite 0.15%. Local thin (mm) calcite veins.
		146.2 - 149.4	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Chlorite
149.4 - 151.1	MxF	band	Fol-wk	Mixed felsic gneiss. Unit begins with strong 1% disseminated lim & 0.5% hematite staining. Alteration includes: moderate silica, & moderate pervasive clay. Local quartz veins.
		149.4 - 151.1	Pervasive Moderate Silicification	Pervasive Moderate Clay
151.1 - 156.1	MxM	augn	Fol-wk	felsic augen gneiss with rare bands of biotite schist. Unit exhibits silicification of felsic units and 10-30cm patches of QSP alteration. 0.2% fracture-controlled limonite, 0.5% disseminated brassy pyrite.
		151.1 - 156.1	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite

156.1 - 170.4	MxF	augn	Fol-wk	Dominantly felsic augen gneiss with rare bands of BtS, is strongly and pervasively silicified and exhibits clay after augens. Most of the unit is cut by thin clay veins and also exhibits ~1% disseminated hematite with 0.1% frac lim.
		156.1 - 170.4	Pervasive Strong Silicification	Replaces Felsics Moderate Clay Pervasive Moderate Sericitisation
170.4 - 174.0	YC	bxm		fine to coarse, subrounded to angular, dominantly clay matrix-supported silicified clast breccia. Some parts of the breccia exhibit fine-grained clasts and are clay matrix supported, others appear more like a crackle breccia with minimal clast rotation. Unit exhibits 0.5% disseminated limonite, 0.1% disseminated hematite.
		170.4 - 174.0	Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay
174.0 - 179.4	MxF	augn	Fol-wk	Felsic augen gneiss with stronger clay than that observed above the breccia - unit ends in ~30cm of unconsolidated material, likely broken up gneiss due to strong clay veining throughout. Unit has a greyer hue than previous mixed gneiss, and most of the limonite and hematite (0.5 and 0.25%, respectively) is vein-halo texture with some disseminated. Unit exhibits strong QSP and clay.
		174.0 - 179.4	Pervasive Strong Silicification	Fracture Controlled Strong Clay Pervasive Moderate Sericitisation
179.4 - 181.3	HU	mass		strong pervasive clay to intensely silicified unit, ends in ~40cm of MxF (can barely see foliation). Exhibits ~1.5% limonite and 1% hematite, disseminated.
		179.4 - 181.3	Patchy Strong Silicification	Patchy Strong Clay
181.3 - 187.8	MxF	augn	Fol-wk	Shoulder, weakly mineralized felsic dominant gneiss that exhibits pervasive moderate silicification, 0.25% disseminated limonite, 0.1% disseminated hematite. Local increase in sulphide (0.75% each disseminated limonite and hematite and av. trace sooty pyrite where unoxidized) from 185.75-186.75.
		181.3 - 187.8	Pervasive Moderate Silicification	
187.8 - 192.9	FG	augn	Fol-mod	Felsic gneiss, strong pervasive silicification with ~1m patches of weak sericite. 0.25% disseminated brassy pyrite, trace fracture-controlled limonite
		187.8 - 192.9	Pervasive Strong Silicification	Patchy Weak Sericitisation
192.9 - 195.0	FG	augn	Fol-mod	Weakly mineralized felsic gneiss, moderate pervasive silica, moderate clay in patches 10-50cm wide, 0.5% disseminated limonite and 0.1% vein halo hematite. Rare brassy pyrite where unoxidized.
		192.9 - 195.0	Pervasive Moderate Silicification	Patchy Moderate Clay
195.0 - 201.0	FG	augn	Fol-mod	Felsic gneiss, almost purple in colour, strongly pervasively silicified, trace fracture controlled limonite and trace disseminated brassy pyrite
		195.0 - 201.0	Pervasive Strong Silicification	
201.0 - 205.5	MxF	band	Fol-mod	Mineralized mixed gneiss, exhibits moderate pervasive clay and silica, 1% disseminated limonite and 0.25% vein-halo hematite. Unit is cut by limonite-hematite veins at shallow angles to CA. rare trace disseminated brassy pyrite where unoxidized.
		201.0 - 205.5	Pervasive Moderate Silicification	Pervasive Weak Clay Patchy Weak Sericitisation
205.5 - 211.2	MxF	augn	Fol-mod	Silicified felsic-dominant gneiss, 10-30cm patches of weak sericite alteration, weak clay after augens, trace fracture-controlled limonite, brassy pyrite has been oxidized.
		205.5 - 211.2	Pervasive Moderate Silicification	Replaces Clasts Weak Clay Patchy Weak Sericitisation
211.2 - 221.0	MxF	augn	Fol-mod	Similar silicified felsic gneiss, obvious 10cm bands of biotite schist, nit contains bull quartz veins and 1 carbonate vein with no association with mineralization but spatially associated with strong silicification. Schist bands have weak chlorite after biotite. Trace fracture controlled limonite, trace brassy pyrite.
		211.2 - 221.0	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0254

Easting	585075.13	Hole Length	236 m	Prospect	Double Double	Drill Started	Jul 02, 2012	Comment
Northing	6973300.7	Azimuth	188 °	Target		Drill Completed	Jul 05, 2012	
Projection	UTM7-NAD83	Dip	-71 °	Geologist		Core Size	HQ	
Survey method	RTK GPS	Elevation	1102.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVb			
5.0 - 32.8	MxM	band	Fol-mod	Biotite schist with 0.1-2m bands of pink felsic gneiss. Disseminated pyrite is 60% fresh 40% oxidized. Some pyrite also occurs in specific bands in the schist. Silica after augens in FG, epidote after fs and chl after bt in schist. Foliation locally contorted/folded (but no oris).
		5.0 - 32.8	Replaces Felsics Weak Silicification	Replaces Mafics Moderate Chlorite
32.8 - 34.0	IV	phyr		Weakly porphyritic andesite dike with vf groundmass and ghosts of phenocrysts.
		32.8 - 34.0	Pervasive Weak Silicification	
34.0 - 60.6	MxF	band		Felsic gneiss with biotite schist interbands. Unit exhibits sections of strong fracturing. Moderate silica after felsic bands, strong chlorite after biotite throughout, clay and hematite on fractures. Fresh to oxidized disseminated metamorphic pyrite dominantly found in mafic bands.
		34.0 - 60.6	Replaces Felsics Moderate Silicification	Replaces Mafics Strong Chlorite Fracture Controlled Weak Clay
60.6 - 69.3	MxF	band		Weakly mineralized felsic dominant gneiss. 0.5cm-thick bifurcating breccia vein at 63.35 with angular polymictic clasts. Limonite comes in fits and starts, usually over 1m or so, and averages 0.75%. Hematite occurs as a dusting around former feldspars (typical) and as vein halos likely the result of oxidation. Metamorphic and possibly alt-related pyrite are completely oxidized.
		60.6 - 69.3	Replaces Felsics Moderate Silicification	Pervasive Weak Clay
69.3 - 76.1	MxF	band	Fol-wk	Mineralized felsic-dominant gneiss: weak-moderate pervasive clay and silica, 1% disseminated limonite with 0.5% disseminated to vein-halo hematite. Pull-apart vein observed at 70.2-70.5, but no ori to get a good sense of motion.
		69.3 - 76.1	Pervasive Moderate Silicification	Pervasive Moderate Clay
76.1 - 87.2	MxF	band	Fol-mod	Felsic-dominant mixed gneiss: felsic bands are silicified and mafic bands exhibit moderate chlorite after bt/amph and epidote after fs. Unit is pervasively cut by limonite veins at random angles to CA, averaging about 0.25% - most veins occur in the felsic bands. From 78-79 the unit is strongly fractured and exhibits hematite and weak carbonate on fracture surfaces. Traces brassy metamorphic pyrite.
		76.1 - 99.6	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
87.2 - 99.6	MxF	band		Felsic-dominant mixed gneiss, is essentially the same unit as previous but without the limonite veins. Additionally, some of the disseminated brassy metamorphic pyrite is partially oxidized. From 98.3-99.9, felsic gneiss is moderately fractured with limonite on fractures: spatially associated with a quartz vein/clot from 99-99.2 with coarse fresh pyrite.
99.6 - 124.4	MxM	band		Mafic-dominant gneiss, mafic intervals show strong patchy epidote and moderate chlorite down to 109.9m, moderate sericite alt, mod chlorite and weak patchy epidote from 112.3-124.4m. Felsic intervals show strong silicification (100.8-101.5 and 109.9-122.6m). Frequent late calcite veining, cross-cutting foliation. Weak shear at 113.5-113.6m with minor crenulations. Blebs of leucoxene present from 115m to end of unit. Massive milky quartz vein from 121.45-121.80m. 0.1% fracture controlled limonite, 0.1% blebby pyrite.
		99.6 - 112.3	Replaces Mafics Moderate Chlorite	Patchy Strong Epidote
		112.3 - 124.4	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation
				Patchy Strong Silicification
				Patchy Weak Epidote

124.4 - 128.8	BtS			Zone; Highly altered biotite schist. Unit consists of an upper mineralized but transitional sub-unit (124.44-125.05m) with moderate silicification and strong sericite altn, with 0.25% FC hematite and 0.5% sooty sulphides (very fin-grained pyrite cubes), frequent quartz and carbonate veining with local hematitic selvedge. 125.05-127.10m consists of a highly oxidized moderate subunit with moderate patchy silicification, moderate clay, and moderate patchy sericite alteration, with 2.0% limonite and 0.5% fracture controlled hematite and around vein selvedge. Quartz-carbonate veining is present with limonitic and hematitc selvedges. 125.26-125.57m contains Fe-carbonate vein with limonitic to hematitc selvedges crossbut by later-stage drusy quartz veins with hematitic selvedge. Open space quartz at 125.76m. 125.76-126.30m weak brecciation of sub-rounded, silicified clasts in a clay-limonite matrix (XRF As 1456ppm at 126m). 126.3-127.19m moderate clay altered interval with weak deformation present as offset veins and crenulations. Moderate carbonate alteration present associated with veining. Hematite bleeding from 126.76-127.10m. Unit ends in a transition out of oxidation with weak clay replacement of feldspars.	
		124.4 - 125.1	Pervasive Moderate Silicification	Selective Repl Strong Sericitisation	
		125.1 - 127.1	Patchy Moderate Silicification	Pervasive Moderate Clay	Patchy Moderate Sericitisation
		127.1 - 128.8	Patchy Moderate Silicification	Replaces Felsics Weak Clay	
128.8 - 129.4	BtS			Moderately silicified foliated biotite schist with cross-cutting opaque quartz veinlets, dark grey. Weakly oxidized at 129.28-129.44m with 0.25% FC limonite bleeding out of fractures.	
		128.8 - 129.4	Pervasive Moderate Silicification	Selective Repl Strong Sericitisation	
129.4 - 130.1	HU		Fol-mod	Strongly silicificied and sericitized foliated unit (protolith probably biotite schist, visible in less altered windows), partly with RQM texture. Cross-cutting opaque to chalcedonic quartz veinlets, chalcedonic veinlets with limonitic selvedge (trace lim). Local (130-130.1m) 1% diss sooty sulphides (XRF As 1052 at 132m).	
		129.4 - 130.1	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
130.1 - 130.5	HU			Unrecognizable and strongly fractured unit with strong silicification and moderate FC clay, partly oxidized. Weak brecciation visible with rare silicified sub-rounded HU clasts and sub-angular clasts of milky qtz vein materai in an unrecognizable silicified matrix. 1.5% diss limonite (bleeding out of fractures), as well as unoxidized windows with 0.25% diss sooty sulphides.	
		130.1 - 130.5	Patchy Strong Silicification	Fracture Controlled Moderate Clay	
130.5 - 132.2	HU	silc		Intensely silicified and strongly sericite altered, grey unrecognizable with possible clast fragments (silicified). 2-3% disseminated sooty sulphides associated with very fine-grained brassy pyrite. Fracture controlled limonite (0.25%). Pyritic fault at 130.55m (XRF As at 514ppm). XRF As at 791ppm at 132m.	
		130.5 - 132.2	Pervasive Intense Silicification	Selective Repl Strong Sericitisation	
132.2 - 134.8	BtS			Biotite schist with minor epidote, mod chlorite and leucoxene alteration with zones of intense cross-cutting porcelainic qtz/calcite veining, with local hematitic selvedge. At 132.15-133m,133.34-133.77m and 134.45-134.80; in these zones foliation is either non-existent or crenulated, multiple orientations of each vein type (porcelainic qtz/calcite veining).	
		132.2 - 134.8	Selective Repl Weak Epidote	Replaces Mafics Moderate Chlorite	Selective Repl Weak Leucoxene
134.8 - 137.0	HU	silc		Intensely silicified and moderately sericitized unrecognizable unit, light grey to local dark grey, with chalcedonic quartz stringers. Trace sulphides: limonite in fractures (0.1%) and sooty sulphides (0.1% disseminated)	
		134.8 - 137.0	Pervasive Intense Silicification	Selective Repl Moderate Sericitisation	
137.0 - 137.5	RQM	qtz		Strongly silicified and strongly sericitized ribbon-quartz mylonite with calcite veins parallel to core axis with limonitic selvedge, wispy quartz veins and veinlets. Chalcedonic quartz vein breccia, 0.5 cm wide, at upper contact of unit. 0.25% limonite in selvedge.	
		137.0 - 137.5	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
137.5 - 140.0	HU	silc		Zone; strongly silicified unrecognizable unit with a dark grey to light grey mottled texture, weak clay and limonite on fractures. Brecciated from 138.15 to end of unit with fragments of opaque quartz vein material and silicified unrecognizable clasts, sub-angular to rounded, unrecognizable silicified matrix. Sulphide fracture controlled limonite (0.5%), 2-3% disseminated sooty sulphides throughout unit. Upper contact gradational from RQM, lower contact consists of a sharp oxidation front.	
		137.5 - 140.0	Pervasive Strong Silicification		

140.0 - 144.1	HU			Zone; possibly an oxidized continuation of above unit, strongly fractured with moderate patchy silicification, moderately to local strongly (142.5-143m) clay altered, weak foliation is locally visible (. Run 140-143m suffered severe core-loss (68% recovery) and has composite meter marks. 3% disseminated limonite and 1% dessiminated hematite down to 141.7m and at 143-144.05, otherwise 1% disseminated limonite and 0.25% FC hm. A strongly fractured and clay altered sub-unit at 142.5-143m contains fragments of brecciated rocks with sub-angular clasts of vein quartz material as well as unrecognizable clasts in a clay-limonite matrix. Dendritic manganese on some fractures.
140.0 - 142.5		Patchy Moderate Silicification		Pervasive Moderate Clay
142.5 - 143.0		Pervasive Strong Clay		
143.0 - 144.1		Patchy Moderate Silicification		Fracture Controlled Moderate Clay
144.1 - 145.4	HU	silc		Zone; strongly silicified and moderately sericite altered orange unrecognizable unit (possibly RQM, wispy quartz veins locally visible), oxidized. Possible clast fragments (silicified), weak foliation visible. Close to uni-directional porcelainic quartz veinlets with hematitic selvage, cross-cut by later stage carbonate stringers with hematitic selvage. 1% disseminated limonite and 0.25% hematite in fractures and vein selvage.
144.1 - 145.4		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay
145.4 - 148.5	HU			Zone; a continuation of unit above (possibly RQM), but with local unoxidized windows holding blebby pyrite, as well as trace sooty sulphides. Still dominated by oxide facies. Unit shows some deformation in offset and weakly brecciated opaque quartz veins, locally with surrounding vuggs (146.20m). 147.92-148.20m shows close TCA parallel carbonate veining, cross-cut by later porcelainic quartz veins both with hematitic selvage; interval also shows micro-brecciation surrounding some of these veins. Unit is weakly clay altered and shows strong but patchy silicification, with local moderate sericite altn. Up to 2% diss limonite and 1% diss hematite. Unit ends in a transition out of oxidation. XRF As 1113ppm at 147m.
145.4 - 148.5		Patchy Strong Silicification	Patchy Weak Clay	Selective Repl Moderate Sericitisation
148.5 - 151.6	BtS	Fol-wk		Biotite schist with moderate chlorite, local moderate sericite and leucoxene alteration. Weak foliation visible at 148.67-149.66 and 150.96-151.4m, with cross-cutting quartz veining. At 149.66-150.96m unit shows higher strain with weak crenulations and a short interval (150.76-150.96m) of ribbon-quartz mylonite. Close to LCA parallel to cross-cutting porcelainic quartz veining at 149.82-150.48m, locally brecciated with sub-angular to sub-rounded silicified clasts in a silicified limonitized matrix. 0.25% limonite and hematite in vein selvage and bleeding out of fractures. XRF As 253ppm at 150m (lim/hm bleeding around qtz veining). 0.1% blebby pyrite.
148.5 - 151.6		Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation	Selective Repl Weak Leucoxene
151.6 - 153.5	RQM	qtz	Fol-str	Ribbon quartz mylonite with strong silicification, strong sericite and weak leucoxene altn. High strain throughout unit, except for a local interval (152.2-152.53m) with weakly foliated BtS. Wispy quartz veins and veinlets, cross-cutting. Upper contact appears to consist of a fault with associated clay alteration, lower contact more gradual into less strained rocks. 0.1% FC limonite and 0.1% blebby pyrite.
151.6 - 153.5		Patchy Strong Silicification	Selective Repl Strong Sericitisation	Selective Repl Weak Leucoxene
153.5 - 155.6	HU	silc		Weakly oxidized unrecognizable unit (biotite-feldspar schist?), with strong pervasive silicification and weak sericite altn, weak clay in fractures and replacing feldspars. Stockwork style veining with stringers of qtz/calcite and rare sooty sulphide veinlets with limonitic selvage, local weak brecciation (Yx?) around stockwork veining with sub-angular clasts of opaque qtz vein material and silicified wall-rock(?) clasts. 0.25% limonite in vein selvage, bleeding out of fractures and lim-clay replacing feldspars; 0.01% sooty sulphides. 0.1% blebby pyrite.
153.5 - 155.6		Pervasive Strong Silicification	Selective Repl Weak Sericitisation	Fracture Controlled Weak Clay
155.6 - 158.8	BtS	silc		Biotite feldspar schist with minor epidote, strong silicification, and patchy strong sericite altn. Short interval with visible weak fabric defined by elongated feldspars (157.5-157.78m), otherwise fabric is non-existent. Intense cross-cutting veining (stringers and veinlets) of chalcedonic to opaque qtz and sericite. Strain is evident in intervals with weak brecciation at 155.6-157.9m; short intervals with rotated opaque qtz veins and millimeter scale sub-angular sub-rounded silicified clasts in sericite-silica matrix; brecciation seem to be associated with intervals with sericite veining. 0.01% FC lim and 0.1% blebby pyrite. Lower contact transitions into more oxidized rocks.
155.6 - 158.8		Pervasive Strong Silicification	Patchy Strong Sericitisation	Selective Repl Weak Epidote
158.8 - 159.6	Yx	bxi		Weakly brecciated unit, crackle breccia (protolith possibly RQM), with stockwork style veining of chalcedonic/opaque quartz and carbonate (?) stringers, all with limonitic selvage. Clast-supported, unrotated or slightly rotated angular clasts of wall-rock and slightly offset opaque quartz veins, limonite-clay-carbonate matrix. Moderate silicification and weak clay alteration in fractures and replacing feldspars. 0.5% limonite in breccia matrix and lim-clay replacing feldspars. 0.1% oxidized blebby pyrite.
158.8 - 159.6		Patchy Moderate Silicification		Fracture Controlled Weak Clay

159.6 - 165.1	RQM	qtz		Zone; ribbon-quartz mylonite with strong patchy silicification, weak clay replacing feldspars and in fractures, moderate patchy sericite altn. Upper contact is transitiona. Patchy oxidation, with windows of unoxidized rocks. Wispy quartz veins and veinlets, locally with up to 0.5 cm wide elongated feldspar augens (160-160.4m, 162.6-163m, 163.4-163.6m). Interval with slightly offset opaque quartz veins at 161.76-163.33m, up to 5cm wide; otherwise foliation parallel to cross-cutting opaque/chalcedonic quartz veins with limonitic selvedge. Fabric is visible throughout unit, with local weak crenulations (163.4-163.6m). Tension gaps at 163.83-164m. Sulphide content consists of 1% patchy limonite (bleeding out of fractures), 0.25% FC hematite, and 0.5% disseminated sooty sulphides in unoxidized windows and rare sulphide veinlets. Brassy pyrite is also present throughout the unit. XRF As at metermarks 495-3923ppm.	
		159.6 - 165.1	Patchy Strong Silicification	Fracture Controlled Weak Clay	Patchy Moderate Sericitisation
165.1 - 167.5	BtS	Fol-wk	Zone; mineralized mafic schist with strong silicification and moderate sericite altn, weak clay in fractures and replacing feldspars. Unit is weakly to moderately foliated. Upper contact is gradual and transitions into an interval with strong sooty sulphide veining (strongest at 165.10-165.86m, below which veining gets scarcer); in stringers and matrix-supported brecciated veins up to 2cm wide with strongly silicified and rare sericitized rotated subangular clasts (probably wall rock), in a dark very fine-grained sooty sulphide matrix (fine-grained brassy pyrite visible). XRF As spot checks yield up to 6780ppm within the wider veins. Unit also contains drusy to milky multi-directional quartz veins with lim-hm-carb selvedge. Feldspar augens present at 166.60-166.85 (up to 0.5cm wide, elongated). Overall 1-2% disseminated sooty sulphide in veins and small disseminations, 0.25% lim-clay replacing feldspars and in vein selvage, 0.5% FC hematite with strong bleeding out of fractures and in vein selvage, 0.1% blebby brassy pyrite. Unit ends with a gradual increase in teture destructive silica alteration. XRF As at 165 m at 2565ppm.		
		165.1 - 167.5	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay
167.5 - 170.2	HU	silc	Zone; Hgily altered oxidized unrecognizable unit, consisting of an upper sub-unit (167.54-169.44m) with intense silicification that has destroyed most textures (only local weak foliation remains). The sub-unit has a local vuggy texture created by lim-hm-clay replacing feldspars; 0.25% limonite and hematite in fractures and replacing feldspars. A slight loss of silicification (still strong) is visible between 168.44-168.82m where weak clay alteration is evident in a moderately fractured interval with an increase in limonite and hematite (0.5% FC lim and 0.5% FC hematite).The lower sub-unit (169.44-170.17m) is heavily fractured with moderate clay alteration and an increase in hematite content (up to 1% hm, still mostly in fractures associated with clay; 0.25% FC lim). The lower contact is sharp into more competent rock. XRF As at 170m at 509 ppm.		
		167.5 - 168.4	Pervasive Intense Silicification	Fracture Controlled Weak Clay	
		168.4 - 168.8	Pervasive Weak Clay	Patchy Strong Silicification	
		168.8 - 169.4	Pervasive Intense Silicification	Fracture Controlled Weak Clay	
		169.4 - 170.2	Pervasive Moderate Clay	Patchy Weak Silicification	
170.2 - 173.4	BtS		Zone; mineralized mafic schist consisting of two upper and lower oxidized sub-units (170.17-170.9m and 172.4-173.4m), and a medial transitional sub-unit. Silicification increases from weak at 170.17m to intense 170.90m over a weakly clay altered interval with weal foliation visible, 0.5% FC lim and hm. Intense silicification and strong sericite from 170.9-172.4m, with frequent stringers and veinlets of sooty sulphides as well as in small disseminations (2% disseminated) and 0.25% FC hm. Fracture planes (veins?) close to LCA contain both sooty sulphides and oxidized pyrite (hm). Rare drusy quartz veins. From 172.4-173.4m the unit is once more oxidized with moderate patchy silicification, moderate Fe-carb alteration and moderate FC clay; 1% disseminated limonite and 0.5% FC hematite. Lower contact is sharp into unconsolidated rocks.		
		170.2 - 170.9	Pervasive Weak Clay	Pervasive Weak Silicification	
		170.9 - 172.4	Pervasive Intense Silicification	Selective Repl Strong Sericitisation	
		172.4 - 173.4	Fracture Controlled Moderate Clay	Pervasive Moderate Fe-carb	Patchy Weak Silicification
173.4 - 176.3	HU		Zone; highly broken up and clay+/- carbonate altered unrecognizable unit, local strong silicification. At 173.4-174.20m there is a strongly Fe-carb and clay altered sub-unit with a partly mottled texture and what appears to be hematite veining in between broken up clasts, as well as calcite veining in a slightly more intact zone (at end of sub-unit). Possibly a polymictic clay-carbonate matrix-supported breccia at 174.20-174.6m in highly broken up interval, with angular to sub-rounded HU clasts (at least two kinds of clasts), some highly silicified, ranging 2-20mm. A more intact interval stretches from 174.6-175.25m showing stockwork style calcite veining with local brecciation within the veins (slightly rotated angular HU clasts). Strong silicification and weaker Fe-carb altn at 175-175.25m, from 175.25m carbonate alteration is weak. At 175.25-175.5m the unit grades into a short interval of unconsolidated possibly polymictic limonite-clay matrix supported breccia, with subangular HU clasts; darker larger clasts (up to 20mm) with weak silicification, and orange silicified clasts up to 5mm across. From 175.5-176.3m the unit is broken up with patches of strong clay alteration as well as a short interval (175.77-176m) of strong silicification. Lower contact consists of a sharp transition into slightly more competent rocks. Overall 1% disseminated limonite and 1.5% disseminated hematite		
		173.4 - 175.0	Patchy Strong Clay	Pervasive Strong Fe-carb	
		175.0 - 175.3	Pervasive Strong Silicification	Vein Selvedge Moderate Fe-carb	
		175.3 - 176.3	Patchy Strong Clay	Patchy Strong Silicification	Patchy Weak Fe-carb

176.3 - 183.9	BtS			Zone; mineralized and oxidized hematitic mafic schist with moderate to strong patchy silicification and weak to moderate FC clay alteration, highly fractured. Remnant foliation is visible throughout unit. Frequent offset opaque quartz veins give an indication of deformation within the unit. At 180-180.3m the unit shows shear along a plane close to LCA parallel, with a slight bend in the general fabric and minor crenulations; interval is associated with moderate pervasive clay alteration and loss of silicification. Frequent hematite stained pyrite cubes. 1.5% diss hematite, 0.5% FC limonite. XRF As up to 1797ppm (183m). Unit ends in sharp transition into increased qtz-hm veining.
		176.3 - 180.0	Patchy Strong Silicification	Fracture Controlled Moderate Clay
		180.0 - 180.3	Pervasive Moderate Clay	
		180.3 - 183.9	Patchy Strong Silicification	Fracture Controlled Weak Clay
183.9 - 187.0	HU	silc		Zone; possibly a continuation of unit above, but strong silica alteration, moderate FC clay and strong silica-hematite +/- calcite veining (stockwork style) has destroyed almost all textures (remnant weak foliation visible in a broken up interval at 185.55-185.70m). Unit is strongly fractured between 185.35-186.5m. Possibly minor sooty sulphides as vein selvage in a weakly brecciated opaque qtz vein at 185.12m; angular slightly rotated silica-lim-hm altered HU clasts in silicified unrecognizable matrix (minor sooty sulphides, 0.1% overall). Frequent selective lim-hm-clay replacment of pyrite (and possibly feldspars). Overall 0.5% limonite (dominantly FC) and 1% hematite in fractures and as vein selvage. Lower contact grades out of oxidation into a transitional zone.
		183.9 - 187.0	Pervasive Strong Silicification	Fracture Controlled Moderate Clay
187.0 - 190.5	BtS	silc	Fol-wk	Zone; mineralized partly oxidized mafic schist with strong patchy silicification, moderate patchy sericite alteration and weak patchy/FC clay. Unoxidized windows with disseminated sooty sulphides (1%), alternating with intervals of oxidation with strong hematite (overall 2% patchy) and weaker limonite (0.5% FC). Unit is moderately Fe-carb altered, probably related to stringers and veinlets of quartz with hm-Fe-carb selvage with multiple directions (from close to LCA to 45 degrees). Unit ends in a more consistently oxidized and strongly hematitic interval at 190.2-190.46m, where silicification decreases to weak and clay alteration is weak but pervasive. XRF As 3891ppm at 190m.
		187.0 - 190.2	Patchy Strong Silicification	Patchy Moderate Sericitisation
		190.2 - 190.5	Patchy Weak Silicification	Pervasive Weak Clay
				Patchy Weak Clay
				Vein Selvage Weak Fe-carb
190.5 - 191.0	HU	silc		Zone; intensely silicified unrecognizable unit. Possible fault plane or breccia vein at 190.54m (around 37 to LCA), with lim-hm-carbonate matrix in fracture; micro-brecciation around edges. Stockwork quartz veining at 190.55-190.7m, locally with carbonate selvage. Offset opaque quartz veins at 190.80m; possibly weak brecciation with slightly separated angular quartz clasts in a lim-clay matrix. Unit has a vuggy texture with lim-clay-Fe-carb replacement of feldspars (?). Unit ends in a heavily fractured interval, with a slight increase in FC hematite towards the end of the unit. Overall 0.5% patchy limonite and 0.5% Fc hematite. Possibly trace sooty sulphide in very small unoxidized windows (0.01%). XRF As 764ppm at 191m.
		190.5 - 191.0	Pervasive Intense Silicification	Selective Repl Weak Clay
				Selective Repl Weak Fe-carb
191.0 - 191.4	HU			Zone; strongly fractured, strongly silicified and moderately clay altered unrecognizable unit. Fracture planes show weak hematite (0.25%), otherwise 1% diss limonite. XRF spot check at 191.35 at 1195ppm As. Lower contact is diffuse within the fractured interval, but with an increase in FC hematite that is also found in underlying unit.
		191.0 - 191.4	Patchy Strong Silicification	Fracture Controlled Moderate Clay
191.4 - 192.4	YO	bxi		Zone; a highly altered unit that has undergone at least three stages of brecciation: first stage consists of an in-situ, clast-supported immature monomictic breccia, with un-rotated to slightly rotated strongly silicified angular HU clast in a calcite-hematite aphanitic matrix (95% clasts, 5% matrix). Second stage of weak brecciation consists of calcitic-limonitic stringers crosscutting brecciated clasts. Third stage brecciation consists of a calcitic breccia vein at 192.16-192.21m, containing slightly rotated brecciated angular clasts (from previously described breccia) in a calcite matrix, cross-cut by second stage brecciation. Overall strong silicification (possibly overprinting earlier albite alteration), moderate calcite alteration in veins. 0.25% limonite and hematite in stringers and breccia matrix.
		191.4 - 192.4	Pervasive Strong Silicification	Pervasive Weak Clay
				Fracture Controlled Moderate Calcite
192.4 - 192.7	BtS			Zone; strongly altered mafic schist with strong patchy silicification, mod clay, mod chlorite and weak pervasive carbonate. (close to HU). Multi-directional calcite-lim-hm veinlets and stringers. Strong hematite staining at top of unit. 0.5% patchy hm and 0.25% lim in vein selvage. Trace brassy blebby pyrite.
		192.4 - 192.7	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite
				Patchy Moderate Clay
192.7 - 192.8	HU			Zone; strongly silicified and weakly clay altered unrecognizable unit. Stockwork calcite-hematite veining. 0.5% hm in vein selvage
		192.7 - 192.8	Pervasive Strong Silicification	Pervasive Weak Clay
192.8 - 195.6	BtS	silc	Fol-wk	Transitional weak zone; weakly mineralized mafic schist with patchy oxidation and strong QSP alteration visible in unoxidized windows (patchy), and weak lim-clay-carb alteration of feldspars and in fractures. 0.25% patchy limonite and 0.25% FC hematite. 0.01% fine-grained brassy pyrite in unoxidized windows (Trace sooty sulphides). Multi-directional calcite stringers with limonitic selvage.
		192.8 - 195.6	Pervasive Strong Silicification	Patchy Strong Sericitisation
				Selective Repl Weak Clay

195.6 - 196.1	BtS			Unmineralized chlorite altered biotite schist, with moderate leucoxene alteration and calcitic veinlets cross-cutting foliation. 0.1% brassy pyrite
195.6 - 196.1		Replaces Mafics Moderate Chlorite	Selective Repl Moderate Leucoxene	
196.1 - 198.8	BtS	silc	Fol-wk	Weakly mineralized mafic schist with strong patchy silicification, moderate patchy sericite, weak clay replacing feldspars and moderate FC carbonate altn. Weakly brecciated quartz veins at 198-198.26, with angular quartz clasts in a lim-carb matrix. 0.5% FC lim and 0.25% Fc hm. Multi-directional carbonate stringers with limonitic-hematitic selvage. 0.1% blebby pyrite. Fractured interval at 197.37-197.77m, with mod carbonate on fracture surfaces
196.1 - 198.8		Patchy Strong Silicification	Patchy Moderate Sericitisation	Fracture Controlled Moderate Fe-carb
198.8 - 202.2	BtS	silc	Fol-mod	Mafic schist with strong intense QSP alteration down to 202.2m, then strong pervasive silicification and moderate patchy sericite to end of unit over an interval with strong patchy hematite staining of feldspars. Trace limonite, 0.1% blebby pyrite. Frequent multi-directional chalcedonic to opaque quartz veins with calcitic to limonitic selvage selvage cross-cutting foliation. Top of unit contains an interval (199-199.30m) with close to RQM texture.
198.8 - 200.2		Pervasive Intense Silicification	Selective Repl Strong Sericitisation	
200.2 - 202.2		Pervasive Strong Silicification	Patchy Moderate Sericitisation	
202.2 - 207.7	RQM	silc	Fol-str	Strongly silicified and sericite altered ribbon-quartz mylonite. Wispy quartz veins making up strong foliation. Moderate sericite veining, locally with trace sooty sulphides (204.20m). Weakly brecciated quartz vein at 204.24m, brecciated by a set of sericite stringers going through the quartz vein, weakly limonitic matrix. 0.1% blebby pyrite and 0.1% FC limonite. Unit ends in less altered mafic dominated gneiss.
202.2 - 207.7		Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
207.7 - 216.7	MxM		Fol-mod	Mafic dominated gneiss with moderate chlorite alteration, weak leucoxene altn and patchy moderate silicification. 0.1% blebby pyrite. Foliation parallel qtz veins (up to 30 mm wide), and frequent multi-directional qtz/calcite stringers (dominant direction close to LCA). Weak shear visible throughout unit with weak crenulations. Close to LCA parallel drusy quartz vein at 212.66m, mod QSP alteration at 212.66-213.17m. Shear at 213.35-213.7m with moderate crenulations and weak epidote.
207.7 - 212.7		Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification	Selective Repl Weak Leucoxene
212.7 - 213.2		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	
213.2 - 216.7		Replaces Mafics Moderate Chlorite	Patchy Weak Epidote	
216.7 - 217.6	BtS	silc		Mafic schist with strong silicification, mod sericite and weak FC clay. Deformed interval with frequent calcitic stringers with hm selvage, trending around 60 degrees to LCA. Weak hematite staining (0.25%) and 0.1% brassy pyrite.
216.7 - 217.6		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	
217.6 - 221.9	BtS		Fol-str	Biotite schist with weak silicification, mod chlorite and weak epidote. Frequent foliation parallel to low angle calcitic veins and veinlets. Weak hematite in fractures (0.1%), 0.1% blebby pyrite.
217.6 - 220.6		Patchy Weak Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote
220.6 - 221.9		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote
221.9 - 228.0	SZ		Crenul	Shear zone with strongly chloritized biotite schist, weak patchy epidote. Weakly calcitic due to frequent calcite veining. Strongly sheared and broken up at 221.87-223.44 and 224.8m, with wavy low angle to LCA parallel shear along planes defined by chlorite fabric (also chlorite gauge along fracture planes), intervals are also moderately to strongly crenulated. At 226-227 the unit contains porphyroclasts; sub-rounded to rounded clasts of feldspars and vein quartz. Unit ends in a moderately silicified interval at 227.4-228m, lower contacts marks end of major shear deformation (low angle margin). 0.25% blebby pyrite and trace (0.01%) FC hm.
221.9 - 227.4		Replaces Mafics Strong Chlorite	Patchy Weak Epidote	
227.4 - 228.0		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote
228.0 - 229.3	BtS	silc	Fol-wk	Moderately QSP altered biotite schist with weak FC clay and 0.1% FC lim and trace blebby pyrite.
228.0 - 229.3		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay

229.3 - 236.0	BtS	Fol-mod	Biotite schist with weak chlorite. Weak FC clay from 233.5-236m, with associated 0.1% FC lim as well as lim-clay replacing feldspars. 0.1% blebby pyrite. Brecciated qtz-calcitic vein at 233.2-233.3m, with angular BtS clasts in qtz-calcite matrix.		
229.3 - 233.5		Replaces Mafics Weak Chlorite	Patchy Weak Epidote		
233.5 - 236.0		Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite	Patchy Weak Epidote	

Drill Log: CFD0255

Easting	584311.11	Hole Length	212 m	Prospect	Supremo T3	Drill Started	Jul 03, 2012	Comment
Northing	6974501.15	Azimuth	275 °	Target	T3	Drill Completed	Jul 05, 2012	
Projection	UTM7-NAD83	Dip	-55 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1264 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 23.4	MxF	augn	Fol-mod	Mixed gneiss, felsic dominant, with a small clay altered section (6m-6.75m), some narrow mafic bands, mod silic replacement of felsic minerals and weak chlo replacement of mafic minerals. Moderate foliated.
		6.0 - 23.4	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
23.4 - 37.0	MxM	band	Fol-mod	Mixed gneiss, mafic dominant with small felsic bands. Mod chlo replace mafic and weak silic replace felsic, weak leucoxene diss. Trace of fresh py frac cont and trace of oxidized py diss. Local 0.4% frac cont lim.
		23.4 - 37.0	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Silicification Pervasive Weak Leucoxene
37.0 - 53.7	MxF	band	Fol-mod	Mixed gneiss, felsic dominant with 0.4% local frac cont lim. Some cm to dm mafic bands, mod silic replace felsic and weak chlo replace mafic. Mod foliated. Trace of oxidized py diss. Trace of 1cm epidote vein. 46.7-47.9m, strong silic perv.
		37.0 - 53.7	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
53.7 - 73.9	MxF	augn	Fol-mod	Dominantly felsic augen gneiss, with rare small bands of bts-chlo. Small local zone of strong pervasive silicification, mod silic repl felsic in general, weak chlorite frac cont and replacement mafic, bull quartz vein at 54.5m.
		53.7 - 73.9	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Chlorite
73.9 - 81.0	IV	phyr	Fol-wk	Porphyritic andesite dyke, 15% felspar phenocrysts, coarse-grain (3 to 5 mm), Mod mineralization at 77.5-78.9ft ; mod pervasive and frac cont limonite, and mod clay phenocrysts alteration. Sericite-illite contact altered with mod frac cont limonite.
		73.9 - 80.5	Replaces Clasts Moderate Clay	Replaces Felsics Moderate Silicification
		80.5 - 96.3	Pervasive Moderate Sericitisation	Replaces Felsics Moderate Silicification Selective Repl Weak Clay
81.0 - 116.4	FG	augn	Fol-mod	Felsic gneiss, mod sericite-illite alteration with weak selective replacement of feldspars by clay alteration(81- 96.3ft), and lower core has mod to strong perv silicification. Trace of frac cont limonite, and disseminated hm. Trace of oxidized disseminated py and frac cont fresh dark grey hm. Weak clay altered feldspar.
		96.3 - 104.6	Replaces Felsics Moderate Silicification	Pervasive Weak Sericitisation
		104.6 - 106.6	Replaces Felsics Moderate Silicification	Pervasive Moderate Albite Fracture Controlled Weak Sericitisation
		106.6 - 116.4	Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Sericitisation
116.4 - 119.6	MxF	augn	Fol-mod	Mixed gneiss, felsic dominant, mod silic replacement of felsic minerals, moderate fractures controlled chlorite and weak disseminated biotite concentrated in some bands of chlorite-biotite. 0.3% of frac cont and disseminated limonite.
		116.4 - 119.6	Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Chlorite Fracture Controlled Weak Biotite

119.6 - 139.6	FG	augn	Fol-mod	Felsic gneiss, mod silic replacement of felsic minerals, weak to mod frac cont sericite and weak selective replacement of feldspars by clay alteration. 0.3% of frac cont and disseminated limonite. Increase of limonite to 1% around 134m.		
119.6 - 129.3			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Sericitisation		
129.3 - 139.6			Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Sericitisation	Selective Repl Weak Clay	
139.6 - 143.7	FC	fgrn	Mod zone, dacite dyke, fine grains, really oxidized and really softer than the felsic gneiss. Moderate pervasive clay alteration. 2% of disseminated limonite.			
139.6 - 143.7			Pervasive Moderate Clay			
143.7 - 144.4	YC	Clast	Mod zone, small mineralized and altered breccia with silicified clasts supported, upper contact is gradational and lower contact is faulted, medium to coarse grained clasts, matrix is made of rock flour.			
143.7 - 144.4			Fracture Controlled Strong Clay	Replaces Felsics Moderate Silicification		
144.4 - 145.2	FC	fgrn	Mod zone, dacite dyke, fine grains, really oxidized and really softer than the felsic gneiss. Moderate pervasive clay alteration. 2% of disseminated limonite.			
144.4 - 145.2			Pervasive Moderate Clay			
145.2 - 147.1	YC	matx	Mod zone, mineralized and altered breccia with mostly silicified clasts supported, medium coarse grained. Foliation is weak present. The composition of clasts is mostly made of quartz and feldspar and the lower part of the breccia is patchy strongly silicified. Upper contact is sharp and lower contact is irregular. Seems to have an irregular small sheared dyke at 147m.			
145.2 - 147.1			Fracture Controlled Moderate Clay	Replaces Felsics Moderate Silicification		
147.1 - 151.4	FG	augn	Fol-mod	Felsic augen gneiss, moderate selective replacement of feldspar by clay alteration and moderate silicification replacement of felsic minerals, 0.75% fracture controlled limonite and 0.1 hematite. Trace of oxidized pyrite.		
147.1 - 151.4			Replaces Felsics Moderate Silicification	Selective Repl Weak Clay	Fracture Controlled Moderate Sericitisation	
151.4 - 163.0	FG	augn	Fol-mod	Felsic augen gneiss, moderate silicification replacement of felsic minerals, weak fracture controlled sericite and epidote. 0.2% of limonite and 0.4% of hematite controlled by fractures. Small 3cm wide dyke.		
151.4 - 163.0			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Epidote	
163.0 - 173.1	FG	augn	Fol-mod	Felsic augen gneiss, weak selective replacement of feldspar by clay alteration, moderate silicification replacement of felsic minerals and moderate sericite, 0.75% fracture controlled limonite and 0.1 hematite.		
163.0 - 173.0			Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Sericitisation	Selective Repl Weak Clay	
173.0 - 184.2			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Sericitisation	Fracture Controlled Weak Epidote	
173.1 - 184.2	FG	augn	Fol-mod	Felsic augen gneiss, moderate silicification replacement of felsic minerals, weak fracture controlled sericite and epidote. 0.2% of limonite and 0.3% of hematite controlled by fractures. Small section with strong pervasive silicification at 174m. Trace of specular hematite (180-181m) in the edge of fine carbonate veins whom present the same direction but discordant with the general foliation.		
184.2 - 199.0	FG	augn	Fol-mod	Mod zone, felsic augen gneiss, weak selective replacement of feldspar by clay alteration, moderate silicification replacement of felsic minerals and moderate sericite, 1% fracture controlled and disseminated limonite and 0.1% hematite.		
184.2 - 199.0			Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Sericitisation	Selective Repl Weak Clay	
199.0 - 212.0	FG	augn	Fol-mod	Felsic augen gneiss with one band (30 cm wide) of chlorite in replacement of mafic minerals, moderate silicification replacement of felsic minerals, weak fracture controlled sericite. 0.1% of limonite and 0.2% of hematite controlled by fractures. And trace of fresh disseminated pyrite in the chlorite band.		
199.0 - 212.0			Replaces Felsics Moderate Silicification	Fracture Controlled Sericitisation	Replaces Mafics Weak Chlorite	

Drill Log: CFD0256

Easting	585074.51	Hole Length	299.52 m	Prospect	Double Double	Drill Started	Jul 05, 2012	Comment
Northing	6973325.54	Azimuth	178 °	Target		Drill Completed	Jul 08, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1107.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.5	OVb			Overburden. Mafic dominated mixed gneiss with local vuggy texture and weak chlorite altn.
		0.0 - 6.5	Replaces Mafics Weak Chlorite	
6.5 - 42.4	MxM	band		Mafic dominated mixed gneiss with short (up to 1.5m) intervals of pink felsic gneiss, locally augen-bearing. Weak patchy silicification, weak chlorite after mafics and weak patchy epidote in bands. 0.1% brassy to partly oxidized pyrite and trace FC lim and hm (0.01%). 0.1% milky quartz veins up to 6cm wide, sub-parallel to foliation.
		6.5 - 42.4	Patchy Weak Silicification	Replaces Mafics Weak Chlorite Patchy Weak Epidote
42.4 - 48.7	BtS	band	Fol-mod	Biotite schist with local band of pink felsic gneiss at 47.2-47.80m. Unit is moderately chlorite altered (after mafics) and show strong patchy epidote alteration in pale green bands and blebs (strongest at 42.5-44.7 and 45.85-46.7m). Weak to moderate FC clay from 47.8-48.74m. Foliation is locally slightly contorted, and offset quartz veins (milky to porcelainic) also indicate some deformation within the unit. 0.1% disseminated pyrite, mostly oxidized (70% ox, 30% fresh). Unit ends in a 6cm long interval of strong clay (fault?). Trace FC lim. Unit effervesces, probably due to frequent calcite in stringers and veinlets in fine stockworks.
		42.4 - 46.7	Replaces Mafics Moderate Chlorite	Patchy Strong Epidote
		46.7 - 47.8	Patchy Weak Silicification	Replaces Mafics Moderate Chlorite
		47.8 - 48.7	Fracture Controlled Weak Clay	Replaces Mafics Moderate Chlorite Selective Repl Moderate Epidote
		48.7 - 48.7	Pervasive Strong Clay	Replaces Mafics Moderate Chlorite
48.7 - 55.7	BtS	band	Fol-mod	Biotite schist with weak chlorite alteration, weak pervasive silicification, weak leucocoxene and moderate calcite alteration. Weak Calcite veining, locally with limonitic selvage, multi-directional. Trace limonite in fractures and in vein selvage, 0.1% disseminated fresh pyrite. Unit effervesces, probably due to frequent calcite in stringers and veinlets in fine stockworks.
		48.7 - 55.7	Replaces Mafics Moderate Chlorite	Pervasive Weak Silicification Selective Repl Weak Leucocoxene
55.7 - 66.0	MxM	band		Mafic dominated mixed gneiss. Broken up interval that effervesces moderately; frequent calcite veining (stringers to veinlets), locally with limonitic selvage. Weak to moderate FC clay, moderate chlorite altn and patchy weak epidote. Weak shear at 62.5m, with minor crenulations. 0.1% disseminated pyrite, mostly oxidized. 0.1% lim and hm in fractures and as vein selvage.
		55.7 - 66.0	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote Fracture Controlled Weak Clay
66.0 - 89.3	BtS	band	Fol-mod	Biotite schist, locally with up to 2mm wide feldspar augens. Weak patchy silicification, moderate chlorite and weak patchy epidote. Very weak leucocoxene. Some deformation within unit evident in slightly offset quartz veins. Frequent calcite stringers and veinlets; unit effervesces weakly throughout. 0.1% brassy to partly oxidized pyrite. Trace limonite on fractures. Unit ends in a highly strained and QSP altered 12 cm long interval of RQM above a feldspar porphyry dyke.
		66.0 - 89.2	Patchy Weak Silicification	Replaces Mafics Weak Chlorite Patchy Weak Epidote
		89.2 - 89.3	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
89.3 - 94.3	IV	phyr	Fol-wk	Porphyritic andesite dyke with black aphanitic groundmass, weakly foliated. Strong silicification, weak chlorite. Feldspar phenocrysts (up to 15mm across) locally show weak K-feldspar/plagioclase zonation. 0.1% FC lim and hm. Frequent calcite-sericite stringers and veinlets, multi-directional. Lower contact is sharp into foliated BtS.
		89.3 - 94.3	Pervasive Strong Silicification	Replaces Mafics Weak Chlorite Vein Selvage Weak

94.3 - 95.6	BtS	band	Folded	Biotite schist; green, mod chlorite, weak silicification, with intervening intervals of muscovite rich ribbon quartz mylonite; wispy quartz veins strong silicification.
94.3 - 95.6			Patchy Strong Silicification	Replaces Mafics Moderate Chlorite
95.6 - 96.9	MxF			Felsic dominated mixed gneiss (?). Upper contact is diffuse from overlying BtS unit. At 95.64-95.93 the unit is strongly silicified and shows brecciation around a quartz vein, with separated clasts of FG and BtS with intervening milky quartz. From 95.93-96.85m the unit is strongly fractured, and brecciated at 96.63-96.85m with angular clasts of BtS and possibly the underlying dyke in a lim-carb-hm matrix, clast-supported. Lower contact is transitional into a porphyritic dyke. 0.25% hm in breccia matrix and fractures.
95.6 - 96.9			Patchy Strong Silicification	Patchy Moderate Clay Replaces Matrix Moderate Calcite
96.9 - 97.7	IV	phyr		Porphyritic andesite dyke with black aphanitic groundmass. Strong silicification, weak FC clay. Feldspar phenocrysts (up to 10mm across) locally show hematite staining; 0.25% lim and hm in fractures and staining feldspar phenocrysts. Unit is effervesces strongly, with calc-lim-hm in fractures and stringers. Lower contact is sharp into foliated BtS.
96.9 - 97.7			Patchy Strong Silicification	Fracture Controlled Weak Clay Fracture Controlled Moderate Calcite
97.7 - 97.8	BtS	band	Fol-mod	Biotite schist with mod chorite and weak silicification. 0.1% FC lim. Stockwork of fine calcite stringers makes the unit effervesce moderately.
97.8 - 99.2	IV	phyr	Fol-wk	Porphyritic andesite dyke with black aphanitic groundmass. Strong silicification, weak chlorite. Feldspar phenocrysts up to 10mm across, weak K-feldspar/plagioclase zonation. Lower contact sharp into foliated BtS/RQM.
97.8 - 99.2			Replaces Mafics Moderate Chlorite	Patchy Weak Silicification
99.2 - 101.8	BtS	band	Fol-mod	Foliated green moderately chlorite altered biotite schist with subordinate short intervals (up to 12cm) of ribbon quartz mylonite with moderate silicification and mod sericite. Strong irregular milky quartz veining with calcitic selvage at 99.17-101.15m. 0.1% limonite in fractures and minor in vein selvage.
99.2 - 101.8			Patchy Moderate Silicification	Patchy Moderate Sericitisation Replaces Mafics Weak Chlorite
101.8 - 108.5	BtS	band	Fol-mod	Biotite schist with weak patchy silicification, mod chlorite alteration and very weak patchy epidote. Interval ends with an interval of weak FC clay at 108.3-108.55m. 0.1% FC lim and hm. Unit shows weak calcitic and quartz veining, multi-directional stringers to veins.
101.8 - 108.3			Replaces Mafics Moderate Chlorite	Patchy Weak Silicification Patchy Weak Epidote
108.3 - 108.5			Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
108.5 - 130.6	MxF	band	Fol-mod	Felsic dominated mixed gneiss with grey to pink felsic intervals and green to grey BtS intervals. Local vuggy texture. Moderate patchy silicification, mod chlorite alteration of mafics and weak patchy epidote. Weak FC clay from 116.52-125.6m, starting in a strongly fractured interval. 0.1% FC lim down to 122.12m; then a slight increase in limonite (to 0.25%) and 0.1% FC hm, possibly related to increased calcite veining with associated limonitic selvage. 0.1% disseminated brassy to hm stained pyrite. Transitional lower contact into a mineralized unit.
108.5 - 116.5			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Patchy Weak Epidote
116.5 - 130.6			Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Weak Clay
130.6 - 131.0	BtS	band	Fol-wk	Zone; mineralized mafic schist (minor felsics end of interval). Partly oxidized but still transitional with an unoxidized window with 0.5% disseminated sooty sulphides with fine-grained brassy pyrite (XRF As 7218ppm). Mineralization possibly related to a breccia vein at 130.76m; sub-angular clasts of vein quartz and wall rock in a lim-hm-clay-calcite matrix, cross-cut by lim and hm stringers. 1% diss limonite and 1.5% diss hm. Lower contact grades out of oxidation.
130.6 - 131.0			Patchy Moderate Silicification	Patchy Moderate Sericitisation Pervasive Moderate Clay
131.0 - 136.3	BtS	band	Fol-mod	Mafic schist with feldspar porphyroblasts (up to 5mm across.) Alteration below zone at 131-132.3m with weak FC clay, weak sericite, moderate patchy silicification and 0.25% limonite and hematite in fractures and hairline stringers as well as staining pyrite cubes. At 132.3-136.25m oxidized sulphide content is reduced (0.1% FC hm) and silicification is weak and patchy with weak patchy epidote. 0.1% disseminated brassy to red stained pyrite cubes.
131.0 - 132.3			Patchy Moderate Silicification	Selective Repl Weak Sericitisation Fracture Controlled Weak Clay
132.3 - 136.3			Patchy Weak Silicification	Patchy Weak Epidote
136.3 - 137.2	BtS	band	Fol-wk	Zone; probably a continuation of overlying unit but oxidized and weakly mineralized. Upper contact gradational over 5 cm interval into oxide facies. Strong silicification and weak clay in fractures. Fine stockwork style calcite-limonite-hematite veining from 136.64m (locally close to brecciated), as well as a set of lim-hm-calc veinlets locally brecciated trending at c. 55 to LCA. Lower contact at 137.22 consists of a transition out of oxidation with a decrease in lim-hm veining. Overall 0.5% limonite in vein selvage and 0.25% hm in veins and fractures. No XRF hits.
136.3 - 137.2			Pervasive Strong Silicification	Fracture Controlled Weak Clay

137.2 - 156.8	MxM	band	Fol-mod	Mafic dominated mixed gneiss; porphyroblastic (pink feldspars) down to 138.10m then more fine-grained dark green mafic schist. Weak silicification, mod chlorite and weak epidote, weak clay in fractures. Strongly silicified more felsic band at 143-144.5m with minor hematite staining, below which unit becomes dominantly mafic. Frequent multi-directional calcite stringers, locally with lim/hm selvage. 0.1% blebby pyrite. 0.1% FC lim and 0.1% patchy hm. Unit ends in a transition into strong QSP alteration starting around 156.64m, increasing to end of unit at 186.82m.		
		137.2 - 138.1	Pervasive	Weak Silicification		
		138.1 - 143.0	Pervasive	Weak Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
		143.0 - 144.5	Patchy	Strong Silicification		
		144.5 - 156.6	Pervasive	Weak Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
		156.6 - 156.8	Selective Repl	Strong Sericitisation	Selective Repl Strong Sericitisation	
156.8 - 158.0	BtS	silc	Fol-wk	Zone; mineralized mafic schist that has been partly oxidized and shows crackle brecciation, patchy strong QSP alteration and weak clay. Unoxidized windows with sooty sulphides (overall 0.25% disseminated). Oxidized intervals show strong hematite bleeding (1% disseminated from fracture bleeding), 0.5% limonite in fractures and in vein selvage. Frequent stockwork style calcite veining (stringers to veins), with limonitic to hematitic selvage. Minor sooty sulphide veining. Lower contact consists of a sharp transition to a strongly clay altered and brecciated unit.		
		156.8 - 158.0	Pervasive	Strong Silicification	Patchy Strong Sericitisation	Pervasive Weak Clay
158.0 - 158.2	YO	bxm		Zone; strongly clay altered brecciated unit consisting of two sub-units. At 157.97-158.12m: clay-sulphide-calcite matrix-supported unconsolidated breccia with angular silicified clasts (3-15mm) of unoxidized wallrock. 1% sooty sulphides and 0.25% lim and hm. At 158.12-158.22m: continuation of above breccia but oxidized; now with a limonite-clay matrix silicified oxidized hm-lim sub-angular clasts (probably wall-rock), still matrix-supported. 3% limonite and 2% hematite, disseminated. Unit ends in a sharp contact where strong clay alteration stops.		
		158.0 - 158.2	Pervasive	Strong Clay		
158.2 - 159.3	BtS	band	Fol-wk	Zone; mineralized mafic schist that has been partly oxidized and shows crackle brecciation; unseparated clasts of wall-rock, brecciation defined by stockwork veining. Patchy strong QSP alteration and weak clay. Unoxidized windows with sooty sulphides (overall 0.1% disseminated). Oxidized intervals have 0.5% limonite (diss) and hematite bleeding out of fractures and in vein selvage. Frequent stockwork style qtzcalcite veining (stringers to veins), with limonitic to hematitic selvage. Lower contact consists of a transition into a more pervasively oxidized unit.		
		158.2 - 159.3	Pervasive	Strong Silicification	Patchy Strong Sericitisation	Pervasive Weak Clay
159.3 - 160.0	BtS	band	Fol-wk	Zone; continuation of unit above but consistently oxidized. Moderate patchy silicification and weak pervasive clay alteration. Crackle brecciation defined by stockwork of calcite/hm/lim stringers. 0.5% diss lim, 0.25% FC hm.		
		159.3 - 160.0	Pervasive	Moderate Silicification	Pervasive Weak Clay	
160.0 - 164.7	YO	bxi		Zone: heavily broken up interval of patchily brecciated, moderately silicified and clay altered mineralized mafic schist. Brecciation down to 163.70m is patchy and is inferred from the broken up nature of the core and local intervals where the matrix was recovered; sandy clay-lim matrix with angular to sub-angular clasts of wall-rock (up to 20 mm). Brecciation from 163.7-164.65m is better defined due more intact core; here brecciation seem to consist of a clast-supported monomictic breccia, with a sandy clay-lim matrix within fractures within the rock. Some fracture surfaces show slickensides, further indicating fault movements within the unit. 0.5% diss limonite and 1% diss hematite. Unit ends in a transition into less fractured rock.		
		160.0 - 164.7	Patchy	Moderate Silicification	Fracture Controlled Moderate Clay	
164.7 - 168.2	BtS	band	Fol-wk	Zone; mineralized orange mafic schist with strong silicification and weak clay alteration. Weakly foliated. Strong lim-hm-calc veining (stringers), multi-directional. XRF As 350ppm at 135m. 2% disseminated lim and 0.25% FC hm. Lower contact into transitional facies.		
		164.7 - 168.2	Pervasive	Strong Silicification	Pervasive Weak Clay	
168.2 - 171.6	BtS	silc	Fol-mod	Zone; transitional unit of mineralized mafic schist with strong patchy silicification, strong patchy sericite altn and weak FC clay. Unoxidized windows with disseminated sooty sulphides (1%). Strong hematite bleeding around fractures (2% FC) and 1% FC limonite. Set of low angle (c. 15 to LCA) quartz veins with calcitic-hematitic selvage at 169.9-170.8m. Minor sooty sulphide veining. Unit ends in a partly oxidized monomictic clast-supported breccia pipe at 171.38-171.58m; sub-rounded to sub-angular silicified clasts of foliated wall-rock in a sulphide-clay fine-grained matrix. Clasts range from 1- 30mm. Oxidation bleeding into breccia. Unit ends in a more consistently oxidized unit.		
		168.2 - 171.4	Patchy	Strong Silicification	Patchy Strong Sericitisation	Fracture Controlled Weak Clay
		171.4 - 171.6	Patchy	Strong Silicification	Fracture Controlled Moderate Clay	
171.6 - 173.6	BtS		Fol-wk	Zone; oxidized and mineralized mafic schist over a broken up interval showing weak brecciation at 171.85-171.95m. Strong patchy silicification and weak FC clay. Strongly hematitic at 172.3-172.65m and 173.2-173.55m. 1% limonite (disseminated and in stockwork stringers) and 1.5% patchy hematite.		
		171.6 - 173.6	Patchy	Strong Silicification	Fracture Controlled Weak Clay	

173.6 - 175.0	BtS	silc	Fol-mod	Zone; transitional zone of strongly silicified and strongly sericitized mineralized mafic schist. Weak leucoxene. 3% disseminated sooty sulphides in unoxidized windows. 0.25% FC lim and hm. Stockwork veinlets and stringers of calcite with lim-hm selvedge.	
		173.6 - 175.0	Pervasive	Strong Silicification	Fracture Controlled Weak Clay
175.0 - 177.8	BtS	band	Fol-mod	Biotite schist with moderate silicification, weak sericite weak leucoxene altn. Strong cross-cutting milky qtz--calcite veining wlim-hm selvedge. Unit effervesces moderately around veing. Possibly trace sooty sulphides (0.25%) in very fine-grained brassy pyrite. QSP alteration increases to strong around 176.4m, and also increased lim and hm (0.25% FC) from around 176m. Lower contact grades in to a unit contining sooty sulphides.	
		175.0 - 176.4	Selective Repl	Weak Leucoxene	Patchy Weak Sericitisation
		176.4 - 177.8	Pervasive	Strong Silicification	Selective Repl Weak Leucoxene
177.8 - 178.8	BtS	silc		Zone; transitional zone of mineralized mafic schist ; strong perv silicification and sericite altn. 0.25% lim and hm bleeding out of fractures, 3-4% disseminated sooty sulphides with very fine-grained brassy pyrite.Weakly brecciated sooty sulphide vein at 178.7m, around 20 to LCA. Lower contact is brecciated. XRF As 8337ppm at 178m.	
		177.8 - 178.8	Pervasive	Strong Silicification	Selective Repl Weak Leucoxene
178.8 - 179.4	YC	bxm		Zone; monomictic matrix-supported silicified clast breccia with strongly silicified and partly sub-rounded lim-hm HU clasts in a lim-clay matrix. Patchy brecciation at 178.8-179.2m, well developed at 179.2-179.4m. 4% llim and 2% hm. Lower contact transitions out of brecciation. XRF As 227ppm at 179m.	
		178.8 - 179.4	Replaces Clasts	Strong Silicification	Replaces Matrix Strong Clay
179.4 - 188.1	BtS	silc	Fol-mod	Zone; mineralized and oxidized mafic schist with intervals of RQM texture (c. 182-184.6m, 187.3-188.05, wispy quartz veins). Strong silicification. 0.5% diss lim and 0.5% hm in fractures and replacing pyrite cubes. Calcitic stringers towards end ofunit, with hm-lim selvedge.	
		179.4 - 188.1	Pervasive	Strong Silicification	
188.1 - 190.6	MxM	band	Fol-mod	Mafic dominated mixed gneiss, locally with silica altered feldspar augens. Strong but patchy QSP alteration, weak chlorite and leucoxene alteration. 0.1% blebby pyrite and 0.1% FC lim and hm.Frequent multi-directional veinlets of calcite, locally with lim-hm selvedge.	
		188.1 - 190.6	Patchy	Strong Silicification	Selective Repl Weak Leucoxene
190.6 - 191.7	SZ		Crenul	Shear zone of mafic schist with moderate chlorite and epidote, strong crenulations defined by bands of chlorite and epidote. Upper and lower contacts are sharp.	
		190.6 - 191.7	Replaces Mafics	Moderate Chlorite	Selective Repl Moderate Epidote
191.7 - 198.2	BtS	band	Fol-mod	Biotite schist, possibly with felsic content in highly QSP altered intervals (patchy). Strong patchy silicification, strong patchy sericite, weak chlorite and leucoxene alteration. Local (192.75-195.1m) weak mineralization 0.25% FC lim and hm in a broken up interval (XRF As 336ppm at 193m and 449ppm at 194m), otherwise trace (0.1%). End of unit marks end of patchy QSP. 0.1% blebby pyrite	
		191.7 - 198.2	Patchy	Strong Silicification	Selective Repl Weak Leucoxene
		198.2 - 201.6	Patchy	Moderate Silicification	Selective Repl Weak Leucoxene
198.2 - 214.6	MxM	band	Fol-mod	Mafic dominated gneiss with short intervals of pink felsic gneiss, locally with augens, locally close to RQM texture. Moderate patchy silicification, mod chlorite and weak leucoxene and epidote altn. 0.1% FC lim and hm. 0.1% blebby pyrite. Moderately broken up interval at 201.64-204.78m which effervesces moderately along fractures and frequent stringers of calcite with hm selvedge, weak sericite veining, as well as slightly more hm on fractures (XRF As 205ppm at 204m). Weak patchy FC clay from 201.64-214.6m, and overall increase in multi-directional calcite veining. Lower contact consists of a transition into a more limonitized-hematitic higher strained unit.	
		201.6 - 214.6	Patchy	Moderate Silicification	Fracture Controlled Weak Clay
214.6 - 222.4	RQM	qtz	Fol-str	Dominated by orange to grey weakly mineralized/patchily oxidized ribbon quartz mylonite with wispy qtz veins (locally weak mylonitic texture), with short intervals of less strained porphyroblastic biotite schist. Strong patchy silicification, weak patchy sericite and weak clay-lim replacing feldspars. 0.5% patchy lim (repl feldspars) and 0.25% FC hm. 0.1% pyrite; mostly oxidized and stained with hematite and rare brassy pyrite down to 219.8m, then dominantly brassy pyrite blebs. Moderate multi-directional qtz-calcite veining in stringers and veinlets; dominantly opaque quartz with calcite-hm-lim selvedge, locally causing weak crackle brecciation. XRF spot checks up to 219ppm around hematite staining (214.92m). End of unit transitions out patchy oxidation.	
		214.6 - 222.4	Patchy	Strong Silicification	Patchy Weak Sericitisation
222.4 - 226.3	BtS	silc	Fol-wk	Strongly silicified dark to light grey biotite schist with weak patchy sericite and epidote. 0.5% brassy blebby pyrite. Moderate qtz/calcite veining in cross-cutting veinlets and stringers. Minor sericite stringers. Trace lim and hm in fractures. Lower contact grades in to an oxidized interval.	
		222.4 - 226.3	Pervasive	Strong Silicification	Patchy Weak Epidote
226.3 - 226.9	BtS	silc		Zone; oxidized and strained feldspar-biotite schist with strong silicification and weak patchy clay altn of strongly silicified feldspars. Top of unit transitions into oxidation, with a strongly hematitic interval 226.32-226.37m (4% disseminated, XRF spot check at 1140ppm), then transitioning into more patchy hematite and limonite in fractures and staining pyrite creating a local vuggy texture (0.5% patchy lim and hm). Unit ends in a slightly offset 2 cm wide quartz vein, after which clay replacement of feldspars seem to decrease.	
		226.3 - 226.9	Patchy	Strong Silicification	Patchy Weak Clay

226.9 - 231.3	BtS	band	Fol-mod	Weakly mineralized and partly oxidized mafic porphyroblastic schist (feldspar augens) with patchy moderate patchy QSP alteration, weak patchy clay alteration (locally of feldspar augens. 0.5% patchy limonite and 0.25% FC hm, with bleeding around fractures and . Semi-massive to blebby bands of brassy to dull pyrite. Unit is weakly calcitic. Rare calcitic stringers with limonitic selvage.		
		226.9 - 231.3	Patchy Strong Silicification	Patchy Moderate Sericitisation	Patchy Weak Clay	
231.3 - 237.7	MxM	silc	Fol-mod	Mafic schist with moderate to strong patchy QSP alteration (silicification pervasive). Locally feldspar augen-bearing. Local interval (236.55-236.94m) with a pink color and possibly more felsic composition. 0.1% FC lim and hm. 0.1% blebby pyrite.		
		231.3 - 237.7	Pervasive Strong Silicification	Patchy Strong Sericitisation		
237.7 - 240.2	BtS			Weak zone; moderately silicified and moderately clay altered and bleached mafic schist. Strongly fractured and possibly brecciated. 0.5% FC lim and hm. XRF 227ppm on metermarks 238 and 239.		
		237.7 - 240.2	Patchy Strong Silicification	Patchy Moderate Clay		
240.2 - 245.6	BtS	silc		Partly oxidized mafic schist with strong pervasive to patchy intense silicification, patchy strong sericite altn, weak clay alteration of feldspars. 0.5% patchy limonite and 0.25% FC hm. Local close to RQm texture with wispy quartz veins. Strong opaque qtz-calcite veining (stringers and veinlets) with lim-hm selvage; veining seem to have a preferred direction roughly 10-20 to LCA. Intense veining at end of unit (c. 245-245.64m) creating a crackle breccia texture. 0.1% blebby brassy pyrite.		
		240.2 - 245.6	Patchy Intense Silicification	Patchy Strong Sericitisation	Replaces Felsics Weak Clay	
245.6 - 253.1	BtS	silc	Fol-mod	Mafic schist with intervals of strong silica-sericite alteration and intervening intervals with weak chlorite altn. 0.1% blebby pyrite, 0.25% patchy/FC limonite, 0.1% FC hematite. Moderate qtz veining; veinlets/stringers with calcitic to local limonitic selvage, multi-directional. XRF As at 260ppm at 249m.		
		245.6 - 253.1	Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Weak Chlorite	
253.1 - 259.5	BtS	band	Fol-mod	Transitional zone of partly oxidized mafic schist with moderate to strong patchy silicification and moderate sericite altn. Weak clay alteration; lim-clay replacement of feldspars, strong clay at 258.05-258.28m in a broken up interval with 1% sooty sulphides. 0.1% brassy to partly oxidized pyrite, local bands of semi-massive to blebby brassy pyrite. Trace (0.1%) sooty sulphides in unoxidized windows. Calcite veining with limonite-hematite laminated selvage, at low angle to LCA. Unit ends in an oxidation front where oxidation becomes more pervasive.		
		253.1 - 259.5	Patchy Strong Silicification	Patchy Weak Sericitisation	Replaces Felsics Weak Clay	
259.5 - 261.3	BtS	silc	Fol-wk	Oxidized silicified mafic schist with weak clay alteration. 1% patchy limonite, 0.25% FC hematite (vein halo). XRF As at 394 at 261m.		
		259.5 - 261.3	Patchy Strong Silicification	Selective Repl Weak Clay		
261.3 - 268.9	BtS	silc		Zone; silica-clay altered mafic schist; strong patchy silicification, weak clay replacing feldspars. Local intervals (261.32-261.85m, 262.6-262.85m, 264.2-264.32m, 265.41-265.73, 268.4-268.9m) of deep red staining of hematite (up to 3% disseminated), that seems to be related to fractures. In between these intervals the unit is weakly limonitic/hematitic with 0.5% patchy lim and 0.25% FC hm. Overall 0.5% patchy limonite and 1.5% patchy hematite. Strongly clay altered and broken up interval at 264-264.32m. XRF As 409 at 262m and 266ppm at 266m. Lower contact is gradual out of oxidation.		
		261.3 - 268.9	Patchy Strong Silicification	Selective Repl Weak Clay		
268.9 - 275.7	BtS	silc	Fol-mod	Silicified and partly oxidized mafic schist with clay altered feldspar porphyroblasts, weak patchy sericite. Unit contains local weak brecciation. Intervals with more pervasive clay alteration of feldspars are weakly limonitic-hematitic, with overall 0.5% patchy limonite and 0.1% FC hematite.		
		268.9 - 275.7	Pervasive Strong Silicification	Patchy Weak Sericitisation	Replaces Felsics Weak Clay	
275.7 - 281.6	MxF	silc	Fol-wk	Felsic dominated mixed gneiss: grey-pinkish felsic strongly to intensely silicified intervals with moderate sericite; with intervening intervals of green biotite schist with moderate chlorite and weak patchy epidote altn. Mafic seggregations show moderate shear with crenulations and are locally weakly brecciated. 0.25% patchy limonite and 0.1% FC hematite.		
		275.7 - 281.6	Patchy Strong Silicification	Patchy Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
281.6 - 291.1	MxF		Fol-wk	Felsic dominated mixed gneiss containing a shear zone. Shear strongest at 282-283m where unit shows strong boudinage and crenulations around plastically deformed pink felsic clasts in a chlorite-epidote altered strongly deformed matrix. Shear is evident throughout the rest of the unit in low-angle shear planes and local strong clay alteration in fractures. Moderate patchy silicification, moderate chlorite after mafics and moderate patchy epidote. 0.1% FC lim. Unit contains a XRF As hit at 446ppm at 282m, related to very localized sooty sulphide veining at above main shear zone.		
		281.6 - 291.1	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote	
291.1 - 299.5	MxF		Fol-wk	Felsic dominated gneiss, still showing shear deformation in weak crenulations and local weak crackle brecciation. Moderate patchy silicification, moderate chlorite after mafics and weak fracture controlled clay alteration. 0.25% FC limonite and hematite in a fractured and weakly clay altered interval at 291.5-295.7m, otherwise trace lim and hm in fractures.		
		291.1 - 299.5	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	

Drill Log: CFD0257

Easting	584346.96	Hole Length	266 m	Prospect	Supremo T3	Drill Started	Jul 05, 2012	Comment
Northing	6974450.42	Azimuth	268 °	Target	T3	Drill Completed	Jul 07, 2012	
Projection	UTM7-NAD83	Dip	-55 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1263.4 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 43.4	MxF	band	Fol-mod	Mixed felsic gneiss, moderate pervasive silicification with some little sections where the silicification is stronger. Bands of chlorite in replacement of mafic minerals. 1% of oxydied pyrite. 0,1% of fractured controlled limonite and hematite.
		6.0 - 33.7	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation Replaces Mafics Moderate Chlorite
		33.7 - 38.0	Pervasive Strong Silicification	Fracture Controlled Weak Sericitisation Replaces Mafics Moderate Chlorite
		38.0 - 75.7	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation Replaces Mafics Moderate Chlorite
43.4 - 61.6	FG	augn	Fol-mod	Felsic augen gneiss, moderate to strong pervasive silicification. Trace of bands of chlorite in replacement of mafic minerals. 1% of oxydied pyrite. 0,1% of fractured controlled limonite and hematite.
61.6 - 75.7	MxF	band	Fol-mod	Mixed felsic gneiss, moderate pervasive silicification with some little sections where the silicification is stronger. Bands of chlorite in replacement of mafic minerals. Trace of fractured controlled limonite and hematite.
75.7 - 80.7	IV	phyr	Fol-wk	Porphyritic andesite dyke, weak foliated, coarse grained porphyre of feldspar, moderate disseminated silicification and in replacement of feldspars, and weak disseminated chlorite. Small band of chlorite in replacement of mafic minerals cut the dyke.
		75.7 - 80.7	Pervasive Moderate Silicification	Pervasive Weak Chlorite
80.7 - 142.4	FG	augn	Fol-mod	Felsic gneiss , moderate pervasive silicification with some little sections where the silicification is stronger. Trace of bands of chlorite and biotite in replacement of mafic minerals. 0.1% to 0.3% of fractured controlled limonite and hematite. 140,3m to 141.90m, fractured controlled specular hematite and carbonate.
		80.7 - 96.7	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation
		96.7 - 100.8	Pervasive Strong Silicification	
		100.8 - 142.4	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Sericitisation Fracture Controlled Weak Epidote
142.4 - 149.5	MxF	band	Fol-mod	Mixed gneiss with dominance of felsic minerals, moderate silicification in replacement of felsic minerals, some bands of chlorite in replacement of mafic minerals, and moderate clay alteration in replacement of feldspars with a narrow section (10cm) with strong clay alteration.
		142.4 - 149.5	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite Selective Repl Moderate Clay
149.5 - 175.6	FG	augn	Fol-mod	Felsic augen gneiss, moderate pervasive silicification. Weak fractured controlled epidote and sericite. Trace of bands of chlorite in replacement of mafic minerals. 1% of fresh pyrite. 0.1 to 0.5% of fractured controlled and disseminated limonite and hematite (banded alteration). At 159m, little breccia (3cm) of a quartz vein and a band of altered mafic minerals.
		149.5 - 174.5	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Epidote Fracture Controlled Weak Sericitisation
		174.5 - 186.4	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite Fracture Controlled Weak Sericitisation
175.6 - 186.4	FG	augn	Fol-mod	Felsic augen gneiss, moderate pervasive silicification. Weak fractured controlled sericite and trace of chlorite in replacement of mafic minearals. 0.75% disseminated and fractured controlled limonite.

186.4 - 223.6	FG	augn	Fol-mod	Felsic augen gneiss, moderate pervasive and replacement of felsic minerals silicification, weak to moderate selective replacement of feldspar by clay alteration. Banded dead rock and weak mineralized rock (0.1% to 0.5% fracture controlled and disseminated limonite and hematite). At 204.9m, small massive vein of specular hematite and at 222m massive patch of pyrite of 3cm.		
		186.4 - 188.3	Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay	Fracture Controlled Weak Sericitisation	
		188.3 - 191.0	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation		
		191.0 - 207.5	Replaces Felsics Moderate Silicification	Selective Repl Weak Clay	Fracture Controlled Weak Sericitisation	
		207.5 - 216.0	Pervasive Moderate Silicification	Selective Repl Weak Clay	Fracture Controlled Weak Sericitisation	
		216.0 - 221.8	Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay	Fracture Controlled Weak Sericitisation	
		221.8 - 223.6	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation		
223.6 - 228.2	MxF	band	Fol-mod	Weak mineralized, mixed felsic gneiss, 0.5% fractured controlled and disseminated limonite, moderate clay in selective replacement of feldspars and moderate replacement of felsic minerals.		
		223.6 - 228.2	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Clay	Replaces Mafics Moderate Chlorite	
228.2 - 228.6	FC	fgrn	Moderate mineralized dacite dyke, fine grained, strong pervasive clay alteration, 1% limonite disseminated, mottled texture of limonite.			
		228.2 - 233.0	Pervasive Strong Clay	Replaces Clasts Weak Silicification		
228.6 - 229.1	YC	Clast	Mineralized silicified clast supported small breccia, irregular contacts, strong clay alteration, coarse angular and monomictic clasts size (silicified).			
229.1 - 229.5	HU	mud	Weakly mineralized, highly unrecognizable hydrothermal alteration, strong clay alteration. (maybe the edge of the breccia because it seems to have relic clasts ?).			
229.5 - 233.0	FC	fgrn	Moderate mineralized dacite dyke, fine grained, strong pervasive clay alteration, 1% limonite disseminated, mottled texture of limonite.			
233.0 - 237.9	MxF	band	Fol-mod	Weak mineralized, mixed felsic gneiss, moderate pervasive silicification and moderate clay alteration in selective replacement of feldspars. One band of chlorite in replacement of mafic minerals. 0.2% fractured controlled and disseminated limonite.		
		233.0 - 237.4	Pervasive Moderate Silicification	Selective Repl Moderate Clay	Replaces Mafics Moderate Chlorite	
		237.4 - 240.3	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation		
237.9 - 240.3	FG	bx	Fol-mod	Felsic augen gneiss, moderate pervasive silicification and weak frac controlled sericite. 0.1 frac cont limonite.		
240.3 - 245.6	FC	fgrn	Dacite non-altered dike, fine grained, no foliation, weak silicification in replacement of felsic minerals and chlorite in replacement of mafic minerals. Trace of hematite dieminated.			
		240.3 - 245.6	Replaces Felsics Weak Chlorite			
245.6 - 255.6	FG	augn	Fol-mod	Weak zone, felsic augen gneiss, moderate pervasive and replacement of felsic minerals silicification, weak to moderate selective replacement of feldspar by clay alteration and pervasive at 251m on 10 cm wide. 0.3% of diseminated limonite and 0,1% of dissminated hematite.		
		245.6 - 255.6	Replaces Mafics Moderate Silicification	Selective Repl Weak Clay		
255.6 - 266.0	FG	augn	Fol-mod	Felsic augen gneiss, moderate pervasive silicification. Weak fractured controlled sericite and trace of chlorite in replacement of mafic minearals. Trace of limonite controlled by fracture.		
		255.6 - 266.0	Pervasive Moderate Silicification	Fracture Controlled Weak Epidote	Fracture Controlled Weak Sericitisation	

Drill Log: CFD0258

Easting	584359.27	Hole Length	260 m	Prospect	Supremo T3	Drill Started	Jul 07, 2012	Comment
Northing	6974500.09	Azimuth	270 °	Target		Drill Completed	Jul 10, 2012	
Projection	UTM7-NAD83	Dip	-55 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1260.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 16.9	MxF	band	Fol-mod	Mixed felsic gneiss, with moderate silicification in replacement of felsic minerals and some bands of chlorite in replacement of mafic minerals. Weak clay alteration in selective replacement of feldspar. Trace of fractured controlled limonite and hematite.
6.0 - 16.8			Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
16.9 - 17.4	MxF	band	Fol-mod	Mixed felsic gneiss, with moderate pervasive chlorite and moderate selective replacement of feldspars by clay alteration. 1% disseminated limonite and 0.2% of fractured controlled hematite.
16.9 - 17.4			Pervasive Moderate Chlorite	Selective Repl Moderate Clay
17.4 - 18.1	MV	bx		Massive quartz veins, brecciated by chlorite and sericite in fine fractures, 1% disseminated limonite and 0.2% of fractured controlled hematite. Clasts have a jigsaw fit and didn't really rotate.
17.4 - 18.1			Pervasive Strong Silicification	Fracture Controlled Moderate Chlorite
18.1 - 20.8	MxF	band		Mixed felsic gneiss, with moderate pervasive chlorite and moderate selective replacement of feldspars by clay alteration. 1% disseminated limonite and 0.2% of fractured controlled hematite.
18.1 - 20.8			Pervasive Moderate Chlorite	Pervasive Weak Clay
20.8 - 69.0	MxF	band	Fol-mod	Mixed felsic gneiss, with an "old dike" from 23.5m to 23.9m, (this one has a strong pervasive chlorite alteration, fine grained, has a different foliation and its contacts are totally sheared). Trace of stronger pervasive silicification. Small breccia (2cm wide, no mineralized) at 31.6m. 0.1% of fractured controlled limonite and hematite and increase to 0.3% after 45.3m.
20.8 - 52.4			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Epidote
52.4 - 53.5			Pervasive Strong Silicification	Pervasive Weak Epidote
53.5 - 61.7			Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
61.7 - 62.0			Replaces Felsics Moderate Silicification	Fracture Controlled Moderate Clay
62.0 - 70.0			Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite
69.0 - 97.0	FG	augn	Fol-mod	Felsic augen gneiss, moderate silicification in replacement of felsic minerals and some section with stronger pervasive silicification. Some section with pervasive albite alteration. Weak dissemination of epidote and sericite (or muscovite). 0.1% to 0.3% fractured controlled limonite and disseminated hematite.
70.0 - 70.9			Pervasive Strong Silicification	
70.9 - 75.4			Replaces Felsics Moderate Silicification	Patchy Weak Albite
75.4 - 78.0			Pervasive Strong Silicification	
78.0 - 86.6			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Epidote
86.6 - 98.3			Pervasive Strong Silicification	Pervasive Weak Epidote
97.0 - 97.5	MV	bxi		Massive quartz veins. Moderately fractured.

97.5 - 108.5	FG	augn	Fol-mod	Felsic augen gneiss, moderate silicification in replacement of felsic minerals and some section with stronger pervasive silicification. Some section with pervasive albite alteration. Weak dissemination of epidote and sericite (or muscovite). 0.1% to 0.3% fractured controlled limonite and disseminated hematite.		
		98.3 - 108.5	Replaces Felsics Moderate Silicification	Weak Sericitisation		
108.5 - 114.9	IV	phyr		(FSPO unit) Porphyritic andesite dyke, no foliated, coarse grained porphyre of feldspar, moderate disseminated silicification and in replacement of feldspars, and weak disseminated chlorite. Upper contact is irregular and lower contact is sharpened.		
		108.5 - 114.9	Pervasive Moderate Silicification	Pervasive Weak Chlorite		
114.9 - 120.0	MxF	band	Fol-mod	Mixed felsic gneiss, with moderate pervasive chlorite. Some small vuggy quartz vein. 0.3% disseminated limonite.		
		114.9 - 120.0	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite	Pervasive Weak Sericitisation	
120.0 - 192.7	FG	augn		Felsic augen gneiss, moderate to strong silicification in replacement of felsic minerals and sometime pervasive. Some sections with clay alteration in replacement of feldspars. 0.1 to 0.5 % fractured controlled and disseminated (in general) limonite. At 180.6m, specular hematite in fine veins with carbonate.		
		120.0 - 142.5	Replaces Felsics Moderate Silicification			
		142.5 - 149.2	Pervasive Strong Silicification			
		149.2 - 151.1	Pervasive Moderate Silicification	Selective Repl Weak Clay		
		151.1 - 183.6	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Epidote	Replaces Mafics Weak Chlorite	
		183.6 - 187.4	Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay		
		187.4 - 187.8	Pervasive Strong Silicification	Fracture Controlled Weak Clay		
		187.8 - 191.3	Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay		
		191.3 - 193.6	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite		
192.7 - 200.0	MxF	band		Mixed felsic gneiss, moderate to strong silicification in replacement of felsic minerals and sometime pervasive. 0.2% disseminated limonite to 0.5% with 1% hematite from 199.73m to 203.63m.		
		193.6 - 194.0	Pervasive Strong Silicification			
		194.0 - 196.7	Replaces Felsics Moderate Silicification			
		196.7 - 197.9	Pervasive Strong Silicification			
		197.9 - 204.0	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Clay	
200.0 - 216.2	FG	augn	Fol-mod	Moderate zone. Felsic augen gneiss, moderate silicification with replacement of felsic minerals. to 210.2m to 216.18m, clay alteration in selective replacement of feldspars. 0.1% to 0.5% disseminated limonite, and some sections with 1% of disseminated hematite. At 214.56m and lower, 1% disseminated fine grained pyrite. Small PyF at 215.45m.		
		204.0 - 210.2	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite	Pervasive Weak Sericitisation	
		210.2 - 216.2	Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay	Fracture Controlled Weak Calcite	
216.2 - 217.5	FC	fgrn		Strong zone. Dacite dyke, fine grained, dark grey matrix, 8% disseminated pyrite. Moderate pervasive silicification. 0.2% of fractured controlled limonite. At 217m, weak pervasive clay alteration.		
		216.2 - 219.2	Pervasive Moderate Silicification	Patchy Weak Clay		
217.5 - 218.0	YS	matx		Strong zone. Sulfide matrix breccia. Matrix supported. Sub-angular small chaotic clasts (0.1-0.5cm). 8% fine grained disseminated pyrite.		
218.0 - 218.1	PyF	fgrn		Strong zone. Pyritic fault. 0.2% fractured controlled limonite. 8% fine grained disseminated pyrite.		
218.1 - 219.2	FC	fgrn		Strong zone. Dacite dyke, fine grained, dark grey matrix, 8% disseminated pyrite. Moderate pervasive silicification. 0.2% of fractured controlled limonite.		
219.2 - 220.8	YS	matx		Strong zone. Sulfide matrix breccia. Matrix supported. Sub-angular small chaotic clasts (0.1-0.5cm). 1% disseminated limonite and 2.5% fine grained disseminated pyrite.		
		219.2 - 220.3	Pervasive Moderate Silicification	Fracture Controlled Weak Clay		
		220.3 - 222.2	Pervasive Strong Clay	Replaces Felsics Weak Silicification		

220.8 - 244.1	FG	augn	Fol-mod	Moderate zone. Felsic augen gneiss, moderate silicification in replacement of felsic minerals. And moderate clay alteration in replacement of feldspars. 0.5% to 1% fractured controlled and disseminated (in general) limonite. 0.3 to 0.5% of fine grained pyrite.		
		222.2 - 223.6	Pervasive Strong Sericitisation	Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification	
		223.6 - 226.8	Selective Repl Moderate Clay	Patchy Moderate Calcite		
		226.8 - 227.6	Pervasive Strong Sericitisation	Replaces Felsics Moderate Silicification		
		227.6 - 232.6	Pervasive Moderate Sericitisation	Replaces Mafics Moderate Silicification	Selective Repl Moderate Clay	
		232.6 - 256.6	Replaces Felsics Moderate Silicification	Selective Repl Weak Clay	Patchy Weak Sericitisation	
244.1 - 260.0	FG	augn	Fol-mod	Felsic augen gneiss, 1% disseminated limonite but no result with the XRF. Moderate silicification in replacement of felsic minerals. Weak clay alteration in replacement of feldspars.		
		256.6 - 260.0	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite		

Drill Log: CFD0259

Easting	585126.41	Hole Length	299.43 m	Prospect	Double Double	Drill Started	Jul 08, 2012	Comment
Northing	6973325.11	Azimuth	180 °	Target		Drill Completed	Jul 11, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist		Core Size	NQ2	
Survey method	RTK GPS	Elevation	1105.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 53.0	MxM	band	Fol-mod	Mafic dominant mixed gneiss: felsic bands are moderate-strong pervasively silicified, mafic schist exhibits weak chlorite after bt and ep after fs. Commonly broken and rubbly (top of hole). Metamorphic pyrite is completely oxidized but mafic minerals are relatively fresh. Trace fracture controlled limonite. Trace fracture controlled hematite (0.2% from 35-35.5) but 0.25% after py. Strong epidote spatially associated with 1-5cm-thick qtz veins from 49-55m.
		6.0 - 55.0	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification
				Replaces Felsics Weak Epidote
53.0 - 67.3	MxF	augn	Fol-mod	Felsic dominant gneiss with common augens. Similar to previous unit as it also lacks significant alteration or mineralization. Moderate sericite alteration from 58-60.1m associated with increased fracturing and frac limonite (still trace overall).
		55.0 - 67.3	Replaces Felsics Moderate Silicification	Patchy Weak Sericitisation
				Replaces Mafics Weak Chlorite
67.3 - 80.0	BtS	band	Fol-mod	Homogenous mafic schist, weak chlorite after biotite and weak disseminated leucoxene. No observed pyrite. Trace fracture controlled limonite and hematite. Foliation is shallow to CA, consistent with what has been observed in previous -70 holes in DD.
		67.3 - 80.0	Replaces Mafics Weak Chlorite	Pervasive Weak Leucoxene
80.0 - 89.9	MxF	band		Pink strongly silicified felsic gneiss with bands of biotite schist. Unit locally exhibits moderate clay alteration over 5cm. Moderately fractured with some fractures exhibiting limonite (av. trace) and carbonate.
		80.0 - 89.9	Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite
				Patchy Weak Clay
89.9 - 91.0	SZ	lamn	Crenul	Small shear zone exhibiting local crenulation. Pervasively chlorite and clay altered. No observable sulphide.
		89.9 - 91.0	Pervasive Strong Chlorite	Selective Repl Moderate Clay
91.0 - 93.9	BtS	band	Fol-mod	Biotite schist, moderate chlorite after biotite and epidote after feldspar with 0.2% disseminated brassy metamorphic pyrite.
		91.0 - 93.9	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Epidote
93.9 - 98.6	MxF	band	Fol-wk	Strongly silicified pink felsic gneiss with bands of biotite schist, exhibits partially oxidized brassy pyrite (0.25%)
		93.9 - 98.6	Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite
				Replaces Felsics Weak Epidote
98.6 - 123.2	BtS	band	Fol-mod	Biotite schist, locally moderate fractured from 106-112 with fractures exhibiting limonite and carbonate. Said fractures are at shallow angles to CA but are random angles. 0.25% fracture controlled limonite, 0.1% partially oxidized disseminated brassy metamorphic pyrite.
		98.6 - 123.2	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote
				Patchy Moderate Clay
123.2 - 132.8	IV	phyr		Feldspar porphyritic andesite dike, feldspar phenocrysts are almost completely replaced by silica, others by epidote. Unit is cut by clay and/or calcite veins at near CA-parallel and CA-oblique orientations, some of which exhibit limonite (av. 0.1%). Unit contains entrained BtS rafts near its end.
		123.2 - 132.8	Replaces Felsics Strong Silicification	
132.8 - 135.0	BtS	band		Broken-up biotite schist spatially associated with a small swarm of bull-qtz veins: rock beside the veins is broken parallel to CA and is locally strongly clay altered over 15cm. Contains 0.5% fracture-controlled limonite.
		132.8 - 135.0	Patchy Strong Clay	Replaces Mafics Moderate Chlorite
				Replaces Felsics Weak Epidote
135.0 - 137.7	MxM	band	Fol-mod	Biotite schist with two bands of FG, exhibits standard alteration suite, is cross-cut by a suite of <1cm laminated chalcedony veins, locally with limonite selvages. Trace disseminated brassy metamorphic pyrite
		135.0 - 137.7	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote
				Pervasive Weak Leucoxene

137.7 - 139.8	BtS	band	Fol-mod	Patchy Zone, biotite schist with two patches of QSP+sooty pyrite, up to 10% over 2cm. Patches are SOU-138.25 and 138.7-139.02. Averages to 2.75% sooty pyrite and .25% brassy alt-related py.
		137.7 - 139.8	Patchy Moderate Silicification	Patchy Moderate Sericitisation Replaces Mafics Weak Chlorite
139.8 143.9	BtS	band	Fol-mod	Zone, exhibits fresh and oxidized mineralized biotite schist: nearly pervasively moderately QSP altered with associated disseminated sooty pyrite (av. 1%), disseminated limonite (av. 1%), and disseminated hematite (av. 0.5%). Small silicified clast breccia at 140.35-140.5 with sub-angular clasts up to 7mm in diameter, pale orange silica matrix-limonite matrix. 3cm-wide crackle breccia at 143.53 - clasts are BtS.
		139.8 - 143.9	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Pervasive Weak Leucoxene
143.9 144.2	YC	bxi		Small clay-sericite-pyrite matrix-supported, sub-angular to subrounded silicified clast breccia. 5% sooty pyrite, 0.5% limonite.
		143.9 - 144.2	Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay Replaces Mafics Moderate Sericitisation
144.2 - 148.5	BtS	band	Fol-wk	Zone, strongly pervasively QSP altered with av. 0.5% sooty pyrite, 1% disseminated hematite, and 0.1% disseminated limonite. Hematite strongest from 145-146.5. Unit ends in a 15cm clay-limonite matrix-supported, 1-4mm sub-angular weakly silicified clast breccia.
		144.2 - 148.5	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Patchy Weak Clay
148.5 - 152.6	BtS	band	Fol-wk	Zone shoulder, strongly pervasively QSP altered, locally grading to intense silicification over 10-20cm (creating HU). Sulphides are lack-luster: 0.5% patchy lim, trace vein-halo hematite, 0.2% disseminated brassy alt-related py.
		148.5 - 152.6	Pervasive Strong Silicification	Pervasive Strong Sericitisation
152.6 - 159.5	MxM	band	Fol-wk	Zone, probable MxF (can see porphyroblasts through alt and ox), 1% disseminated limonite, .5% disseminated hematite, trace disseminated oxidized pyrite. Unit exhibits moderate silicification, weak disseminated clay.
		152.6 - 159.5	Pervasive Moderate Silicification	Pervasive Weak Clay
159.5 - 169.3	MxM	bxi	Crenul	Strange rock unit, has characteristics of porphyritic andesite, breccia, and shear zone - is strongly chlorite altered (after bt) and silica altered (groundmass and "clasts"). Parts of the unit exhibit regular foliation and disseminated leucoxene, others exhibit boudinaged or sheared-up felsic bands/veins. 10-15cm patches of 1% limonite occur every metre or so, av. to 0.2%
		159.5 - 169.3	Pervasive Moderate Silicification	Pervasive Strong Chlorite Patchy Weak Clay
169.3 - 175.2	HU			Weak zone, strongly to intensely QSP altered rock, is likely a more altered version of previous unit which itself was difficult to accurately identify. Exhibits patchy oxidation which leads to 0.75% patchy limonite after alt-related brassy and sooty pyrite; (0.5% and 0.25%, respectively). Unit is cut by those tell-tale near CA-parallel veins/fractures, which are now oxidized but contained sooty py.
		169.3 - 177.9	Pervasive Intense Silicification	Pervasive Strong Sericitisation
175.2 175.9	YO	bxi		Small interval of obvious breccia: quartz-sericite matrix-supported fg silicified clast breccia. Due to the fine grained nature of the clasts this breccia is hard to see, and most of the brecciation is observed in the strong/intense QS alteration. 10cm window of the strange mafic-dominant schist visible at 175.75 - is possible the schist was the original host rock for the unit. 0.25% fracture controlled limonite, 2% disseminated brassy alt-related py
175.9 177.9	HU	mass		Nearly completely oxidized massive unit, again likely the mafic dominant gneiss but no texture remains. Disseminated sooty and brassy pyrite (av. trace) are present at 177.8 in unoxidized windows which appear like the second previous unit. 1% disseminated limonite.
177.9 - 182.6	MxM	phyr		Similar strange green lithology to the one observed from 159-169, expect this one exhibits possible porphyritic texture - could be feldspar porphyroblasts that have subsequently been silicified and shuffled by deformation (most are rounded). Unit exhibits 20-30cm patches of intense QS alteration associated with 0.25% fracture controlled limonite.
		177.9 - 182.6	Pervasive Strong Silicification	Patchy Moderate Sericitisation Replaces Mafics Strong Chlorite
182.6 - 184.3	MxM			Small mineralized version of previous unit. Exhibits vein-halo 0.5% limonite and 0.1% hematite, and sooty pyrite is present in a vein at 183.68 and is disseminated 183.9-184.1 (av. 0.25%). Strong QSO alteration.
		182.6 - 184.3	Patchy Strong Silicification	Pervasive Moderate Sericitisation
184.3 192.6	MxF	augn		Felsic dominant gneiss exhibiting the first real host rock texture in 30m - augens are common and mafic schist is readily apparent. 30cm patch of moderate pervasive clay alteration and 1% hematite around 191m. Otherwise unit is competent and dead, exhibiting moderate pervasive silicification and weak chlorite after bt.
		184.3 - 192.6	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite
192.6 - 193.9	MxF	band		Mineralized felsic dominant gneiss, looks just like T3. Patchy strong oxidation over QSP-altered gneiss. Exhibits 1.5% vein halo hematite, 0.5% limonite, and trace sooty and brassy pyrite, the latter of which is observed to be oxidized cubes throughout the unit. Vuggy foliation parallel quartz veins at 193.23 and 194.25
		192.6 - 193.9	Pervasive Moderate Silicification	Pervasive Weak Sericitisation

193.9 - 197.7	FG	augn		Weakly mineralized felsic gneiss, exhibits 1 m of limonite after fs, proceeds into disseminated mineralization by 196.5. Weak pervasive silicification, weak clay after fs, av. 0.75% limonite and 0.25% hematite (concentrated in last 1.5m). One unoxidized spot exhibits disseminated sooty pyrite. Unit is cut by a 10cm andesite at 195.8.
		193.9 - 197.7	Pervasive Weak Silicification	Replaces Felsics Weak Clay
197.7 - 214.3	FG	augn	Fol-mod	Felsic gneiss, moderate pervasive silicification with common 20-40cm intervals of strong sericite alteration that appear to be spatially associated with fractures/veins. Rare sooty pyrite is also associated with the stronger pulses of sericite, averaging to trace. No observed disseminated brassy pyrite. Limonite is also fracture controlled and is sometimes a product of sooty pyrite oxidation.
		197.7 - 214.3	Pervasive Moderate Silicification	Fracture Controlled Weak Sericitisation
214.3 - 221.6	MxF	augn	Fol-wk	Strongly nearly pervasively QSP altered felsic dominant gneiss with 0.5% disseminated alt-related brassy py and local patches of sooty pyrite and associated limonite (each av. trace). Interval of increased brassy py from 218-218.35 (10% av.) that begins with a single pyrite crystal 1x1.5cm that leads into foliation parallel pyrite in a mafic band.
		214.3 - 221.6	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
221.6 - 231.3	MxF	augn	Fol-wk	Felsic dominant gneiss with 0.5-1m intervals of moderate-strong QSP alteration, no observed brassy pyrite and only rare sooty pyrite (trace). Limonite is fracture-controlled and also trace.
		221.6 - 231.3	Pervasive Moderate Silicification	Patchy Moderate Sericitisation
231.3 - 234.6	FG	augn	Fol-wk	Zonelet, exhibits moderate QSP alteration associated with up to 10% sooty pyrite over 10cm, average to 1.5%. Some of the sooty pyrite is present in stockworks that are dominantly linkages between near-CA parallel veins, also present as locally strong disseminations. Limonite/hematite is common and averages to 0.5% each.
		231.3 - 234.6	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
234.6 - 239.6	MxM	band	Fol-wk	Pervasively strongly QSP altered mafic dominant gneiss (far fewer augens than previous unit). Unit is cut by numerous sooty and rare brassy pyrite veins (av 0.5%). Trace fracture controlled limonite.
		234.6 - 239.6	Pervasive Strong Silicification	Pervasive Strong Sericitisation
239.6 - 249.1	BtS	band	Fol-wk	Biotite schist with 0.2-1.5m intervals lacking QSP alteration. These unaltered intervals exhibit typical alteration minerals (incl. leucoxene). Rare sooty pyrite, av. 0.2% but locally up to 3% over 10cm (243.75, 245.75). Trace fracture controlled limonite.
		239.6 - 249.1	Patchy Moderate Silicification	Patchy Moderate Sericitisation Patchy Weak Leucoxene
249.1 - 258.5	BtS	band	Fol-wk	Zone, mineralized mafic dominant gneiss with one 10cm and one 30cm patch of silicified clast breccia. Locally intense silicification turns lith to HU over 15cm. Uncommon unoxidized patches exhibit disseminated sooty pyrite (av. 0.2%). Unit averages 1% disseminated limonite, 0.5% patchy hematite. Background alteration is likely QSP but is locally overprinted by clay.
		249.1 - 258.5	Pervasive Strong Silicification	Pervasive Weak Sericitisation Pervasive Weak Clay
258.5 - 265.0	BtS	band	Fol-mod	Moderate to strongly pervasively altered biotite schist, stronger sericite than quartz. Relict leucoxene visible where alteration wanes. 5cm patch of 7% sooty pyrite at 260.6 (av. 0.25%), but that's it for sulphide in this unit. Trace fracture controlled limonite, with a local increase 261.85-262.25 that is spatially associated with a bull quartz vein.
		258.5 - 265.0	Pervasive Moderate Silicification	Pervasive Strong Sericitisation Pervasive Weak Leucoxene
265.0 - 274.6	BtS	band	Fol-wk	Biotite schist. Two oxidized weak zones separated by unoxidized QSP altered rock from 269.77-271.8. Entire unit is strongly QSP altered and rare clay is present in fractures, especially around 276 where it forms a network. Unit exhibits 1% disseminated limonite and 0.25% disseminated hematite with trace brassy and sooty pyrite. Ends in a brecciated bull quartz vein from 276.11-EOU which exhibits some sooty pyrite at its down-hole broken margins.
		265.0 - 274.6	Pervasive Strong Silicification	Pervasive Strong Sericitisation
274.6 - 281.9	MxM	pblst	Fol-mod	Strongly QSP altered biotite schist with local felsic bands (contain augens). Feldspars are preferentially clay-altered. Trace fracture-controlled limonite, trace brassy alt-related pyrite.
		274.6 - 281.9	Pervasive Strong Silicification	Pervasive Strong Sericitisation Replaces Felsics Strong Clay
281.9 - 284.2	YC	bxm		Mixed gneiss, exhibits strong fracture controlled clay that leads to a) a silicified clast crackle breccia starting at 282 for up to 50cm (most was not recovered, so it could have been matrix supported), and b) a thin clay-matrix supported silicified clast breccia vein at 283.25. These breccias are flanked by mineralized, strongly QSP altered mixed gneiss.
		281.9 - 284.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation Fracture Controlled Moderate Clay
284.2 - 299.4	MxM	band	Fol-mod	Mafic dominant mixed gneiss with 10-40cm patches of moderate QSP alteration and associated rare sooty pyrite. Rare veins of sooty pyrite are also observed near the QSP patches. Silica after feldspar augens, chlorite after biotite. Unit ends in 50cm of SZ.
		284.2 - 299.4	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite

Drill Log: CFD0260

Easting	584352.77	Hole Length	281 m	Prospect	Supremo T4	Drill Started	Jul 10, 2012	Comment
Northing	6974548.88	Azimuth	266 °	Target	T3	Drill Completed	Jul 12, 2012	
Projection	UTM7-NAD83	Dip	-62 °	Geologist	MRender	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1258.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.4	OVB			
		0.0 - 24.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
				Replaces Mafics Moderate Chlorite
9.4 - 24.3	MxF	augn	Strongly fractured. Casing to 9.34m. Clay alt of fldspr. Augen bearing. Fracture controlled limonite(~0.25%).	
		24.0 - 29.0	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation
24.3 - 29.3	MxF		Weak zone. Strongly fractured. Strong clay alteration of fldspr. Limonite largely fracture controlled and disseminated (0.5-1%). Dismembered qtz veins. Manganese on fracture planes.	
		29.0 - 35.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
29.3 - 47.6	MxF	augn	Variably altered. From 29.28-34.0m- mod clay alteration of fldspr, fracture limonite(~0.25-0.5%), limonite after pyrite, limonite in-vein (0.25%). Sericitic foliation. From 34-41m- moderate silica alteration, patchy hematite (~0.5%). Limonite disseminated and fracture controlled ~0.5%. From 41-45.71m- clay alteration of fldspr, limonite diss and in-vein (~0.5%).	
		35.0 - 37.5	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
				Selective Repl Moderate Sericitisation
		37.5 - 47.6	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
		47.6 - 49.6	Pervasive Strong Clay	
47.6 - 49.6	MxF		Moderate zone. Strong clay pervasive alteration. Pervasive limonite (~2%). Remnant foliation, weakly preserved mafics. Limonite infilling around grain boundaries.	
49.6 - 61.3	MxF	augn	Altered. Moderate clay alteration of fldspr. Augen bearing. Limonite throughout (~0.5-1%), fracture controlled. Weakly disseminated. Sericitic foliation.	
		49.6 - 65.4	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
61.3 - 88.0	MxF	augn	Limonite tapering out. Fracture controlled limonite (~0.25-0.5%). Variably altered, clay alteration of fldspr, weak local silicification. Local bleaching. Chlorite alteration of mafics. At 69.7- 5cm wide zone with pervasive epidote alteration, foliation parallel. Hematite disseminated locally and patchy(~0.5%).	
		65.4 - 79.2	Replaces Felsics Weak Clay	Replaces Mafics Weak Chlorite
		79.2 - 99.0	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
				Patchy Weak Epidote
				Patchy Weak Silicification
88.0 - 99.0	MxF	augn	Strongly fractured. Locally unconsolidated- strong clay alteration. Strong clay alteration of fldspr, locally pervasive- fracture controlled. Limonite fracture controlled (~0.5%) and in-vein. Hematite weakly disseminated (0.25-0.5%).	
99.0 - 99.2	DIOR	fgrn	Fol-wk	Fine-grained mafic dike. Weakly foliated. Limonite fracture controlled, weak clay and chlorite alteration. Limonite (~0.25-0.5%).
		99.0 - 101.5	Replaces Mafics Moderate Chlorite	Pervasive Weak Clay
99.2 - 99.3	MxF	augn	Fol-str	
99.3 - 99.3	DIOR	fgrn	Fol-wk	
99.3 - 99.9	MxF		Weak zone. Fracture controlled/disseminated. limonite ~1%). Clay alteration of fldspr and on fracture planes.	
99.9 - 100.2	DIOR	fgrn	Fol-wk	Fine-grained mafic dike as seen previously. Weakly foliated. Limonite (~0.5%) fracture controlled. Chloritic.
100.2 - 100.3	MxF	augn	Augen-bearing gneiss. Weakly altered- ser+clay.	

100.3 - 101.5	DIOR	fgrn	Fol-wk	Fine-grained mafic dike as seen previously. Chloritic. Pitted- with oxidized rims (after py?). Very weak limonite on fracture planes (~0.25%).		
101.5 - 111.5	MxF	augn		Variably altered. Weak silicification with moderate clay alteration of fldspr. Sericitic foliation. Hematite disseminated (~0.25-0.5%). Limonite fracture controlled (~0.25%).		
		101.5 - 111.5	Replaces Felsics Weak Clay	Patchy Weak Silicification	Selective Repl Moderate Sericitisation	
111.5 - 128.5	MxF	augn		Clay alteration intensifying- locally pervasive (Bleached). From 111.5-111.8m very broken- pervasive clay alteration, unconsolidated. Limonite veining from 117-123.8m, mm-scale infill limonite veins after py? ~25 deg to ca. Dismembered qtz veining from 117-119, opaque fracture qtz. Dendritic Mn on fracture planes.		
		111.5 - 128.5	Replaces Felsics Moderate Clay	Patchy Weak Silicification	Selective Repl Moderate Sericitisation	
128.5 - 130.6	MxF	augn		Strong selective clay alteration of fldpr augen. Limonite on fracture planes (~0.5%) and in rare veins. Broken zone from 128.8-129m with clay + limonite on fractures (~1%).		
		128.5 - 130.6	Replaces Felsics Strong Clay			
130.6 - 137.7	MxF	augn		Variably altered mixed geniss. Clay after fldpr with sericitic foliation. Limonite on fractures with weakly pervasive hematite after biotite?(0.5%).		
		130.6 - 137.7	Replaces Mafics Moderate Clay	Selective Repl Moderate Sericitisation		
137.7 - 142.4	DIOR	phyr		Plag-phearic diorite. Fine-grained mafic matrix. Weak fabric, more strongly foliated at margins. Weakly limonitic at contacts with rare limonite veining. Fro 140-140.2m- weak zone disseminated limonite (~1 %), clay + limonite replacement of fldspr phenos. From 141.38 to basal contact- weak zone, clay + limonite replacement of phenos (~1%). Phenos becoming strongly clay altered towards basal contact.		
		137.7 - 142.5	Replaces Felsics Moderate Clay		Patchy zones of clay alteration of plag phenocrysts in diorite dyl	
142.4 - 164.0	MxF	augn		Variably altered mixed gneiss. Moderate clay alteration of fldspr. Sericite overgrowing foliation. Fracture controlled limonite (~0.5%) and disseminated hematite (~0.5%). Contact with dike above more strongly altered and weakly mineralised (~1% fracture controlled limonite). Weakly siliceous, with sericite overgrowing foliaton.		
		142.5 - 164.3	Replaces Mafics Moderate Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
164.0 - 168.7	MxF	augn		Strongly fractured. Limonite on fracture planes (~0.75%). Augen bearing. Clay altered fldpsr augen.		
		164.3 - 168.7	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		
168.7 - 182.0	MxF	augn		Increased frequency of mafic banding. Strongly altered to chlorite. Carbonate veining foliation parallel. Limonite fracture controlled (0.5%). Hematite patchy throughout- after biotite (0.5%)?		
		168.7 - 181.7	Fracture Controlled Moderate Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Moderate Chlorite	
		181.7 - 199.9	Selective Repl Strong Sericitisation	Replaces Felsics Moderate Clay		
182.0 - 199.8	MxF	augn		Variably altered gneiss. Sericite alteration intensifying (grey banding consisting for fg ser+chl+sil+?alb). Limonite fracture controlled (0.5%). Hematite oxidation weakening(0.25%). Moderate clay alteration of fldspr.		
199.8 - 207.2	MxF	augn		Weak zone. Augen bearing gneiss. Limonite disseminate and fracture controlled (1.5%). Strong clay alteration of fldspr. Sericite defining foliation.		
		199.9 - 207.2	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation		
		207.2 - 218.7	Selective Repl Strong Sericitisation	Replaces Felsics Moderate Clay	Replaces Mafics Weak Chlorite	
207.2 - 212.3	MxF	augn		Variably altered gneiss. Strong sericite alteration in part (grey banding consisting for fg ser+chl+sil+?alb). Limonite fracture controlled (0.5-1%) and disseminated. Hematite oxidation weakening(0.25%). Moderate clay alteration of fldspr.		
212.3 - 216.7	MxF	augn		Weak zone. Unoxidized Qtz+ser+alb? Altered 'windows'. Sooty py+ca vein at 215.3m- 2mm wide with sooty's along slevege and brassy pylocally disseminated. Local strong clay alteration. Limonite veining and locally disseminated (~0.5-1%).		
216.7 - 218.4	MxF	augn		Weak zone. Fully oxidized. Limonite disseminated and on fractures throughout (~1-1.5%). Strong clay alteration of fldspr.		
218.4 - 224.4	IV	fgrn		Zone. Strongly mineralized fg intermediate? Dike. Pervasive limonite (3-6%)+ clay alteration. Coherent. Rare phenocrysts. Upper contact is most stongly . limonitized (~6%) from 218.36-220.5m. From 219-220.5- rubble, unconsolidated. Carbonate pervasive throughout matrix. Interval x-cut by hariline qtz+ca veins ~45 degto core axis.		
		218.7 - 228.2	Pervasive Strong Clay			
224.4 - 225.5	YO	bxm		Zone. Polymictic breccia. Matrix supported. Coherent. Clasts are angular to sub-angular ranging in size rom 2-10mm. Clasts are largely clay+limonite altered. Matrix is limonitized (~6%). Carbonate disseminated throughout matrix.		

225.5 - 228.2	HU	fgrn	Zone. Strongly mineralized. No primary features. Limonite (5-8%) pervasive throughout. Very rare ?clasts- possibly a very altered breccia. From 226.4m becomes more hematitic (lim ~4%, hem ~3%).		
228.2 - 230.2	YC	bxm	Zone. Polymictic breccia. Clasts are subangular-angular. Clatss consist of silicified ?country rock, qtz-vein material and clay+ limonite (~2%). Coherent in part-silicified and transitioning into rubble down-hole.		
		228.2 - 229.1	Pervasive Weak Silicification	Pervasive Moderate Clay	
		229.1 - 234.3	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
230.2 - 231.3	FC	fgrn	Weak zone. Fine-grained felsic intrusive rock, cross-cut by limotie veins (~1%). Unconsolidated in part with Mn (~2%). Basal contact is brecciated, ~5cm wide zone. Polymictic, weakly limonitized matrix.		
231.3 - 234.6	MxF	augn	Weak zone. Mixed gneiss with disseminated and fracture controlled limonite(~1%). Clay alteration of fldspr augen. Weakly chloritic. Sericitic foliation.		
		234.3 - 252.5	Replaces Felsics Weak Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite
234.6 - 250.0	MxF	augn	Variably altered mixed gneiss. Alernating lim-dom vs. hem-dominated zones. Mafics weakly chloritic. Limonited disseminated locally and fracture controlled (~0.5%) and hematite weakly disseminated (~0.5%). Moderate clay alteration of fldspr, sericitic foliation.		
250.0 - 277.3	MxF	augn	Weakly altered. Transitional- hematite oxidation after trace py and biotite? Sericite overgrowing foliation. Weakly siliceous. From 268.73m- 40 cm wide barren opaque qtz vein.		
		252.5 - 281.0	Patchy Weak Silicification	Fracture Controlled Weak Clay	Selective Repl Moderate Sericitisation
277.3 - 277.7	YS	bx	Zone. Vein breccia with clasts of gneiss (subrounded, 4-12mm) suspended in a strongly sericitic matrix with sooty fg disseminated py (0.5%).Silicified. Surrounding country rocks strongly sericitic. Cutting ~20deg to CA.		
277.7 - 281.0	MxF	augn	Weakly altered. Transitional- hematite oxidation after trace py and biotite? Sericite overgrowing foliation. Weakly siliceous.		

Drill Log: CFD0261

Easting	585125	Hole Length	404.77 m	Prospect	Double Double	Drill Started	Jul 11, 2012	Comment
Northing	6973350	Azimuth	180 °	Target		Drill Completed	Jul 18, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist		Core Size	NQ2	
Survey method	estimated	Elevation	1109.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 11.8	BtS	band	Fol-mod	Biotite schist with one 15cm felsic gneiss band at the top. Strongly fractured along foliation. Fracture controlled limonite (trace), no observed pyrite. Unit exhibits moderate chlorite after biotite/amphibole and weak epidote after feldspar.
		6.0 - 11.8	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote
11.8 - 13.9	BtS	band	Fol-mod	Biotite schist which exhibits strong fracture controlled limonite (~0.5%), zone shoulder. Unit is cut by common chalcedony-carbonate veins at moderate angles to CA. Zone shoulder.
		11.8 - 13.9	Pervasive Weak Clay	
13.9 - 17.1	YC	bx		Zone, flanked by mineralized biotite schist and cored by polyphase breccia: first bx from 14.7-14.91 is subangular silicified clast supported with lim-silica matrix, second -15.23 is clay-lim matrix supported subrounded silicified clast breccia, contains sooty py, and third -15.27 is monomictic (schist clasts), silica-chlorite matrix supported. Entire unit contains 1.5% disseminated limonite and 0.25% hematite in patches. Limonite fades up- and down-hole.
		13.9 - 17.1	Pervasive Moderate Clay	Pervasive Weak Silicification
17.1 - 23.8	MxM	band		Patchy weak zone, dominantly biotite schist with local felsic gneiss bands. Limonite is dominantly fracture controlled but is locally disseminated (av. 0.5%). 10cm clay matrix supported monomictic breccia where clasts are ~1mm and are un/weakly altered felsic gneiss. Silica after felsic bands, weak clay throughout. Last metre of uni exhibits most of the sulphide and clay alt.
		17.1 - 23.8	Pervasive Weak Clay	Replaces Felsics Weak Silicification
23.8 - 40.0	MxM	band	Fol-mod	Dominantly fresh biotite schist with 1.5m bands of felsic gneiss. Unit is cut by numerous carbonate veins with limonite selvages at random angles to CA. Felsic bands are strongly silicified and mafic bands exhibit weak chlorite after biotite and epidote after feldspar. Trace disseminated brassy metamorphic pyrite.
		23.8 - 40.0	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite Replaces Felsics Weak Epidote
40.0 - 49.0	BtS			Extremely altered schist, such that no schist really exists anymore: strong epidote (is intergrown with calcite) and strong chlorite along with quartz clots/veins is all that is left of the rock. Common disseminated pyrite.
		40.0 - 49.0	Replaces Mafics Strong Epidote	Replaces Felsics Moderate Calcite Replaces Mafics Strong Chlorite
49.0 - 58.3	MxM	band	Fol-mod	Biotite schist with rare bands of strongly silicified felsic gneiss, standard alteration suite of chlorite-epidote
		49.0 - 58.3	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote Replaces Felsics Weak Silicification
58.3 - 66.7	BtS	band	Fol-mod	Biotite schist, standard alteration suite, now including weak disseminated leucoxene. Locally strong epidote, disseminated pyrite is sometimes partially oxidized.
		58.3 - 66.7	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote Pervasive Weak Leucoxene
66.7 - 70.1	MxM	band	Fol-mod	Biotite schist with a couple bands of strongly silicified felsic gneiss at its top and bottom.
		66.7 - 70.1	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote Replaces Felsics Weak Silicification
70.1 - 84.8	BtS	band	Folded	Biotite schist, strong chlorite and moderate epidote, exhibits local folding of foliation and crenulation. Trace brassy pyrite. Fabric is very distorted - unit was plastically deformed.
		70.1 - 84.8	Replaces Mafics Strong Chlorite	Replaces Felsics Moderate Epidote

84.8 - 114.2	MxM	band	Fol-mod	Mafic dominant gneiss with uncommon, 10-50cm bands of strongly silicified felsic gneiss, but by near-CA parallel limointe-carbonate-quartz veins, some of which are spatially associated with strong oxidation and clay alteration. Brassy metamorphic pyrite is rare and typically partially oxidized.		
		84.8 - 114.2	Replaces Mafics Moderate Chlorite	Replaces Felsics Weak Epidote	Replaces Felsics Weak Silicification	
114.2 - 126.3	MxF	band	Fol-wk	Felsic dominant gneiss occurring as 5-150cm bands of felsic gneiss with 5-70cm bands of biotite schist. Unit exhibits strong (locally intense) fracture controlled clay from 117.3-120.6. Small vuggy carbonate breccia vein at 124.6. Metamorphic pyrite is completely oxidized.		
		114.2 - 126.3	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite	Fracture Controlled Moderate Clay	
126.3 - 142.4	IV	phyr		Coarse grained feldspar-porphyritic andesite dike. Preserved upper contact but destroyed lower contact. Strong silicification of feldspar phenocrysts, weak silica and moderate chlorite in the groundmass. Strong fracture-controlled clay starting at 133.7 and continuing to end of unit. Rare fracture-controlled limonite, no observed pyrite.		
		126.3 - 142.4	Replaces Felsics Strong Silicification	Replaces Matrix Moderate Chlorite	Fracture Controlled Moderate Clay	
142.4 - 161.4	MxF	band	Fol-wk	Felsic gneiss with small interbands of biotite schist. Strong silica after feldspar in FG, weak chlorite after biotite, rare pyrite (some of it is completely oxidized, other grains are fresh). Strong fracture-controlled clay in first 50cm of unit. Fracutre controlled limonite begins to increase at 151m		
		142.4 - 161.4	Replaces Felsics Strong Silicification	Replaces Mafics Weak Chlorite		
161.4 - 164.3	MxM	band	Fol-mod	Zone shoulder. Weakly QSP altered biotite schist with local disseminations of ~2% sooty pyrite over 5-10cm (av. 0.25%) and patchy fracture controlled limonite av. 0.25%.		
		161.4 - 164.3	Pervasive Weak Silicification	Pervasive Weak Sericitisation		
164.3 - 165.2	BtS	mgrn	Fol-wk	Zone. Moderately QSP altered biotite schist with 1% hematite with 0.25% limonite around two fractures at 164.65 and 165.01. Disseminated sooty pyrite present where unoxidized and averages 0.5%.		
		164.3 - 165.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
165.2 - 166.6	HU			Zone. Hydrothermally altered unrecognizable unit (likely former gneiss), begins with 10cm of crackle breccia with clay matrix (perhaps was a clay stockwork, but is somewhat broken) and a similar unconsolidated breccia occurs from 165.88-166.10. The entire unit exhibits vugs and pockmarks, and is covered by clay-limonite spots (former feldspars?). 1% disseminated limonite, 0.2% disseminated hematite.		
		165.2 - 166.6	Pervasive Intense Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Moderate Clay	
166.6 - 167.6	FG	augn	Fol-wk	Zone. Mineralized felsic gneiss with 1.5% disseminated likmoite, 0.25% disseminated hematite, and quartz-clay alteration.		
		166.6 - 167.6	Pervasive Strong Silicification	Replaces Clasts Weak Clay		
167.6 - 170.7	FG	augn	Fol-wk	Zone. Weakly oxidized and mineralized felsic gneiss. Exhibits strong QSP alteration.Average 2% sooty pyrite occurs as local disseminations and as stringers/veins throughout the unit. 1% Brassy pyrite also occurs as veins and disseminated. Hematite staining occurs near fractures (0.2%).		
		167.6 - 170.7	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Fracture Controlled Weak Clay	
170.7 - 172.7	FG	band	Fol-wk	Zone. Oxidized felsic gneiss with disseminated 1% limonite and 1% hematite. Sooty pyrite is observed in small unoxidized patches (av 0.2%). Unit is strongly pervasively silicified with local intense patches. Unit is cut by silica and rare clay veins.		
		170.7 - 172.7	Pervasive Strong Silicification	Fracture Controlled Weak Clay		
172.7 - 174.2	BtS	band	Fol-wk	Zone shoulder. Strongly QSP altered, unoxidied former schist with 0.2% fracture controlled limonite and no observed pyrite.		
		172.7 - 174.2	Pervasive Strong Silicification	Pervasive Strong Sericitisation		
174.2 - 179.2	MxM	band	Fol-wk	Zone. Strongly silicified and mineralized mafic dominant gneiss locally grading to HU where silicification becomes intense - exhibits typical mottled texture (limonite-clay spots). Strong pervasive clay from 176.9-177.35 also turns rock into HU, reminiscnt of some dikes in T3. 2% disseminated limonite, 1% disseminated hematite concentrated in patches.		
		174.2 - 175.2	Pervasive Strong Silicification	Patchy Moderate Clay		
		175.2 - 180.1	Replaces Clasts Intense Silicification	Replaces Mafics Strong Clay		
179.2 - 180.1	YC	bxm		Zone. Clay-limonite matrix supported subangular to subrounded 1-15mm silicified clast breccia and some intermixed mineralized felsic gneiss. Clasts are intensely silicified. Unit contains 1% disseminated limonite and 0.5% disseminated hematite concentrated along fractures and near end of unit.		
180.1 - 185.9	MxF	band	Fol-wk	Zone. Felsic dominant gneiss exhibits strong to locally intense silicification, locally strong clay over 30cm to 1m but is generally moderate and fracture-controlled. HU zones exhibit mottled texture. 1% dissminated limonite and 1% disseminate hematite (locally up to 3% over 1m).		
		180.1 - 185.9	Pervasive Strong Silicification	Fracture Controlled Moderate Clay	Patchy Weak Sericitisation	

185.9 - 187.4	BtS	band	Fol-wk	Zone shoulder. Strongly QSP altered BtS with a QS-matrix supported 1mm silicified clast breccia from 186.47-186.9. Unit exhibits 0.5% disseminated brassy alt-related pyrite, 0.2% fracture-controlled limonite, and 0.2% fracture controlled hematite.
		185.9 - 187.4	Pervasive Strong Sericitisation	Pervasive Strong Sericitisation
187.4 - 189.9	BtS	band	Fol-wk	Zone. Strongly QSP biotite schist (still locally exhibits leucoxene). Partially oxidized: exhibits 10% sooty pyrite in unoxidized windows, and 2% limonite and 3% hematite where oxidized. Average of 2% hematite, 1% limonite, and 1% sooty pyrite.
		187.4 - 189.9	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Pervasive Weak Leucoxene
189.9 - 191.1	BtS	band	Fol-mod	Unmineralized biotite schist, exhibits standard weak chlorite after biotite, weak epidote after feldspar, and disseminated leucoxene. Exhibits weak QS alteration
		189.9 - 192.2	Pervasive Weak Silicification	Pervasive Weak Sericitisation Replaces Mafics Weak Chlorite
191.1 - 192.2	BtS	band	Fol-mod	Zone. Biotite schist with up 20% finely disseminated sooty pyrite, averages to 4%. Exhibits weak pervasive QSP alteration, weak disseminated leucoxene.
192.2 - 195.4	HU	mass		Zone. Mottled HU (probably former schist as it is on either side), exhibits typical intense silicification, limonite-clay spots, and is generally not very sulphide-rich (1.5% disseminated limonite, 0.25% hematite). Foliation is locally visible.
		192.2 - 195.4	Pervasive Intense Silicification	Fracture Controlled Weak Clay
195.4 - 204.1	BtS	band	Fol-mod	Barren mafic dominant gneiss with 10-30cm pulses of strong QSP alteration. Possible metabasalt from 197.4-197.75, plag porphyritic andesite from 199.45-199.8. The rest of the unit exhibits weak chlorite after biotite moderate silica after felsic gneiss bands.
		195.4 - 204.1	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Patchy Weak Sericitisation
204.1 - 208.6	MxF	augn	Fol-wk	Zone. Felsic dominant gneiss with 10-30cm patches of 50% sooty sulphide that occurs as major disseminations and in veins, between intervals of disseminated sooty pyrite. Local oxidation produces limonite and hematite over 5-50cm. Rock is strongly pervasively QSP altered, locally intense silica produces 20-40cm bands of HU. Unit has av. 3% sooty pyrite, 1% limonite, and 0.5% hematite.
		204.1 - 208.6	Pervasive Strong Silicification	Pervasive Strong Sericitisation
208.6 - 208.8	YC	bxi		Small weakly developed silicified clast-supported breccia with silica-limonite matrix. 2% limonite and 0.25% hematite. Weak pervasive clay
		208.6 - 208.8	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
208.8 - 219.8	MxF	augn	Fol-mod	Zone. Felsic dominant gneiss, strongly QSP altered with weak pervasive clay alteration. Unit contains 1-5% sooty pyrite veins, cutting the core at numerous different angles but about half are near CA parallel. Unit averages 2% sooty pyrite, 0.5% disseminated alt-related brassy pyrite, 0.5% fracture-controlled limonite, and 0.25% fracture controlled hematite.
		208.8 - 219.8	Pervasive Strong Silicification	Pervasive Strong Sericitisation Pervasive Weak Clay
219.8 - 232.8	IV	phyr		Weak zone. Plag porphyritic andesite that exhibits patchy alteration and mineralization. First patch occurs from SOU to 223.11 and is characterized by a single multiphase laminated quartz vein that runs right down the CA with spatially associated moderate QSP alteration and sooty pyrite mineralization (7% disseminated). Weak limonite along said vein and in cross-cutting fractures. Second unit is dominantly barren and runs to 227.40. It exhibits quartz after phenocrysts, patchy weak sericite and 1 patch of strong clay. The third unit is moderately QSP altered with av. 5% disseminated pyrite (10% from 228-228.3) and runs to 228.67. The fourth unit is dominantly barren but exhibits a patch of sooty pyrite mineralization from 231-231.25 associated with moderate pervasive clay, and runs to 232.76.
		219.8 - 223.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		223.2 - 227.4	Replaces Felsics Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Clay
		227.4 - 228.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation
		228.7 - 232.8	Replaces Felsics Moderate Silicification	Patchy Weak Sericitisation
232.8 - 237.0	IV	phyr		Zone. Is the same lith as before but is strongly pervasively clay altered and oxidized. Phenocrysts are uncommon and barely visible. Disseminated 3% limonite and 2% hematite.
		232.8 - 237.0	Pervasive Strong Clay	
237.0 - 238.7	HU	mass		Zone. Intensely silicified unrecognizable unit. Exhibits local mottled texture, so is likely a former schist. 5cm of clay-limonite matrix-support subangular silicified clast breccia at 237.94. Unit exhibits 0.5% disseminated limonite, 0.25% disseminated hematite, and moderate fracture-controlled clay.
		237.0 - 238.7	Pervasive Intense Silicification	Fracture Controlled Moderate Clay
238.7 - 244.8	BtS	band		Zone. Strongly fractured biotite schist that exhibits strong pervasive clay, moderate pervasive silica, 1.5% limonite, and 0.5% fracture controlled hematite. Last 2m of unit are consolidated.
		238.7 - 244.8	Pervasive Strong Clay	Pervasive Moderate Silicification
244.8 - 247.0	BtS	band	Fol-wk	Patchy zone. Unit exhibits strong pervasive QSP alteration with patchy sooty pyrite locally up to 20% over 10cm, averaging to 1% over the unit. Rest of the unit exhibits 1% alt-related brassy pyrite. Limonite is spatially associated with fractures and averages to 0.25%.
		244.8 - 247.0	Pervasive Strong Silicification	Pervasive Strong Silicification

247.0 - 251.4	HU	mass		Zone. Hydrothermally altered unrecognizable, most likely an intensely silicified biotite schist. Moderate fracture-controlled clay, mottled texture is common but no pervasive. Limonite is dominantly disseminated and 1%, rare disseminated sooty and alt-related brassy pyrite.
247.0 - 251.4		Pervasive Intense Silicification	Pervasive Weak Sericitisation	Fracture Controlled Moderate Clay
251.4 - 253.4	YC	bxm		Zone. 3 different breccias, 2 in first 40cm, last is separated from the first 2 by strongly clay-altered and limonitic schist. First is an angular strongly silicified clast-supported limonite-hematite-clay matrix breccia that is locally a crackle breccia, to 251.64. Second is a clay-hematite-limonite matrix supported intensely silicified sub angular clast breccia to 251.74. The third, from 252.5-EOU, is an intensely silicified sub-angular clast-supported silica-limonite-clay matrix breccia. Average limonite is 1.5% with 0.5% hematite.
251.4 - 253.4		Replaces Clasts Strong Silicification	Pervasive Strong Clay	
253.4 - 256.5	HU	mass		Weak zone. Intensely silicified rock, likely former biotite schist. Contains 1 patche of 2% each limonite and hematite, from SOU-253.93. The rest of the unit exhibits only 0.5% limonite.
253.4 - 256.5		Pervasive Intense Silicification	Fracture Controlled Weak Clay	
256.5 - 257.9	YC	bxi		Zone. Similar to second previous unit where 1 phase of breccia at the SOU is separated by mineralized and clay-altered schist from the breccia at EOU. First phase, to 257.05, is a white clay+/-limonite matrix-supported intensely silicified angular clast breccia with crackled regions, and the second from 257.65-EOU is an unconsolidated white clay matrix-supported subangular intensely silicified clast breccia. Limonite averages 0.5% and is mostly in the internal schist.
256.5 - 257.9		Replaces Clasts Intense Silicification	Replaces Matrix Intense Clay	
257.9 - 260.7	HU	mass		Weak zone. Intensely silicified former biotite schist (?), exhibits common mottled texture. Some limonite is finely disseminated in the silica-altered rock. Av. 0.75% limonite and 0.25% hematite.
257.9 - 266.5		Pervasive Intense Silicification		
260.7 - 261.0	YC	bxm		Zone. Angular to subangular 1-15mm intensely silicified clast-supported breccia with silica-limonite matrix. Clasts are mottled HU from previous and next units. 0.75% disseminated limonite, 0.25% disseminated hematite.
261.0 - 266.5	HU	mass		Weak zone. Is basically a continuation of second previous unit. However the intensity of silicification is waning, and as such foliation is locally observed.
266.5 - 269.7	BtS	band	Fol-wk	Zone. Strongly silicified mafic dominant gneiss with rare observable augens, but silicification is locally intense. Unit exhibits 1% disseminated each limonite and hematite.
266.5 - 269.7		Pervasive Strong Silicification	Patchy Weak Sericitisation	
269.7 - 278.1	BtS	band	Fol-mod	Biotite schist with 0.1-1m patches of strong QSP alteration and limonite/hematite staining, limonite also farcture controlled (av. 0.25%). Mini zone from 272-272.75 where core loss has been experienced - wahsed away breccia? The schist is weakly silicified and exhibits weak chlorite after biotite.
269.7 - 278.1		Pervasive Weak Silicification	Replaces Mafics Weak Chlorite	
278.1 - 284.2	BtS	band		Former biotite schist, now almost a non-mineralized HU. Unit has experienced significant core loss and at its core is a 20cm SZ. Strong epidote, strong chlorite, weak silicification, 0.2% fracture-controlled hematite, trace fracture controlled limointe. Rare partially oxidized brassy pyrite.
278.1 - 284.2		Pervasive Strong Epidote	Pervasive Strong Chlorite	Replaces Felsics Weak Silicification
284.2 - 289.1	BtS	band	Fol-mod	Biotite schist, is a less altered version of previous unit. Unit exhibits weak pervasive silicification, moderate chlorite after biotite, and weak patchy epidote. Disseminated brassy pyrite is observed as being either fresh or completely oxidized. Brecciated bull quartz veins present at 284.20, 284.67 and 285.37. They are not mineralized.
284.2 - 289.1		Replaces Mafics Moderate Chlorite	Pervasive Weak Silicification	Patchy Weak Epidote
289.1 - 292.1	BtS	band	Fol-mod	Patchy zone. Biotite schist exhibiting almost 2m of 1.5% limonite, followed by 80cm of barren rock followed by 50cm of 10% sooty pyrite-mineeralized schist associated with strong QSP alteration. Average 0.5% disseminated limonite, 1% disseminated sooty pyrite.
289.1 - 292.1		Patchy Moderate Silicification	Patchy Moderate Sericitisation	Patchy Weak Clay
292.1 - 292.7	MV	mass		Barren white bull quartz vein. Exhibits trace limonite and hematite in fractures.
292.7 - 294.1	BtS	band	Fol-wk	Zone. Moderately pervasively clay-altered biotite schist that exhibits 2% limonite and 1% hematite, both disseminated.
292.7 - 294.1		Pervasive Moderate Clay		
294.1 - 296.9	BtS	band	Fol-mod	Patchy oxidized biotite schist with rare disseminated brassy pyrite, patchy 0.5% limonite averaged over unit. Weak QSP alteration observed where unoxidized.
294.1 - 296.9		Pervasive Weak Silicification	Pervasive Weak Sericitisation	
296.9 - 301.8	BtS	band		Zone. Peravensively weakly silicified and moderately clay altered biotite schist with 2% disseminated each limonite and hematite. Clay becomes intensely patchy from 300 onwards, and unit ends in nearly unconsolidated schist.
296.9 - 301.8		Pervasive Weak Silicification	Pervasive Moderate Clay	

301.8 - 304.2	BtS	band	Fol-wk	Barren biotite schist, weak pervasive QSP alteration which is locally strong over 20cm. No observed pyrite. Limonite is dominantly fracture-controlled with one patch of 0.75% from 302.3-303.65. Averages to 0.25%.	
		301.8 - 304.2	Pervasive Weak Silicification	Pervasive Weak Sericitisation	
304.2 - 308.1	BtS	band	Fol-wk	Zone. Biotite schist, exhibits moderate to strong QSP alteration, and up to 10% sooty pyrite over 20cm (av. 2%). Unit is ~60% oxidized, leading to local fracture controlled limonite (av. 0.5 and 1%, respectively). Anastomosing near CA-parallel qtz-lim vein from 305.5-306.	
		304.2 - 308.1	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
308.1 - 314.3	HU	mass		Weak zone. Pale coloured intensely silicified rock, likely former schist, exhibits local mottled texture. Rock is cut by frequent clay veins at numerous orientations, some of which mature into thin breccias that are clay-limonite matrix supported subrounded silicified clast breccias. The largest runs from ~312 to 313.2 and exhibits clasts up to 2cm in diameter. The unit averages 0.5% disseminated limonite and 0.1% disseminated hematite.	
		308.1 - 316.9	Pervasive Intense Silicification	Replaces Matrix Intense Clay	
314.3 - 316.9	Ylim	bxm		Zone. Dominantly clay-limonite-hematite matrix supported subangular intensely silicified clast breccia with local hydrothermally altered unrecognizable sub-units. Unit is mostly clay-rich rubble. 1% disseminated limonite, 0.5% disseminated hematite.	
316.9 - 321.7	HU	mass		Zone. Hydrothermally altered unrecognizable (former schist, first 30cm of unit are foliated) and a crackle breccia with weakly rotated HU clasts grading to stockwork clay-hematite veining from 319.27-320. Unit exhibits strong red hematite colour (3% disseminated), and 1% limonite.	
		316.9 - 321.7	Pervasive Intense Silicification	Fracture Controlled Strong Clay	
321.7 - 324.2	HU	mass		Weak zone. Intensely silicified rock, frequently cross-cut by clay veins, with a patch of clay-limonite matrix-supported angular intensely silicified clast breccia from 321.97-322.11. Foliation rarely visible in HU. Unit exhibits 0.25% fracture controlled hematite and trace limonite.	
		321.7 - 324.2	Pervasive Intense Silicification	Fracture Controlled Moderate Clay	
324.2 - 326.0	YC	bxm		Weak zone. Rubby interval. Intensely silicified angular clast-supported breccia with clay matrix to 324.84, clay-brown hematite matrix supported fine grained intensely silicified clast breccia to EOU. Last 75cm of unit are completely destroyed. 1% hematite, trace limonite.	
		324.2 - 328.8	Replaces Clasts Intense Silicification	Replaces Matrix Intense Clay	
326.0 - 328.8	YC	bxv		Weak zone. Three breccia horizons with intact contacts: dipping down-hole at 8 degrees (no ori) - likely subvertical in real space. First breccia contacts the second at 327.44 and is a coarse grained clay-limonite matrix supported subrounded silicified clast breccia. Clasts are up to 5cm in diameter. The matrix becomes brown by 327.3. The second breccia contacts the third at 328 and is a clay-limonite matrix supported fine grained silicified clast breccia. The third is a intensely silicified clast crackle breccia with clay matrix and 2% hematite in the clasts. This final breccia becomes unfractured rock by EOU. Unit averages 1% limonite and 0.2% hematite.	
328.8 - 349.8	HU			Strongly altered rock (likely BtS protolith). Mottled texture. Variably silicified. Strong sericite, weak clay. 1-2% limonite up to 335m	
		328.8 - 351.7	Pervasive Intense Silicification	Pervasive Strong Sericitisation	Patchy Weak Clay
349.8 - 350.1	PyF	mass	Fol-str	Pyritic fault, strong-intense clay 10% sulfide	
350.1 - 351.7	YC	bx		silicified clast breccia, blocky, milled silicified clasts, 1-3% limonite/ Sooty sulfide in matrix, moderate silicification,	
351.7 - 352.3	HU	mass		intense (massive) clay - HU. 5% Sooty sulfide	
		351.7 - 352.3	Pervasive Intense Clay		
352.3 - 356.0	HU			intensely altered rock with local breccia, strong-intense silicification, strong sericite, weak clay, very blocky, 1-3% disseminated sooty sulfides	
		352.3 - 356.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation	
356.0 - 361.3	IV		Fol-wk	mafic dike with local weak-moderate foliation. weak chlorite alteration, 0.1% calcite veinlets	
		356.0 - 386.0	Replaces Mafics Weak Chlorite		
361.3 - 404.8	BtS	pblst	Fol-str	biotite schist, variable weak-strong chlorite. weak-moderate albite, sericite, silicification from 306-404.77m. 5% sooty sulfides in veinlets from 395.78-396.02m.	
		386.0 - 404.8	Replaces Mafics Moderate Chlorite	Pervasive Moderate Albite	Pervasive Moderate Sericitisation

Drill Log: CFD0262

Easting	584330	Hole Length	251 m	Prospect	Supremo T3	Drill Started	Jul 12, 2012	Comment
Northing	6974600	Azimuth	265 °	Target	T3	Drill Completed	Jul 15, 2012	
Projection	UTM7-NAD83	Dip	-55 °	Geologist	MRender	Core Size	NQ2	
Survey method	estimated	Elevation	1256.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.1	OVb			
		0.0 - 25.0	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation
				Replaces Felsics Weak Clay
5.1 - 51.7	MxF	augn	Casing to 6m. Variably altered. Oxidized. Limonite weakly disseminated and fracture controlled throughout. Patchy silicification. Sericite overgrowing foliation. Chlorite alteration after mafics. Weakly fractured. Becoming increasingly fractured towards base of unit, with increased silicification (pervasive locally).	
		25.0 - 27.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
				Fracture Controlled Weak Clay
		27.0 - 35.0	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification
				Fracture Controlled Weak Clay
		35.0 - 51.7	Patchy Strong Silicification	Replaces Mafics Moderate Sericitisation
				Fracture Controlled Weak Clay
51.7 - 54.4	MxF	augn	Weak zone. Strong clay alteration of fldspr and mafics, pitted in part. Limonite locally pervasive but is largely fracture controlled (~1%).	
		51.7 - 55.2	Pervasive Strong Clay	Selective Repl Moderate Sericitisation
54.4 - 55.2	FLT		Weak zone. Rubble/unconsolidated fault gauge? Local Hu with up to 5% disseminated limonite. Strong pervasive clay alteration.	
55.2 - 62.6	MxM		Mafic-dominated. Chlorite alteration of mafics with later sericite overgrowing foliation. Weak clay alteration, fracture controlled. Patchy silicification.	
		55.2 - 62.6	Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification
				Fracture Controlled Weak Clay
		62.6 - 64.7	Pervasive Strong Silicification	Fracture Controlled Weak Clay
62.6 - 64.7	MxF	silc	Strongly silicified. Weakly disseminated hematite (~0.25%). Weakly remnant foliation.	
64.7 - 67.1	MxF	augn	Strong clay alteration- locally pervasive but largely replacing fldspr. Limonite disseminated and in-vein (~0.5%).	
		64.7 - 74.0	Replaces Felsics Strong Clay	Patchy Weak Silicification
67.1 - 67.6	YC	bxm	Zone. Clast supported moderately mature breccia. Clasts are silicified gneiss, angular to subrounded 2-10mm. Limonite + clay matrix (~2%).	
67.6 - 72.5	MxF	augn	Weak zone.Strong clay alteration- locally pervasive but largely replacing fldspr. Limonite disseminated and in-vein (~1-2%). From 68.85-69.1m, opaque qtz vein with euhedral pyrite cubes oxidized to hematite along margins.	
72.5 - 89.9	MxF	augn	Mixed gneiss. Augen bearing. Local pervasive silicification. Sericitic foliation. Limonite on fractures an in rare veins.	
		74.0 - 82.0	Selective Repl Moderate Sericitisation	Patchy Moderate Silicification
		82.0 - 83.2	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation
		83.2 - 85.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
				Replaces Felsics Weak Clay
		85.0 - 88.5	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation
		88.5 - 93.6	Pervasive Moderate Silicification	Moderate Sericitisation
89.9 - 90.0	FC	fgrn	Fol-wk	Narrow felsic dyke. Limonitic margins. Weakly foliated. Fine-grained.
90.0 - 93.6	MxF	augn	Augen bearing mixed gneiss. Moderately silicified. Clay alteration of fldspr and on fracture planes. Sericite overgrowing foliation. Limonite fracture controlled (~0.2%).	

93.6 - 94.1	IV	fgrn	Fol-wk	Fine-grained mafic dyke. Preferentially carbonate altered- parallel to foliation. Limonite along dike margins. Weak fabric.		
93.6 - 94.1			Pervasive Moderate	Calcite		
94.1 - 96.2			Replaces Felsics	Moderate Clay		
94.1 - 94.8	MxF	augn		Strong clay alteration of fldspr. Limonite in-vein and on fractures (~0.5%). Augen bearing.		
94.8 - 95.0	IV	fgrn		Fine-grained mafic dike. Cross-cut by Fe-carb veins(~2%).		
95.0 - 96.2	MxF	augn		Weak zone. Disseminated and fracture controlled limonite (~2%). Clay alteration of fldspr.		
96.2 - 100.4	MxF	silc		Silicified interval with hematite throughout- parallel to foliation. Patchy epidote alteration.		
96.2 - 100.3			Pervasive Moderate	Silicification	Selective Repl Moderate Sericitisation	Patchy Weak Epidote
100.3 - 103.6			Pervasive Strong	Sericitisation	Pervasive Moderate Silicification	Selective Repl Weak Chlorite
100.4 - 107.0	MxF	augn		Weak zone. Disseminated limonite and in vein (~2%). Clay altered fldspr. From 102.95-103.56- unoxidized window with strong ser+chl.		
103.6 - 106.7			Pervasive Strong	Clay		
106.7 - 112.2			Pervasive Moderate	Silicification	Selective Repl Moderate Sericitisation	
107.0 - 116.0	MxF	augn		Moderately silicified. Sericite overgrowing foliation. Augen bearing. Hematite (preferential to foliation- after bt?)(~0.5%) + limonite(disseminated and in-vein (~0.5%) throughout.		
112.2 - 125.0			Pervasive Moderate	Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Moderate Clay
116.0 - 116.5	IV	fgrn		Fine grained intermediate dyke. Cross-cut by ca-veins. Weakly altered on basal contact with weak limonite (~0.5%).		
116.5 - 122.0	MxF	augn		Altered. Silicified- pervasive. Local fracturing with limonite on fracture planes. Clay alteration of fldspr. Limonite ~0.5%- fracture controlled.		
122.0 - 125.3	MxF	augn		Becoming increasingly limonitic- fracture controlled and disseminated (0.5-1%). Strong clay alteration of fldspr.		
125.0 - 126.0			Pervasive Strong	Clay		
125.3 - 126.0	FC	fgrn		Zone. Fine-grained felsic dyke? Strongly limonitic (5%). Limonite disseminated and in stylolites (~1%).		
126.0 - 126.6	HU			Intensely clay altered MxF? Weakly limonitic (~0.5%) with rare limonite veins.		
126.0 - 126.7			Pervasive Intense	Clay		
126.6 - 131.3	IV	mgrn		Zone. Medium-grained, equigranular intermediate? Possibly diorite. Intensely altered- clay altered (moderately pervasive). Limonite disseminated throughout (~4%).		
126.7 - 136.1			Pervasive Strong	Clay		
131.3 - 133.2	MxF	augn		Lens of mixed gneiss. Augen bearing, silicified. Becoming increasingly fractured down-hole . Cross-cut by silicified limonite clay veins.		
133.2 - 135.4	YO	bxv		Zone. Polymictic breccia. Majority of clasts are silicified gneiss with lesser clay altered clasts. Matrix supported- cream clay with weak limonite (~0.5-1%). Clasts are subrounded to rounded and range in size from 2-10mm. Locally silicified- coherent sections but is largely unconsolidated.		
135.4 - 136.2	FC			Zone. Fine-grained felsic dyke. Strongly altered- clay pervasive. Moderately mineralised- Disseminated limonite- patchy in part (~1-2%)		
136.1 - 137.6			Pervasive Strong	Silicification	Fracture Controlled Moderate Clay	
136.2 - 136.6	MxF	augn		Altered. Strong clay alteration of fldpr. Silicified. Fractured- with limonite infilling ~1%.		
136.6 - 137.0	HU	fgrn		Zone. Strongly limonitic-disseminated (~5%). Possible dike No fabric. Cross-cut by clay+lim veins.		
137.0 - 141.0	MxF	augn		Strongly altered. Abundant clay+limonite+sil - chalcedonic veins cross-cutting interval (~1%)) Some irregular, others ~30deg to core axis. Strong clay alteration of fldspr.		
137.6 - 157.7			Replaces Felsics	Strong Clay	Patchy Moderate Silicification	
141.0 - 166.4	MxF	augn		Strongly altered. Variably altered. Largely clay altered with rare silicified intervals and rare ser+sil altered unoxidized zones. Unoxidized zones are pitted with oxides after ehudral pyrite. Locally bleached -from 164.15-166.3m. Limonite disseminated locally, in-vein and on fractures (~0.5-1%).		
157.7 - 159.8			Pervasive Strong	Sericitisation	Pervasive Moderate Clay	
159.8 - 164.2			Replaces Felsics	Strong Clay	Replaces Felsics Moderate Chlorite	
164.2 - 166.3			Pervasive Moderate	Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay
166.3 - 173.7			Pervasive Moderate	Silicification	Selective Repl Moderate Sericitisation	

166.4 - 174.0	MxF	augn	Variably altered. Moderate patchy silicification. Sericite overgrowing foliation. Weakly limonitic- fracture controlled (~0.25%)		
		173.7 - 175.4	Pervasive Strong Clay		
174.0 - 175.2	MxF	augn	Weak zone- strongly altered. Strong clay alteration of fldspr. Weak disseminated limonite and in-vein (~0.75%).		
175.2 - 216.7	MxF	augn	Fresh gneiss. Weakly altered in part- local silcification. Weak limonite (<0.25% fracture controlled).		
		175.4 - 216.7	Pervasive Weak Silicification	Fracture Controlled Weak Clay	Selective Repl Moderate Sericitisation
216.7 - 227.2	MxF	augn	Increased alteration. Limonite on fracture planes (0.5%). Moderate clay alteration of fldspr and on fracture planes.		
		216.7 - 224.0	Fracture Controlled Moderate Clay	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite
		224.0 - 230.5	Patchy Moderate Calcite	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
227.2 - 227.4	Ylim	bx	Zone? Brecciated limonite vein. Matrix consists of limonite (~5%) + calcite and clay. Coherent-silicified? Angular clasts of gneiss ranging in size from 2-15mm. Matrix supported. Cross-cutting ~10deg to CA		
227.4 - 251.0	MxF	augn	Fresh gneiss. Weakly altered. Limonite fracture controlled (<0.25%). Mafic intervals weakly chloritic.		
		230.5 - 251.0	Fracture Controlled Weak Clay	Patchy Weak Silicification	Selective Repl Moderate Sericitisation

Drill Log: CFD0263

Easting	584254.81	Hole Length	155 m	Prospect	Supremo T3	Drill Started	Jul 15, 2012	Comment
Northing	6974403.84	Azimuth	268 °	Target	T3	Drill Completed	Jul 16, 2012	
Projection	UTM7-NAD83	Dip	-60 °	Geologist	MRender	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1274.6 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 15.7	MxF	0.0 - 15.7 band	Fracture Controlled Moderate Clay	Casing to 6m. Oxidized/weathered. Mafics weathering to clay- weak and chloritic. Fracture controlled limonite (0.25-0.5%). Strong discrete zones of clay alteration- weathering-unoconsolidated.
15.7 - 15.7	YO	bxm		Zone. Mature breccia- fault gauge? Milled siliceous grains of MxF, 2-3mm scale. Strongly limonitic matrix (~4%).
15.7 - 18.6	MxF	15.7 - 15.7 band	Strong Clay	
		15.7 - 36.6 band	Mixed gneiss. Augen-bearing. Clay alteration of mafic bands- weak. Limonite on fracture planes and in vein (~0.5%). Moderately silicified locally	
			Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
				Replaces Felsics Moderate Chlorite
18.6 - 61.0	MxF	band		Mixed gneiss. Increase frequency of mafic banding. Mafics weakly chloritized and weakly clay altered. Felsic bands siliceous with oxidation of foliation minerals (limonite defining foliation in part). Carbonate weakly disseminated in mafics. From 32.5-36.2- irregular limonite veining- stylolitic. From 48.95-49.2m- opaque qtz vein.
		36.6 - 60.9 band	Selective Repl Moderate Silicification	Selective Repl Weak Chlorite
		60.9 - 67.4 band	Selective Repl Strong Clay	Fracture Controlled Weak Clay
61.0 - 67.4	MxF	band		Broken ground. Strong clay alteration of fidspr-white clay. Very weakly limonitic. Opaque qtz vein ~5-10cm throughout broken zone.
		67.4 - 89.3 band	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
				Replaces Mafics Moderate Chlorite
67.4 - 89.2	MxF	silc		Mixed gneiss. Strong silicification of felsic bands with disseminated hematite (along foliation). Weak sericite overgrowing foliation.
89.2 - 101.8	MxF	band		Onset of strong clay alteration of fidspr, locally pervasive. Limonite throughout- fracture controlled, in vein and weakly disseminated in part (~1%).
		89.3 - 127.5 band	Pervasive Strong Clay	Patchy Weak Silicification
101.8 - 108.2	MxF	augn		Weak zone. Strong clay alteration, locally pervasive. Remnant foliation, more obvious in part. Augen onset. Limonite veining, locally disseminated (1-2%).
108.2 - 109.3	MxF	silc		Irregular qtz veining throughout, dismembered. Strong clay alteration truncating veins. Remnant gneissic texture.
109.3 - 111.9	MxF	augn		Strong clay alteration of fidspr. Augen-bearing. Limonite on fractures and in vein (~0.25-0.5%).
111.9 - 125.3	MxF	augn		Weak zone. Augen bearing gneiss. Strong clay alteration of fidspr and locally pervasive. Limonite throughout, disseminated, in-vein and on fractures (1-2%). Local bleaching, no texture preserved.
125.3 - 125.9	MxF			Zone. Strongly limonitic mixed gneiss. Limonite pervasive (~4-5%). Weak preservation of foliation. Strong clay alteration- pervasive.
125.9 - 127.0	YO	bxm		Zone. Polymictic breccia. Clasts of aphanetic, strongly clay+ limonite altered country rock and opaque grey qtz. Clasts are sub-angular to angular and range in size from 2-15mm. 50/50 clast to matrix ratio. Coherent matrix, silicified in part moderately limonitic (~3%- clasts + matrix). From 127.58-127.62m- disseminated stibnite? High Sb on XRF- fg grained dark grey mineral comprising matrix.
127.0 - 127.5	HU			Zone. Pervasive clay + limonite mineralisation. No recognizable fabrics. Limonite pervasive (~5%). Mn on fracture planes. From 127.37-127.48- discrete breccia zone as seen previously.
127.5 - 129.1	HU			Zone. Intense clay alteration, pervasive. Unconsolidated. Limonite disseminated (2-8%). From 127.48-127.68- most intensely mineralized (~8% lim).
		127.5 - 131.1 band	Pervasive Intense Clay	
129.1 - 129.7	HU			Weak zone. Intense clay alteration, pervasive. Limonite weakly disseminated (~1%). On margins of IV- possible chilled margin. No fabric.

129.7 - 130.9	IV	mgrn	Weak zone. Equigranular intermediate dyke. Presevation of hbld. Medium grained. Limonite on fracture planes and increasing towards basal contact (~1-2%). Clay alteration also intensifying down-hole.		
130.9 - 131.2	FC	fgrn	Moderate zone. Fine-grained FC? Or locally bleached. Cross-cut by limonite veins with locally disseminated limonite+hematite (~5%). Mn dendrites in bleached zone.		
		131.1 - 132.6	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	
131.2 - 132.7	MxF	augn	Moderate zone. Augen-gneiss. Disseminated limonite (2-3%). Moderate clay alteration, weakly silicified.		
		132.6 - 136.0	Selective Repl Moderate Clay		
132.7 - 136.1	MxF	augn	Strong clay alteration- pervasive. Strongly fractured. Weakly disseminated and fracture controlled limonite (1-2%).		
		136.0 - 139.7	Pervasive Intense Clay		
136.1 - 136.7	IV	mgrn	Medium grained intermediate dyke. Strongly clay altered. Preseved mafics. Massive. Strong clay alteration towards basal contact. Becoming increasingly limonitic down-hole.		
136.7 - 138.3	IV	mgrn	Zone. Strong clay alteration-pervasive. Disseminated limonite (~3%). Weakly preserved fabric- mafics, equigranular, mgrn IV?		
138.3 - 139.1	IV	mgrn	Strongly clay altered IV? Very weak fabric. Weakly preserved mafics.		
139.1 - 139.7	HU	fgrn	Zone. Pervasive limonite (~4%). Pervasive clay alteration.		
		139.7 - 140.4	Selective Repl Moderate Clay		
139.7 - 140.7	MxF		Weak zone. Pervasive limonite (~2%). Moderate clay alteration of felsics and fracture planes.		
		140.4 - 155.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite
140.7 - 155.0	MxF	band	Fresh gneiss. Sharp contact with zone. Variably altered. Weakly siliceous in part. Clay alteration of fldspr (weak) in part. Tarce limonite, fracture controlled (<0.25%).		

Drill Log: CFD0264

Easting	584305	Hole Length	263 m	Prospect	Supremo T3	Drill Started	Jul 16, 2012	Comment
Northing	6974400	Azimuth	272 °	Target	T3	Drill Completed	Jul 19, 2012	
Projection	UTM7-NAD83	Dip	-60 °	Geologist		Core Size	NQ2	
Survey method	estimated	Elevation	1268.1 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 11.0	OVb			
11.0 - 23.9	MxF	band	Fol-str	Mafic-dominant mixed gneiss; trace fracture control limonite (<0.1%); mod-strong patchy clay, moderate pervasive silc, chlorite, seric altn
		11.0 - 23.9	Patchy Strong Clay	Pervasive Moderate Chlorite Pervasive Moderate Sericitisation
23.9 - 30.8	MxF	band		Mixed gneiss; 0.25% patchy limonite; possible fault structure- highly fractured strong pervasive and patchy clay, mod perv chlorite, seric alteration
		23.9 - 30.8	Pervasive Strong Clay	Pervasive Moderate Chlorite Pervasive Moderate Sericitisation
30.8 - 84.0	MxF	band	Fol-str	Mixed gneiss, fresh; trace FC oxides (lim, hem, <0.15%); moderate perv silica alteration, weak perv chlorite, seric altn; 0.25% diss oxides from 75.2-78.8 (most likely oxidation of Fe-Mg and not associated with mineralization, parallel to foliation)
		30.8 - 75.2	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Pervasive Weak Chlorite
		75.2 - 93.2	Pervasive Moderate Silicification	Patchy Weak Chlorite Patchy Weak Sericitisation
84.0 - 93.2	MxF	band	Fol-str	Mixed gneiss; 0.25% patchy oxides (lim, hem, most likely oxidation of Fe-Mg and not associated with mineralization); moderate perv silc altn, weak patchy chlorite, seric altn
93.2 - 142.6	MxF	band		Mixed gneiss; 0.25-0.5% patchy oxides (lim, hem), 0.15% limonite veinlets throughout interval (anastomosing and parallel-to-foliation, 0.5% 114-114.5m); moderate perv seric and clay alteration; possible fault structure from 93.2-96.62m: strongly fractured, strong perv clay alteration; 0.25% opaque quartz veins from 97-98m (average width: 1cm)
		93.2 - 96.6	Pervasive Strong Clay	Pervasive Moderate Sericitisation
		96.6 - 142.6	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Weak Chlorite
142.6 - 188.7	MxF	augn	Fol-str	Mixed gneiss, fresh; trace FC oxides (lim, hem, <0.15%); moderate perv silica alteration, weak perv chlorite, seric altn, patchy epidote altn; 0.15-0.25% patchy oxides (lim, hem) from 181.85-188.7m
		142.6 - 188.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation Patchy Weak Epidote
188.7 - 198.3	MxF	band		Mixed gneiss, possible fault structure- highly fractured, strong pervasive clay alteration, unconsolidated patches; 0.25% FC oxides (lim, hem), strong bleaching, moderate perv seric altn
		188.7 - 198.3	Pervasive Strong Clay	Pervasive Moderate Sericitisation
198.3 - 202.3	MxF	band		Mixed gneiss; 0.25-1% patchy oxides (lim,hem); moderate perv seric, weak perv clay altn; 0.25% opaque quartz veins (parallel to foliation), 0.15% anastomosing limonite veinlets; strong pervasive clay from 201.90-202.27m
		198.3 - 201.9	Pervasive Moderate Sericitisation	Pervasive Weak Clay
		201.9 - 202.3	Pervasive Strong Clay	Pervasive Weak Sericitisation
202.3 - 207.0	FC	fgrn		Dacite dyke, strong zone; felsic, massive; fine grained aphanitic to medium grained (204.45-207 is medium grained and resembles diorite, but felsic composition resembles dacite); average 3% disseminated oxides (lim, hem, ranges from 1-4%); 0.5% cross-cutting and anastomosing hematite veinlets with limonite selvage; Brecciated hematite vein at 202.85m, with local sub-rounded, rotated med grained dacite clasts in a fine-grnd hematite matrix)
		202.3 - 206.0	Pervasive Moderate Clay	
		206.0 - 208.0	Pervasive Moderate Clay	Pervasive Moderate Calcite
207.0 - 208.8	HU			Hydrothermally altered, protolith unrecognizable, intense zone; protolith could be mixed gneiss or dacite dyke; protolith could be mixed gneiss or dacite; 3-4% oxides (lim, hem); moderate pervasive clay from 207-208m, calcite altn; Intense perv clay alteration from 208-208.77m)
		208.0 - 208.8	Pervasive Strong Clay	Pervasive Moderate Calcite

208.8 - 209.1	YC	bx	Silicified-clast breccia; 0.25% disseminated sooty pyrite; fine-med grained, well-sub-rounded silica clasts within a bleached clay matrix, clast-supported		
		208.8 - 210.9	Replaces Matrix Strong Clay		
209.1 - 210.9	YC	bx	Silicified-clast breccia with limonite-clay matrix; fine-med grained, well-sub rounded silica clasts, clasts-supported; 1% limonite, disseminated within matrix		
210.9 - 258.0	MxF	band	Fol-str	Mixed gneiss; 0.25% FC limonite, weak qsp alteration with trace disseminated and brassy pyrite (<0.15%); moderate perv silc, seric altn, weak patchy chlorite altn	
		210.9 - 258.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Patchy Weak Chlorite
258.0 - 261.3	MxF	band	Fol-str	Mixed gneiss, weak-mod zone with potential mineralization; From 258.26-258.9: Brecciated limonite stockwork, with local strong qsp-altered mixed gneiss clasts (subangular) and clast supported within a liminitic cement stockwork, transitions into a silica-sooty pyrite vein (~1cm wide, runs 1300ppm As on the XRF); 0.5% vein-controlled limonite, 0.5-1% diss and fracture control sooty pyrite; strong pervasive silica and sericite alteration	
		258.0 - 261.3	Pervasive Strong Sericitisation	Pervasive Strong Silicification	
261.3 - 263.0	MxF	band	Fol-str	Mixed gneiss, moderate perv sericite and silica alteration; trace diss and FC oxides and sulphides (<0.15%); 0.25% opaque quartz veins (~1cm wide)	
		261.3 - 263.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	

Drill Log: CFD0265

Easting	585225.36	Hole Length	287 m	Prospect	Double Double	Drill Started	Jul 18, 2012	Comment
Northing	6973354.57	Azimuth	182 °	Target	Double Double	Drill Completed	Jul 21, 2012	
Projection	UTM7-NAD83	Dip	-71 °	Geologist	MRender	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1099.7 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.0	OVb			Rubble. Re-drilled boulders of MxF and Bts.
		0.0 - 9.9	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
8.0 - 10.9	BtS			Chloritic. Strongly foliated. Trace limonite- fracture controlled (<0.25%). Very broken. Clay alteration on fracture planes.
		9.9 - 11.9	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite
10.9 - 11.9	BtS			Weak zone. Weakly disseminated limonite (1-2%) and in vein. BtS chloritic, strongly foliated.
11.9 - 28.0	BtS			Moderate chlorite alteration. Strongly fractured. Weak limonite + hematite on fracture planes (0.25%). Rare calcite veins.
		11.9 - 27.8	Replaces Mafics Moderate Chlorite	
		28.0 - 28.3	Pervasive Strong Clay	
28.0 - 28.4	HU			Zone. Strong limonite mineralisation, pervasive (~3-4%). Hematite stylolites (~0.5%). Weak fabric. BtS? Strong pervasive clay alteration.
		28.3 - 28.9	Pervasive Strong Sericitisation	Pervasive Moderate Clay
28.4 - 28.8	BtS			Intensely altered. Bleached. Strong sericite, silica and weak chlorite alteration. Weakly preserved fabric. Discrete zone of limonite mineralisation ~10cm wide from 28.62-28.67m.
28.8 - 33.5	BtS			Strongly fractured. Weakly altered (weak chlorite alteration of mafics. Medium-grained (coarsening)
		28.9 - 33.7	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
33.5 - 42.5	MxF	silc		Strongly silicified, pervasive with rare chloritic Bts intervals. Chlorite replacing biotite defining foliation.
		33.7 - 42.5	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite
42.5 - 46.0	BtS			Strongly chloritic. Strongly fractured. Vuggy (after py?).
		42.5 - 46.0	Replaces Mafics Strong Chlorite	
46.0 - 62.0	BtS			Strongly fractured ground. Clay on fracture planes. Unconsolidated in part. Moderate chlorite alteration. Carbonate throughout.
		46.0 - 85.4	Replaces Mafics Moderate Chlorite	Patchy Weak Sericitisation Patchy Weak Epidote
62.0 - 91.8	BtS			Moderately fractured. Moderate chlorite alteration of biotite. Carbonate disseminated throughout. Local sericite alteration-core is and hazy. Trace diss brassy py.
		85.4 - 91.8	Replaces Mafics Moderate Chlorite	Patchy Weak Epidote Selective Repl Weak Leucoxene
91.8 - 93.7	MxF	silc		Strongly silicified interval-pervasive. Weakly preserved mafic minerals. Weakly limonitic (0.25%), disseminated. Patchy weak hematite (after biot).
		91.8 - 93.7	Pervasive Strong Silicification	
		93.7 - 97.3	Selective Repl Moderate Chlorite	Patchy Moderate Silicification Selective Repl Moderate Leucoxene
93.7 - 97.2	BtS			Bts dominated, rare siliceous felsic bands with feldspar augen. Leucoxene porphyroblasts in mafics. Sericite overgrowing foliation. Discrete zones of weak limonite mineralisation (~0.5-1%), disseminated. Rare limonite veins (~0.1%).

97.2 - 98.0	BtS			Strong quartz + sericite alteration (bleached) with leuxocene porphyroblasts. Minor limonite (fracture controlled-0.5%). Carbonate veining cross-cutting ~ 35deg to core axis.
		97.3 - 98.5	Selective Repl Strong Sericitisation	Pervasive Moderate Silicification Selective Repl Moderate Leucoxene
98.0 - 98.6	BtS			Weak zone. Disseminated limonite (~0.5%). More felsic with sericite defining foliation. Moderate clay alteration of fldspr.
		98.5 - 101.2	Replaces Felsics Moderate Clay	Patchy Moderate Silicification
98.6 - 114.6	BtS			Chloritic with local silicification. Trace disseminated leuxocene. Fe carb veining and calcite veining up to 3cm wide with chlorite selvages. From 101.71-101.73- narrow mafic dike, aphanetic, chloritic.
		101.2 - 114.6	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay Selective Repl Weak Leucoxene
114.6 - 117.4	IV			Zone. IV? Porphyritic? Irregular texture of preserved fldprs phenocrysts? With irregular margins (eaten away by sericite). Strongly sericitic. Fine-grained matrix. Bleache appearance. Upper contact mineralised from 114.6-114.9m- patchy oxidation (limonite ~2%) and unoxidized 'windows' with fg sooty py and sericite. Fine-grained brassy py disseminated (trace). Interval cross-cut by limonite veining. Fine-grained chlorite veining with fg chloritic haloes. Basal contact with bx is weakly mineralised- disseminated limonite (~1%) from 117.25m
		114.6 - 118.6	Pervasive Strong Sericitisation	Pervasive Moderate Silicification
117.4 - 117.5	YO	bxm		Discrete brecciated interval. White clay + limonite (~2%) matrix and silicified gneissic clasts, rounded from 3-10mm.
117.5 - 118.6	HU			Intense sericite alteration + moderate pervasive silicification. Weak preserved fabric- possibly Bts. Trace disseminated brassy pyriet. Upper contact with Bx weakly mineralised to 117.85m (disseminated limonite ~1%). From 118.23-118.4m- weak limonite stockwork, hairline lim veins in various orientations.
		118.6 - 120.8	Replaces Mafics Moderate Chlorite	
118.6 - 120.3	BtS	fgrn		Very fine grained Abrupt cease in alteration. Possibly dyke- weak fabric. Gradational bottom contact- coarsening and bound by a boudinaged qtz vein.
120.3 - 120.7	IV	fgrn		Fine-grained intermediate dike. Oxidized disseminated pyrite throughout. Limonite on fractures (~0.5%).
120.7 - 121.1	BtS	mgrn		Moderate chlorite alteration, becoming progressively bleached down-hole (sericite). Leuxocene porphyroblasts throughout (~1mm).
		120.8 - 122.0	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Replaces Mafics Weak Chlorite
121.1 - 121.7	BtS			Zone. Disseminated limonite (3-4%). Clay alteration pervasive with preserved qtz grains throughout. Remnant foliation.
121.7 - 129.0	BtS			Chloritic bts. Leuxocene disseminated throughout . Fe-carb veining (~0.25%). Weak local pervasive sericite alteration.
		122.0 - 129.0	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation Selective Repl Moderate Leucoxene
129.0 - 129.6	BtS			Weakly limonitic, locally disseminated with ~0.2% limonite infill veins. Chlorite alteartion of schist. Leuxocene weakly disseminated.
		129.0 - 131.5	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite Selective Repl Weak Leucoxene
129.6 - 134.5	BtS			Moderately chloritic (after biot). Leucoxene disseminated throughout. Carbonate veining (~0.25%, ~45deg to c.a.)
		131.5 - 134.4	Replaces Mafics Moderate Chlorite	Selective Repl Weak Sericitisation Selective Repl Weak Leucoxene
		134.4 - 139.0	Pervasive Strong Clay	
134.5 - 136.5	BtS			Weak zone. Chloritic bts with local;ly disseminated and vein controlled limonite mineralisation (~1%). Clay alteration weakly pervasive. Carbonate disseminated throughout (strong).
136.5 - 137.2	BtS			Zone. Disseminated limonite (~3%). Weakly silicified with pervasive strong clay alteration. Pervasive carbonate (unit strongly effervescent). Weakly remnant foliation- bordering HU).
137.2 - 138.1	YO	bxi		Zone. Brecciated, strongly altered (clay). Clay + limonite brecciating bts? Limonite disseminated throughout (~3%). Clasts of altered bts and silicified bts. Strongly calcareous. Clasts are subrounded and 3-10mm. Clast supported.
138.1 - 138.7	HU			Zone. Intense pervasive clay alteration. Core is plyable (plastic). Limonite (~5%) and hematite (~1%) disseminated.
138.7 - 139.8	BtS	silc		Weak zone? Strongly silicified Bts? Weak fabric. Silica pervasive. Clay alteration of fldspr. Limonite disseminated and in vein (~1%).
		139.0 - 139.9	Pervasive Strong Silicification	Replaces Felsics Moderate Clay
139.8 - 141.8	BtS			Zone. Transitional. Unoxidized windows of strong sericite alteration + chlorite? +silica and fg sooty py (weak? ~0.25%). Patchy oxidation of limonite (~2%) and hematite (~1%).
		139.9 - 141.5	Pervasive Strong Clay	Pervasive Moderate Sericitisation Selective Repl Weak Chlorite
		141.5 - 151.0	Pervasive Strong Sericitisation	Pervasive Moderate Silicification Replaces Mafics Weak Chlorite
141.8 - 150.0	BtS			Strongly altered. Intense bleaching- pervasive sericite alteration. Carbonate veining throughout (~0.25%). Chlorite veining with brassy py.

150.0 - 151.8	BtS		Zone Transitional. Margins unoxidized with intense sericite alteration and fg-sooty py veins (from 150-151m) Oxidized zone is strongly hemaititic (~3% with lesser hematite ~1%). From 151.34-151.58m- carbonate veining weak stockwork with main orientation cross-cutting 45 deg to core axis. One 3cm wide vuggy open spaced fille ca-vein with 'dog toothed' calcite crystals.		
		151.0 - 151.5	Pervasive Strong Clay		
		151.5 - 158.3	Selective Repl Strong Sericitisation	Patchy Strong Silicification	Replaces Felsics Weak Clay
151.8 - 158.8	BtS	silc	Strong pervasive silicification. Patchy disseminated hematite (after biot?). Locally bleached. Frac controlled limonite (~0.25%).		
		158.3 - 163.0	Pervasive Moderate Clay		
158.8 - 161.0	BtS	silc	Weak zone. Pervasive silicification and clay. Limonite disseminated throughout (~1-2%). Weakly remnant foliation. Hematite veining from 160.8-161.0m.		
161.0 - 168.9	BtS		Weak zone. Moderately fractured. Discrete mineralised intervals- fracture controlled lim+cla. Chlorite alteration of mafics. Unconsolidated in part. Local silicification.		
		163.0 - 166.3	Fracture Controlled Moderate Clay	Replaces Mafics Moderate Chlorite	
		166.3 - 168.4	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	
		168.4 - 170.0	Pervasive Strong Sericitisation	Moderate Silicification	
168.9 - 170.0	BtS	silc	Zone. Intense sericite alteration with weaker pervasive silica. Cross-cut by several sooty py veins from 2-10mm in thickness (~0.5%), ~30 deg to core aixs. Sooty py disseminated along foliation (~0.25%).		
170.0 - 180.2	BtS		Zone. Strongly fractured ground. Stong mineralisation from 170-172m with pervasive limonite (~3%) + hematite (~3%). Weakly remnant foliation. Remainder of interval is strongly limonitic (~3-4%), disseminaetd. Pervasive clay alteration and local silicification. Patchy hematite and hairline limonite veins.		
		170.0 - 180.0	Pervasive Strong Clay	Patchy Moderate Silicification	
		180.0 - 192.0	Pervasive Strong Sericitisation	Pervasive Moderate Silicification	
180.2 - 187.8	BtS		Moderate zone. Transitional. Patchy fracture controlled limonite. Sooty py+ser+sil assemblage. Sooty py observed as fg disseminations along foliation. Intense sericite alteratoin. Limonite (~1%)+ hematite (1%)- fracture controlled and after sooty py? Trace disseminated blebby brassy py.		
187.8 - 196.0	BtS	silc	Strongly altered. Bleached. Pervasive sericite+silica+?alb alteration, clay alteration of fldspr. Remnant foliation. Mafics almost entirely replaced- preserved are weakly chloritic.		
		192.0 - 200.0	Pervasive Strong Silicification	Replaces Mafics Strong Chlorite	Patchy Weak Epidote
196.0 - 200.0	BtS	silc	Silicified in part. Well developed foliation. Mafics weakly chloritic (biot). Chlorite veining.-hariline. Weak patchy epidote. Local disseminated leuxocene.		
200.0 - 211.6	MxM	silc	Mixed gneiss- obvious felsic banding that is preferentially silicified. Leuxocene disseminated in mafic schistose bands. Opaque white quartz veins from 204.15-204.45m and 206.4-206.57m. Fracture controlled limonite increasing down-hole from 210m (~0.5%).		
		200.0 - 211.8	Pervasive Intense Silicification	Replaces Mafics Strong Chlorite	Selective Repl Moderate Leucoxene
211.6 - 215.2	BtS		Ground becoming increasingly fractured. Strong chlorite alteration of biotite. Moderate patchy epidote. Local weak silicification. Limointe fracture controlled (~0.25%0.		
		211.8 - 215.2	Replaces Mafics Strong Chlorite	Patchy Weak Silicification	Replaces Felsics Moderate Clay
215.2 - 220.3	BtS		Weak zone. Strongly fractured ground. Pervasive clay alteation. Limonite disseminated and in-vein (1-2%). From 27.85-28.2m- strongest mineralisation- limonite veining (~1%), fracture controlled hematite (~1%).		
		215.2 - 220.4	Pervasive Strong Clay	Selective Repl Weak Chlorite	Patchy Weak Silicification
220.3 - 225.6	BtS		Strongly chloritic after biotite. Local bleaching (ser+sil, pervasive). Leuxocene disseminated throughout.		
		220.4 - 225.7	Patchy Strong Sericitisation	Replaces Mafics Strong Chlorite	Selective Repl Strong Leucoxene
225.6 - 226.5	BtS		Weak zone. Pervasive limonite mineralisation (~1%) with fracture controlled hematite (~0.5%), moderate clay-pervasive.		
		225.7 - 226.2	Pervasive Moderate Clay		
		226.2 - 228.2	Replaces Mafics Strong Chlorite	Selective Repl Weak Leucoxene	Fracture Controlled Moderate Clay
226.5 - 228.2	BtS		Strong chlorite alteration. Disseminated leuxocene. Local limonite veining (~1%).		
		228.2 - 229.5	Pervasive Strong Sericitisation	Pervasive Moderate Silicification	
228.2 - 229.5	MxF		Weak zone. Disseminated limonite (~0.25%) with hairline hematite veins (~0.5%). Clay alteration of fldspr. Transitioning into felsic gneiss with strong sericite+silica alteration.		

229.5 - 240.9	MxF		Stongly altered. Moderate clay alteration of fldprs. Local disseminated, vein controlled and fracture controlled limointe (0.5-1%).	
		229.5 - 240.8	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation
		240.8 - 243.4	Pervasive Strong Sericitisation	Pervasive Moderate Silicification
240.9 - 243.4	MxF		Strong sericite+albite+silica alteration. Fracture controlled limonite (~0.25%). Disseminated fg brassy pyrite.	
243.4 - 245.8	MxF		Moderate clay alteration of fldpr. Local silicification. Fracture controlled and weakly disseminated limonite (~0.5%).	
		243.4 - 245.8	Replaces Felsics Moderate Clay	Patchy Weak Silicification
245.8 - 258.0	BtS		Moderate chlorite alteration after biotite. Local oxidation, limonite oxidizing biotite-foliation parallel and on fracture planes (~0.5%). Local limonite mineralisation-fracture controlled. At 249.95: 2cm wide vuggy calcite vein. Moderate patchy epidote.	
		245.8 - 258.0	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
258.0 - 266.3	BtS		one. Strongly fractured ground. Pervasive strong clay alteration. Local HU (strong limonite + clay)(2% disseminated limonite). Hematite fracture controlled (~1%)	
		258.0 - 267.2	Pervasive Strong Clay	Replaces Mafics Moderate Chlorite
266.3 - 266.6	HU		Zone. Strong pervasive clay alteration. Hematite (~2%) + limonite (~1%) disseminated.	
266.6 - 267.1	BtS		Weak zone. Disseminated limonite + clay (~2%). Weakly preserved foliation. Dismembered qtz veins.	
267.1 - 284.0	BtS	Fol-wk	Variably altered bts. Weak chlorite alteration of biotite. Patchy epidote. Local silicification with fg pyrite disseminated. Fracture controlled limointe and limonite in vein (~0.25%).	
		267.2 - 284.0	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation
				Replaces Mafics Weak Chlorite
284.0 - 287.0	BtS		Bleached. Strongly altered. Preserved foliation-chloritic. Moderate clay alteration of feldspar with pervasive sericite. From 283-283.15- unconsolidated- intense clay alteration.	
		284.0 - 284.2	Intense Clay	
		284.2 - 287.0	Selective Repl Strong Sericitisation	Replaces Mafics Moderate Clay
				Replaces Mafics Moderate Calcite

Drill Log: CFD0266

Easting	584487.23	Hole Length	146 m	Prospect	Supremo T4-5	Drill Started	Jul 19, 2012	Comment
Northing	6974401.92	Azimuth	277 °	Target	T4-5	Drill Completed	Jul 21, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	HGrimson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1251.9 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb			Casing
3.0 - 8.5	MxF	augn		Mixed augen-bearing gneiss; local strong pervasive clay alteration; weak pervasive silica, seric altn; trace FC limonite (<0.15%) at beginning of interval; From 8-8.52m: 0.5-0.75% diss oxides (lim, hem)
		3.0 - 8.5	Patchy Strong Clay	Patchy Weak Silicification Patchy Weak Sericitisation
		8.5 - 12.5	Pervasive Moderate Clay	
8.5 - 10.0	DIOR	fgrn		Upper chill margin of Diorite dike, weak-moderately mineralized zone; fine grained, aphanitic, intermediate; resembles dacite but transitions into med-grnd diorite at middle of interval and back into fine grained (chill margin?) at end of interval. 2% disseminated oxides (lim, hem); moderate-strong pervasive clay alteration, highly fractured
10.0 - 12.3	DIOR	mgrn		Diorite dyke; med-grained, massive; 0.25% FC limonite; moderate pervasive clay altn
12.3 - 12.8	DIOR	fgrn		Lower chill margin of Diorite dike, moderate-strongly mineralized zone; fine grained, aphanitic, intermediate; 2-3% diss oxides (lim, strong hem staining); mod-strong pervasive clay altn
		12.5 - 12.6	Pervasive Strong Clay	
		12.6 - 12.8	Pervasive Moderate Clay	
12.8 - 23.0	MxF	augn	Fol-str	Mixed gneiss; 0.15% FC limonite; moderate perv silc, seric, perv clay altn
		12.8 - 23.0	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Patchy Moderate Clay
23.0 - 31.9	MxF	augn	Fol-str	Mixed augen-bearing gneiss, weak-moderately mineralized zone; 1-2% diss oxides (lim, strong hem), 0.15% patchy sooty sulphides; mod-str perv silc, weak-mod pervasive clay, weak perv seric altn; 0.25% opaque qtz veins (dominantly parallel to foliation, some are cross-cutting), 0.15% limonite veinlets (anastomosing)
		23.0 - 31.9	Pervasive Strong Silicification	Pervasive Moderate Sericitisation Pervasive Moderate Clay
31.9 - 32.4	YO	bx		Monomictic breccia with local mixed gneiss; clasts are rounded-subrounded, rotated and composed of moderately silicified mixed gneiss; matrix composition varies from bleached to strongly limonitic clay; unconsolidated/rubble; 0.25-1.5% limonite (disseminated weakly within clasts, and varying from weak-mod within matrix)
		31.9 - 32.4	Replaces Matrix Intense Clay	Replaces Clasts Moderate Silicification
32.4 - 34.0	MxF	bxi		Mixed gneiss, mod-strongly mineralized zone; highly deformed, almost unrecognizable in regions; 1.5-3% oxides (lim, hem); local strong pervasive clay altn resulting in immature brecciation; moderate perv serc and silc altn
		32.4 - 34.0	Pervasive Strong Clay	Pervasive Moderate Silicification Pervasive Moderate Sericitisation
34.0 - 34.7	YC	bxm		Silicified-clast breccia, weak-moderately mineralized zone; clasts are moderate-intense pervasively silicified; At the beginning of the interval (34.02-34.30m)- immature breccia: angular, unrotated clasts, average 0.5cm wide, of moderately silicified and sericitized MxF within a weakly limonitic-clay matrix (clast supported), with local intact mxf; From 34.30-34.76m- mature breccia: rounded, strongly silicified, sericitized, rotated clasts, average 1mm wide, supported within a clay matrix (ranging from weakly limonitic to intensely bleached, white clay matrix)
		34.0 - 34.7	Replaces Clasts Strong Silicification	Replaces Clasts Strong Sericitisation Replaces Matrix Intense Clay
34.7 - 44.3	MxF			Mixed gneiss, broad fault zone, weakly mineralized zone; unconsolidated, highly fractured rubble and intensely clay altered (patchy/pervasive); 1.5-2% disseminated and FC limonite
		34.7 - 44.3	Pervasive Intense Clay	

44.3 - 45.7	IV	fgrn	Andesite dyke with local mixed gneiss from 44.61-44.64m; fine-grained, aphanitic, mafic; weakly mineralized from 45.00-45.60m (0.5% diss limonite); mod pervasive clay altn		
		44.3 - 45.7	Pervasive Moderate Clay		
45.7 - 53.6	MxF	band	Mixed gneiss; 0.25% disseminated and FC limonite; moderate patchy and pervasive clay, perv sericite, weak patchy silc altn		
		45.7 - 53.6	Pervasive Moderate Clay	Pervasive Moderate Sericitisation	Pervasive Weak Silicification
53.6 - 58.7	MxF	band	Mixed gneiss, weak zone; 0.75-1.5% disseminated oxides (lim, weak hem); 0.15% anastomosing lim veinlets; mod patchy silc, perv seric, weak FC clay		
		53.6 - 58.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay
58.7 - 59.3	YO	bx	HU-Breccia with local MxF; clasts are sub-angular, rotated, 1-2mm average width and are extremely hydrothermally altered: mod-st silc,sericite, clay alteration; some clasts are extremely hematitic; matrix is hydrothermally altered limonitic cement; 3-4% diss oxides (lim, st hem); End of interval (59.15-59.28m): gradual transition from breccia to altered mixed gneiss; clasts become angular, unrotated and 1cm in width, of MxF composition, before transitioning into an intact MxF unit in clear contact with the lower (dyke) unit.		
		58.7 - 59.3	Pervasive Strong Clay	Pervasive Strong Sericitisation	Pervasive Moderate Silicification
59.3 - 59.6	IV	fgrn	Dyke, st-intense zone; could be andesite or dacite, very fine grained, aphanitic, extremely altered; intense pervasive sericite, moderate pervasive clay alteration; clear upper and lower contacts with neighboring mixed gneiss units. Beginning of interval (59.28m- 59.45m) is oxide facies, 3% diss oxides (lim, hem); End of interval (59.45-59.6m) is sulphide facies, 4% diss sooty pyrite		
		59.3 - 59.6	Pervasive Intense Sericitisation	Pervasive Moderate Clay	
59.6 - 60.2	YO	bx	Brecciated HU unit, zone; clasts are intensely hydrothermally altered and unrecognizeable: strong pervasive clay, seric alteration and some are intensely silicified, fine-grained (average 0.5cm), rotated and sub-rounded, suspended within an HU matrix, also strongly pervasively sericitized and clay altered; 3-4% diss oxides		
		59.6 - 60.2	Pervasive Strong Sericitisation	Pervasive Strong Clay	Pervasive Weak Silicification
60.2 - 61.7	YO	bxi	Immature monomictic breccia, zone; Mixed gneiss with network of weakly limonitic clay veinlets and fractures seperating clasts within the MxF framework; clast are dominantly in-place, angular and non-rotated, 0.5-1cm in width, with some more fine-grained clasts (1mm or smaller) that are sub-rounded and rotated; clast supported within mixed gneiss matrix; moderate pervasive clay, seric and silica altn; 2.5% diss oxides (lim, hem)		
		60.2 - 61.7	Pervasive Moderate Sericitisation	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
61.7 - 67.0	IV	fgrn	Intermediate dyke; fine grained, intermediate with fine-grained felsic phenocrysts; 0.25% FC oxides (lim, hem), moderate bleaching and strong clay alteration at margins (resemble dacite); mod pervasive clay and chlorite alteration (stronger at margins); 0.1% cross-cutting Fe-carbonate veinlets		
		61.7 - 62.7	Pervasive Strong Clay	Pervasive Moderate Sericitisation	
		62.7 - 67.0	Patchy Moderate Clay	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite
67.0 - 73.5	MxF	augn	Mixed gneiss, zone; 1.5-2.5% diss oxides (lim, hem); str patchy silc, mod seric, weak FC clay altn; 0.25% quartz veins (parallel to foliation; brecciated quartz vein at 71.75m); 0.25% anastomosing oxide veinlets (lim with hem selvage)		
		67.0 - 73.5	Patchy Strong Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay
73.5 - 83.0	MxF	augn	Mixed gniess, weak zone; 0.5-1.5% diss oxides (lim, hem); moderate perv clay, seric altn		
		73.5 - 83.0	Pervasive Moderate Clay	Pervasive Moderate Sericitisation	
83.0 - 83.2	YO	bxi	Brecciated mixed gneiss; highly fractured, rubble; clasts are fine-grained, mod-strongly silicified mixed gneiss, sub-rounded, rotated within a strongly clay-altered vuggy limonitic cement matrix (matrix-supported); 2.5% diss oxides (lim, hem)		
		83.0 - 83.2	Replaces Matrix Strong Clay	Replaces Clasts Moderate Silicification	
83.2 - 84.7	MxF		Mixed gneiss, weak zone; 0.5-1.5% diss oxides (lim, hem); moderate perv clay, seric altn; from 84.44-82.72m: combination of driller's mud and HU limonite clay; there is a 5cm interval of uncontaminated clay with rubble, 4% diss oxides (lim, hem)		
		83.2 - 84.7	Patchy Strong Clay	Pervasive Moderate Silicification	
84.7 - 92.6	MxF	band	Fol-str	Mixed gneiss, mod-strong zone, transitional facies; ~70% of interval is oxide facies: 1.5-4% diss oxides (lim, hem); ~30% of interval is sulphide facies: 1-3% diss sooty pyrite associated with str quartz-sericite alteration; 0.15% limonite veinlets (cross-cutting), 0.15% sooty sulphide veinlets (cross-cutting)	
		84.7 - 92.6	Pervasive Strong Sericitisation	Pervasive Strong Silicification	
92.6 - 108.8	MxF	band	Fol-str	Mixed gneiss, weakly mineralized; 1.5% disseminated oxides (lim, hem); 0.15% disseminated sooty pyrite associated with qsp-alteration; mod-st perv silica, weak-mod perv seric and clay altn	
		92.6 - 107.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	Pervasive Weak Clay
		107.7 - 108.8	Pervasive Weak Clay	Pervasive Moderate Sericitisation	

108.8 - 129.1	MxF	band	Fol-str	Mixed gneiss, mod-strong zone, transitions between oxide and sulphide facies; ~80% of interval is oxidic: 2.5-4% diss oxides (lim with strong hem); ~20% of interval is sulphidic: 2.5-4% sooty pyrite; strong perv silc, seric altn, weak perv clay at beginning of interval; 0.15% parallel-to-fol silc veins (~0.5-1cm wide), 0.1% Fe-carb and limonite veinlets		
		108.8 - 115.9	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	Vein Selvedge Weak Clay
129.1 - 129.4	IV	fgrn		Andesite dyke (resembles dacite, because most mafics have been bleached out, except for minor preservation of mafic/intermediate minerals at the beginning of the interval); fine grained, aphanitic; moderate pervasive clay altn; 1-1.5% limonite- disseminated and fracture-controlled		
		129.1 - 129.4	Pervasive	Moderate Clay		
129.4 - 146.0	MxF	band		Mafic dominant mixed gneiss; moderate pervasive silc, weak perv seric, FC clay altn; 0.1-.25% FC limonite		
		129.4 - 146.0	Pervasive	Moderate Silicification	Fracture Controlled Weak Clay	Pervasive Weak Sericitisation

Drill Log: CFD0267

Easting	584536.3	Hole Length	201 m	Prospect	Supremo T4-5	Drill Started	Jul 21, 2012	Comment
Northing	6974401.32	Azimuth	270 °	Target	T5090	Drill Completed	Jul 23, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	HGrimson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1247.3 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVb			Casing and overburden
4.0 - 7.9	MxF	augn		Mixed gneiss, fresh; felsic dominant and augen-bearing; trace FC oxides, weakly perv silc altn
		4.0 - 7.9	Pervasive Weak Silicification	
7.9 - 12.5	FG	augn		Felsic-dominant gneiss; highly fractured and strong patchy clay altn; 0.25% lim (diss and FC); weak perv silica and seric altn
		7.9 - 12.5	Patchy Strong Clay	Pervasive Weak Silicification Pervasive Weak Sericitisation
12.5 - 13.1	YO	bx		Monomictic breccia; extremely altered and deformed; clast-supported; clasts are angular, 0.5-3cm long, fine-med grained, equigranular (possibly clasts from the diorite intermediate dyke below); some clasts are rotated, others remain in-place; matrix is limonitic clay; 2% diss oxides (lim, hem)
		12.5 - 13.1	Replaces Matrix Strong Clay	Replaces Clasts Moderate Clay
13.1 - 13.5	FG	augn		Felsic-dom gneiss; highly fractured due to upper contact with breccia and lower contact with diorite dyke; both contacts are indiscernable and broken into rubble; moderate FC clay, perv silc and seric altn
		13.1 - 13.5	Fracture Controlled Moderate Clay	Pervasive Weak Silicification Weak Silicification
13.5 - 13.7	DIOR			Diorite dyke; med grained, massive; moderate pervasive clay altn; 0.25% disseminated limonite
		13.5 - 13.7	Pervasive Moderate Clay	
13.7 - 41.0	MxF	augn	Fol-str	Mixed gneiss; weak pervasive silc, sericite, FC clay altn; 0-15-0.25% disseminated limonite; trace anastomosing limonite veinlets (<0.15%)
		13.7 - 66.0	Pervasive Weak Silicification	Fracture Controlled Weak Clay Pervasive Weak Sericitisation
41.0 - 66.0	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; augen bearing; weak pervasive silc, seric, FC clay altn; fresh
66.0 - 69.9	MxF	augn		Mixed gneiss, weak zone; 1-2% disseminated oxides (lim, hem); weak pervasive and FC clay, weak perv sericite altn; trace limonite veinlets (cross-cutting, <0.15%)
		66.0 - 69.9	Pervasive Weak Clay	Pervasive Weak Sericitisation
69.9 - 72.4	MxF	augn	Fol-str	Felsic-dominant mixed gneiss; augen bearing; weak pervasive silc; fresh until 72.15m; Alteration halo at end of interval, from 72.15-72.4m: 1.5% disseminated oxides, weak pervasive clay and 0.15% hematite veinlets- leading up to contact with lower HU unit.
		69.9 - 72.2	Pervasive Weak Silicification	Fracture Controlled Weak Clay Pervasive Weak Sericitisation
		72.2 - 72.7	Pervasive Strong Calcite	Pervasive Weak Sericitisation
72.4 - 72.7	HU			Hydrothermally altered, highly deformed; unrecognizable protolith; fine grained, strongly clay altered and 3-4% disseminated limonite and hematite; hematite-strong alteration fronts; at upper border there are a few HU clasts (possibly originating from the neighboring gneiss; possibly a dacite or andesite dyke (with bleached out mafic minerals) or extremely deformed mixed gneiss; upper contact with deformed by clay; lower contact is sharp with mixed gneiss; if the unit is a mixed gneiss, this contact could represent a limonite vein.
72.7 - 91.1	MxF	augn	Fol-str	Mixed gneiss; Beginning of interval (72.69-72.94m): 1.5% disseminated oxides, weak pervasive clay and 0.15% hematite veinlets- alteration halo from HU unit directly up hole. Weak pervasive silc, chlorite, FC clay over interval
		72.7 - 72.9	Pervasive Weak Clay	
		72.9 - 91.1	Pervasive Weak Silicification	Fracture Controlled Weak Clay Pervasive Weak Sericitisation

91.1 - 92.3	UM		Fol-str	Mafic dyke; fine-grained, strongly foliated and banded; clear upper contact with mixed and orientation of the foliations are difference between the two units; patchy fresh and oxidized patches; 91.56-91.86: 1-2.5% disseminated oxides (lim, hem), strong patchy clay alteration; weak pervasive clay alteration in non-oxidized regions		
		91.1 - 91.6		Pervasive Weak Clay		
		91.6 - 91.9		Pervasive Strong Clay		
		91.9 - 92.3		Pervasive Weak Clay		
92.3 - 104.3	MxF	augn	Fol-str	Mied gneiss; weak pervasive silica, seric, moderate patchy clay altn; 0.15% limonite veinlets from 103.7-104m		
		92.3 - 104.3		Pervasive Weak Silicification	Pervasive Weak Sericitisation	
104.3 - 109.9	MxF	augn		Mixed gneiss; weakly mineralized; 1-2% disseminated oxides (lim, weak hematite); 0.5% opaque quartz-veins, 0.15% oxides (lim and hem) veinlets; moderate pervasive clay and sericite alteration; Beginning of interval until 108.13: in-tact with moderate fractures; From 108.13-108.20: intense pervasive clay alteration, loss of all fabric, strongly silicified clasts (resembles a y-lim); From 108.20-9.91m: highly fracture, unconsolidated rubble with moderate FC clay altn		
		104.3 - 108.1		Pervasive Moderate Clay	Pervasive Moderate Sericitisation	
		108.1 - 108.2		Pervasive Intense Clay	Pervasive Strong Silicification	
		108.2 - 109.9		Fracture Controlled Moderate Clay		
109.9 - 110.0	Ylim	bxm		Limonite-clay matrix silicified-clast breccia; clasts are strongly silicified gneiss (fabric is still visible), sub-angular, non-rotated, clast-supported, within a weakly liminitic clay matrix; 1-1.5% limonite diss within matrix		
		109.9 - 110.0		Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay	
110.0 - 126.7	MxF			Mixed gneiss unit, possible fault structure, weakly mineralized: highly fractured, unconsolidated rubble; 0.75-1.5% FC limonite, 0-0.5% diss FC hematite; local intense pervasive clay alteration, obliterating gneissic fabric. Intact gneiss displays 0.25% anastomosing limonite veinlets, strong patchy silc and mod patchy seric altn		
		110.0 - 135.8		Patchy Intense Clay	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
126.7 - 136.3	MxF			Mixed gneiss, moderate-strong zone, highly fractured and pervasively clay altered (unconsolidated clay and rubble in regions, possible fault zone); 2-3% disseminated oxides (lim with strong hematite); intense patchy clay alteration, mod-st perv silica alt; mod perv seric; 0.15% limonitic-clay veinlets (cross-cutting, anastomosing); Buck quartz vein from 135.75-136.73m		
136.3 - 136.8	MxF	fgrn		Mixed gneiss, strong zone; loss of augens, fabric is almost obliterated; 3-4% disseminate oxides (lim, hem); moderate perv clay altn		
		136.3 - 136.8		Pervasive Moderate Clay		
136.8 - 156.9	MxF			Mixed gneiss, moderate zone; 2-3% diss patchy oxides (lim, strong hem) and 0.25% diss sooty pyrite; strong pervasive silc; moderate pervasive seric, perv and patchy clay altn; 0.25% anastomosing and cross-cutting oxides veinlets (lim, hem), 0.1% quartz veinlets (parallel to foliation)		
		136.8 - 157.8		Pervasive Strong Silicification	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
156.9 - 158.2	YO	bx		Hydrothermally altered- breccia; highly fractured and dominantly unconsolidated; clasts and matrix are highly altered and protolith is unrecognizable- clasts: fine grained, extremely faint fabric in some regions; resembles dacite but could be strongly pervasively sericitized gneiss; angular, med-grained, dominantly in-place and clast-supported; moderate perv clay altn, strong perv seric, patchy strong silc altn; 0.25% fracture-control lim, 0.5% diss sooty pyrite		
		157.8 - 158.2		Pervasive Strong Sericitisation	Pervasive Moderate Clay	Patchy Strong Silicification
158.2 - 158.4	Ylim	bxm		Limonite-clay matrix breccia, st-int zone; unconsolidated; intensely silicified, sericitized unrecognizable clasts (fine-grained, rounded, rotated) suspended within a limonite clay matrix (also local limonite cement matrix material); 4-5% disseminated oxides (lim, hem)		
		158.2 - 158.4		Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification	Replaces Clasts Strong Sericitisation
158.4 - 160.4	YO	bxi		Polymictic immature-mod breccia; clasts range from <1mm to 2.5cm; they are angular, rotated and dominantly clast-supported; clasts are of both silica and HU composition- unrecognizable protolith, fine grained, faint fabric (most likely intensely sericitized, strongly silicified mixed gneiss, but could be dacite); matrix is strongly silicitized, sericitized with local regions of ylim (lim-clay or limonitic cement matrix); 1.5% diss oxides		
		158.4 - 160.4		Pervasive Strong Silicification	Pervasive Strong Sericitisation	Patchy Strong Clay
160.4 - 161.5	FC			Dacite dkye, moderately mineralized; 3% oxides (lim, hem, diss and veinlets); moderate perv clay and sericite altn; 0.1% carbonate veinlets		
		160.4 - 166.4		Pervasive Moderate Clay	Pervasive Moderate Sericitisation	
161.5 - 166.4	FC			Dacite dyke, fresh; fine-grained, aphanitic, felsic dyke; moderate pervasive clay and seric alteration; 0.15% carbonate veinlets		
166.4 - 180.6	MxF	augn	Fol-str	Mixed gneiss, fresh; weak pervasive silc, FC clay altn; 0.15% FC limonite		
		166.4 - 180.6		Pervasive Weak Silicification	Fracture Controlled Weak Clay	
180.6 - 185.9	MxF	band	Fol-str	Mixed gneiss; 0.25-0.5% FC limonite, trace disseminated pyrite (sooty?); mod pervasive qsp altn		
		180.6 - 185.9		Pervasive Moderate Silicification	Pervasive Moderate Sericitisation	

185.9 - 186.9	MxF	band	Fol-str	Mixed gneiss; moderately mineralized transitional zone; patchy oxide and sulphide facies; averages over interval: 1% patchy oxides (lim,hem), 1% patchy sooty pyrite; strong qsp alteration; 0.25% calcte and Fe-veinlets; Brecciated calcite and Fe-carbonate vein at 186.43m, 4cm wide, clasts are local mixed gneiss, suspended by intricate vein network (crackle breccia)		
		185.9 - 186.9	Pervasive	Strong Silicification	Pervasive Strong Sericitisation	
186.9 - 190.3	MxF	band	Fol-str	Mixed gneiss; weak mineralization, transitional facies; 0.75% patchy oxides (lim,hem), 0.15% diss pyrite (sooty?); 0.25% carbonate veinlets (<1mm-2mm wide), 0.1% Fe-carb veinlets; moderate perv silc and seric altn; From 190.1-191.2 (end of interval, in contact with dacite dyke): stronger oxides ~2% with calcite vein (1-2cm)		
		186.9 - 190.3	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	
190.3 - 191.1	FC	fgrn		Dacite dyke; fine grained, aphanitic, felsic; 0.75-1% patchy oxides (lim,hem); mod perv seric, weak perv clay and silc altn		
		190.3 - 191.1	Pervasive	Moderate Sericitisation	Pervasive Weak Clay	Pervasive Weak Silicification
191.1 - 191.6	HU			Hydrothermally altered, unrecognizeable protolith, mod-strongly mineralized; highly deformed, sits at the lower contact between a dacite dkye-mixed gneiss; regions of obliterated fabric due to intense deformation; strong pervasive clay and seric alteration, 3% diss oxides, 0.5-1% diss sooty pyrite; 0.25% calcite vein		
		191.1 - 191.6	Pervasive	Strong Clay	Pervasive Strong Sericitisation	
191.6 - 201.0	MxF	band	Fol-str	Mixed gneiss; weak-mod pervasive silc, seric and FC clay altn; patchy 0.25% limonite, 0.1% diss pyrite (sooty?)		
		191.6 - 201.0	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay

Drill Log: CFD0268

Easting	585226.65	Hole Length	335 m	Prospect	Double Double	Drill Started	Jul 21, 2012	Comment
Northing	6973378.06	Azimuth	175 °	Target	DOU030	Drill Completed	Jul 26, 2012	
Projection	UTM7-NAD83	Dip	-72 °	Geologist	PJohansson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1105.2 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 1.5	OVb			
1.5 - 3.5	MxF	0.0 - 11.0 augn	Replaces Mafics Weak Chlorite	Selective Repl Weak Sericitisation Fracture Controlled Weak Clay
3.5 - 11.0	BtS			Strongly foliated biotite-schist. Chlorite alteration of biotite. Pitted in part. Weakly weathered. Weak clay alt of fldprs. Fresh.
11.0 - 12.2	FG	silc		Unconsolidated silicified felsic gneiss. Rubble. Weak limonite on fractures (~0.25%).
		11.0 - 12.2	Pervasive Moderate Silicification	
		12.2 - 27.2	Replaces Mafics Moderate Chlorite	Selective Repl Weak Sericitisation Fracture Controlled Weak Clay
12.2 - 27.5	BtS			Strongly foliated mafic schist. Biotite defining foliation. Biotite altering to chlorite. Calcite disseminated throughout.
		27.2 - 28.9	Vein Selvege Moderate Clay	Replaces Mafics Weak Chlorite
27.5 - 28.9	BtS			Weak zone. Limonite and clay disseminated throughout- veins infilling around grains (~1-2%). Mafics weakly chloritized.
28.9 - 33.7	MxF	silc		Intensely silicified (pervasive) interval. Weakly hematitic. Remnant foliation. Moderate patchy epidote.
		28.9 - 33.7	Pervasive Strong Silicification	
33.7 - 41.1	AmBtS			Strongly foliated. Medium grained chlorite-biotite schist. Pitted. No preservation of sulphides. Calcite disseminated throughout. From 46.5-47m- strong clay alteration-pervasive, partly unconsolidated.
		33.7 - 41.1	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
41.1 - 49.7	FC	silc		Strongly silicified (pervasive) interval. Weak foliation. Sericitic foliation.
		41.1 - 88.1	Replaces Mafics Strong Chlorite	Patchy Moderate Epidote Patchy Moderate Silicification
49.7 - 88.1	AmBtS			Strongly chloritic. Patchy epidote. Calcite banding and in vein. Rare more felsic intervals with biotite foliation (<1m scale). From 64.53-65.55m- Opaque qtz veining-truncated and cross-cut by weakly limonitic chalcedonic? veins-very irregular texture.
88.1 - 89.8	MxM	band		Weak zone. Weakly disseminated limonite (~0.5%). Moderately silicified with moderate pervasive clay alteration. Cross-cut by hairline limonite veins ~30 deg to core axis.
		88.1 - 89.7	Pervasive Moderate Silicification	Pervasive Moderate Clay
		89.7 - 95.5	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation Patchy Moderate Silicification
89.8 - 95.4	MxM	augn		Augen bearing gneiss. Biotite defining foliation with secondary sericite. Weak local silicification. Weak limonite veining (~0.25%).
95.4 - 96.5	MxM			Weak zone. Weakly disseminated limonite (~0.5%) and fracture controlled. Moderate clay alteration of fldprs, weakly siliceous.
		95.5 - 97.5	Pervasive Strong Silicification	Pervasive Moderate Clay
96.5 - 98.9	MxM	augn		Fldpsr augen-bearing. Weakly chloritic. Moderate local silicification. Limonite fracture controlled (~0.25%).
		97.5 - 98.9	Replaces Mafics Strong Chlorite	Pervasive Moderate Silicification Selective Repl Moderate Sericitisation
98.9 - 105.0	MxM	augn		Variably altered-strong. Local bleaching- fg ser+?alb+sil. Rare augens. Bts dominated. Limonite patchy (~0.5%)- largely foliation parallel.
		98.9 - 104.5	Patchy Strong Sericitisation	Patchy Strong Silicification Replaces Mafics Moderate Chlorite
		104.5 - 106.9	Pervasive Strong Clay	Pervasive Strong Sericitisation

105.0 - 106.9	PyF	bx	Zone. Pyritic fault zone (veins trending ~30 deg to core axis). Strong clay+sericite alteration pervasive. Unoxidized. Sooty pyritic clay veining throughout-brecciating intensely altered bts? Clasts are bleached. Weakly chloritic -foliation preserved? Sooty py (~1% disseminated.) Clasts suspended withing sooty py veins are ~2-15mm, rounded and strongly clay+sericite altertered.		
		106.9 - 109.0	Pervasive Moderate Clay	Pervasive Moderate Silicification	
106.9 - 107.2	Ylim	bx	Zone. Clast supported monomicitc breccia. Clasts are sub-rounded to rounded and range in size from 2-30mm. Clasts are strongly clay altered. Limonite matrix is comprised of limonite (~3%)+ clay.		
107.2 - 111.1	MxF	augn	Strongly fractured zone. Limonite weakly disseminated and largely fracture controlled (0.5-1%). Moderate pervasive clay alteration, moderate local silicification. Fldspr augen. Medium-grained with chloritic-foliation.		
		109.0 - 114.4	Replaces Mafics Strong Chlorite	Fracture Controlled Moderate Clay	Pervasive Strong Calcite
111.1 - 124.2	AmBtS		Strongly fractured from 114.41-117.3- unconsolidated in part. Strongly chloritic and foliated. Calcite strongly disseminated throughout. Strong fracture controlled clay alteration. Weak patchy epidote and in hairline veins. Opaque qtz vein from 116-116.3m in very broken zone. Weak limonite on fracture planes (<0.25%).		
		114.4 - 118.0	Pervasive Strong Clay	Pervasive Strong Chlorite	Pervasive Strong Calcite
		118.0 - 124.2	Selective Repl Strong Chlorite	Pervasive Moderate Calcite	Patchy Weak Epidote
124.2 - 127.5	AmBtS		Weak zone. Strong local clay alteration with fracture controlled limonite (~1%). Interval becomes progressively more siliceous with a weak stockwork of limonite-clay veins in last 30cm (~1%).		
		124.2 - 127.5	Patchy Strong Clay		
127.5 - 131.0	BtS		Variably altered bts. Locally siliceous. Chlorite alteration of biotite. Weakly hematitic (patchy, 0.25%). Strong sericite alteration of fldpr within siliceous zones. Unit ends in a short interval of ribbon quartz mylonite at 130.8-131m.		
		127.5 - 131.0	Patchy Moderate Silicification	Patchy Strong Sericitisation	Replaces Mafics Moderate Chlorite
131.0 - 131.7	HU		Strongly silica altered unrecognizable unit with 0.5% limonite and 0.25% hematite in vein halos. Frequent milky quartz veining; locally stockwork style, with hematitic vein halo and weak calcitic selvedge.		
		131.0 - 134.5	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	Patchy Weak Leucoxene
131.7 - 134.9	HU	silc	Unrecognizable unit with strong QSP alteration, local leucoxene and moderate epidote in bands. Unit shows discreet intervals with remnant RQM texture. Rare LCA parallel drusy quartz veins, local calcite-hematite-limonite stringers, local cross-cutting porcelainic quartz veins (133.33-133.56m) associated with strong bleeding of lim-hm. Intense silicification from 134.5-134.89m. 0.25% lim and hm (in veins and vein halo).		
		134.5 - 134.9	Pervasive Intense Silicification		
134.9 - 141.3	AmBtS	Fol-wk	Variably altered AmBtS, locally porphyroblastic, with patchy strong QSP alteration, weak patchy calcite, moderate leucoxene and moderate epidote. Unit shows weak brecciation at 135.2-135.75m with offset opaque quartz veins through a broken up interval. Overall 0.1% lim and hm; FC dominating but also in stringers and in vein selvedge (rare laminated porcelainic qtz veinlets). Lower contact consists of an oxidation front.		
		134.9 - 141.3	Patchy Strong Silicification	Patchy Strong Sericitisation	Selective Repl Moderate Leucoxene
141.3 - 143.5	HU		Zone; strongly silicified and moderately clay altered unrecognizable unit (possibly an oxidized continuation of above unit), moderate pervasive calcite altn and patchy strong sericite. 3% diss lim and 1.5% diss hm. Multidirectional calcite veinlets and stringers, locally laminated, with hematitic selvedge. Lower contact is sharp into a brecciated unit. XRF As 3441ppm at 143m .		
		141.3 - 143.5	Patchy Strong Silicification	Pervasive Moderate Clay	Pervasive Moderate Calcite
143.5 - 145.2	YC	bxv	Zone; monomictic clast-supported silicified clast breccia with sub-angular to sub-rounded 1-20mm wide strongly silicified HU clasts in a clay-calcite-limonite matrix. Unit grades out of brecciation from 144.54m. 1.5% limonite in matrix.		
		143.5 - 145.2	Pervasive Strong Clay	Replaces Matrix Moderate Calcite	Replaces Clasts Strong Silicification
145.2 - 145.6	HU		Zone; strongly silicified and moderately clay altered unrecognizable unit with 2% disseminated hematite and 1.5% disseminated limonite.		
		145.2 - 145.6	Pervasive Strong Silicification	Pervasive Moderate Clay	

145.6 - 147.6	BtS	silc	Fol-wk	Transitional zone; strongly QSP altered BtS (?), weak patchy clay altn at 145.59-146.25m. 0.25% FC hm and 0.5% FC lim at 145.59-146.25m, then 2% sooty sulphides (disseminated and in veins) and 0.25% FC lim to end of unit. XRF As 759ppm at 146m and 2376ppm at 147m.		
		145.6 - 146.3	Patchy Strong Silicification	Selective Repl Moderate Sericitisation	Patchy Weak Clay	
		146.3 - 147.6	Pervasive Strong Silicification	Selective Repl Strong Sericitisation		
147.6 - 159.7	AmBtS	silc	Fol-wk	Weakly mineralized amphibole-biotite schist with strong pervasive silicification, local strong sericite altn, moderate patchy epidote, patchy weak calcite. Locally porphyroblastic. 0.1% hm in fractures and in hairline stringers, 0.5% lim bleeding out of fractures and as vein selvage in cross-cutting calcitic veinlets (overall patchy). 0.1% brassy blebby pyrite, possibly local trace sooty sulphides.		
		147.6 - 159.7	Pervasive Strong Silicification	Patchy Strong Sericitisation	Selective Repl Moderate Epidote	
159.7 - 161.2	AmBtS			Weak zone; amphibole-biotite schist (?), strongly fractured with moderate clay in fractures and patchy strong silicification. Partly oxidized with 1.5% patchy lim (probably bleeding out of fractures) and 0.5% FC hm. Moderate calcite veining with limonitic selvage.		
		159.7 - 161.2	Patchy Strong Silicification	Fracture Controlled Moderate Clay		
161.2 - 168.9	AmBtS	silc		Continuation of above unit but less oxidized. Moderate pervasive silicification, weak patchy epidote and weak lim-clay replacement of feldspars creating vuggy texture. 0.25% FC hm and 0.5% limonite in fractures and replacing feldspars together with clay. Lower contact transitions into a unit with smaller sulphide content.		
		161.2 - 168.9	Pervasive Moderate Silicification	Patchy Weak Epidote	Replaces Felsics Weak Clay	
168.9 - 173.5	AmBtS		Fol-wk	Amphibole-biotite schist with up to 90mm wide strongly silicified pink feldspar porphyroblasts. Weak leucoxene, weak sericite in local sericite veinlets, moderate patchy epidote. Unit shows weak deformation in weakly brecciated/offset feldspar porphyroblasts. 0.1% FC lim and hm, 0.1% brassy to oxidized pyrite cubes. Moderate cross-cutting calcite veining. Lower contact transitions into a different alteration style.		
		168.9 - 173.5	Replaces Felsics Strong Silicification	Vein Selvage Weak	Selective Repl Weak Leucoxene	
173.5 - 174.9	AmBtS			Amphibole-biotite schist, moderate silicification (strong silicification of feldspars in top of unit), moderate patchy sericite, weak calcite altn and weak chlorite after mafics. Strong multi-directional qtz veining (veinlets to stringers), locally stockwork style; calcite veinlets locally with hematitic selvage. 0.1% lim and hm in fractures and vein selvage. Lower contact is an oxidation front.		
		173.5 - 174.9	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Replaces Mafics Weak Chlorite	
174.9 - 176.8	HU			Zone; strongly oxidized and strongly calcite-clay altered unrecognizable unit; calcite-clay overprinting previous silica alteration and foliation. Frequent multi-directional calcite stringers and veinlets. 4% disseminated limonite and 0.5% hematite in stringers/veinlets. Lower contact transitions into a brecciated unit.		
		174.9 - 181.4	Pervasive Strong Clay	Replaces Matrix Strong Fe-carb	Replaces Clasts Strong Silicification	
176.8 - 181.4	YC	bxm		Zone; strongly oxidized and clay-carbonate altered and brecciated unit, with intervening shorter intervals of strongly clay altered unrecognizable sub-units. Brecciated intervals consists of medium-grained matrix- to clast-supported silicified clast breccias, with variably silica-lim-hm altered sub-angular to sub-rounded HU clasts in a fine-grained lim-clay-carb matrix. Clast size between 1-30mm. Unit contains a clast-supported breccia at 176.77-177.81m, with an intervening clay-altered HU sub-unit at 177.18-177.29m and only partly brecciated at 177.55-177.81m. The following sub-unit (177.81-179.77m) is strongly fractured and partly unconsolidated with a matrix-supported silicified clast breccia. Below this sub-unit there is a clay altered HU sub-unit at 179.77-180.05m with cross-cutting calcite veins. The bottom of the unit (180.05-181.3m) consists of a matrix-supported silicified clast breccia, partly unconsolidated from 180.6-181.4m. 5% disseminated limonite and 1% patchy hematite (replacing clasts). XRF As peaks at 1737ppm at 179m. Lower contact consists of a sharp transition into an unconsolidated and broken up unit.		
181.4 - 183.2	HU	sand		Zone; Strongly broken up and partly clay altered unrecognizable unit. A sub-unit from 181.4-181.65m consists of a totally unconsolidated interval with a sandy texture, moderate clay and strong carbonate altn; limonitic-hematitic sand grains (1% disseminated lim, 0.25% diss hm). An underlying sub-unit (181.65-182m) is probably an unconsolidated breccia (silica-lim-hm altered subangular clasts up to 40mm), remaining matrix consists of lim-clay-carb; 1% diss lim in matrix and clasts and 0.25% hm replacing clasts. The end of the unit consists of a strongly silicified, moderately clay altered and broken up unrecognizable unit, 1% patchy limonite and 0.5% FC hm; local brecciation (182.8-182.85m) medium-grained matrix-supported silicified clast breccia with silicified HU clasts (subangular, up to 10mm) in a lim-clay-carb matrix. XRF 1021ppm at 182m. Lower contact transitions into a less broken up interval.		
		181.4 - 181.7	Pervasive Moderate Clay	Replaces Matrix Strong Fe-carb		
		181.7 - 182.0	Pervasive Strong Clay	Replaces Matrix Strong Fe-carb	Replaces Clasts Strong Silicification	
		182.0 - 183.2	Pervasive Strong Silicification	Pervasive Moderate Clay	Fracture Controlled Moderate Fe-carb	

183.2 - 184.6	HU		Fol-wk	Zone; oxidized, strongly silicified and moderately clay altered unrecognizable unit, possibly partly RQM (locally showing wispy quartz vein defining a weak foliation). 1% disseminated limonite (lim-clay replacing feldspars), 1% FC hematite with local strong bleeding out of fractures. XRF As 1430ppm at 184m. Lower contact transitions out of oxidation.		
		183.2 - 184.6	Patchy Strong Silicification	Patchy Moderate Clay		
184.6 - 185.5	BtS			Weak transitional zone; broken up interval of strongly silicified weakly clay altered biotite-feldspar schist (?), local weak foliation and feldspar porphyroblasts. 0.25% FC lim and hm. Lower contact transitions into less oxidized rocks.		
		184.6 - 185.5	Patchy Strong Silicification	Fracture Controlled Weak Clay		
185.5 - 187.6	BtS	augn	Fol-wk	Biotite-feldspar schist with local feldspar augens/porphyroblasts. Strongly silicified. 0.25% FC lim and 0.1% hm in stringers. Lower contact transitions into an unrecognizable unit.		
		185.5 - 187.6	Pervasive Strong Silicification			
187.6 - 188.4	HU	silc	Fol-wk	Strongly silicified and weakly clay altered (replacing feldspars?) unrecognizable unit, local very weak foliation, possibly BtS. 0.25% diss lim.		
		187.6 - 188.4	Pervasive Strong Silicification	Replaces Felsics Weak Clay		
188.4 - 189.6	BtS	augn	Fol-mod	Biotite-feldspar schist. Partly oxidized, moderately silicified and moderately clay altered (lim-clay replacing feldspar porphyroblasts) biotite feldspar schist. 0.5% limonite in fractures and replacing feldspars, 0.1% Fc hm.		
		188.4 - 189.6	Patchy Moderate Silicification	Pervasive Moderate Clay		
189.6 - 190.6	HU	silc		Weak zone; moderately limonitic, intensely silicified and moderately clay altered unrecognizable unit, oxidized. Local manganese staining. 2% disseminated limonite, 0.1% FC hm.		
		189.6 - 190.6	Pervasive Intense Silicification	Pervasive Moderate Clay		
190.6 - 194.6	AmBtS	silc	Fol-mod	Amphibole-biotite schist with patchy strong QSP alteration and weak chlorite altn. 0.1% FC lim and hm. 0.1% blebby pyrite. Weak cross-cutting calcite veining.		
		190.6 - 194.6	Patchy Strong Silicification	Patchy Strong Sericitisation	Replaces Mafics Weak Chlorite	
194.6 - 197.8	AmBtS		Fol-str	Moderately silicified amphibole-biotite schist, with weak chlorite, weak leucoxene. 0.1% FC lim and hm. 0.1% blebby pyrite.		
		194.6 - 197.8	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite	Selective Repl Weak Leucoxene	
197.8 - 226.7	BtS	augn		Feldspar-biotite schist, locally augen-bearing with feldspar augens up to 15mm wide. Unit is locally moderately fractured, associated with intervals of weak clay alteration. Moderate to strong patchy silicification, weak patchy clay-lim replacement of feldspars, weak patchy chlorite altn, local weak epidote veining. Local weakly limonitic intervals, associated with moderate multi-directional limonite (Fe-Carb+limonite) veining within these intervals. Local dendritic manganese on fractures. Overall 0.25% limonite in fractures, replacing feldspars and in veins; trace hematite in fractures (0.1%). 0.1% blebby to disseminated brassy to partly oxidized pyrite.		
		197.8 - 226.7	Patchy Moderate Silicification	Fracture Controlled Weak Clay	Replaces Mafics Weak Chlorite	
226.7 - 227.6	BtS		Fol-mod	Zone; short interval of oxidized biotite schist with weak clay alteration and moderate silicification. Unit contains a short porous/vuggy interval at 226.97-227.06m, possibly a fault, with iron-manganese in fibrous vuggs; probably the source of mineralization in this zone. 3% diss limonite and 0.5% disseminated hematite. XRF As 371 at 227m. Upper and lower contacts transitions out of oxidation.		
		226.7 - 227.6	Pervasive Moderate Silicification	Pervasive Weak Clay		
227.6 - 247.8	BtS		Fol-mod	Biotite schist with weak patchy silicification, weak clay in fractures and clay-lim replacing feldspars, patchy moderate epidote in foliation parallel bands and weak chlorite after mafics. Local broken up intervals due to re-drill (245-245.3m) Moderate effervescence throughout unit due to frequent multi-directional calcite and Fe-carb veining in stringers and veinlets, often with limonitic selvage, creating discreet intervals which are slightly more limonitic. Overall 0.25% limonite in veins, replacing feldspars and in fractures (overall patchy); 0.1% Fc hematite. 0.1% blebby pyrite, locally partly oxidized. Lower contact transitions into a unit with mafic segregations.		
		227.6 - 247.8	Patchy Weak Silicification	Replaces Felsics Weak Clay	Selective Repl Moderate Epidote	
247.8 - 271.8	MxM		Fol-wk	Mafic dominated mixed gneiss, locally augen-bearing +/- muscovite. Moderate to strong silicification in felsic intervals, moderate chlorite after mafics in mafic segregations as well as moderate epidote. Unit is moderately fractured with weak FC clay alteration in broken up intervals. Biotite schist intervals are locally weakly foliated, foliation is very weak or absent in local porphyroblastic intervals. Moderate effervescence in mafic intervals. Weak limonitization in felsic intervals with overall 0.1% limonite in fractures and in Fe-carb+limonite stringers and veinlets (weak multi-directional veining). Weak foliation parallel opaque quartz veining, up to 2.5cm wide. Trace (0.01%) hematite in red-stained pyrite cubes and in fractures. 0.1% disseminated pyrite; 80% oxidized/partly oxidized, 20% brassy.		
		247.8 - 271.8	Patchy Strong Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote	
271.8 - 276.6	FG	augn	Fol-mod	Augen-bearing felsic gneiss with muscovite, with moderate to strong pervasive silicification and local weak FC clay. 0.1% FC lim and hm, 0.1% brassy to red-stained pyrite.		
		271.8 - 276.6	Pervasive Moderate Silicification	Fracture Controlled Weak Clay		

276.6 - 312.3	MxF	augn	Weak zone; felsic dominated mixed gneiss; transitional with local interval of complete oxidization and strong hematite (289.1-289.8m; 4% hm 0.5% limonite, disseminated, XRF spot check at 1250ppm). Overall moderate silicification in felsic intervals (selective replacement, seem to be related to quartz veining), weak clay-lim replacing feldspars. Local interval of strong silicification associated with quartz veining and low angle (~5-15 to LCA) lim-Fe veining (at 292.85- 294.4m). Mafic intervals are moderately chlorite altered. Unit is strongly fractured at 294.7-305m, with local strong clay in what appears to be faults (303.28-303.34m, 304.5-304.65m). At 305m unit becomes more competent and shows strong silicification and moderate sericite at 307-307.65m. Overall 0.25% limonite dominantly in fractures but also replacing feldspars together with clay, and 0.5% disseminated hematite. XRF highlights: 220ppm @ 291m; 279ppm @ 295m; 326ppm @ 305m.		
276.6 - 292.9			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	Replaces Mafics Moderate Chlorite
292.9 - 294.4			Pervasive Strong Silicification	Replaces Felsics Weak Clay	
294.4 - 303.3			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
303.3 - 303.3			Pervasive Strong Clay		
303.3 - 304.5			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
304.5 - 304.7			Pervasive Strong Clay		
304.7 - 307.0			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
307.0 - 307.7			Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	
307.7 - 312.3			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
312.3 - 333.1	FG		Weak zone; felsic gneiss, locally augen-bearing. Transitional with unoxidized windows and intervals (fresh at 323.9-324.55m). Weak clay replacing felics throughout unit, and overall moderate silicification (selective replacement of felsics). QSP altered intervals more frequent than in overlying unit, with strong silicification and moderate sericite 320.8-321.58m, 328.33-333.12m (patchy due to clay alteration overprinting QSP). Weak sooty sulphide veining at 328.5-329m and 329.9-330.1m; up to 1% sooty sulphides with very fine-grained pyrite in cross-cutting stringers and small disseminations; associated with cross-cutting quartz veins with strong hematite bleeding; XRF 522ppm at 329m, 647ppm at 330m. Overall 0.25% FC limonite and 0.5% disseminated hematite.		
312.3 - 320.8			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
320.8 - 321.6			Patchy Strong Silicification	Patchy Moderate Sericitisation	
321.6 - 328.3			Selective Repl Moderate Silicification	Replaces Felsics Weak Clay	
328.3 - 333.1			Patchy Strong Silicification	Patchy Moderate Sericitisation	
333.1 - 335.0	FG	augn	Fol-wk	Fresh felsic gneiss with moderate pervasive silicification and weak epidote in stringers and small blebs. 0.1% blebby pyrite.	
333.1 - 335.0			Pervasive Moderate Silicification	Selective Repl Weak Epidote	

Drill Log: CFD0269

Easting	584535.47	Hole Length	221 m	Prospect	Supremo T4-5	Drill Started	Jul 23, 2012	Comment	Redrill of CFD0267 due to poor recovery from 110-137m.
Northing	6974397.35	Azimuth	270 °	Target	T5090	Drill Completed	Jul 26, 2012		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	HGrimson	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1247.35 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.7	OVb			
6.7 - 20.2	FG	augn	Fol-str	Felsic dominant gneiss; trace FC limonite; moderate perv seric and silc, weak FC and patchy clay, silc and seric altn
		6.7 - 20.2	Patchy Weak Clay	Patchy Weak Silicification Pervasive Weak Sericitisation
20.2 - 32.2	FG	augn	Fol-str	Felsic dominant gneiss; 0.5% pervasive oxides (lim, weak hem); 0.15% anastomosing limonite veinlets, 0.15% buck quartz veinlets (parallel-to-fol); weak-mod perv sil, weak perv seric, weak FC clay
		20.2 - 32.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Fracture Controlled Weak Clay
32.2 - 32.9	YO	bxi		Monomictic breccia, felsic-gneiss clasts within an unrecognizable matrix; Clasts have well-preserved fabric, weak perv clay-sericite altn, range from 0.5-6cm (average ~1.5cm), dominantly non-rotated (some clasts are slightly rotated), angular and are suspended within the matrix; some clasts are strongly silicified and foliation is faint; Matrix is fine grained, green, aphanitic cement or dacite or extremely altered mixed gneiss; intense seric, mod silica alteration of matrix; 0.25% diss lim within gneissic clasts
		32.2 - 32.9	Replaces Matrix Intense Sericitisation	Replaces Clasts Strong Silicification Replaces Clasts Weak Clay
32.9 - 37.1	FG	augn	Fol-str	Felsic dominant gneiss; 0.5-1% diss oxides (lim, hem), 0.15% anastomosing limonite veinlets, 0.15% cross-cutting quartz veinlets; moderate perv seric, weak perv clay and silc
		32.9 - 37.1	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Pervasive Weak Silicification
37.1 - 37.8	YO	bxi		Monomictic breccia, quartz-vein clasts within a silicified-gneiss matrix; clasts are angular opaque quartz, rotated, 1mm-2.5cm wide; suspended within a mixed gneiss matrix with str perv silc, seric, mod chlorite alteration; weak FC clay and 0.15% FC limonite
		37.1 - 37.8	Pervasive Strong Silicification	Replaces Matrix Strong Sericitisation Replaces Mafics Moderate Chlorite
37.8 - 42.6	FG	augn	Fol-str	Felsic dominant gneiss; 0.5-1% diss oxides (lim, hem), 0.15% quartz veinlets (par-to-fol); mod perv clay, seric, weak perv silc altn; limonite-clay vein at 41m (0.75cm wide)
		37.8 - 42.6	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Pervasive Weak Silicification
42.6 - 56.1	MxF	augn	Fol-str	Felsic dominant mixed gneiss; 0.25% oxides (FC and anastomosing veinlets generally originating near fractures), 0.1% calcite veinlets (cross-cutting); mod-st perv silc, weak perv seric, FC clay altn; Higher concentration of limonite veinlets from 55.13-56.11m ~0.75%
		42.6 - 56.1	Pervasive Strong Silicification	Pervasive Weak Sericitisation Fracture Controlled Weak Clay
56.1 - 59.4	MxF	augn	Fol-str	Mixed gneiss, fresh; weak-mod perv silc, weak perv seric altn; trace FC lim (<0.1%); 0.1% buck quartz veins
		56.1 - 59.4	Pervasive Weak Silicification	Pervasive Weak Sericitisation
59.4 - 68.0	FG	augn	Fol-mod	FG with mod perv sc. Weak clay altn in replacement of feldpars at 63.4ft. 0.1% frac cont lim and 0.25% at 67.5ft.
		59.4 - 68.0	Replaces Felsics Moderate Silicification	Patchy Weak Clay Pervasive Weak Epidote

68.0 - 86.1	FG	augn	Fol-mod	Very weak zone, FG with 0.5 to 1.3% diss and frac cont sulphides. Moderate clay altn in general in replacement of felspars, and mod sc in replacement of felsic minerals when clay altn is weak.	
		68.0 - 72.4	Selective Repl Moderate Clay	Replaces Felsics Weak Silicification	
		72.4 - 72.6	Selective Repl Strong Clay	Replaces Felsics Weak Silicification	
		72.6 - 76.5	Replaces Felsics Moderate Silicification		
		76.5 - 77.6	Fracture Controlled Strong Clay	Replaces Felsics Weak Silicification	
		77.6 - 86.1	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay	
86.1 - 98.0	MxF	augn	Fol-mod	Mxf with one carbonate vein at 86,14ft to 86.6ft. Mod pervasive sc and in replacement of felsic minerals. 0.1 to 0.5% frac cont lim (fine lim veinlets at 86.14ft at the contact between FG and the carbonate vein).	
		86.1 - 86.6	Pervasive Moderate Chlorite		
		86.6 - 89.0	Replaces Mafics Moderate Silicification		
		89.0 - 90.4	Replaces Mafics Moderate Chlorite		
		90.4 - 94.1	Pervasive Strong Silicification		
		94.1 - 98.0	Pervasive Moderate Silicification		
98.0 - 105.4	FG	augn	Fol-mod	FG with mod sc in replacement of felsic minerals, and weak frac cont clay altn. 0.1% to 0.5% of frac cont lim.	
		98.0 - 105.4	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay	
105.4 - 109.4	FG	augn	Fol-mod	Mod zone with 0.75% to 1% diss lim, FG with a breccia texture and str perv sc in the upper section and str clay altn in replacement of feldpars in the lower section.	
		105.4 - 106.9	Pervasive Strong Silicification	Selective Repl Weak Clay	
		106.9 - 109.4	Selective Repl Strong Clay	Replaces Felsics Weak Silicification	
109.4 - 110.2	FC	fgrn	Fol-mod	Strong zone, dacite dyke fine grained, strong perv clay altn. Small 5cm FG band with a breccia texture. 1,5% diss lim and 0.5% frac cont hm.	
		109.4 - 110.2	Pervasive Strong Clay		
		110.2 - 126.2	Selective Repl Strong Clay	Replaces Felsics Weak Silicification	
110.2 - 127.0	FG	augn	Fol-mod	Weak-mod zone, FG with strong clay altn in replacement of feldpars. Weak perv sc. 1% diss lim.	
		126.6 - 128.4	Selective Repl Moderate Clay	Weak Silicification	
127.0 - 141.3	FG	augn	Fol-mod	Mod-strong zone, FG with 1% diss lim and 3% diss hm (mottled) until 138.37ft, lower there is 0,5% diss hm. Mod clay altn in replacement of feldspars or pervasive. Moderate sc in replacement of felsic minerals in general.	
		128.4 - 131.0	Pervasive Strong Clay		
		131.0 - 134.2	Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification	
		134.2 - 135.5	Fracture Controlled Strong Clay	Replaces Felsics Moderate Silicification	
		135.5 - 138.4	Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification	
		138.5 - 141.3	Selective Repl Strong Clay	Replaces Felsics Weak Silicification	
141.3 - 141.9	FG	fgrn	Strong small zone, FG with strong perv clay altn, and strong 5% diss limonite. Some small augens and foliation are still visible.		
		141.3 - 141.9	Pervasive Strong Clay		
		141.9 - 143.1	Selective Repl Strong Clay		
141.9 - 148.9	FG	augn	Fol-mod	Strong zone, FG with 1.5% diss sulphide and strong perv clay altn and, lower(from 143.14ft), mod sc in replacement of felsic minerals.	
		143.1 - 148.7	Selective Repl Strong Clay	Replaces Felsics Moderate Silicification	
148.9 - 149.3	FC	fgrn	Mod zone, small dacite dyke with 3% diss sulphides and mod perv clay altn.		
		148.9 - 149.3	Pervasive Moderate Clay		

149.3 - 151.6	FG	augn	Fol-wk	Strong zone, FG transitionnal contact with the lower breccia. Mod sc in replacement of felsic minerals and mod clay in replacement of feldspars.
149.3 - 152.3			Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification
151.6 - 153.8	YO	bx		Strong zone with 0.5% sooty pyrite at 152.61ft and 10% coarse grained fresh and oxide pyrite. The contact is transitionnal with the upper unit FG. Polymictic clasts supported, angular. Moderate clay frac cont altn in general and the middle of the breccia is strongly silicified on 10cm wide.
152.3 - 153.2			Pervasive Strong Silicification	Fracture Controlled Moderate Clay
153.2 - 153.8			Pervasive Moderate Silicification	Fracture Controlled Moderate Clay
153.8 - 157.5	FC	fgrn		Strong zone, dacite dyke with 3% diss sulphides and mod perv clay altn.
153.8 - 157.5			Pervasive Moderate Clay	
157.5 - 160.0	FC	fgrn		Non mineralized dacite dyke with moderate perv chlorite altn, fine grained.
157.5 - 160.0			Pervasive Moderate Chlorite	
160.0 - 170.9	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals, 0.1% frac cont lim.
160.0 - 170.7			Replaces Felsics Moderate Silicification	
170.7 - 171.7			Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification
170.9 - 171.7	FG	augn	Fol-mod	Very weak zone, 1% diss lim (mottled), mod sc in replacement of felsic minerals and clay altn in replacement of feldspars.
171.7 - 177.1	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals and weak clay alt. 0.5% frac cont sulphides.
171.7 - 177.1			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay
177.1 - 179.9	FG	augn		Mod zone with 1,5% diss lim and 0,5%frac cont hm. Mod sc in replacement of felsic minerals and clay altn in replacement of feldspars.
177.1 - 179.9			Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification
179.9 - 182.6	FG	augn		FG with mod sc in repl of felsic minerals and weak clay alt. 0.3% frac cont lim.
179.9 - 182.6			Replaces Felsics Moderate Silicification	
182.6 - 184.2	FG	augn		Strong zone, FG with 3% diss lim and mod sc in replacement of felsic minerals and weak clay altn in replacement of feldspars.
182.6 - 184.2			Selective Repl Weak Clay	Replaces Felsics Moderate Silicification
184.2 - 185.4	FC	fgrn		Strong mineralized zone, dacite dyke with 0.1% frac cont lim in the upper section and in the lower section there is 8% sooty pyrite. Weak perv clay altn.
184.2 - 185.4			Pervasive Weak Clay	
185.4 - 185.7	FG	augn		Strong zone with 4% sooty pyrite and mod sc in replacement of felsic minerals.
185.4 - 216.3			Replaces Felsics Moderate Silicification	
185.7 - 216.3	FG	augn		FG with mod sc in repl of felsic minerals and weak clay alt. 0.5% frac cont sulphides.
216.3 - 219.5	FG	augn		Weak zone with 1% diss lim, mod clay altn in repl of feldspars and mod sc in repl of felsic minerals.
216.3 - 219.5			Replaces Felsics Moderate Silicification	Selective Repl Moderate Clay
219.5 - 221.0	FG	augn		FG with mod sc in repl of felsic minerals. 0.1% frac cont sulphides.
219.5 - 221.0			Replaces Felsics Moderate Silicification	

Drill Log: CFD0270

Easting	584586.89	Hole Length	287 m	Prospect	Supremo T4-5	Drill Started	Jul 26, 2012	Comment
Northing	6974400.4	Azimuth	280 °	Target	T4-5	Drill Completed	Jul 29, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	SLavoie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1242.59 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 4.0	OVB			Casing
		0.0 - 17.0		Replaces Felsics Moderate Silicification
4.0 - 17.0	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals, and 0.5% diis lim.
17.0 - 22.9	FG	augn	Fol-mod	Mod zone, FG with 1% diss lim, trace of hm, and mod sc in repl of felsic minerals and mod clay alt in repl of feldspars.
		17.0 - 22.6		Replaces Felsics Moderate Silicification
		22.6 - 28.1		Replaces Felsics Moderate Silicification
22.9 - 28.0	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals and 0.3% diss lim.
28.0 - 38.5	FG	augn	Fol-mod	Weak zone, FG with mod sc in repl of felsic minerals, 0.3% to 0.75 % diss lim and trace of hm.
		28.1 - 28.6		Replaces Felsics Moderate Silicification
		28.6 - 56.4		Fracture Controlled Strong Clay
				Replaces Felsics Weak Silicification
38.5 - 42.1	FG	augn	Fol-mod	FG with strong clay altn mostly controled by fractures, and in replacement of feldspars. Weak silicification in repl of felsic minerals. 0.75% diss lim in upper section, increase to 1% in the middle and decrease to 0.5% in the lower section.
42.1 - 46.9	FG	augn	Fol-mod	Mod zone with 5% sooty pyrite at 42.67ft, FG with strong clay altn mostly controled by fractures, and in replacement of feldspars. Only 0,1% diss lim increase to 0.5% in the lower section.
46.9 - 52.5	FG	augn	Fol-mod	FG with strong frac cont lim and 0,5% diss lim.
52.5 - 57.6	FG	augn	Fol-mod	Weak zone with the lower section strongly sc, strong frac cont lim and 0,5% diss lim.
		56.4 - 57.6		Pervasive Strong Silicification
57.6 - 58.7	BtS	gphr	Fol-mod	Bts schist with coarse grained bts. Strong perv chlorite alteration. 0,1% frac cont lim.
		57.6 - 58.4		Pervasive Strong Chlorite
		58.4 - 68.4		Replaces Felsics Moderate Silicification
				Selective Repl Weak Clay
58.7 - 68.4	FG	augn	Fol-mod	Very weak zone, with mod sc in repl of felsics minerals and weak clay altn in repl of feldspars. 0.1% frac cont lim increase in the lower section to 0.3%. From 60.62ft to 62.46 ft, 1% diss hm and trace of hm.
68.4 - 70.4	FC	fgrn	Fol-wk	Old dacite dyke, weakly foliated, lower shoulder brecciated with sc clasts supported (10cm wide). 0.3% frac cont lim.
		68.4 - 70.5		Pervasive Strong Chlorite
70.4 - 74.0	FG	augn	Fol-wk	Mod small zone with strong frac cont clay altn with 2% diss lim decrease after 71.38ft to mod clay altn with 0.3% diss lim. Trace of hm. Mod sc in repl of felsic minerals in general.
		70.5 - 71.4		Fracture Controlled Strong Clay
				Replaces Felsics Weak Silicification
		71.4 - 78.7		Fracture Controlled Moderate Clay
				Replaces Felsics Moderate Silicification
74.0 - 80.7	FG	augn	Fol-mod	FG with mod clay in repl of feldspars, with only 0.3% frac cont lim and trace of hm and mod sc in repl of felsic minerals. Clay altn begin stronger after 78.67ft.
		78.7 - 82.1		Fracture Controlled Strong Clay
				Replaces Felsics Moderate Silicification
80.7 - 82.1	FG	augn	Fol-mod	Weak zone, FG strongly altered by frac cont clay altn and mod sc in repl of felsic minerals. 1% frac cont lim and trace of hm.

82.1 - 91.0	FG	augn	Fol-mod	FG with mod clay altn in repl of feldspars, and weak sc in repl of flsic minerals, 0.5% diss lim.		
82.1 - 91.0			Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification		
91.0 - 100.0	FG	augn	Fol-mod	FG with mod sc in repl of felsics minerals and 0.3% frac cont and mottled lim. Some small carbonate veinlets.		
91.0 - 110.2			Replaces Felsics Moderate Silicification	Selective Repl Weak Clay		
100.0 - 102.5	FG	augn	Fol-mod	Very weak zone. FG with mod sc in repl of felsics minerals and 0.75% frac cont and mottled lim. At 110.5ft, small breccia with silicified and angular clasts (matrix supported), smaller than 0.75cm.		
102.5 - 150.0	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals and two small sections with strong clay altn, 0,1% to 0,75% diss and frac cont limonite. Quartz vein at 148.7ft.		
110.2 - 110.7			Pervasive Strong Clay			
110.7 - 136.1			Replaces Felsics Moderate Silicification			
136.1 - 137.0			Fracture Controlled Strong Clay	Replaces Felsics Weak Silicification		
137.0 - 150.9			Replaces Felsics Moderate Silicification			
150.0 - 169.9	FG	augn	Fol-mod	Weak zone, FG with 1,5% diss limonite and trace of frac cont hm. Mod clay altn in repl of feldspars and weak to mod sc in replacement of felsic minerals. One small section with strong perv sc (160.35ft to 160.85ft).		
150.9 - 159.9			Selective Repl Moderate Clay	Replaces Felsics Weak Silicification		
159.9 - 160.9			Pervasive Strong Silicification			
160.9 - 162.2			Selective Repl Moderate Clay	Replaces Felsics Weak Silicification		
162.2 - 163.6			Pervasive Moderate Silicification			
163.6 - 169.9			Selective Repl Moderate Clay			
169.9 - 181.7	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals, and 0.3% frac cont lim.		
169.9 - 182.0			Replaces Felsics Moderate Silicification			
181.7 - 185.2	FG	augn	Fol-mod	Weak zone, FG with 0.5% to 1% diss lim and mod clay altn in repl of felspars, begin stronger in frac controlled at 184.5ft.		
182.0 - 184.4			Selective Repl Moderate Clay	Replaces Felsics Weak Silicification		
184.4 - 184.7			Fracture Controlled Strong Clay			
184.7 - 185.7			Selective Repl Moderate Clay	Replaces Felsics Moderate Silicification		
185.2 - 187.4	FG	augn	Fol-mod	FG with mod sc in repl of felsic minerals, and 0.1% frac cont lim.		
185.7 - 187.4			Replaces Felsics Moderate Silicification			
187.4 - 201.1	FG	augn	Fol-mod	Mod to strong zone, with 2% diss lim and 0.75% frac cont hm. Mod clay altn in repl of felspars. At 191.43ft, 10cm breccia with silicified clasts, clasts supported matrix with a strongly clay altn. At 198.75ft, small breccia of 20 cm, 10% of carbonate veinlets, foliation is destroyed. The clasts are silicified, clasts supported matrix.		
187.4 - 189.8			Selective Repl Moderate Clay			
189.8 - 190.5			Pervasive Moderate Calcite	Replaces Felsics Weak Silicification	Selective Repl Moderate Clay	
190.5 - 191.5			Pervasive Strong Clay			
191.5 - 193.0			Fracture Controlled Strong Clay			
193.0 - 193.7			Fracture Controlled Weak Clay	Replaces Felsics Moderate Silicification		
193.7 - 194.0			Pervasive Strong Clay			
194.0 - 205.3			Selective Repl Weak Clay	Replaces Felsics Weak Silicification	Patchy Moderate Calcite	

201.1 - 228.6	FG	augn	Fol-mod	Strong mineralized zone with 3% to 12% disseminated sooty pyrite. From 201ft to 203 ft, sooty pyrite in stringer. Moderate sc in replacement of felsic minerals. Some small sections with strong perv sc. At 222.72ft to 223.73ft, strong pervasive sericitisation. Weak clay altn in replacement of feldpars. Some small (1-2cm wide in the core axis) quartz veins cut the foliation.		
		205.3 - 205.6	Pervasive Strong Silicification			
		205.6 - 211.5	Replaces Felsics Moderate Silicification	Selective Repl Weak Clay	Pervasive Weak Sericitisation	
		211.5 - 212.0	Pervasive Strong Silicification	Pervasive Moderate Sericitisation		
		212.0 - 214.2	Replaces Felsics Moderate Silicification	Selective Repl Weak Clay	Pervasive Weak Sericitisation	
		214.2 - 214.7	Patchy Strong Silicification	Pervasive Weak Sericitisation		
		214.7 - 218.0	Replaces Felsics Moderate Silicification	Pervasive Weak Epidote		
		218.0 - 222.7	Replaces Felsics Weak Silicification	Selective Repl Weak Clay		
		222.7 - 223.7	Pervasive Strong Sericitisation	Selective Repl Weak Clay	Replaces Felsics Weak Silicification	
		223.7 - 229.9	Pervasive Moderate Sericitisation	Selective Repl Weak Clay	Replaces Felsics Weak Silicification	
228.6 - 239.7	MxF	band	Fol-mod	MxF with mod sc in repl of felsic minerals and mod chlorite in repl of mafic minerals. Mod perv sericitization. Trace of frac cont lim.		
		229.9 - 237.0	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite		
		237.0 - 244.4	Pervasive Moderate Sericitisation	Selective Repl Moderate Clay		
239.7 - 244.4	FG	augn	Fol-mod	Mod zone, FG with mod perv sericite and mod clay altn in repl of feldspars. Only 0.5% diss lim (mottled). 0.5% diss hematite between 240ft and 241ft.		
244.4 - 246.6	FC	fgrn		Oxide and fresh dacite dyke with mod perv sc and weak perv clay altn. 0.5% of diss lim. Upper contact is sharpened.		
		244.4 - 247.7	Pervasive Moderate Silicification	Pervasive Weak Clay		
246.6 - 251.3	FC	fgrn		Strong zone, dacite dyke, mottled lim and leisegan banding texture. 4% diss lim and strong frac cont clay altn. 0.5% frac cont hematite.		
		247.7 - 251.3	Fracture Controlled Strong Clay	Pervasive Moderate Silicification		
251.3 - 287.0	MxF	band	Fol-mod	Mxf, mod sc in repl of felsic minerals and weak perv sericite. 0.3% patchy (diss) lim.		
		251.3 - 287.0	Replaces Mafics Moderate Silicification	Patchy Weak Sericitisation		

Drill Log: CFD0271

Easting	585278.69	Hole Length	251 m	Prospect	Double Double	Drill Started	Jul 26, 2012	Comment
Northing	6973374.3	Azimuth	182 °	Target	Dou031	Drill Completed	Jul 29, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist	PJohansson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1096.75 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 26.5	BtS	band		Biotite schist (minor felsic component). Moderate chlorite altn and 0.1% fracture controlled limonite. 0.1% blebby pyrite
		6.0 - 26.5	Replaces Mafics Moderate Chlorite	
26.5 - 51.7	MxM			Mafic dominated mixed gneiss, moderately foliated. Strongly fractured unit (locally with poor recovery, down to 48%), with moderate chlorite alteration defining foliation and making the rock friable, weak to moderate FC clay, weak epidote in bands. Moderate to strong effervescence throughout unit; moderate calcite alteration with abundant cross-cutting calcite veins. 0.1% FC limonite and 0.1% brassy to oxidized blebby to cubic pyrite.
		26.5 - 51.7	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay
51.7 - 53.4	Ycarb	bxi		Strongly fractured unit containing intervals with medium-grained clasts-supported limonite-clay-carbonate matrix breccias with unaltered to weakly limonitized and silicified subangular to subrounded BtS clasts. Brecciation seem to be associated with low angle calcite and quartz veining (10-20 to LCA). Broken up interval at 52.5-52.9m (composite meters; 47% recovery) possibly not brecciated. Strong chlorite alteration of mafics, moderate to local strong patchy clay and strong Fe-carb alteration. Upper contact obscured in broken up clay altered interval, lower contact transitioning into BtS. 0.25% limonite in matrix.
		51.7 - 53.4	Replaces Mafics Strong Chlorite	Patchy Moderate Clay
53.4 - 62.1	MxM	band		Mafic dominated mixed gneiss. Locally strongly fractured with down to 60% recovery (59-62m). Moderate silicification in minor felsic intervals, moderate chlorite and weak epidote in foliation parallel bands. Frequent cross-cutting Fe-carb/limonite stringers (moderate effervescence throughout unit). 0.1% FC limonite and 0.1% disseminated brassy to partly oxidized pyrite. Lower contact transitions into oxidation.
		53.4 - 62.1	Selective Repl Moderate Silicification	Replaces Mafics Moderate Chlorite
62.1 - 65.0	BtS			Zone; altered and oxidized biotite schist with remnant foliation locally visible. Poor recovery (50%, composite meters). Stockwork style Fe-carb-hematite-lim veining, with strong hematite bleeding. Moderate qtz veining at ~50 to LCA Moderate patchy silicification and weak clay replacing felsics, local strong clay at end of unit (64.6-65m) in strongly fractured and possibly brecciated interval. Unit is 1% disseminated hematite in vein selvage/bleeding and replacing pyrite cubes, and 0.5% limonite in vein selvage and fractures. XRF spot check 209 ppm at 62.6m.
		62.1 - 64.6	Patchy Moderate Silicification	Replaces Felsics Weak Clay
		64.6 - 65.0	Pervasive Strong Clay	

65.0 - 78.8	MxM			Mafic dominated mixed gneiss. Locally weakly oxidized and mineralized; 68.9-69.30m (composite meters, 42% recovery) weak silicification and clay replacement of feldspars, 0.5% disseminated hematite (XRF 328ppm at 69m); 72.6-74m moderate silicification and weak clay after felsics, 0.25% FC lim and 0.25% diss hm (XRF 325ppm at 74m). Local interval with intensely silicification and moderate albite at 76.5-77.45m with weak weak limonite (0.25% in Fe-carb-lim veins) and weak hematite around a weakly brecciated quartz vein at 77.35-77.45m. Otherwise moderate chlorite alteration, weak to moderate FC clay (in fractures) and weak leucoxene altn; moderate effervescence throughout unit (frequent calcite/carbonate veinlets and stringers, cross-cutting); 0.1% FC lim and 0.1% blebby pyrite. Lower contact is obscured in a broken up interval, but seem to consist of an oxidation front.
65.0 - 68.9	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay	Weak Leucoxene	
68.9 - 69.3	Pervasive Weak Silicification	Replaces Felsics Weak Clay		
69.3 - 72.6	Replaces Mafics Moderate Chlorite	Fracture Controlled Moderate Clay	Weak Leucoxene	
72.6 - 74.0	Pervasive Moderate Silicification	Replaces Felsics Weak Clay		
74.0 - 76.5	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Weak Leucoxene	
76.5 - 77.5	Pervasive Intense Silicification	Replaces Felsics Moderate Albite		
77.5 - 78.8	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Weak Leucoxene	
78.8 - 81.8	HU	silc		Strongly oxidized, moderately clay altered and strongly silicified unrecognizable unit (possibly Bts; local remnant foliation). Unit is strongly fractured down to 79.3m, and gets more competent below this interval. Strong FC clay at 81-81.2m. Frequent Fe-carb-limonite veinlets/stringers at 10-20 to LCA; drusy quartz veins at ~5 to LCA. Strongly hematitic (4% disseminated) and 3% disseminated limonite. Lower contact transitions into a unit with weaker hematite/limonite. XRF 1024ppm at 79m, 1934ppm at 80m and 4173ppm at 81m.
78.8 - 81.0	Pervasive Strong Silicification	Pervasive Moderate Clay		
81.0 - 81.2	Fracture Controlled Strong Clay			
81.2 - 81.8	Pervasive Strong Silicification	Pervasive Moderate Clay		
81.8 - 85.7	BtS	silc		Transitional zone. Biotite schist; strongly to locally intensely silicified, weak clay (selective replacement), locally crackle brecciated. Strongly fractured at 82.7-83.5. Crackle brecciation at 81.8-82.7m, 83.2-83.8m, 84.55-85.7m; defined by stockwork style Fe-carb-limonite stringers. Intense silicification at 84.55-85.7m, otherwise strong pervasive. Minor sooty sulphides (0.25%) in qtz veins at 82.10-82.7m, 20-30 to LCA. Frequent Fe-carb-limonite veins at 25-35 to LCA, locally with hematitic selvage. XRF 322ppm at 82m, 227ppm at 83m, 313 at 84m. Overall 0.5% disseminated limonite and 0.25% disseminated hematite. Lower contact transitions out of silicification and into a fresher MxM unit.
81.8 - 84.5	Patchy Strong Silicification	Selective Repl Weak Clay		
84.5 - 85.7	Pervasive Intense Silicification	Selective Repl Weak Clay		
85.7 - 92.0	MxM	lamn		Fol-mod Mafic dominated mixed gneiss. Moderate silicification of felsics, weak chlorite after mafics, weak epidote in foliation parallel bands, weak leucoxene altn. Moderate Fe-carb-limonite veining at 15-20 to LCA; multi-directional calcite stringers. 0.25% FC limonite and 0.1% FC hematite. 0.1% brassy to partly oxidized pyrite.
85.7 - 92.0	Selective Repl Moderate Silicification	Replaces Mafics Weak Chlorite	Selective Repl Weak Leucoxene	
92.0 - 105.2	BtS	Fol-wk		Biotite schist with moderate chlorite after mafics, moderate epidote in bands and irregular blebs, weak patchy leucoxene altn. Unit is locally (99-100.03m) moderately silicified around a massive milky quartz vein at 99.9-100.03m. Frequent calcite veinlets and stringers, from locally LCA parallel to a trend of 20-35 to LCA (found throughout unit). 0.1% limonite and hematite in fractures, 0.1% blebby pyrite.
92.0 - 99.0	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote	Selective Repl Weak Leucoxene	
99.0 - 100.0	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	Selective Repl Weak Epidote	
100.0 - 105.2	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote	Selective Repl Weak Leucoxene	

105.2 - 116.5	BtS	silc	Patchy transitional zone. Variably altered biotite schist: local limonitic oxidized intervals with intervening bleached and QSP altered intervals, and further locally weakly altered. Upper contact is sharp with low angle (10 to LCA) quartz and calcite veining into silicified and partly oxidized rocks. Moderate patchy silicification and moderate chlorite at 105.2-107.5m; 0.25% FC lim; deformation evident in slickensides at 105.7-105.9m. Moderate QSP at 107.5-108.45m; 0.1% FC lim. Unit is oxidized but still contains unoxidized windows at 108.4-109.53m, locally crackle brecciated with stockwork of Fe-carb-limonite stringers defining brecciation; with strong silicification and weak FC clay; 1% FC limonite, 0.5% diss hematite, 0.25% diss sooty sulphides in unoxidized windows; XRF spot check 6220ppm at 109.45m. Moderate patchy QSP, weak chlorite, weak patchy epidote and moderate leucoxene at 109.53-116.52m; 0.25% FC lim 0.1-0.25% FC hm; local 1% sooty sulphides in disseminations and veinlets at 111.55-111.85m in a QSP altered interval; XRF spot check 833ppm at 111.76m. Unit shows moderate qtz and calcite veining locally with Fe-carb/limonitic selvage, multi-directional to cross-cutting, but with local trend of high angle (50-70 to LCA, 106-108.45m). Lower contact is transitional into less altered rocks. XRF spot check 288ppm at 116.4m.		
105.2 - 107.5		Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite		
107.5 - 108.5		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation		
108.5 - 109.5		Patchy Strong Silicification	Fracture Controlled Weak Clay	Replaces Matrix Moderate Fe-carb	
109.5 - 116.5		Patchy Moderate Silicification	Patchy Moderate Sericitisation	Replaces Mafics Weak Chlorite	
116.5 - 138.7	MxM	Mafic dominated mixed gneiss, weak to moderate foliation, locally absent. Unit is moderately fractured, local vuggy texture (clay replacing feldspars?). Felsic sections are moderately silicified (selective replacement), weak to moderate chlorite after mafics, moderate patchy epidote, weak FC clay to local moderate FC clay (128.3-129m, possibly faults). Unit shows minor deformation with offset quartz veins and weak crenulations at 127-128m. Weak cross-cutting calcite veining. Unit is more limonitic at 133-134.6m (0.25% FC + lim-clay replacing feldspars) in a strongly silicified and weakly clay altered (repl felsics) interval with strong stockwork Fe-carb-limonite veining, interval is also weakly sheared with weak crenulations. Silicification of felsics increases to strong from 136.93-138.5m, as well as increased multidirectional calcite veining. Overall 0.1% FC limonite and hematite, 0.1% brassy to partly oxidized pyrite. Lower contact transitions into a highly altered mineralized unit.			
116.5 - 128.5		Selective Repl Moderate Silicification	Replaces Mafics Weak Chlorite	Patchy Moderate Epidote	
128.5 - 129.0		Fracture Controlled Moderate Clay			
129.0 - 133.0		Selective Repl Moderate Silicification	Replaces Mafics Weak Chlorite	Patchy Moderate Epidote	
133.0 - 134.6		Pervasive Strong Silicification	Replaces Felsics Weak Clay		
134.6 - 138.7		Selective Repl Strong Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Epidote	
138.7 - 138.9	HU	silc	Zone. Strongly silica-clay moderately altered and fractured unrecognizable unit (possibly highly altered BtS as weak foliation is locally visible). Strongly hematitic with 4% diss hematite and 2% disseminated limonite. Milky quartz veins 2cm wide at ~50 to LCA at 138.88-138.94m.		
138.7 - 138.9		Pervasive Strong Silicification	Fracture Controlled Moderate Clay		
138.9 - 139.1	YC	bxv	Zone. Polyphase pipe breccia; medium-grained polymictic clast-supported silicified clast breccia with 3 types of clasts: 1-8mm subangular silicified bleached HU clasts, locally with pyrite blebs still intact; 3-25mm wide orange sub-rounded to sub-rounded limonitic/hematitic silica-clay altered HU clasts, showing internal brecciation; rounded mm scale limonitic/hematitic clasts within matrix. Matrix is strongly hematitic, fine-grained with mm-scale clasts. Unoxidized window at 139.01 with fine-grained sooty pyrite (overall 0.5%). Strong silicification of clasts and strong clay alteration, moderate Fe-carb replacing matrix. 5% hematite in matrix, 2% diss limonite. XRF AS 7893ppm at 139m. Upper and lower contacts are sharp out of brecciation. Lower breccia-wall at 55 to LCA.		
138.9 - 139.1		Replaces Clasts Strong Silicification	Replaces Matrix Strong Clay	Replaces Matrix Moderate Fe-carb	
139.1 - 139.5	BtS	silc	Transitional zone. Strongly silicified and weakly clay altered biotite schist. Remnant foliation. 1% fine-grained sooty pyrite in unoxidized windows. 1.5% disseminated hematite (bleeding out of fractures) and 0.5% FC limonite. Quartz veining at 15 to LCA. Lower contact is a sharp out of oxidation.		
139.1 - 139.5		Pervasive Strong Silicification	Fracture Controlled Weak Clay		
139.5 - 142.1	MxM	Fol-mod	Mafic dominated mixed gneiss with moderate chlorite altn and patchy moderate silica-sericite alteration, weak leucoxene. 0.1% FC hematite, 0.1% blebby pyrite, locally hematite stained.		
139.5 - 142.1		Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification	Patchy Moderate Sericitisation	

142.1 - 147.9	RQM	qtz	Fol-str	Highly strained unit of ribbon-quartz mylonite with wispy quartz veins, with secondary intervals of biotite schist. Breccia vein at 144.56-144.76m; slightly rotated angular silicified wall-rock clasts, 5-20mm wide, as well as sub-rounded to rounded mm to sub-mm scale rounded clasts within silca/Fe-carb matrix of silica. Local strong stockwork chlorite and sericite veining defining crackle brecciation. Moderate chlorite altn in BtS intervals, strong patchy QSP alteration. Moderate milky to porcelainic quartz veining at 143.5-147.9m, 15-20 to LCA. 0.25% FC lim and hm, local 0.1% disseminated sooty pyrite. 0.25% blebby pyrite. Lower contact transitional into less strained rocks.	
		142.1 - 147.9	Patchy Strong Silicification	Patchy Strong Sericitisation	Replaces Mafics Moderate Chlorite
147.9 - 152.8	MxF	lamn	Fol-mod	Felsic dominated mixed gneiss. Felsic intervals strongly silicified (149.75-151.78m) and locally weakly sericitized (150.3-151.89m, veining), moderate chlorite alteration of mafics. Stockwork style hematite (149.8-150.3m) and Fe-carb-limonite (152-152.78) veining locally defining crackle brecciation. 0.25% FC limonite and hematite. 0.1% blebby pyrite.	
		147.9 - 148.8	Selective Repl Strong Silicification	Replaces Mafics Moderate Chlorite	
		148.8 - 152.8	Pervasive Strong Silicification	Patchy Weak Sericitisation	
152.8 - 179.4	MxM			Mafic dominated mixed gneiss, moderately fractured with weak clay in fractures, weakly foliated. Moderate silicification in felsic intervals, moderate chlorite after mafics, moderate patchy epidote in bands and irregular blebs, weak FC clay. 0.1% lim and hm in fractures and in partly oxidized pyrite (0.1% blebby to partly oxidized).	
		152.8 - 179.4	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote
179.4 - 188.0	FG	augn	Fol-mod	Augen gneiss, muscovite along foliation. Moderate patchy silicification, weak chlorite after mafics, and local weak clay replacing feldspars (187.5-188.03m). Local deformation evident in weak crenulations (183.8-184.10m) and local crackle brecciation defined by stockwork style Fe-carb/lim stringers. 0.1% FC lim and hm. 0.1% blebby brassy to partly oxidized pyrite. Lower contact transitions into a mineralized unit. XRF As 866ppm at 188m.	
		179.4 - 187.5	Patchy Moderate Silicification	Replaces Mafics Weak Chlorite	
		187.5 - 188.0	Replaces Felsics Weak Clay		
188.0 - 193.3	BtS			Zone. Mineralized and oxidized biotite schist, minor local unoxidized windows with overall 0.1% sooty pyrite. Remnant weak foliation. Strongly silicified (patchy) and weakly clay altered. Moderate quartz veining, at 30-50 to LCA, locally cross-cutting and offset by later stage deformation. Local clast-supported brecciated veins cross-cutting earlier stage quartz veining, with silicified subrounded to subangular HU clasts in a clay-limonite matrix (189.7-189.9m), 10 to LCA. Stockwork style hematitic-limonitic stringers locally defining crackle brecciation. Low angle lim-hm veining, with minor Fe-carb, parallel to sub-parallel to LCA from 190.8-192.6m). Strong hematite; 5% disseminated, and 2% disseminated limonite. XRF As ranges 669-2130 at metermarks. Lower contact transitions out of oxidations with decreasing hematite and clay alteration, and increasing silicification into a RQM unit.	
		188.0 - 193.3	Patchy Strong Silicification	Pervasive Weak Clay	
193.3 - 196.5	RQM	qtz	Fol-str	Strongly strained, strongly silica-sericite altered ribbon-quartz mylonite with wispy quartz veins defining foliation. Strong low angle to LCA parallel veining of calcite-quartz (chalcedonic to porcelainic) laminated with lim-hm selvage; sericite; fine-grained pyrite and hematite/Fe-carb. Trace sooty pyrite visible in small disseminations (0.1%), 0.25% blebby pyrite (partly oxidized in upper part of unit). 0.25% FC lim and 0.25% disseminated hemaite. Lower contact transitions into less strained rocks	
		193.3 - 196.5	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
196.5 - 201.8	MxF			Felsic dominated mixed gneiss. Strong silicifications of felsics, moderate chlorite after mafics, weak epidote and weak sericite in stockwork veining at 196.5-200.6m. Increasing clay alteration to moderate pervasive at 196.5-201.83m. Unit is locally crackle brecciated; brecciation defined by stockwork of sericite, calcite and limonite-hematite/Fe-carb stringers and veinlets. Moderate effervescence in mafic intervals. Frequent crackle brecciated and offset milky quartz veins from 199-201.15m. 0.1-0.25% limonite and hematite in stockwork veins and fractures. Lower contact is sharp into a clay altered and brecciated unit.	
		196.5 - 200.6	Selective Repl Strong Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Epidote
		200.6 - 201.8	Pervasive Moderate Clay	Replaces Mafics Moderate Chlorite	
201.8 - 201.9	Ycarb	bxm		Zone. Medium-grained polymictic unconsolidated clast-supported clay-carbonate-limonite matrix breccia; with silicified hematitic angular to sub-angular HU clasts (1-20mm) and angular quartz fragments (1-25mm) in a fine-grained clay-carbonate-limonite matrix. Upper and lower contacts obscured in this broken up interval. Strong clay and carbonate replacing matrix, moderate silicification of clasts. 1% limonite in matrix and 0.5% hematite in clasts.	
		201.8 - 201.9	Replaces Matrix Strong Clay	Replaces Matrix Moderate Fe-carb	Replaces Clasts Moderate Silicification

201.9 - 202.7	HU	bxi		Zone. Polyphase breccia (at least two stages of brecciation). Containing a first stage of brecciation with a dominantly clast supported polymictic crackle (?) breccia consisting of strongly clay altered and silicified Bts? Intense alteration focused around brecciated opaque qtz vein. Unrecognizable unit contains strong hematite stockwork veining and disseminated limonite. Second phase of brecciation consists of a breccia vein at 201.97-202.16m, with coarse (up to 25mm) hematitic and clay altered angular biotite schist (?) clasts in a jasperoidal calcite quartz matrix, locally with vugg infill quartz. Breccia vein is steeply dipping to the West. Strong hematite bleeding around breccia vein. Strong clay alteration and strong Fe-carbonate alteration. 3% disseminated hematite and 2% disseminated limonite. XRF As 2262ppm at 202.10m within breccia vein. Lower contact is sharp into an underlying mafic dyke, contact steeply dipping towards West.
		201.9 - 202.7	Pervasive Strong Clay	Pervasive Strong Fe-carb
202.7 - 209.6	IV	fgrn		Weak zone. Fine-grained intermediate dyke. Strongly clay altered strong stockwork style hematite and calcite veining at 202.67-206.1m; up to 3% disseminated hematite and 1% disseminated limonite. Strongly silicified and strong stockwork calcite-chlorite veining at 206.1-207.22m. Weak FC clay and moderate leucoxene at 207.22-209.6m, 0.25% FC lim and 0.5% hm in stockwork of Fe-carb-hematite veins. Moderate effervescence throughout unit. Lower contact sharp but obscured in broken up interval.
		202.7 - 206.1	Fracture Controlled Strong Clay	
		206.1 - 207.3	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite
		207.3 - 209.6	Fracture Controlled Weak Clay	Replaces Mafics Moderate Chlorite Selective Repl Moderate Leucoxene
209.6 - 232.1	FG			Weak zone. Felsic gneiss (possibly minor BtS content), locally augen-bearing. Subordinate fine-grained mafic dyke at 212.69-212.88m. Unit is locally strongly fractured (213.74-217.69m). Patchy moderate to strong silicification, weak clay in fractures and locally lim-clay replacing feldspars, patchy moderate albite after feldspars. Strong Fe-carb/limonite veining; trending ~25 to LCA, locally stockwork. Overall 0.25% FC limonite and 0.25% FC hematite. Local interval with stronger hematite at 203.4-225.8m; 0.5% disseminated. 0.1% brassy to partly oxidized pyrite cubes/blebs. Lower contact consists of a transition into fresher rocks. XRF As 265 at 221m, 371ppm at 232m.
		209.6 - 232.1	Patchy Moderate Silicification	Patchy Moderate Albite Fracture Controlled Weak Clay
232.1 - 239.4	MxM	augn	Fol-mod	Mafic dominated mixed gneiss, locally augen-bearing. Weak to moderate silicification, weak chlorite after mafics. 0.1% FC limonite and hematite, 0.1% brassy to partly oxidized pyrite blebs/cubes.
		232.1 - 239.4	Pervasive Weak Silicification	Replaces Mafics Weak Chlorite
239.4 - 243.8	SZ	lamn	Crenul	Shear zone consisting of intervals of strongly chloritized and moderately epidote altered crenulated biotite schist, moderately to strongly crenulated. Shear zone fabric low-angle to LCA parallel. Sheared intervals show moderate effervescence. Intervening intervals of less deformed schist with weak silicification, moderate chlorite and moderate epidote. Frequent cross-cutting to low angle Fe-carb/limonite and calcite veining. 0.1% FC limonite, 0.1% diss hm. 0.1% blebby pyrite, brassy to partly oxidized/hematite stained
		239.4 - 243.8	Patchy Weak Silicification	Patchy Strong Chlorite Selective Repl Moderate Epidote
243.8 - 251.0	MxM			Mafic dominated mixed gneiss. Moderate silicification of felsic intervals, weak chlorite after mafics, weak epidote in bands, weak FC clay. Weak Fe-carb/limonite veining, local stockwork. Local weak crenulations. 0.25% FC limonite and 0.1% hematite in fractures and staining pyrite. 0.1% blebby pyrite, brassy to partly oxidized.
		243.8 - 251.0	Selective Repl Moderate Silicification	Replaces Mafics Weak Chlorite Selective Repl Weak Epidote

Drill Log: CFD0272

Easting	584637.28	Hole Length	359 m	Prospect	Supremo T4-5	Drill Started	Jul 29, 2012	Comment
Northing	6974399.73	Azimuth	275 °	Target	T4-5	Drill Completed	Aug 03, 2012	
Projection	UTM7-NAD83	Dip	-43 °	Geologist	SLavoie	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1238.45 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 3.0	OVb			
		0.0 - 17.6	Pervasive Moderate Silicification	
3.0 - 16.9	MxF	augn	Fol-mod	Broad interval of moderately clay altered gneiss (fldspr augen). Limonite locally disseminated and fracture controlled (~0.5-1%). Rare discrete zones of disseminated limonite + clay. Weak local silicification.
16.9 - 18.9	FG	augn	Fol-mod	FG with mod perv sc and weak clay in repl of feldspars. 0.5% diss lim.
		17.6 - 22.2	Pervasive Weak Silicification	Selective Repl Weak Clay
18.9 - 22.2	FG	augn	Fol-mod	Weak zone, FG with mod perv sc and weak clay in repl of feldspars. 0.5% diss lim. Some XRF values between meters are 320 ppm to 460 ppm. 30cm breccia at 19.8ft with clasts supported matrix and silicified FG clasts.
		22.2 - 32.3	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
22.2 - 32.3	FG	augn	Fol-mod	FG with mod perv sc and weak frac cont lim. 0.3% frac cont lim.
		32.3 - 37.9	Pervasive Weak Silicification	Selective Repl Moderate Clay
32.3 - 36.9	FG	augn	Fol-mod	FG with weak perv sc and mod clay altn in repl of feldspars. 0.6% diss and frac cont sulphides.
36.9 - 48.5	MxF	augn	Fol-mod	Mxf, with mod perv sc and mod chl in repl of mafic minerals.
		37.9 - 42.9	Pervasive Moderate Silicification	
		42.9 - 49.3	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
48.5 - 66.8	FG	augn	Fol-mod	Weak zone, FG with mod sc altn at 57.24ft to 61ft strong perv and frac cont clay altn, at 62ft, small breccia with strongly silicified clasts and clasts supported matrix, and 2% sooty pyrite at 63ft.
		49.3 - 55.3	Pervasive Strong Silicification	Fracture Controlled Moderate Clay
		55.3 - 57.2	Pervasive Moderate Silicification	
		57.2 - 61.1	Fracture Controlled Strong Clay	Pervasive Weak Silicification
		61.1 - 65.6	Pervasive Weak Silicification	
		65.6 - 66.6	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
		66.6 - 67.8	Pervasive Weak Silicification	Selective Repl Weak Clay
66.8 - 75.3	FG	augn	Fol-mod	Strong zone, FG with 5% sooty pyrite. From 67.80ft to 70.88ft, mod perv sericitization and no sooty pyrite. 1% small quartz veins.
		67.8 - 71.0	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
		71.0 - 75.3	Pervasive Weak Silicification	Selective Repl Weak Clay
75.3 - 79.5	FG	augn	Fol-mod	FG, fracture controlled limonite (~0.25%). Oxidation of biotite to hematite. Moderate pervasive silicification. Moderate sericite preferentially replacing felsics
		75.3 - 77.3	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
		77.3 - 79.5	Pervasive Moderate Silicification	Selective Repl Weak Clay
		79.5 - 83.0	Pervasive Moderate Silicification	Selective Repl Weak Clay
79.5 - 83.0	FG	augn	Fol-mod	Strong zone, transitional. Fracture controlled limonite (0.5%) + hematite (2-3%). Unoxidized 'windows' strong sericitic, fldspr altering to clay. Fine-grained sooty pyrite (~1-3%) disseminated throughout matrix, infilling around fldspr augen.

83.0 - 89.5	FG	augn	Fol-mod	Weak zone, oxidized. Limonite disseminated throughout (0.5-1%). Clay atleration of fldspr.		
		83.0 - 89.6	Pervasive	Weak Silicification	Selective Repl Moderate Clay	
89.5 90.2	FG	augn	Fol-mod	FG, pervasive silicification and moderate sericite alteration of felsics (defining foliation-). Hematite after biotite. Weak clay alteration of fldspr.		
		89.6 - 107.2	Pervasive	Strong Silicification		
90.2 - 107.2	FG	augn	Fol-mod	Very weak zone, variably altered. Transitional. Local strong silicification. Fracture controlled limonite (~0.25) and locally pervasive hematite (0.5-1%). Trace sooty py-pyne grained, disseminated, patchy.		
		107.2 - 123.6	Replaces Felsics	Strong Clay	Patchy Weak Silicification	
107.2 - 113.4	FG	augn	Fol-mod	Weak zone, oxidized. Limonite fracture controlled, in-vein and disseminated throughout (~2%). Strong pervasive clay alteration, moderate local silicification.		
113.4 - 119.5	FG	augn	Fol-mod	FG, limonite locally disseminated (0.5-1%). Moderately silicified-pervasive, sercite defining foliation, moderate clay alteration of fldspr.		
119.5 - 122.0	FC	fgrn		Dacite dyke, limonite disseminated throughout (~2-3%). Limonite stylolites throughout giving banded appearance. Fine-grained. Moderate clay alteration.		
122.0 - 132.0	FG	augn		Variably altered mixed gneiss. Alternating intervals of strong silicification, hematite and sericite alteration and strong sericite and clay alteration with lesser silica and fracture controlled limonite (~0.25-0.5%). From 122-122.1m- massive Mn, unconsolidated pyrolusite and limonitic clay.		
		123.6 - 133.0	Selective Repl	Moderate Sericitisation	Patchy Moderate Silicification	Replaces Felsics Moderate Clay
132.0 - 211.4	MxF	augn		Felsic-dominant mixed gneiss, augen bearing; weak clay alteration of augens. Oxides (lim, hem) locally dissemianted and fracture controlled (~0.5-1%). Rare discrete zones of dissemianted limonite + clay. Weak loca pervasive silc and seric altn		
		133.0 - 146.4	Replaces Felsics	Strong Clay	Patchy Moderate Silicification	
		146.4 - 164.0	Patchy Moderate	Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
		164.0 - 168.2	Selective Repl	Strong Clay	Patchy Moderate Silicification	
		168.2 - 174.0	Patchy Moderate	Silicification	Selective Repl Moderate Sericitisation	
		174.0 - 211.4	Patchy Moderate	Silicification	Patchy Weak Clay	Patchy Weak Sericitisation
211.4 - 214.8	MxF	band		Mixed gneiss; int perv sericite altn from 211.4-213.3m nearly obliterates fabric; mod perv seric and silc altn over interval; patchy 0-1.5% limonite (average 1% over interval); 0.25% quartz veins (~1-3cm wide, limonite selvage); 0.15% Fe-carb veinlets		
		211.4 - 214.1	Pervasive Intense	Sericitisation	Pervasive Moderate Silicification	
		214.1 - 214.8	Pervasive Moderate	Clay	Pervasive Moderate Sericitisation	Patchy Weak Silicification
214.8 225.1	MxF	augn	Fol-mod	Mixed gneiss; 0.25% diss and FC oxides (lim, hem); 0.15% quartz veins (~0.5-1cm wide), 0.15% Fe-carb veinlets; weak FC clay, perv silc & seric altn; weak chlorite (replacement of mafics in BtS regions)		
		214.8 - 225.1	Pervasive Weak	Silicification	Patchy Weak Sericitisation	Fracture Controlled Weak Clay
225.1 - 227.6	DIOR	phyr		Diorite dyke, non-mineralized; medium grained with fine grained chill-margins (~30cm wide); 0.15% cross-cutting and anastamosing carbonate veinlets; non-equigranular plagioclase phenocrysts altered by mod ser& chlorite, weak silc; matrix strong in biotite with moderate perv chlorite abd seric altn, weak perv silc altn; clear upper and lower contact with neighboring gneiss units		
		225.1 - 227.6	Replaces Mafics	Moderate Chlorite	Replaces Mafics Moderate Sericitisation	
227.6 - 247.0	MxF	augn		Weakly mineralized zone, mixed felsic gneiss; mod-highly fractured with rare local discrete limonite-clay zones- potential fault structure; average; 0.5-1.5% diss oxides (lim, patchy hem), 1% patchy sooty sulphides from 245.2-245.5m; 0.25% quartz veins (0.5-2.5cm wide)		
		227.6 - 247.0	Pervasive Moderate	Sericitisation	Pervasive Moderate Silicification	Patchy Weak Clay
247.0 - 247.7	MxF	band		Moderately mineralized zone, intensely fractured mixed gneiss, unconsolidated rubble with strong perv clay altn- probably fault zone; 2% diss oxides (lim, hem); strong perv clay, mod perv seric altn		
		247.0 - 247.7	Pervasive Strong	Clay	Patchy Moderate Sericitisation	
247.7 252.5	YC	bxv		Mod-Str zone; Silicified-clast breccia with a limonitic clay matrix; clasts are silica (dominantly no fabric discernable), fine grained, sub-well rounded, well-rotated, suspended within a moderately limonitic clay matrix; local felsic gneiss (could be larger, less deformed clasts); From 250.5-251.2: strong silicified matrix; 2-3% diss oxides (lim, hem)		
		247.7 - 252.5	Replaces Clasts	Intense Silicification	Replaces Matrix Intense Clay	Patchy Moderate Sericitisation
252.5 - 253.9	HU	mass		Hydrothermally altered, unrecognizeable protolith due to strong-intense perv clay altn, mod perv seric, 3-4% diss oxides (lim, st hem); no fabric is discernable- could be an extremely deformed gneiss or a med-grained diorite dyke		
		252.5 - 253.9	Pervasive Intense	Clay	Pervasive Moderate Sericitisation	

253.9 - 279.2	MxF	band	Fol-mod	Weak-mod zone, transitional facies; mixed gneiss with strong qsp alteration pattern (strong perv seric, silc altn) associated with disseminated pyrite in sulphide regions; patchy 0-1.5% patchy oxides (lim with weak-mod hem), 0-1.5% patchy sulphides (sooty pyrite); 0.1% Fe-carbonate veinlets with limonite selvage (cross-cutting and parallel to foliation)
		253.9 - 299.1	Pervasive Strong Sericitisation	Pervasive Strong Silicification Replaces Felsics Weak Clay
279.2 - 299.1	MxF	augn	Fol-str	Strong zone, transitional facies; mixed gneiss with strong qsp alteration patteren (strong perv seric, silc atn); 0-4% patchy oxides (lim with strong hem staining), 0-4% patchy sulphides (sooty pyrite); 0.15% quartz veins (ave 2mm-0.5cm wide); 0.1% cross-cutting limonite veinlets; local weak clay replacement of felsic augens
299.1 - 307.5	MxF	augn	Fol-mod	Mixed gneiss; mod perv silc and seric altn; trace FC limonite; 0.15% silc veins (~0.5-1cm wide)
		299.1 - 307.5	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification
307.5 - 308.5	MxF	augn	Fol-mod	Weak-moderate zone; mixed gneiss; pervasive sericite altn of felsics (defining foliation), moderate clay replacement of feldspar augens; 1.5-2% diss oxides (lim, hem); 0.2% limonite veinlets (cross-cutting and parallel-to-fol); XRF hit of 509ppm As
		307.5 - 308.5	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
308.5 - 308.6	FC	fgrn		Weak-moderate zone; Felsic dyke; fine grained, aphanitic; cross-cuts foliation; mod-st perv clay and seric altn, brecciated upper contact: local felsic gneiss clasts suspended within F matrix (angular and rotated); 2% diss oxides (lim, hem)
		308.5 - 308.6	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
308.6 - 309.3	MxF	augn	Fol-mod	Weak-moderate zone; mixed gneiss; pervasive sericite altn of felsics (defining foliation), moderate clay replacement of feldspar augens; 2-2.25% diss oxides (lim, hem)
		308.6 - 309.3	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
309.3 - 311.2	Ylim	bx		Weak-moderate zone; Limonite clay matrix with local mixed gneiss (35% of interval); Matrix is moderate-limonite stained clay; clasts are strongly silicified and sericified (gneissic fabric still visible), fine grained, sub-rounded and rotated with discrete regions of clast-supported regions; local gneiss: mod-str perv clay & seric, strong silic of augens
		309.3 - 311.2	Replaces Matrix Strong Clay	Replaces Clasts Strong Silicification Pervasive Moderate Sericitisation
311.2 - 311.7	MxF	augn	Fol-mod	Weak-moderate zone; mixed gneiss; pervasive sericite altn of felsics (defining foliation), moderate clay replacement of feldspar augens; 2-2.5% diss oxides (lim, hem)
		311.2 - 311.7	Replaces Felsics Moderate Clay	Pervasive Moderate Sericitisation
311.7 - 339.9	MxF	augn	Fol-mod	Mixed gneiss, felsic-dominant, augen-bearing; weak-moderate perv silc, seric altn of felsics, weak-mod perv chlorite and seric altn of mafics; trace FC limonite (<0.15%); 0.1% calcite and Fe-carbonate veinlets (cross-cutting)
		311.7 - 339.9	Replaces Mafics Weak Silicification	Pervasive Weak Sericitisation Pervasive Weak Chlorite
339.9 - 345.3	MxF	augn		Mixed gneiss, fels-dominant, augen-bearing; patchy oxide and sulphide windows; oxidation ranges from 0.25-1% lim+hem; sooty sulphides associated with qsp alteration, range from 0-1% (sooty pyrite); moderate perv silc and seric, local weak clay replacement of feldspar augens. Both oxides and sulphides intensify at end of interval from 344.11-345.25m
		339.9 - 344.1	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Replaces Felsics Weak Clay
		344.1 - 345.3	Pervasive Strong Sericitisation	Pervasive Strong Silicification
345.3 - 346.2	FC	fgrn		Mod-strong zone; dacite dyke; fine grained, aphanitic; oxidized with sulphide windows (XRF hit of >5000ppm As in a sulphide window); moderate perv seric and clay altn; 0.25% calcite veins (1mm-2cm wide), 0.25% limonite veinlets and sooty sulphide veinlets; 0-4% oxides (lim+ strong hem); 0-4% sooty pyrite
		345.3 - 346.2	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
346.2 - 347.9	MxF	band		Weakly mineralized mixed gneiss; augen bearing, felsic dominant; oxide and sulphide windows, most intense at beginning of interval (in contact with dacite dyke); oxide windows range from 1-3.5% with weak clay replacement of felsic augens, perv seric altn, sulphide windows exhibit moderate perv seric, weak silica altn and range from 0.5-2.5% diss sooty pyrite
		346.2 - 347.9	Pervasive Moderate Sericitisation	Patchy Weak Silicification Replaces Felsics Weak Clay
347.9 - 350.5	MxF	augn		Mixed gneiss, felsic-dominant, augen-bearing; weak-moderate perv silc, seric altn of felsics, weak-mod perv chlorite and seric altn of mafics
		347.9 - 350.5	Pervasive Weak Silicification	Pervasive Weak Sericitisation Replaces Mafics Weak Chlorite
350.5 - 352.3	MxF	augn		Moderate zone; mixed felsic gneiss; dominantly oxides facies with discrete sulphide patches associated with mod-strong qsp alteration pattern; 2-3% diss oxides (lim,hem), 0-1% patchy sooty pyrite; weak FC clay altn
		350.5 - 352.3	Pervasive Strong Sericitisation	Pervasive Strong Silicification Fracture Controlled Weak Clay
352.3 - 353.2	MxF	band		Mod-Strong zone; mixed gneiss with discrete patches of intense perv clay alteration causing imm brecciation of the gneiss; 3-4% diss oxides (lim, str hem); strong alteration of felsic clastss by silica, mod perv seric altn
		352.3 - 353.2	Patchy Intense Clay	REPLACES Felsics Strong Silicification Pervasive Moderate Sericitisation

353.2 - 359.0	MxF	augn	Mixed gneiss, felsic-dominant, augen-bearing; weak-moderate perv silc, seric altn of felsics, FC clay, weak perv chlorite and seric altn of mafics; trace FC limonite		
353.2 - 359.0		Pervasive Weak Silicification	Pervasive Weak Sericitisation	Pervasive Weak Chlorite	

Drill Log: CFD0273

Easting	585277.99	Hole Length	458 m	Prospect	Double Double	Drill Started	Jul 29, 2012	Comment
Northing	6973399.09	Azimuth	184 °	Target	DOU032	Drill Completed	Aug 04, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist	PJohansson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1102.83 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 14.9	MxM	lamn		Mafic dominated mixed gneiss (minor felsic component). Weak chlorite after mafics and weak patchy silicification down to 12.95m. Strong patchy chlorite and strong patchy clay From 12.95-14.9m in broken up interval (poor recovery at 13-14m), that shows local shear structures. 0.1% FC limonite and 0.1% brassy pyrite.
		6.0 - 13.0	Patchy Weak Silicification	Replaces Mafics Weak Chlorite
		13.0 - 14.9	Patchy Strong Chlorite	Fracture Controlled Strong Clay
14.9 - 20.3	BtS			Variably altered biotite schist. Strongly fractured and broken up unit with local visible shear structures (moderate crenulations). Unit is moderately to strongly chloritized, moderately clay altered and locally strongly silicified in a vuggy interval (overprinted by later clay alteration?) at 14.9-15.45m. Moderate chlorite after mafics and strong patchy clay at 15.45-20.27m. Strong Fe-carb/limonite veining, locally stockwork through crackle brecciated opaque quartz veins. Overall 0.5% patchy limonite (in vein), locally 1% disseminated in oxidized interval at 15.45-16.30.
		14.9 - 20.3	Replaces Mafics Moderate Chlorite	Patchy Strong Clay
20.3 - 30.8	MxM	lamn		Mafic dominated mixed gneiss. Moderately to locally strongly (21.43-22.2m) fractured. Moderate chlorite alteration of mafics, moderate pervasive epidote in foliation parallel bands, strong silica alteration in felsic intervals (bleached), weak leucoxene. 0.1% FC limonite. Lower contacts transitions into a heavily altered unit, with increasing limonite to 0.25% in fractures and weak lim-clay replacing feldspars from 29.80-30.77m. XRF As 374ppm at 30m.
		20.3 - 29.8	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Epidote
		29.8 - 30.8	Replaces Mafics Moderate Chlorite	Selective Repl Strong Silicification
			Replaces Felsics Weak Clay	Selective Repl Moderate Epidote
30.8 - 33.5	HU	silc		Zone. Intensely silica silca-sericite altered, and strongly chloritized unrecognizable unit (possibly highly altered and deformed BtS). Limonitic at 30.77-31.1m (3% disseminated) in a texture-less interval with offset irregular opaque quartz veins (breccia clasts?, up to 90mm across). Unit is strongly deformed at 31.1- 33.3m, with local low angle (close to LCA parallel) shear fabric. Polyphase brecciation along a locally vuggy (vugg infill) low angle calcite vein (10 parallel to LCA), and a series of low-angle calcitic opaque quartz veins locally with rims of sulphide veins. Breccia clasts consists of: i) chloritized to sericitized foliated sub-angular to angular clasts (BtS?), locally silicified and locally moderately lim-clay altered, up to 60 mm across: ii) angular brecciated (Fe-carb/lim veining) calcitic quartz vein clasts 2-70mm across (large clasts are more intact relict veins); iii) sub-angular strongly silicified HU clasts 2-30mm across, locally limonitic. Breccia is clasts-supported with a variable quartz-carbonate-limonite matrix. Strong low-angle sericite veining at 32.8-33.2m. 0.5% FC limonite and 0.25% disseminated hematite at 31.1-33.5m, 0.25% sooty pyrite in veinlets. XRF As 229 at 32m. Lower contact transitions out of sericite alteration.
		30.8 - 31.1	Pervasive Intense Silicification	
		31.1 - 33.5	Patchy Intense Silicification	Selective Repl Strong Sericitation
				Replaces Mafics Strong Chlorite
33.5 - 36.0	BtS			Zone. Biotite schist. Strongly silicified and weakly clay altered. Local strong clay in broken up interval at 55.65-55.7m (possibly brecciated). Unit is weakly limonitic (0.5% disseminated and lim-clay replacing feldspars), 0.25% FC hm, and contains a short interval with 2% disseminated sooty pyrite at 34.3-34.65m (XRF As spot check 1752ppm at 35.56m). Frequent low-angle to cross-cutting Fe-carb/limonite veining. Lower contact consists of a decrease in sulphide content into a fresher BtS unit.
		33.5 - 36.0	Patchy Strong Silicification	Fracture Controlled Weak Clay
				Vein Selvege Moderate Fe-carb
36.0 - 37.7	BtS		Fol-mod	Biotite schist. Moderate chlorite after mafics, moderate epidote, moderate perv silicification and weak leucoxene. 0.1% FC lim and hm, 0.1% blebby pyrite.
		36.0 - 37.7	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
				Selective Repl Moderate Epidote

37.7 - 40.1	HU	silc		Zone. Strongly to intensely silicified and moderately clay altered, locally strongly sericitized (39.05-39.5m, intense silicification) unrecognizable unit (possibly partly BtS - weak foliation locally visible), partly oxidized. Strongly hematitic and limonitic (3% disseminated hematite, 3% disseminated hematite). Local 1% disseminated sooty pyrite in unoxidized windows at 39.05-39.5m. Variably brecciated from 37.9-40.1. 37.9-39m: Angular quartz vein clasts (2-50mm across) and sub-angular to sub-rounded strongly silicified and moderately clay altered altered limonitic-hematitic HU clasts (1-35mm across), in a silica-limonite-clay matrix. Strong stockwork of hematitic to Fe-carb/limonite stringers and veinlets. 39-39.5m: Intense silicification has overprinted earlier stage brecciation; possibly crackle brecciated - strong relict stockwork veining visible defining brecciation, locally sooty pyrite in matrix/veins. Lower contact gradual into underlying foliated unit. XRF As ranges 480-1031ppm at meter marks.		
		37.7 - 39.0	Pervasive Strong Silicification	Selective Repl Moderate Clay		
		39.0 - 39.5	Pervasive Intense Silicification	Selective Repl Strong Sericitisation		
		39.5 - 40.1	Pervasive Strong Silicification	Selective Repl Weak Clay		
40.1 - 41.2	BtS	silc	Fol-wk	Transitional zone. Biotite schist, transitioning out of oxidation. Moderate silicification and weak clay alteration of feldspars. 0.5% disseminated limonite (clay-lim replacing feldspars), 0.1% diss hm (staining pyrite cubes). Moderate Fe-carb/lim-hm veining, cross-cutting to weak stockwork.		
		40.1 - 41.2	Pervasive Moderate Silicification	Selective Repl Weak Clay		
41.2 - 52.9	MxM			Mafic dominated mixed gneiss (minor felsic component). Weak pervasive silicification, moderate chlorite after mafics, weak epidote in foliation parallel bands and weak leucoxene. Local vuggy texture. 0.1% limonite in fractures and in weak multi-directional Fe-carb-limonite veining. 0.1% blebby pyrite.		
		41.2 - 52.9	Pervasive Weak Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Epidote	
52.9 - 55.4	BtS	silc		Strong zone. Strongly silicified biotite schist, silicification partly overprinted by moderate pervasive clay alteration. Strongly hematitic (6% disseminated) and 2% disseminated limonite. Unit is strongly fractured at 53.3-53.45m. Unit is crackle brecciated at 54.56-55.38m with a stockwork of hematite veins defining brecciation and offsetting quartz veins. This interval also contains two breccia veins 54.76-54.79m (non-planar, roughly 40-50 to LCA), possibly earlier stage) and 54.86-55.12m (15 to LCA): silica-clay-hematite altered angular to sub-angular brecciated clasts (2-30mm across) in a silica-carbonate-limonite matrix. Strong hematite veining parallel to breccia vein. Lower contact is sharp out of oxidation. XRF As: 2948ppm at 53m, 1.57% at 54m, 7893ppm at 55m.		
		52.9 - 55.4	Patchy Strong Silicification	Pervasive Moderate Clay	Moderate	
55.4 - 65.0	MxM		Fol-mod	Mafic dominated mixed gneiss. Moderate silicification of felsic intervals, moderate chlorite after mafics, weak epidote in foliation parallel bands, weak leucoxene. 0.1% in fractures and in weak multi-directional Fe-carb/limonite veining. Moderate calcite veining, locally stockwork defining weak crackle brecciation. 0.1% blebby pyrite.		
		55.4 - 71.4	Selective Repl Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Weak Epidote	
65.0 - 71.3	BtS			Strongly foliated bts. Weakly chloritized. Patchy epidote tracing foliation. Locally silicified. Disseminated carbonate throughout. Disseminated leucoxene. Trace euhedral py- disseminated. Wk limonite+clay stockwork from 68.5-69m		
71.3 - 71.7	FG	silc		Strongly silicified felsic? Interval. Limonite disseminated throughout (~0.5%). Weak remnant foliation.		
		71.4 - 71.7	Pervasive Intense Silicification			
71.7 - 73.6	BtS			Weakly siliceous/ chloritic Bts. Strongly foliated with rare limonite+clay veins. Calcareous.		
		71.7 - 73.6	Patchy Moderate Silicification	Selective Repl Moderate Sericitisation	Selective Repl Weak Chlorite	
73.6 - 74.8	BtS			Limonite weakly disseminated throughout (~1%). Moderately silicified. Clay alteration of feldspr. White mica overgrowing foliation.		
		73.6 - 76.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Selective Repl Weak Chlorite	
74.8 - 78.9	MxM			Variably altered bts. Locally silicified. Weakly chloritic.		
		76.0 - 77.8	Replaces Mafics Weak Chlorite	Selective Repl Weak Leucoxene		
		77.8 - 80.5	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation	
78.9 - 82.5	MxM	augn		Weak zone. Limonite disseminated and in vein (~1%). Moderately silicified with clay alteration of feldspr augen. Frequent clay+ limonite veining ~45 deg to core axis.		
		80.5 - 87.4	Pervasive Strong Clay	Selective Repl Moderate Sericitisation	Patchy Weak Silicification	
82.5 - 83.0	MxM	augn		Weak zone. Strongly altered MxM (clay+ser+sil)- cross-cut by limonite veins brecciating host rock. Angular fragments ~5-15mm in size suspended within a clay+limonite matrix (~2%).		
83.0 - 87.4	MxM			Strongly altered gneiss- possibly Bts. Foliated. Bleached-pervasive clay+silica alteration. Limonite veining throughout (~0.5%). Majoritly cross-cut 45 deg to core axis.		

87.4 - 91.2	MxM			Variously altered mixed gneiss. Mafic-dominated (bts). Strong local silicification. Weak chloritization of mafics. Fracture controlled limonite/ in -vein (~0.25-0.5%).
87.4 - 91.2		Patchy Strong Silicification	Selective Repl Moderate Clay	Selective Repl Moderate Sericitisation
91.2 - 95.2	MxM	silc		Weak zone. Strongly silicified-pervasive. Matrix replaced by clay+limonite and late silicification? Crackle textures. Local limonite+clay veins brecciating host rock. 94.15-94.2m.
91.2 - 95.2		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Selective Repl Moderate Clay
95.2 - 123.0	BtS	augn		Strongly foliated bts with rare fldspr augen. More felsic interval preferentially silicified. Mafic schistose intervals strongly calcareous. Weak chlorite alteration of mafics. Weak limonite -fracture controlled (<0.25%). Mafic intervals include moderate patches of epidote and moderate sericite.
95.2 - 123.0		Selective Repl Moderate Sericitisation	Patchy Moderate Silicification	Selective Repl Weak Chlorite
123.0 - 131.2	MxF	augn		Moderately to strongly silicified felsic gneiss. Mafic (BtS) lenses less silicified and pervasively carbonated. .5% fg hematite through felsic areas after fine pyrite cubes, domains of coarse silica replaced feldspar augens (up to 1cm). Some pitting after removal of white clay replaced and unsilicified feldspar domains. I .25% fracture controlled limonite.
123.0 - 131.2		Patchy Moderate Silicification	Replaces Felsics Moderate Clay	Selective Repl Moderate Sericitisation
131.2 - 150.6	BtS			Moderately foliated bts. Strong patches of epidote and thin intervals (<40 cm) of strongly silicified felsic gneiss with coarse feldspar augens. Moderate pervasive chloritization of mafics. Thin patches of fine grained amphibolite up to 20cm within unit. Strong clay replacement in thin fault zones with near complete breakdown of host. Feldspars through BtS can be variably clay replaced.
131.2 - 150.6		Patchy Strong Clay	Replaces Mafics Moderate Chlorite	Patchy Strong Epidote
150.6 - 165.4	BtS		Fol-mod	Moderately foliated bts with weak clay replacement of feldspars. Weak fracture controlled limonite and weak patches of carbonation. Weak epidote in patches.
150.6 - 165.4		Replaces Felsics Weak Clay	Patchy Moderate Silicification	Patchy Weak Epidote
165.4 - 171.4	MxM			Strongly fractured MxM, strong clay replacement along fractures leading to disaggregation (fault gouge). Moderate patches of epidote and chlorite in mafic areas. .5% fracture controlled limonite in patches and .1% rusty hematite along some fractures.
165.4 - 171.4		Patchy Strong Clay	Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote
171.4 - 186.6	BtS	augn		Moderate pervasive silicification of bts. Weak clay replacement of feldspars, minor carbonation, patches of moderate to strong silicification. Areas of weak dissemination of limonite, sourcing off of fractures, .25%.
171.4 - 186.6		Pervasive Moderate Silicification	Replaces Felsics Weak Clay	Replaces Mafics Moderate Chlorite
186.6 - 194.5	MxM	augn		Variously coarse atz-feldspar augens within pervasively silicified bts. Strong sericite/muscovite component to unit, and .5% fracture controlled limonite and weak clay along fractures. Moderate sericitization. Trace blebby and brassy py through unit.
186.6 - 194.5		Pervasive Moderate Silicification	Fracture Controlled Weak Clay	Selective Repl Moderate Sericitisation
194.5 - 204.4	MxF	augn		Strongly silicified dominantly felsic gneissic package. Fractures with moderate replacement of feldspars to white clay. Coarse muscovite along foliation and qtz veining with selvage carbonate both parallel to and crosscutting foliation. Bts slips are moderately pervasively chloritized, with weak epidote. .5% hematite after fine grained py through felsic component.
194.5 - 204.4		Patchy Strong Silicification	Fracture Controlled Moderate Clay	Selective Repl Moderate Sericitisation
204.4 - 251.3	MxM	silc		Strongly silicified mixed gneiss, mafic dominated (bts) but with strong silica component. Thin (20cm) patches of high strain muscovite RQM near top of unit. Less silicified portions of bts are moderately chloritized, contain patches of strong epidote, and are pervasively carbonated. Small lenses of fine grained amphibolite within bts unit. Moderate sericite throughout and .25% fine grained metamorphic brassy py, coarsening in areas of less strain.
204.4 - 251.3		Patchy Strong Silicification	Patchy Moderate Epidote	Replaces Mafics Moderate Chlorite
251.3 - 251.7	BtS			Strong sericite and clay halo surrounding polyphase 10cm thick carbonate vein. Vein contains at least 3 phases of carbonate in coxcomb morphology, with a qtz-carbonate initial stage followed by a pink-tinted calcite, which then contains a thin (.2mm) deposited layer/overgrowth of sooty py (As = XXXX). Finally the unit contains coarse clear calcite growing within the cavity.
251.3 - 251.7		Selective Repl Strong Sericitisation	Selective Repl Strong Clay	Selective Repl Strong Calcite

251.7 - 265.6	MxM			Strongly carbonated and moderately chloritic bts, with strong silicification of felsics containing .5cm feldspar augens. Moderate sericitisation throughout the unit. .25% fracture controlled limonite, and small patch of pervasive oxidation at bottom of unit.	
		251.7 - 265.6	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation
265.6 - 272.4	FG			Weak zone. Unit begins with a weakly developed 20cm Ylim with a clay limonite matrix,1% disseminated limonite throughout. Moderate pervasive silicification and strong fracturing of whole unit, with 1% limonite disseminated throughout fabric, and .5% hematite along fractures. Coarse muscovite along foliation.	
		265.6 - 272.4	Selective Repl Moderate Clay	Pervasive Moderate Silicification	
272.4 - 276.3	FG			Moderately silicified felsic gneiss with .5cm feldspar augens and up to .75% limonite and .25% hematite along fractures. Moderate fracture controlled clay along fractures.	
		272.4 - 276.3	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification	
276.3 - 281.9	FG			Weak zone. Heavily fractured felsic gneiss which is moderately silicified. Moderate patchy clay alteration in areas of increasing limonite and hematite. 1% disseminated limonite and fracture controlled hematite up to .75%. Moderate albitization and clay alteration of feldspars	
		276.3 - 281.9	Selective Repl Moderate Albite	Patchy Moderate Clay	Pervasive Moderate Silicification
281.9 - 287.0	MxF			Felsic gneiss with moderate clay replacement of feldspars. Parts moderately to strongly fractured, with increasing oxidation leading up to a peak of .75% limonite disseminated through the foliation of the unit beginning at approx. 284.5m. Moderate fracture controlled clay, , moderate silicification, and weak sericite.	
		281.9 - 287.0	Selective Repl Weak Sericitisation	Replaces Felsics Moderate Clay	Patchy Moderate Silicification
287.0 - 291.1	MxF			Interval of moderately silicified felsic gneiss, .25% fine disseminated hematite after pyrite through foliation, .25% fracture controlled limonite, and coarse feldspar augens.	
		287.0 - 291.1	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation	
291.1 - 293.3	FG			Shoulder to zone of felsic gneiss with .5% disseminated limonite as clay replacement of feldspars within unit. Small brecciated patches up to 3cm with clay-silica matrix. Unit ends in 20cm milky quartz vein. Small fractures run through the unit parallel to core axis. 1% disseminated limonite throughout. Up to 1mm brassy py cubes which display oxidized rims, and finer py is oxidized to hematite.	
		291.1 - 293.3	Pervasive Moderate Silicification	Replaces Felsics Weak Clay	
293.3 - 296.9	FG			Zone. Local brecciation of felsic gneiss along foliation up to 4cm wide with deep orange limonite matrix, situated within strongly sulphidized gneiss with 1% sooty pyrite along foliation. Patchy oxidation with blood-red hematite and deep orange limonite alternating with unoxidized patches of sooty pyrite. Moderate clay along fractures, however unit is largely competent. Single fracture with moderate clay within unit at 295.20m, however the majority of fractures contain clay with sooty or oxidized sulphides. As = 3.55% at 295m within unoxidized and completely sulphidized patch. 1% patchy hematite and limonite.	
		293.3 - 296.9	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay	
296.9 - 301.8	FG			Shoulder to zone, with strong sericite and silicification of augen-bearing felsic gneiss. QSP altered at top of unit, and patchily oxidized with patch of .75% limonite and hematite from 299.30-299.87m.	
		296.9 - 301.8	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
301.8 - 307.3	FG			Felsic gneiss with .75% disseminated limonite thoughout. Fractured, with areas of increasing hematite content along some fractures. Limonitic areas do not run As on XRF, some fractures with hematite run just under 200ppm. Moderately silicified throughout with weak clay alteration of feldspars through gneiss.	
		301.8 - 307.3	Pervasive Moderate Silicification	Replaces Felsics Weak Clay	
307.3 - 309.6	FG		Fol-mod	Felsic gneiss, weak fracture controlled limonite (.25%) and moderate pervasive silicification. Rare deep red hematite along some fractures, however very minor (.1%).	
		307.3 - 309.6	Pervasive Moderate Silicification	Selective Repl Weak Sericitisation	
309.6 - 312.7	FG			Weak zone through felsic gneiss. 1% disseminated orange limonite in strongly silicified felsic gneiss. Patches of deep red hematite also disseminated through foliation (1%) run up to 996ppm As under XRF analysis. Moderate fracture controlled white/light orange clay in broken down areas of core.	
		309.6 - 312.7	Fracture Controlled Moderate Clay	Pervasive Moderate Silicification	
312.7 - 318.6	MxF			Moderately silicified felsic gneiss with thin slips of strongly decomposed biotite schist. Bts slips are up to 20cm in thickness and strongly chloritized and clay altered, and strongly broken down in contrast to silicified gneiss. Weak sericite through felsics, and .25% fracture controlled limonite.	
		312.7 - 318.6	Pervasive Moderate Silicification	Replaces Mafics Strong Clay	Replaces Mafics Strong Chlorite
318.6 - 326.7	FG			Weak zone. Felsic gneiss with weak silicification and moderate clay-lim replacement of feldspars. Oxidized, with .75% disseminated limonite and small patches of .25% disseminated blood red hematite which runs As. Weak clay along some fractures, upto 10cm milky qtz veins running along foliation and also steeply and irregularly crosscutting at approx 40 degrees TCA.	
		318.6 - 326.7	Pervasive Weak Silicification	Replaces Felsics Moderate Clay	Fracture Controlled Weak Clay

326.7 - 329.3	FG		Beginnings of zone. Heavily fractured felsic gneiss with coarse muscovite and weak clay at very start of unit, with patchy veinlets and stringers of deep red hematite which runs up to 2400 ppm As under XRF analysis. From 327.4-328.17m is a massive milky qtz vein, contacts too fractured to acquire orientation. Small fractures within vein are limonitic. Patchy strong silicification through gneiss and moderate clay replacement of feldspars. .75% disseminated limonite, and .75% patchy hematite.		
329.3 - 336.4	FG	326.7 - 329.3	Patchy Strong Silicification	Replaces Felsics Moderate Clay	
			Zone. Sulphidized felsic gneiss which has been strongly silicified and contains weak sericite. 1.5% disseminated sooty pyrite which patchily oxidizes to a deep red coloured hematite which appears to be bleeding in off of fracture planes. Small en echelon veinlets of sooty pyrite also present. Weak white clay replacement of feldspars.		
		329.3 - 336.4	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation	Replaces Felsics Weak Clay
336.4 - 342.8	FG		Strongly silicified and sericitised felsic gneiss with patches up to levels of HU alteration. Beginning of unit is patchily oxidized and slightly broken down with coarse muscovite along fracture surfaces. Thin chlorite veinlets run parallel to core axis. Weak to moderate clay replaces feldspars through gneiss.		
		336.4 - 342.8	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	Selective Repl Weak Chlorite
342.8 - 344.2	FG		Zone. Sooty sulphide disseminated through felsic gneiss, with oxidation weakly bleeding in through fractures. 1% disseminated sooty pyrite, weak clay alteration of feldspars, strong silicification pervasive.		
344.2 - 351.6	MxF	342.8 - 344.2	Pervasive Strong Silicification	Replaces Felsics Weak Clay	Selective Repl Weak Sericitisation
			Mixed felsic gneiss with patchy clay/albite +limonite replacement of feldspars and patchy moderate sericite and silica alteration. Oxidized areas reach peak of .75% limonite along fracture surfaces, but .5% disseminated at max. Patches can approach strong sericite. More mafic areas contain .25% purplish hematite along foliation.		
		344.2 - 351.6	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Selective Repl Moderate Albite
351.6 - 360.4	FG		Oxidized felsic gneiss with thin (no greater than 10cm) foliation parallel milky quartz veins. Moderate fracture controlled clay and moderate albite replacement of feldspars. Common cubic py which is strongly oxidizing to hematite but retains visible cubic form. Moderate patchy silicification		
		351.6 - 360.4	Patchy Moderate Silicification	Fracture Controlled Moderate Clay	
360.4 - 380.6	MxF		Mixed felsic gneiss. Alternating patches of strongly silicified and sericitised gneiss with moderately oxidized felsic gneiss. Moderate clay replacement of feldspars and weak fracture controlled clay. Strongly altered, however small 1m slips of fine grained bts with weakly developed schistose texture also present where strong sericitisation and silicification, or oxidation, abruptly ends.		
380.6 - 389.8	FG	360.4 - 380.6	Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Moderate Albite
		augn	Oxidized felsic gneiss with patches of strong silicification which wipe out foliation (areas less than 20cm). Peak of 1% disseminated limonite and .5% disseminated hematite. Moderate clay/albite replacement of feldspars at lower portion of unit.		
		380.6 - 389.8	Patchy Strong Silicification	Replaces Felsics Moderate Clay	
389.8 - 393.2	HU		Onset of intense fluid-rock interaction. Very common (1%) fine 1mm cubic py throughout which is oxidizing to limonite and hematite. Strong silicification and moderate pervasive clay throughout unit. .5-.75% fine sooty py both oxidized and unoxidized in small patches.		
		389.8 - 393.2	Pervasive Strong Silicification	Pervasive Moderate Clay	
393.2 - 398.3	HU	Fol-wk	Intense silicification and sericitisation of host, completely destroying previous fabric. Development of weak brecciation in some patches. Moderate to strong white clay in broken down areas, and coarse (up to 3mm) pyrite growing along fluid pathways. Sooty pyrite (1%) disseminated throughout and concentrated in patches, also thin veinlets which dominantly run parallel to core axis. High concentration of brassy py (1.5%). Unit marks transition to sulphide facies oxidation.		
		393.2 - 398.3	Pervasive Intense Silicification	Pervasive Intense Sericitisation	Fracture Controlled Moderate Clay
398.3 - 406.2	YC	bx	Silicified clast breccia. Polyphase with variably competency: patches through unit contain strong clay/sericite matrix which is less competent, while other patches of breccia are completely silicified, clasts and matrix. Intense sericite, silica, 1% brassy py in small blebs (1mm) which are generally found in small aligned clusters in fractures. Host is silicified, brecciated, healed, and re-brecciated with a matrix which can be silica-clay or clay-only. Sooty pyrite occurs as veinlets and through clay regions, as well as in grey-blue silicified patches in healed areas of the unit (total 1%). Brassy and blebby py regions run As under XRF analysis, unclear if it is the py itself or superfine sooty py in close association which runs.		
		398.3 - 406.2	Replaces Clasts Intense Silicification	Replaces Matrix Strong Silicification	Fracture Controlled Strong Clay

406.2 - 407.2	HU			Completely disaggregated unit. Intense silica, sericite, clay alteration. Continuation of YC unit however with stronger clay component causing near complete destruction. 1.5% sooty py disseminated throughout.	
		406.2 - 407.2	Pervasive Intense Silicification	Pervasive Intense Sericitisation	Fracture Controlled Intense Clay
407.2 - 410.4	YC	bx		Strongly fractured YC. Strong silica, sericite, moderate clay along fractured areas forming matrix for silicified clasts of host. Thin veinlets and matrix infill of sooty py in areas, .75%.	
		407.2 - 410.4	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	Fracture Controlled Moderate Clay
410.4 - 412.6	HU			Completely disaggregated unit. Intense silica, sericite, strong clay. Patches of .5% sooty sulphide which appears to be fracture controlled and associated with clay.	
		410.4 - 412.6	Pervasive Intense Silicification	Pervasive Intense Sericitisation	Fracture Controlled Strong Clay
412.6 - 417.2	HU			Strong zone. Pervasively sulphidized unit. Patches of up to 2.5% disseminated sooty sulphide, relict foliation weakly visible but protolith unknown. Patches of strong silicification, moderately silicified throughout. Strong sericite, small patches of weakly developed breccia with silica-clay matrix.	
		412.6 - 417.2	Patchy Strong Silicification	Selective Repl Strong Sericitisation	Replaces Matrix Weak Clay
417.2 - 418.0	YS	bx		Strong zone. Weakly developed sulphide-matrix breccia, with 2.5% sooty py through matrix of silicified unit. Fracture controlled deep red hematite which weakly eats out of fractures into unit (max 2mm of bleeding). Clast supported.	
		417.2 - 418.0	Pervasive Strong Silicification	Fracture Controlled Weak Clay	
418.0 - 420.1	HU			Strong zone. Sulphidized host with disseminated sooty py (2.5%) through lower half of unit. Strong silicification of upper portion until 419.26m, where silica lowers and sulphidation increases to its max. Moderate sericite and weak fracture controlled clay.	
		418.0 - 420.1	Patchy Strong Silicification	Selective Repl Moderate Sericitisation	Fracture Controlled Weak Clay
420.1 - 422.8	BtS			Unit shows relict schistose texture, however is strongly silicified and strongly sericitised. Carbonate veinlets running subparallel to core axis, and thin patches of complete sulphide replacement with (no larger than 10cm) which run up to 1% As under XRF analysis.	
		420.1 - 422.8	Selective Repl Strong Sericitisation	Pervasive Strong Silicification	Selective Repl Moderate Calcite
422.8 - 441.8	MxF		Fol-mod	Mixed felsic gneiss, continuation of previous zone and alteration: strong pervasive silicification and sericite. Patches of concentrated sooty pyrite seem to completely replace more mafic (ex. bts) bands through the felsic dominated package. Felsic areas range from moderately foliated with weak white clay alteration of feldspar augens to strongly silicified with destruction of previous textures. Fine sooty py also disseminated through felsics. Note that spot XRF analysis on sulphide-replaced bts bands produces results of approx. 2000ppm As. Local intervals of immature YC, clast supported, and a 30cm interval of silicified clasts with silica-calcite (Mg-carbonate?) matrix with large vugs.	
		422.8 - 441.8	Pervasive Strong Silicification	Selective Repl Strong Sericitisation	
441.8 - 458.0	MxF		Fol-mod	Mixed felsic gneiss, moderate pervasive silicification and moderate sericite, increase in white clay alteration of feldspars to moderate. Sooty py veinlets present (.5%) and associated with moderate white clay along fractures. Chlorite veinlets common, silicification through felsics increases to strong at end of hole. 1% brassy py along foliation. Local immature brecciation through felsics with weak sooty py through matrix (.1% total).	
		441.8 - 458.0	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation	Selective Repl Moderate Clay

Drill Log: CFD0274

Easting	584630.94	Hole Length	207.9 m	Prospect	Supremo T4-5	Drill Started	Aug 03, 2012	Comment	
Northing	6974352.31	Azimuth	272 °	Target	T5	Drill Completed	Aug 05, 2012		Undercut of RC fence 6974350N
Projection	UTM7-NAD83	Dip	-50 °	Geologist	HGrimson	Core Size	NQ2		Abandoned: rods stuck in clay. 6 rods left in hole.
Survey method	RTK GPS	Elevation	1241.83 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVB			
6.0 - 8.9	MxF			Weak-mod zone; mixed gneiss; moderate clay altn (pervasive and replacement of felsic augens) with narrow patches of strong perv clay altn , mod perv seric altn; 2% diss lim, 1% diss and FC hem
		6.0 - 8.9	Patchy Strong Clay	Pervasive Moderate Sericitisation
8.9 - 27.0	MxF	band	Fol-str	Mixed gneiss, felsic dominant; Moderate perv clay after biotite in BtS regions; mod perv seric, mod patchy silc (in felsic regions); 0.25% FC lim+hem
		8.9 - 27.0	Replaces Mafics Moderate Clay	Replaces Felsics Moderate Pervasive Moderate Sericitisation Silicification
27.0 - 28.1	FC	fgrn		Moderate zone; felsic-intermediate mineralized dyke with local mixed gneiss (irregular contact and inclusions); mod perv clay and seric altn of both dacite and gneissic components; discrete region of intense perv clay altn from 27.57-25.77m (unconsolidated, resembles ylim); 2.5% diss oxides (lim+ weak hem)
		27.0 - 30.5	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
28.1 - 29.2	MxF	augn		Weakly mineralized mixed gneiss; weak-mod perv seric and clay altn; 1.5-2% diss oxides (lim+weak hem)
29.2 - 30.5	FC	fgrn		Weakly mineralized felsic-intermediate dyke; 2 apparent oxidation fronts- first oxidation by limonite, later by hematite (fracture controlled, overprinting limonite); fine grained with fluid banding; moderate perv clay and seric altn; 2-3% diss lim, hem; brecciated lower cotnact with gniess
30.5 - 42.5	MxF	augn		Weak zone; mixed gneiss; mod seric altn (perv + defining foliation after biotite), weak-mod perv clay altn (dominantly replacement of biotite in BtS regions, replacement of felsic augens; FC); average 0.75-1.5% diss oxides
		30.5 - 42.5	Pervasive Moderate Clay	Pervasive Weak Clay
42.5 - 98.4	MxF	augn		Mixed gneiss, fresh; weak perv silc, seric altn; 0.15% FC lim often associated with very weak FC clay
		42.5 - 98.4	Pervasive Weak Silicification	Pervasive Weak Sericitisation Fracture Controlled Weak Clay
98.4 - 101.2	MxF	augn		Mixed gneiss, weakly mineralized; moderate perv seric and clay altn; 0.5% buck quartz veins (~0.5-4cm wide, cross-cutting and parallel to foliation); 1.5% diss oxides (lim+hem)
		98.4 - 101.2	Pervasive Moderate Sericitisation	Pervasive Moderate Clay
101.2 - 121.6	MxF	augn	Fol-str	Mixed gneiss, felsic dominant; weak perv silc, seric altn; 0.25% FC lim+hem) often associated with very weak FC clay; 0.25% cross-cutting quartz veins
		101.2 - 121.6	Pervasive Weak Silicification	Pervasive Weak Sericitisation Fracture Controlled Weak Clay
121.6 - 129.4	MxF	augn	Fol-str	Mixed felsic gneiss; moderate patchy silc, mod patchy clay (alteration of feldspar augens); mod perv silc altn; 0.75% patchy and FC oxides (lim+weak hem); 0.15% anastamosing limonite veinlets
		121.6 - 129.4	Patchy Moderate Silicification	Pervasive Moderate Sericitisation Replaces Felsics Moderate Clay
129.4 - 144.6	MxF	augn		Weak-mod zone, mixed gneiss, oxides facies; local strong FC clay altn, mod-str seric altn (perv, defining foliation), weak patchy silc altn; 2-3% diss oxides (lim+hem); 0.25% cross-cutting limonite veinlets, 0.25% parallel-to-fol qtz veins
		129.4 - 144.6	Fracture Controlled Strong Clay	Pervasive Moderate Sericitisation Pervasive Weak Silicification
144.6 - 148.5	MxF	augn	Fol-str	Weakly mineralized mixed gneiss; weak-mod perv seric and clay (replaces felsic augens, FC) altn; 1.5-2% diss oxides (lim+weak hem); 0.15% quartz-veins (parallel to fol)
		144.6 - 148.5	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
148.5 - 184.0	MxF	augn	Fol-str	Mixed felsic gneiss; mod perv silc, weak perv seric; 0.5-1% FC limonite, 0.15% patchy hem, 0.15% brassy& dissem pyrite
		148.5 - 184.0	Pervasive Moderate Silicification	Patchy Moderate Sericitisation Fracture Controlled Weak Clay

184.0 - 188.8	MxF	band	Crenul	Weakly mineralized zone; Mixed gneiss with several narrow dacite dykes; Andesite dykes (at least 6 dykes, ranging from ~0.5-30cm, make up ~25% of interval): fine grained, aphanitic, intermediate; dominantly unmineralized with rare mineralized regions; mod-strong perv clay and sericite altn, strong pervasive chlorite altn in non-mineralized regions; larger dykes are highly fractured. Mixed gneiss: felsic dominant, strong perv seric, silc altn; 0.5% anastomosing oxides veinlets (lim+hem); strongly sheared (resembles mylonitic texture) at dyke margins; 0-2% diss oxides (lim+hem) with sulphide windows (0.5% diss pyrite associate with qsp alteration)		
		184.0 - 188.8	Pervasive	Strong Sericitisation	Patchy Moderate Silicification	Patchy Moderate Clay
188.8 - 193.5	MxF	band	Fol-str	Weakly mineralized mixed gneiss; felsic dominant, strong perv seric, moderate perv clay (altn of felsic clasts), narrow patches of strong perv silc altn; 0.5% anastomosing oxide veinlets (lim+hem); 1.5% diss oxides (lim+hem)		
		188.8 - 193.5	Pervasive	Strong Sericitisation	Patchy Strong Sericitisation	Replaces Felsics Moderate Clay
		193.5 - 197.0	Pervasive	Moderate Silicification	Pervasive Moderate Sericitisation	Pervasive Moderate Clay
193.5 - 197.0	MxF	augn	Fol-str	Moderate zone; felsic dominant mixed gneiss; moderate perv seric, clay and silica altn; 2-3.5% diss oxides (lim, hem)		
197.0 - 197.2	Ylim	matx		Mod-strong mineralization; Limonite-clay matrix breccia; matrix supported with local felsic gneiss clasts; clasts are well-rounded, rotated, fine-med grained. and intensely altered by seric and silica. 3-4% diss lim+hem		
		197.0 - 197.2	Replaces	Matrix Intense Clay	Replaces Clasts Intense Sericitisation	Replaces Felsics Intense Silicification
197.2 - 200.6	MxF	augn	Fol-str	Moderate zone; felsic dominant mixed gneiss; moderate perv seric, clay and silica altn; 2-3.5% diss oxides (lim, hem)		
		197.2 - 200.6	Pervasive	Moderate Sericitisation	Pervasive Moderate Silicification	Pervasive Moderate Clay
200.6 - 207.9	FG	augn	Fol-str	Felsic dominant gneiss, fresh; trace FC limonite (<0.15%); mod perv silc, weak perv seric altn		
		200.6 - 207.9	Pervasive	Moderate Silicification	Pervasive Weak Sericitisation	

Drill Log: CFD0275

Easting	585326.29	Hole Length	197 m	Prospect	Double Double	Drill Started	Aug 04, 2012	Comment
Northing	6973402.79	Azimuth	179 °	Target	DOU033	Drill Completed	Aug 06, 2012	
Projection	UTM7-NAD83	Dip	-62 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1095.78 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 8.2	FG		Fol-mod	Felsic gneiss, .1% limonite along fractures, moderately silicified with weak clay alteration of feldspar augens.
6.0 - 70.9		Patchy Strong Chlorite		Selective Repl Moderate Epidote Selective Repl Moderate Calcite
8.2 - 70.9	BtS		Fol-mod	Biotite schist, moderate to strong clay/chlorite alteration in patches, moderate patchy epidote and patchy strong carbonation throughout foliation (not banded). Thin felsic gneiss slip from 25-26m.
70.9 - 110.1	MxM	augn	Fol-mod	Mixed mafic gneiss, variably augen bearing with moderate chlorite replacing mafics. Augens up to .5cm. Weak to moderate patchy silicification. Moderate carbonation of BtS panels, weak of felsics. .1% fracture controlled limonite increasing at 81m to .25% with .1% hematite in close association along fractures.
70.9 - 110.1		Patchy Moderate Silicification		Replaces Mafics Moderate Chlorite Selective Repl Moderate Epidote
110.1 - 121.0	MxF			Mixed felsic gneiss. Felsic portions are strongly silicified with coarse muscovite in bands along foliation, and common fractures with .5% limonite, also .25% disseminated through felsics and .25% fracture controlled hematite. Mafic portions (bts) are moderately to strongly chloritized with weak clay alteration of feldspar porphyroblasts, also pervasively carbonated throughout foliation. .5% brassy pyrite disseminated throughout mafics.
110.1 - 121.0		Replaces Felsics Strong Silicification		Replaces Mafics Moderate Chlorite Selective Repl Weak Clay
121.0 - 124.7	HU			Strongly oxidized and hydrothermally unrecognizable. Beginning 30cm of unit contains intense silica and sericite alteration, complete destruction of previous fabric. Gradually becomes oxidized to a peak of 3% disseminated limonite with 1% hematite through strong to intensely clay altered portion of unit. All clay and oxidized portions are completely carbonated. XRF As peak through entire altered unit of 112 ppm, with a common value of 80 ppm recorded under .5m "high grade" spot checks.
121.0 - 127.1		Replaces Mafics Strong Chlorite		Fracture Controlled Moderate Clay
124.7 - 148.9	MxM		Fol-mod	Mixed mafic gneiss, weak fracture controlled clay and strong carbonate component to all BtS. Moderate chlorite. Patch of unit which has seen moderate to strong fluid action with disruption of fabric from 127.10-128.15m beginning with 1% purplish hematite over a 20cm span and then moderate sericite and clay throughout end of unit. .1% fracture controlled purple hematite throughout mafics and patchy moderate epidote. Dismembered milky quartz veins at bottom of unit.
127.1 - 128.2		Selective Repl Strong Sericitisation		Fracture Controlled Moderate Clay Pervasive Moderate Silicification
128.2 - 148.9		Replaces Mafics Moderate Chlorite		Fracture Controlled Weak Clay Patchy Moderate Silicification
148.9 - 153.9	IV	phyr		Coarse feldspar phenocrysts up to .75cm in andesite dyke. Moderate silica-sericite veinlets with green colouration irregularly cross cutting dyke. Weak fracture controlled clay.
148.9 - 153.9		Selective Repl Moderate Sericitisation		Selective Repl Moderate Silicification Fracture Controlled Weak Clay
153.9 - 182.6	MxM	augn		Mixed mafic gneiss, moderate chlorite replacing bts portions, coarse augens (up to 1cm) in felsic gneiss panels, weak patchy silicification and weak epidote in some mafic portions. .5% metamorphic pyrite along foliation.
153.9 - 182.6		Replaces Mafics Moderate Chlorite		Fracture Controlled Weak Clay Selective Repl Weak Epidote
182.6 - 183.8	BtS			Thin area of strongly fractured biotite schist. Moderate clay along fractures, and .25% fracture controlled hematite.
182.6 - 183.8		Fracture Controlled Moderate Clay		Replaces Mafics Moderate Chlorite

183.8 - 197.0	MxM	augn	Mixed mafic gneiss. .25% fracture controlled limonite with .1% fracture controlled hematite. Moderate chlorite. Patch from 189.24-190m with moderate pervasive white clay alteration leading into an oxidized shear through biotite schist approx. 20cm wide with 1% disseminated limonite which is strongly carbonated.		
		183.8 - 189.2	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Selective Repl Weak Epidote
		189.2 - 190.0	Pervasive Moderate Clay	Selective Repl Strong Calcite	
		190.0 - 197.0	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay	Selective Repl Weak Epidote

Drill Log: CFD0276

Easting	584630	Hole Length	317 m	Prospect	Supremo T4-5	Drill Started	Aug 05, 2012	Comment
Northing	6974344.97	Azimuth	270 °	Target	T5	Drill Completed	Aug 08, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	HGrimson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1242.28 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVb			
5.0 - 16.0	MxF	biot		Mixed gneiss; moderate pervasive clay and chlorite alteration of biotite in BtS regions; weak pervasive sericite altn
		5.0 - 16.0	Replaces Mafics Moderate Chlorite	Replaces Mafics Moderate Clay Pervasive Weak Sericitisation
16.0 - 17.4	MxF	augn	Fol-str	Mixed gneiss, weakly mineralized; moderate pervasive clay and seric altn, silc alteration of augens; 1-1.5% diss lim; interval begins with ~85cm wide fractured buck quartz vein
		16.0 - 17.4	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Replaces Felsics Moderate Silicification
17.4 - 19.9	IV	fgrn		Weakly mineralized intermediate-mafic dyke; fine grained matrix with felsic matrix; fluid banding; mod clay (perv and preferentially replaces felsic phenocrysts), seric (perv) altn, weak perv chlorite; 1.5-2% diss lim with weak diss hem; sharp lower contact with gneiss
		17.4 - 19.9	Pervasive Moderate Clay	Pervasive Moderate Chlorite Pervasive Moderate Sericitisation
19.9 - 20.6	MxF	augn	Fol-mod	Mixed gneiss, weakly mineralized; moderate pervasive clay (defines foliation) and seric altn, silc alteration of augens; 1-1.5% diss lim
		19.9 - 20.6	Pervasive Moderate Clay	Pervasive Moderate Sericitisation Replaces Felsics Moderate Silicification
20.6 - 56.6	MxF	augn	Fol-str	Mixed gneiss, fresh; weak perv silc, seric, weak perv chlorite (of BtS regions); trace FC limonite (<0.15%)
		20.6 - 56.6	Pervasive Weak Silicification	Pervasive Weak Sericitisation Replaces Mafics Weak Chlorite
56.6 - 72.5	MxF	augn	Fol-str	Mixed gneiss; mod perv seric, weak local perv clay, perv silc; 0.5-0.75% limonite (patchy, FC and 0.1% veinlets); 0.1% fe-carb veins
		56.6 - 72.5	Pervasive Moderate Sericitisation	Pervasive Weak Clay Pervasive Weak Silicification
72.5 - 107.5	MxF	augn	Fol-str	Mixed gneiss, 0-0.25% FC limonite; weak-moder perv silc, seric, chlorite (after biotite) altn; 0.1% limonite veinlets
		72.5 - 107.5	Pervasive Weak Silicification	Pervasive Weak Sericitisation Replaces Mafics Weak Chlorite
107.5 - 133.5	MxF	augn	Fol-str	Mixed gneiss; patchy oxidation (0.75% lim+hem); 0.15% diss+brassy pyrite (associated with qsp alteration); weak-mod clay altn (discrete regions FC and altn of felsic augens), perv seric, patchy silc; 0.15% cross-cutting and anastomosing limonite veinlets (+/- hem selvage)
		107.5 - 133.5	Patchy Moderate Clay	Pervasive Moderate Sericitisation Patchy Moderate Silicification
133.5 - 142.8	MxF	augn		Weak zone; mixed gneiss; 2-3% diss oxides (lim+hem); 0.1% oxides veinlets); moder perv seric, mod perv clay altn
		133.5 - 142.8	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
142.8 - 143.2	Ylim	bxi		Strong zone; limonite-clay breccia formed by intense perv clay alteration of local gneiss; structure has been obliterated leaving few local intact clasts of mixed gneiss with strong perv seric and clay altn (some clasts are HU, due to extensive alteration/deformation), sub angular; 3-4% diss lim+hem
		142.8 - 143.2	Replaces Matrix Intense Clay	Replaces Clasts Strong Sericitisation
143.2 - 150.9	MxF	band		Weak zone; mixed gneiss; 2-3% diss oxides (lim+hem); moder perv seric, mod perv clay altn; beginning of interval is strongly fractured, unconsolidated; 0.25% quartz veins (~0.5mm-3cm wide)
		143.2 - 150.9	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
150.9 - 172.4	MxF	band	Fol-str	Mixed gneiss; patchy oxidation (0.75% lim+hem); 0.15% diss+brassy pyrite (associated with qsp alteration); weak-mod clay altn (discrete regions FC and altn of felsic augens), perv seric, patchy silc; 0.15% cross-cutting and anastomosing limonite veinlets (+/- hem selvage)
		150.9 - 172.4	Patchy Moderate Clay	Pervasive Moderate Sericitisation Patchy Moderate Silicification

172.4 - 181.5	MxF	band	Fol-str	Mixed gneiss; 1% patchy oxides (lim+hem, lim veinlets); 0.2% patchy pyrite (associated with strng perv qsp altn); moderate perv clay altn of felsic augens in oxidic regions; 0.25% quartz veins (ave 1.5cm wide)		
		172.4 - 181.5	Patchy Strong Sericitisation	Replaces Felsics Moderate Clay	Patchy Moderate Silicification	
181.5 - 181.8	IV	fgrn		Intermediate dyke; fine grained, aphanitic, weakly mineralized (1.5% diss lim); mod-strong perv clay, seric altn, sharp contact with neighboring gneiss units		
		181.5 - 189.2	Pervasive Moderate Clay	Pervasive Moderate Sericitisation	Pervasive Moderate Silicification	
181.8 - 189.2	MxF	band	Fol-str	Weak-mod zone; Mixed gneiss; 2-3% diss oxides (lim+strong hem); mod clay (perv and FC), perv seric and silc altn; 0.15% buck quartz veins (ave 1cm wide)		
189.2 - 211.9	MxF	augn	Fol-str	Mixed gneiss, 0.25-0.5% FC limonite+hem; weak-moder perv silc, seric, FC clay, patchy chlorite (after biotite) altn; 0.1% limonite veinlets		
		189.2 - 211.9	Pervasive Moderate Silicification	Pervasive Weak Sericitisation	Fracture Controlled Weak Clay	
211.9 - 216.4	MxF	augn		Weakly mineralized zone; 2% diss oxides (lim+hem); felsic dominant mixed gneiss; mod-st perv seric, weak perv+FC clay, weak patchy silc altn		
		211.9 - 216.4	Pervasive Moderate Sericitisation	Pervasive Weak Clay	Pervasive Weak Silicification	
216.4 - 217.4	MxF	augn	Fol-str	Mixed gneiss, fresh; mod perv seric, silc altn		
		216.4 - 217.4	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
217.4 - 218.7	MxF	augn	Fol-str	Mod-Strong zone, mixed gneiss; 3-4% diss oxides (lim+hem); weak- mod clay (perv+replacement of felsic augens), mod perv seric (define foliation)		
		217.4 - 218.7	Pervasive Moderate Clay	Pervasive Moderate Sericitisation		
218.7 - 222.0	MxF	augn	Fol-str	Mixed felsic gneiss, 0.15% FC limonite, weak perv seric and silc altn		
		218.7 - 222.0	Pervasive Weak Silicification	Pervasive Weak Sericitisation		
222.0 - 224.9	MxF	augn	Fol-str	Weakly mineralized; felsic dominant mixed gneiss; 2% diss oxides (lim+hem); mod perv seric, weak perv clay, weak patchy silc altn		
		222.0 - 224.9	Pervasive Moderate Sericitisation	Pervasive Weak Clay	Patchy Weak Silicification	
224.9 - 229.5	MxF	band	Fol-mod	Mixed felsic gneiss, felsic dominant. Unit consists of fracture controlled lim 0.25% & fresh brassy patchy pyrite 0.15%, associated with moderate silica, weak selective replacement epidote, & weak chlorite replaces mafic alteration. Local thin (mm) calcite veins located within mafic bands, gneiss component includes small (cm) wide quartz vein.		
		224.9 - 229.5	Pervasive Moderate Silicification	Selective Repl Weak Epidote	Replaces Mafics Weak Chlorite	
229.5 - 231.6	FG	augn	Fol-str	Felsic gneiss, weak-mod zone; unit contains 1% diss limonite with 0.5% diss hematite staining & local small windows of sooty sulphides 0.5%; associated with weak/mod selective replacement clay, & weak perv silica alteration. Unit contains small (cm) quartz veins.		
		229.5 - 231.6	Selective Repl Moderate Clay	Pervasive Weak Silicification		
231.6 - 237.6	MxF	augn	Fol-str	Mixed felsic gneiss, small mafic bands. Unit consists of frac controlled lim 0.25%, with weak hem 0.1% staining & patchy brassy pyrite 0.1%; alterations includes strong local interval of silica & sericite alteration (QSP), with remaining unit including mod pervasive silica & small local interval of mod frac controlled clay alteration. local small (mm) clacite veins.		
		231.6 - 233.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation		
		233.0 - 237.6	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay		
237.6 - 238.3	FG	augn	Fol-wk	Felsic gneiss, weak zone start of mod/str zone. Unit consists of diss limonite 0.75% with dark red hem staining 0.5%; alteration includes mod perv silica, with weak perv clay alteration.		
		237.6 - 238.3	Pervasive Moderate Silicification	Pervasive Weak Clay		
238.3 - 239.2	HU	fgrn		Hydrothermally unrecognizable protolith, strong zone. Unit contains diss lim 2.5% with diss 1.5% hem staining; associated with patchy moderate silica, moderate patchy clay alteration.		
		238.3 - 239.2	Patchy Moderate Silicification	Patchy Moderate Clay		
239.2 - 240.9	FG	augn	Fol-mod	Felsic gneiss, weak shoulder zone. Unit consists of 0.75% diss lim with 0.25% hem staining; associated with moderate perv silica, weak perv sericite, with weak selective replacement albite & clay alteration. Local weathered vuggs present throughout unit.		
		239.2 - 240.9	Pervasive Moderate Silicification	Pervasive Weak Sericitisation	Selective Repl Weak Albite	
240.9 - 247.3	MxF	augn	Fol-mod	Mixed felsic gneiss, weak mineralization shoulder of zone. Unit consists of weak silica, with weak frac controlled clay alteration; the unit is composed of frac controlled lim 0.5% with 0.25% hem staining.		
		240.9 - 247.3	Pervasive Weak Silicification	Selective Repl Weak Clay		

247.3 - 250.5	FG	band	Fol-wk	Felsic gneiss, mod/strong zone of mineralization. Includes disseminated lim 3% with strong blood red hem staining 2%; associated with alteration composed of strong perv silica, with mod frac controlled clay alteration. Small (cm) windows of sooty sulphides 0.5%. Local interval of a strong alteration lens located btw 248.12m - 248.50m, fine-grain, could be considered a Hu, relic fragments of surrounding felsic gneiss. Large quartz vein btw 249.82m - 250.01m.		
		247.3 - 250.5	Pervasive Strong Silicification	Fracture Controlled Moderate Clay		
250.5 - 252.5	MV			Massive quartz vein, includes intervals (10-20cm) of Felsic gneiss (FG), vein appears to be milky/translucent with weak lim staining. Felsic gneiss components include diss lim 2% with 1.25% hem staining. Alteration includes mod frac controlled clay.		
		250.5 - 252.5	Fracture Controlled Moderate Clay			
252.5 - 254.1	FG	band	Fol-wk	Felsic gneiss, mod/strong zone of mineralization. Sulphides include 3% diss limonite with 1.5% hem staining; associated with mod perv silica with weak/mod selective replacement clay alteration. Small windows of un-oxidized intervals that include 0.5% sooty diss sulphides.		
		252.5 - 254.1	Selective Repl Moderate Clay	Pervasive Strong Silicification		
254.1 - 258.9	YC	bx		Silicified clast-breccia, mod/str zone of mineralization, different breccia types throughout unit; includes fine to coarse-grain, matrix supported, sub-angular to rounded, multi-phase silicified clast breccia, certain intervals include monomictic felsic gneiss clasts; alteration includes: strong silica clast replacement, with mod clay replaces matrix alteration. Unit includes Disseminated lim 2% with 1.5% hem staining.		
		254.1 - 258.9	Replaces Matrix Moderate Clay	Replaces Clasts Strong Silicification		
258.9 - 267.4	FG	band	Fol-wk	Felsic gneiss, mod/str zone of mineralization; unit is composed of mod patchy clay, moderate perv silica, & weak patchy sericite alteration; sulphides consist of diss lim 3% with 2% hem staining; small local crackle breccia (Yx) with limonite clay infill btw 260.08m 260.55m on contact with carbonate veins and ankortite selvage; local (cm wide) calcite vein;		
		258.9 - 267.4	Pervasive Moderate Silicification	Patchy Moderate Clay	Patchy Weak Sericitisation	
267.4 - 272.7	FG	band	Fol-mod	Felsic gneiss, weak to no mineralization; unit consists of strong patchy sericite, strong perv silica, & mod selective replacement albite alteration; sulphides include frac controlled lim 0.25% and fresh brassy patchy 0.25%. Local thin (mm-cm) calcite veins throughout unit.		
		267.4 - 272.7	Pervasive Strong Silicification	Patchy Strong Sericitisation	Selective Repl Moderate Albite	
272.7 - 277.3	FG	augn	Fol-mod	Felsic gneiss, mod/str mineralization zone; Unit contains sooty disseminated sulphides 3%, frac controlled lim 1% with 0.5% patchy hem; associated with strong silica, moderate selective replacement albite, & weak patchy sericite alteration. unit contains local carbonate veins & quartz veins, and small cross cutting hem veins. \		
		272.7 - 277.3	Pervasive Strong Silicification	Patchy Weak Sericitisation	Selective Repl Moderate Albite	
277.3 - 285.4	MxF	band	Fol-str	Mixed felsic gneiss, very weak mineralization; unit contains mod perv silica, weak chlorite replaces mafic, patchy mod sericite, & selective replacement albite alteration; unit includes 0.25% frac controlled lim, 0.15% hem staining along with 0.15% patchy brassy pyrite. Local thin (mm-cm) quartz & calcite veins.		
		277.3 - 285.4	Pervasive Moderate Silicification	Patchy Moderate Sericitisation	Selective Repl Moderate Albite	
285.4 - 297.3	FG	augn	Fol-wk	Felsic gneiss, mod/str zone of mineralization; unit consists of frac controlled lim 0.5%, with diss sooty sulphides 1.5%, with an interval of diss sooty sulphides 4%; associated with strong silica, str perv sericite, & mod patchy albite alteration. Local vuggy quartz veins.		
		285.4 - 297.3	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Patchy Moderate Albite	
297.3 - 317.0	MxF	band	Fol-str	mixed felsic gneiss, weak to no mineralization; sulphides are made of frac controlled lim 0.25% with 0.10% patchy brassy pyrite; associated with alteration packages consisting of str silica & sericite alteration with patchy albite alteration, QSP includes sooty sulphides 1.5% disseminated . Large quartz vein located from 305m - 305.30m, unit includes local small (cm) quartz veins. Small breccia texture calcite vein located at 313.30.		
		297.3 - 317.0	Patchy Strong Silicification	Patchy Strong Sericitisation	Patchy Moderate Albite	

Drill Log: CFD0277

Easting	585177.16	Hole Length	401 m	Prospect	Double Double	Drill Started	Aug 06, 2012	Comment
Northing	6973401.3	Azimuth	180 °	Target		Drill Completed	Aug 10, 2012	
Projection	UTM7-NAD83	Dip	-70 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1116.16 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.4	OVb			
5.4 - 16.7	MxM		Fol-mod	Mixed gneiss, mafic dominant. Fracture controlled limonite (.25%) and all BtS portions carbonated. Moderate clay/chlorite alteration of BtS, thin felsics moderately pervasively silicified. Thin carbonate bands up to .5cm wide through BtS, some patches strongly disaggregated.
		5.4 - 16.7	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
16.7 - 18.6	BtS			Thin patch of strong sericite and silicification through biotite schist. Weak fabric still visible, but strongly altered. Beginning 25cm and end 60cm contain 1.5% disseminated limonite, but are both pervasively carbonated (Fe-carb). Does not run As under XRF analysis.
		16.7 - 18.6	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation Pervasive Strong Fe-carb
18.6 - 42.4	MxM		Fol-mod	Mixed gneiss, mafic dominant. Moderate chlorite after mafics, patchy moderate clay replacing feldspars and .1% fracture controlled limonite and 1% disseminated brassy metamorphic pyrite.
		18.6 - 42.4	Replaces Mafics Moderate Chlorite	Replaces Felsics Moderate Clay
42.4 - 140.1	MxM		Fol-mod	Mixed gneiss, mafic dominant. Weak fracture controlled limonite (up to .25%) is variably present over interval, 1% brassy pyrite disseminated throughout, weakly oxidized through felsic intervals. Area from 112.06-112.41m with .75% disseminated limonite throughout, with moderate clay along shear, and Fe-carbonate veining crosscutting fabric. Silicification halo surrounding the shear up to strong. Moderate chlorite through mafics, felsics moderately silicified.
		42.4 - 140.1	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay Patchy Moderate Silicification
140.1 - 144.4	FG		Fol-mod	Felsic gneiss, coarse muscovite along foliation and moderate pervasive silicification. .25% fracture controlled limonite, .1% fine hematite along foliation.
		140.1 - 144.4	Pervasive Moderate Silicification	Fracture Controlled Weak Clay
144.4 - 177.9	MxM			Weakly fractured mixed gneiss, mafic dominant. Moderate chlorite, patchy strong epidote. Weak silification of felsics and fine disseminated hematite.
		144.4 - 177.9	Replaces Mafics Moderate Chlorite	Patchy Strong Epidote
177.9 - 193.8	BtS			Biotite-muscovite schist, strong white mica component and patchy oxidation. .5% fracture controlled limonite and hematite, increasing to .75% at a patch of semi-massive sulfide (pyrite, possibly arsenian) from 190.70-190.79m, followed by a thin (2cm) milky quartz vein with concentration of sulfide around vein in halo. Oxidation along fractures in this area produced XRF As values of 3315 ppm in a red hematite limonite fracture surface. Moderate pervasive silicification throughout and patches of moderate clay alteration.
		177.9 - 193.8	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
193.8 - 195.1	FG			Strongly fractured and disaggregated felsic gneiss interval. Moderate to strong white clay alteration of feldspars, 1% disseminated limonite and .25% hematite along some fractures. Moderate silicification of competent areas through unit.
		193.8 - 195.1	Patchy Moderate Silicification	Fracture Controlled Strong Clay
195.1 - 198.5	MxF			Moderately fractured mixed felsic gneiss after strongly fractured interval. Strong white clay alteration, weak oxidation, .25%.
		195.1 - 198.5	Patchy Weak Silicification	Replaces Felsics Strong Clay
198.5 - 212.7	MxF			Mixed felsic gneiss, BtS portions have moderate pervasive clay replacement of feldspar porphyroblasts and moderate chlorite after biotite. Moderate silicification of felsic gneiss, .5% fracture controlled limonite throughout.
		198.5 - 212.7	Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite Patchy Moderate Silicification

212.7 - 214.4	FG	Felsic gneiss with pervasive white clay alteration (moderate) and .75% disseminated limonite and .25% fracture controlled hematite. Moderately fractured, but no significant XRF As hits.		
		212.7 - 214.4	Pervasive Strong Clay	
214.4 - 298.7	MxM	Mixed mafic gneiss. Local oxidized patches from 223.34-224.35 m and from 228.54-228.90 m, both with approx. 1% disseminated limonite and pervasive Fe-carbonate. Weak brecciation with Fe-carb/lim matrix locally within these small intervals. Unit wide moderate chlorite alteration and weak fracture controlled clay. .5% brassy pyrite through mafics. Bottom of unit sees patches of mild oxidation bleeding in through fractures in more silicified gneiss.		
		214.4 - 223.3	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
		223.3 - 224.4	Pervasive Strong Fe-carb	Pervasive Weak Silicification
		224.4 - 228.5	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay
		228.5 - 228.9	Pervasive Strong Fe-carb	Pervasive Weak Silicification
		228.9 - 298.7	Replaces Mafics Moderate Chlorite	Fracture Controlled Weak Clay Patchy Weak Epidote
298.7 - 301.7	FG	Moderate zone; felsic gneiss with patchy 1.5% disseminated hematite along foliation and moderate white clay alteration throughout. Feldspars are clay replaced, limonite and hematite strongest along fractures but also through foliation.		
		298.7 - 301.7	Selective Repl Moderate Clay	
301.7 - 314.9	FG	Patchy strong silicification of felsic gneiss, beginning of stronger alteration through the hole. Moderate sericite in patches and fracture controlled oxidation. Fractures following roughly the same orientation (45,270 alpha beta) seem to control patches of oxidation. .75% fracture controlled limonite, .5% brassy py.		
		301.7 - 314.9	Pervasive Strong Silicification	Patchy Moderate Sericitisation
314.9 - 319.3	FG	Zone. Disseminated sooty sulphides variably oxidized to deep-red hematite and limonite through felsic gneiss. Disseminated areas are patchily dispersed throughout unit, with unoxidized strongly silicified gneiss in between. Ylim breccia cutting (28,38 alpha beta) through oxidized gneiss, with rotated clasts of host with red oxidation set in Fe-carbonate matrix. Interior wall of breccia is coarse and transparent calcite. Sooty sulphides up to 2% disseminated throughout with XRF As hits >5500 ppm along freshly broken surface (unoxidized).		
		314.9 - 319.3	Pervasive Strong Silicification	Patchy Strong Sericitisation
319.3 - 326.4	FG	Patchy oxidation off of fractures through strongly silicified and patchily strongly sericitized felsic gneiss. Bleaching/sericite comes off of fractures. Dominant fracture set is oriented (24,267 a b), with oxidation also coming in along foliation-parallel fractures. Fine sooty pyrite is patchily disseminated (.5%). .5% fracture controlled limonite, .5% fracture controlled hematite.		
		319.3 - 326.4	Pervasive Strong Silicification	Patchy Moderate Sericitisation
326.4 - 327.2	FG	Patch of fractured felsic gneiss with 1.5% disseminated hematite along foliation after sooty sulphide. .5% fracture controlled limonite. Moderate sericite and weak fracture controlled clay.		
		326.4 - 327.2	Pervasive Moderate Silicification	Fracture Controlled Weak Clay Selective Repl Moderate Sericitisation
327.2 - 332.3	FG	Strongly silicified felsic gneiss, moderate sericitization, .5% brassy py along foliation as well as .25% patchy hematite-after-pyrite along foliation. .1% fracture controlled limonite.		
		327.2 - 332.4	Pervasive Strong Silicification	Patchy Moderate Sericitisation
332.3 - 334.0	FG	Zone. Fine grey disseminated sooty pyrite oxidizing to deep-red hematite. No carbonate component through most oxidized material. 2% disseminated sooty py, 2% disseminated hematite (after sooty), moderate clay-lim replacement of feldspars. Most oxidized patch has altered out pitted appearance.		
		332.4 - 334.0	Pervasive Moderate Silicification	Replaces Felsics Moderate Clay Patchy Moderate Sericitisation
334.0 - 350.5	MxF	Mixed felsic gneiss. Fracture controlled hematite and limonite (.25%, .75% respectively) with moderate clay in most fractured areas. Moderate chlorite replacing BTS patches, moderate patchy sericitization through felsic gneiss, and moderate pervasive silicification in felsic gneiss.		
		334.0 - 350.5	Pervasive Moderate Silicification	Fracture Controlled Moderate Clay Selective Repl Moderate Sericitisation
350.5 - 401.0	MxF	Mixed felsic gneiss. Moderate pervasive silicification, .5cm augens through gneiss. Patchy oxidation up to .75% disseminated limonite with moderate white clay/albite replacement of feldspars. Moderate chlorite after mafics		
		350.5 - 401.0	Pervasive Moderate Silicification	Selective Repl Moderate Albite Fracture Controlled Weak Clay

Drill Log: CFD0278

Easting	584604.53	Hole Length	238 m	Prospect	Supremo T4-5	Drill Started	Aug 09, 2012	Comment	Undercut of RC fence.
Northing	6974250.2	Azimuth	273 °	Target	T5	Drill Completed	Aug 11, 2012		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CStewart	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1244.87 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 5.0	OVB			
5.0 - 35.6	MxF	augn		Mixed felsic gneiss. Moderately fractured throughout, with .75% fracture controlled limonite. Common Fe-carbonate veining which does not run As under XRF analysis. Patchy bleaching and albitization of gneiss, weak fracture controlled clay, moderate chloritization of mafics (BtS). Arsenic hit of 242 ppm at 35 m, in weakly pervasively clay altered felsic gneiss with .75% disseminated limonite throughout.
		5.0 - 35.6	Selective Repl Moderate Albite	Pervasive Weak Silicification Fracture Controlled Weak Clay
35.6 - 119.8	MxF	augn		Mixed felsic gneiss. Moderate patchy silicification, .5% fracture controlled limonite and moderate chloritization of mafics. Two bleached zones (66.70-72.10m; 97.00-99.60m) containing 0.75% fracture controlled limonite and 0.25% fracture controlled hematite. Two zones contain increased quartz and carbonate veining and moderate patchy silicification. Calcite vein from 106.28-106.33. 110.70-117.45m contains more quartz with moderate silicification as dominant alteration.
		35.6 - 66.7	Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification
		66.7 - 72.1	Pervasive Weak Silicification	Replaces Mafics Moderate Chlorite
		72.1 - 97.0	Replaces Mafics Moderate Chlorite	Patchy Moderate Silicification
		97.0 - 99.6	Patchy Moderate Silicification	Fracture Controlled Weak Clay
		99.6 - 119.8	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite
119.8 - 123.9	MxF	augn		Mixed felsic augen-bearing gneiss. Oxidized interval, moderately fractured. Gradational increase in oxidation to maximum (123.52-123.59m). Pervasive silicification, mod weak ser, patchy clay al. Carbonate veining in highly oxidized zones. 0.25% fracture controlled lim; 0.1% fracture controlled hm.
		119.8 - 123.9	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Clay
123.9 - 137.5	MxF	augn	Fol-mod	Mixed felsic augen-bearing gneiss. Moderate pervasive sil, patchy chl replacing biotite, weak ser alt. 0.1% diss lim, 0.1% fracture controlled hm. Carb-lim veining from 123.51-123.59m. Fe-carb veinlets increase, presence of augens decrease at 133.55m.
		123.9 - 137.5	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite Selective Repl Weak Sericitisation
137.5 - 140.2	MxF	augn		Mixed felsic gneiss. Oxidized interval, moderately fractured. Moderate per sil, weak fracture controlled clay, moderate per ser alt. 0.25% fracture controlled lim, 0.1% fracture controlled hm. Fe-carb and carb veinlets present throughout. Quartz vein from 139.23-139.38.
		137.5 - 140.2	Pervasive Moderate Silicification	Patchy Weak Clay Pervasive Moderate Sericitisation
140.2 - 147.5	MxF	augn	Fol-mod	Mixed felsic gneiss. Moderate per sil, chl replacing mafics, patchy mod ser alt. Oxidized veinlets and quartz veins throughout. 0.1% fracture controlled lim. Slightly more oxidized from 144.36-147.45m (gradually into underlying oxidized zone).
		140.2 - 147.5	Replaces Mafics Moderate Chlorite	Pervasive Moderate Silicification Selective Repl Moderate Sericitisation
147.5 - 149.1	MxF	augn		Moderate zone; mixed felsic gneiss. Moderate pervasive sil, weak patchy clay, weak-mod per ser. 2.0% fracture controlled lim; 1.5% fracture controlled hm. 148.18-148.27m contains abundant Fe-carb veining with lim selv. As avg ~1500ppm for 4 samples (between 147.80-148.28m).
		147.5 - 149.1	Pervasive Moderate Silicification	Patchy Weak Clay Selective Repl Weak Sericitisation
149.1 - 157.8	MxF	band		Mixed felsic gneiss. Moderate patchy silicification, chl replacing mafics (bt), weak ser alt. Clay alt at end of interval (156.10-157.80m). Minor lim veinlets (~0.1%) and milky quartz veining. 155.20-156.7m moderately fractured.
		149.1 - 157.8	Pervasive Weak Silicification	Replaces Mafics Moderate Chlorite Selective Repl Weak Sericitisation

157.8 - 162.3	MxF	band	Weak zone, mixed felsic gneiss. Weak patchy silicification, weak pervasive clay alt, mod ser alt. 1.0% diss lim, 0.25% fracture controlled hm. Moderately fractured throughout interval.		
		157.8 - 162.3	Pervasive Moderate Silicification	Pervasive Weak Clay	Pervasive Moderate Sericitisation
162.3 - 169.6	MxF	band	Mixed felsic gneiss. Augen-bearing from 164.80-169.64m. Moderate pervasive silicification, chl replacing mafics (bt), weak patchy clay alt, weak ser alt. 0.25% fracture controlled lim, 0.1% diss hm. Minor oxidized (lim) veinlets.		
		162.3 - 169.6	Pervasive Moderate Silicification	Replaces Mafics Moderate Chlorite	Patchy Weak Clay
169.6 - 185.7	MxF	bx	Moderate zone; brecciated felsic gneiss. Moderate patchy silicification, moderate pervasive clay alt, mod ser alt. 2.0-3.0% fracture controlled/diss lim, 1.5% fracture controlled hm. Oxidized veinlets and quartz veins abundant throughout. As between ~1500-2500ppm in strongest sections of zone. Highly oxidized zones are highly fractured and weak.		
		169.6 - 185.7	Pervasive Moderate Silicification	Pervasive Moderate Clay	Pervasive Moderate Sericitisation
185.7 - 188.7	FC	fgrn	Moderate zone; altered dacite dike. Centre of dike least altered compared to contacts with host felsic gneiss. Strong pervasive silicification, weak to mod clay alt at margins, weak patchy ser alt. Margins of dike contain As=1420-3900ppm. 3.0-4.0% diss lim, 2.0% fracture controlled hm. Strong sections of zone highly fractured. Oxidized veinles and fractures more abundant below dike.		
		185.7 - 188.7	Pervasive Strong Silicification	Fracture Controlled Moderate Clay	Patchy Weak Sericitisation
188.7 - 208.2	MxF	band	Mixed felsic gneiss. Moderate patchy silicification, mod patchy clay alt, ser alt. Zone between 193.90-194.30m with ~1.5% fracture controlled hm, 0.1% diss lim. Abundance of oxidized veinlets decreases with increasing depth. 190.75-194.30m contains avg As=~280ppm.		
		188.7 - 208.2	Patchy Moderate Silicification	Patchy Moderate Clay	Selective Repl Moderate Sericitisation
208.2 - 221.1	MxF	band	Mixed felsic gneiss. Moderate pervasive silicification, weak patchy ser alt. Abundant lim oxidizing veinlets. 218.11-218.36m contains large, opaque quartz veins (avg 10cm thick). 0.25% fracture controlled lim.		
		208.2 - 221.1	Pervasive Moderate Silicification	Patchy Weak Sericitisation	
221.1 - 238.0	MxF	augn	Mixed felsic augen-bearing gneiss. Moderate pervasive silicification, chl replacing mafics (bt). 0.1% fracture controlled lim.		
		221.1 - 238.0	Pervasive Moderate Silicification	Replaces Mafics Weak Chlorite	

Drill Log: CFD0279

Easting	584928.79	Hole Length	203 m	Prospect	Double Double	Drill Started	Aug 10, 2012	Comment	DOU037
Northing	6973286.19	Azimuth	185 °	Target	Double Double	Drill Completed	Aug 12, 2012		
Projection	UTM7-NAD83	Dip	-62 °	Geologist	EBuitenhuis	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1090.91 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.0	OVb			
8.0 - 12.3	BtS			Zone. Strongly oxidized biotite schist, 1.5% disseminated limonite, 1% patchily disseminated hematite. Moderate pervasive clay alteration, strongest XRF As hits where strongest hematite. Weak patchy silicification, foliation still visible throughout with feldspars completely replaced.
		8.0 - 12.3	Patchy Weak Silicification	Pervasive Moderate Clay
12.3 - 14.7	BtS			Less oxidized and altered area, moderately fractured with .5% fracture controlled limonite, .1% fracture controlled hematite, weak clay replacement of feldspars but also moderate patchy silicification.
		12.3 - 14.7	Patchy Moderate Silicification	Selective Repl Weak Clay
14.7 - 28.9	MxM			Mixed mafic gneiss. Patchily oxidized, moderate to strong clay replacing feldspars throughout, moderate patchy silicification of felsics. 1% disseminated limonite, strong carbonate component throughout and associated with limonitic areas (Fe-carb). Local stockwork-style Fe-carb veining/fracture infill over 10cm spans.
		14.7 - 28.9	Patchy Moderate Silicification	Selective Repl Strong Clay Selective Repl Strong Fe-carb
28.9 - 37.2	MxM			Mixed mafic gneiss, moderate chlorite replacing bt, late calcite veining, moderate silicification of felsics, .25% fracture controlled limonite.
		28.9 - 37.2	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite
37.2 - 40.1	BtS			Weak zone: Strong clay alteration of biotite schist, with 1.5% disseminated limonite. Weak (.25%) patches of hematite, which run ~1000 ppm As. Unit is strongly Fe-carbonate rich, with clay-lim-fecarb veinlets crosscutting host. Thin 2cm milky qtz veins.
		37.2 - 40.1	Pervasive Moderate Clay	Selective Repl Moderate Fe-carb
40.1 - 55.9	MxM		Fol-mod	Mixed mafic dominant, moderate chlorite replacement of bt, ~1m patch of strong oxidation pervasively carbonated and clay altered, moderate clay along fractures. .5% fracture controlled limonite w/ Fe-carbonate.
		40.1 - 55.9	Patchy Strong Fe-carb	Replaces Mafics Moderate Chlorite Fracture Controlled Moderate Clay
55.9 - 84.7	AmBtS		Fol-mod	Biotite schist with patches of amphibole. Very strong pervasive carbonate, milky qtz veins up to 3cm thick with carbonate selvage, strong chlorite throughout and patches of strong epidote. Intensely fractured zones (faults?) from 65.80-66.15m (shear-like with very strong chlorite and epidote), 75.9-77.89 (crumbled and strong chlorite + clay alteration), and 79.38-80.30 m (strong chlorite, heavily fractured). Up to .5% fracture controlled limonite with patches of .25% hematite also along fractures, but strong Fe-carb along fractures as well.
		55.9 - 84.7	Replaces Mafics Strong Chlorite	Patchy Strong Epidote Pervasive Strong Calcite
84.7 - 88.0	Ycarb			2% disseminated limonite through completely carbonated immature breccia (clast supported). Competent breccia ends at 86.63 where strong clay alteration takes over. Strong chlorite at end of unit where breccia ends, strongly fractured throughout, some relict carbonate veins visible through destroyed areas.
		84.7 - 88.0	Pervasive Strong Fe-carb	Pervasive Strong Clay Replaces Mafics Strong Chlorite
88.0 - 92.4	AmBtS		Fol-mod	Biotite schist with patches of amphibole. Strongly carbonated, thick carbonate bands up to 4cm wide, crosscutting carbonate veining. Strong chlorite, moderate patchy epidote.
		88.0 - 92.4	Replaces Mafics Strong Chlorite	Patchy Moderate Epidote
92.4 - 97.2	BtS			Patchily oxidized biotite schist broken down in areas with moderate pervasive clay, followed by strong sericite and silicification + oxidation and local immature brecciation. Broken down patch of strong limonite (2%) from 94-94.30 m with strong clay runs 277 ppm As. Strongly altered throughout, with vuggy carbonate veins and oxidation halo cutting silicified rock.
		92.4 - 97.2	Fracture Controlled Moderate Clay	Pervasive Strong Silicification Pervasive Strong Sericitisation

97.2 - 100.4	BtS		Strongly silicified biotite schist. Strong carbonate veining and moderate sericitization, with patch oxidation associated with later carbonate veins.
97.2 - 100.4		Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
100.4 - 107.7	FG		Moderate pervasive silicification of felsic gneiss, with 1% disseminated limonite and greater concentrations along fractures. Patchily carbonated, deeper orange oxidation bleeding in off of fractures. Moderate albitization of feldspars throughout gneiss.
100.4 - 107.7		Pervasive Moderate Silicification	Selective Repl Moderate Albite Fracture Controlled Moderate Clay
107.7 - 121.5	BtS		Strongly silicified biotite schist. .75% fracture controlled limonite. Thin veinlets of sooty pyrite (.75%) but with high Fe content and no significant As. Local breccia development, strong sericite throughout.
107.7 - 121.5		Pervasive Strong Silicification	Selective Repl Strong Sericitisation
121.5 - 127.1	HU		Zone: Strong silicification and sericitization, 1.5% disseminated sooty pyrite throughout, also thin sooty pyrite veinlets. Moderate pervasive clay throughout and patches of strong complete orange-red oxidation. Local brecciated textures but no significant development. Late carbonate through most oxidized patches. Common disseminated brassy py throughout, .75%
121.5 - 127.1		Pervasive Strong Silicification	Pervasive Strong Sericitisation Pervasive Moderate Clay
127.1 - 128.4	YC		Greenish-orange clay matrix silicified clast breccia (clast supported). Strong clay replacement of matrix, patches of disseminated sooty sulphide (.75%) through clay. Patchy limonitic oxidation, .75%.
127.1 - 128.4		Replaces Clasts Strong Silicification	Replaces Mafics Strong Clay Selective Repl Moderate Sericitisation
128.4 - 130.1	HU		Strong silica-sericite alteration of biotite schist, halo to main mineralized zone. Weak sooty pyrite concentration in areas, also thin veinlets at top of unit (low As concentration) and patchy oxidation (.5%). Strong fracture controlled clay (oxidized). .75% brassy py throughout.
128.4 - 130.1		Pervasive Strong Silicification	Selective Repl Strong Sericitisation Fracture Controlled Strong Clay
130.1 - 150.9	BtS	Fol-mod	Qtz-biotite schist, beginning of unit carries over with moderate sericitization and moderate pervasive silicification, which dies out. Patch of moderate bleaching from 140.70-141.75 m. Moderate pervasive silicification, .5% fracture controlled limonite.
130.1 - 140.7		Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
140.7 - 141.8		Selective Repl Moderate Albite	Pervasive Moderate Silicification
141.8 - 150.9		Pervasive Moderate Silicification	
150.9 - 203.0	MxF	Fol-mod	Mixed mafic gneiss, moderate pervasive silicification and .1% fracture controlled limonite. Weak epidote replacing mafics throughout foliation, 1% disseminated cubic pyrite throughout unit, patchy areas of weak hematite after pyrite.
150.9 - 203.0		Pervasive Moderate Silicification	Selective Repl Weak Epidote

Drill Log: CFD0280

Easting	584635.36	Hole Length	299 m	Prospect	Supremo T4-5	Drill Started	Aug 11, 2012	Comment
Northing	6974199.01	Azimuth	278 °	Target	T5	Drill Completed	Aug 15, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CStewart	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1241.95 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 8.0	OVb			Moderate zone; dacite dike containing matrix-supported breccia on flanks (202.68-204.70m; 205.51-206.51m). Moderate pervasive clay Strong per silicification. Breccia is carbonate matrix-supported that has been strongly silicified, with late ankerite veining throughout both the dike and breccia. Top of upper breccia is very clay altered and weak/fragmented. arsenic values through run vary from ~700-3000ppm. 2.0% diss lim; 0.5% fracture controlled hm.
8.0 - 35.1	MxF	band		Felsic dominated gneiss. Moderate to strong patchy silicification, moderate patchy sericitization, clay alteration present in oxidized intervals. Three sections (13.26-13.71m; 19.66-21.95m; 32.49-32.95m) are significantly more oxidized and fractured. Oxidized zones on margins of two large opaque quartz veins (100% of 20.72-21.15m; ~60.0% of 32.0-33.0m). Oxidized zones contain ~0.25% fracture controlled lim and 0.1% fracture controlled hm; barren zones contain 0.15% fracture controlled lim. Short intervals of biotite schist (<30cm).
		8.0 - 35.1	Pervasive Moderate Silicification	Selective Repl Weak Clay Patchy Moderate Sericitisation
35.1 - 39.8	MxF	band		Weak zone; felsic dominated gneiss. Weak to strong patchy silicification, moderate sericitization, moderate patchy clay alteration. Interval is significantly oxidized but contains low As levels (As~>200ppm) with excetion of 37.33-37.98m (avg As~2000ppm). Heavily fractured; silicified sections not as fractured. 1.5% fracture controlled to diss lim; 0.1% fracture controlled hm.
		35.1 - 39.8	Pervasive Strong Silicification	Patchy Moderate Sericitisation Patchy Moderate Clay
39.8 - 51.7	MxF	band		Felsic dominated gneiss. Moderate pervasive silicification, weak patchy sericitization, weak chloritization replacing mafic phases (bt). Weakly fractured, contains abundant oxidized stringers. Minor carb/Fe-carb veining. 0.1% fracture controlled lim.
		39.8 - 51.7	Pervasive Moderate Silicification	Selective Repl Weak Clay Pervasive Moderate Sericitisation
51.7 - 56.2	MxF	band		Weak zone; felsic dominated gneiss. Moderate patchy silicification, moderate patchy clay alteration, moderate pervasive sericitization. 0.25-1.0% fracture controlled and diss lim, 0.25% fracture controlled hm. Short interval exhibits schistose fabric (53.85-54.69m).
		51.7 - 56.2	Patchy Moderate Silicification	Patchy Moderate Clay Pervasive Moderate Sericitisation
56.2 - 119.3	MxF	band		Felsic dominated gneiss. Moderate pervasive silicification, moderate patchy clay alt, moderate patchy sericitization. Fractured/oxidized intervals throughout with no significant mineralization (or As values). Contains oxidized stringers. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
		56.2 - 79.1	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Moderate Clay
		79.1 - 119.3	Pervasive Moderate Silicification	Patchy Moderate Sericitisation Patchy Weak Clay
119.3 - 160.2	MxF	augn	Fol-mod	Felsic-dominated, augen bearing mixed gneiss. Strong pervasive silicification, moderate patchy albitization, moderate patchy sericitization. Oxidized (stained; average ~50cm thick) zones throughout. Some lim veining, rare quartz and calcite veins. Mafic-dominated gneiss interval from 143.04-143.89m. 0.1% fracture controlled lim.
		119.3 - 160.2	Pervasive Strong Silicification	Patchy Moderate Albite Patchy Moderate Sericitisation
160.2 - 162.7	MxF	band		Felsic-dominated mixed gneiss. More felsic in composition compared to previous lithology. Moderate pervasive silicification, weak patchy sericitization, weak patchy albitization. 0.1% fracture controlled sooty sulfides; 0.1% fracture controlled lim. Lim veins contain ankerite.
		160.2 - 162.7	Pervasive Moderate Silicification	Patchy Weak Sericitisation Patchy Weak Albite
162.7 - 179.8	MxF	augn	Fol-mod	Felsic-dominated, augen-bearing mixed gneiss. Strong pervasive silicification, weak patchy sericitization. Texture varies from augen-bearing to banded. Minor lim veining, 0.1% fracture controlled lim. Composition transitions gradually to more mafic-dominated at lower portion of lithology towards underlying wealy mineralized zone.
		162.7 - 179.8	Pervasive Strong Silicification	Patchy Weak Sericitisation
179.8 - 181.2	FC	fgrn		Fine grained mafic dike, heavily altered. Weak to strong patchy silicification moderate clay alteration, moderate patchy sericitization. Oxidized (lim) stringer throughout. Centre of oxidized zone contains As=3571 (@179.90m). bottom oz zone decreases in fractures, avg As~200ppm (180.00-181.17m). 2.0% diss lim; 0.25% diss hm.
		179.8 - 181.2	Patchy Moderate Silicification	Patchy Moderate Clay Patchy Moderate Sericitisation

181.2 - 198.4	MxF	band	Fol-str	Felsic-dominated, augen-bearing gneiss. Moderate pervasive silicification, weak patchy sericitization. Contains sparse carbonate and limonite veins. Oxidized/lim stained intervals (189.63-190.65m; 192.05-198.35m) gradually oxidized (lim staining). 0.1-0.25% fracture-controlled lim. Quartz veins with varied orientations.		
		181.2 - 198.4	Pervasive	Moderate Silicification	Patchy Weak Sericitisation	
198.4 - 202.7	MxF	augn	Fol-mod	Felsic dominated augen-bearing gneiss. Moderate patchy silicification, weak selective sericitization, moderate albitization replacing felsics weak patchy clay. 1.0% diss lim; 0.25% fracture controlled hm; 0.25% fracture controlled sooty sulfides at dike-breccia contact.		
		198.4 - 202.7	Pervasive	Moderate Silicification	Selective Repl Weak Sericitisation	Replaces Felsics Moderate Albite
202.7 - 206.5	FC	fgrn		Moderate zone; dacite dike containing matrix-supported breccia on flanks (202.68-204.70m; 205.51-206.51m). Breccia is carbonate matrix-supported that has been strongly silicified, with late ankerite veining throughout both the dike and breccia. Top of upper breccia is very clay altered and weak/fragmented. arsenic values through run vary from ~700-3000ppm. 2.0% diss lim; 0.255 fracture controlled hm.		
		202.7 - 206.5	Pervasive	Strong Silicification	Patchy Strong Clay	
206.5 - 224.9	MxF	augn		Moderate zone; felsic-dominated augen-bearing felsic gneiss. Strong pervasive siliification, moderate patchy albitization, moderate to strong patchy clay alteration, moderate patchy sericitization. Highly oxidized/altered intervals of zone are more fractured/unconsolidated. 1.0-3.0% diss to fracture-controlled lim; 1.0% fracture controlled hm. Abundant Fe-carb, quartz veins.		
		206.5 - 224.9	Patchy	Strong Silicification	Patchy Moderate Albite	Patchy Strong Clay
224.9 - 227.9	MxF	band		Weak zone; felsic-dominated gneiss. Moderate pervasive silicification, moderate patchy clay alteration, moderate patchy sericitization. Fe-carb/carb quartz veining. 1.5% diss lim; 1.0% diss hm. Variable fragmentation.		
		224.9 - 227.9	Pervasive	Moderate Silicification	Patchy Moderate Clay	Patchy Moderate Sericitisation
227.9 - 257.3	MxF	band		Felsic-dominated gneiss. Moderate pervasive silicification, moderate patchy albitization, moderate sericitization. Interval contains discontinuous hm-stained zones (oxidized) between silicified felsic gneiss. 236.36-238-39m extensively fractured. Lim, quartz stringers and veins present throughout lith. 0.1-0.25% fracture controlled lim, 0.1-0.25% fracture controlled hm, 0.1% fracture controlled sooty sulfides.		
		227.9 - 257.3	Pervasive	Moderate Silicification	Patchy Moderate Albite	Patchy Moderate Sericitisation
257.3 - 265.4	MxF	augn	Fol-mod	Felsic-dominated, augen-bearing gneiss. Moderate pervasive silicification, strong pervasive albitization, weak patchy sericitization. Strong albitized zones also exhibit greater lim alt. 1.0% diss lim; 0.25% fracture controlled hm.		
		257.3 - 265.4	Pervasive	Moderate Silicification	Pervasive Strong Albite	Patchy Weak Sericitisation
265.4 - 272.5	MxF	augn	Fol-mod	Felsic-dominated, augen-bearing gneiss. Strong pervasive silicification, moderate patchy albitization, weak patchy sericitization. 271.36-271.80m opaque quartz vein. Minimal ankerite stringers. 0.25% fracture controlled lim; 0.25% diss hm.		
		265.4 - 272.5	Pervasive	Strong Silicification	Patchy Moderate Albite	Patchy Weak Sericitisation
272.5 - 284.2	MxF	band	Fol-mod	Felsic-dominated gneiss. Strong pervasive silicification, moderate patchy albitization, moderate patchy sericitization. Abundant fractures producing hm staining/oxidation. 0.1% fracture controlled lim; 0.5% fracture controlled-diss hm.		
		272.5 - 284.2	Pervasive	Strong Silicification	Patchy Moderate Albite	Patchy Moderate Sericitisation
284.2 - 299.0	MxF	augn	Fol-mod	Felsic-dominated, augen-bearing gneiss. Strong pervasive silicification, moderate patchy albitization. Quartz vein from 293.95-294.01m. 0.1% fracture controlled lim.		
		284.2 - 299.0	Pervasive	Strong Silicification	Patchy Moderate Albite	

Drill Log: CFD0281

Easting	584786.26	Hole Length	95 m	Prospect	Supremo T5	Drill Started	Aug 12, 2012	Comment
Northing	6973651.34	Azimuth	271 °	Target	South T5	Drill Completed	Aug 13, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EBuitenhuis	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1152.64 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 64.3	MxF		Fol-mod	Mixed felsic-dominant gneiss. Moderate fracture controlled clay, patchy moderate silicification with weak oxidation. Gneiss contains qtz-feldspar augens up to .5cm, strong chlorite after biotite in mafic patches, .5% fracture controlled limonite throughout until 59.56-62.10 m, where 1.5% disseminated limonite and .25% patchy hematite oxidation occurs through strongly altered biotite schist. Strong albitization beyond oxidized zone, and also heavily fractured.
		9.0 - 59.6	Replaces Mafics Strong Chlorite	Fracture Controlled Moderate Clay Patchy Moderate Silicification
		59.6 - 64.3	Selective Repl Strong Albite	Patchy Moderate Silicification Fracture Controlled Moderate Clay
64.3 - 74.1	IV	phyr		Porphyritic andesitic dyke. Coarse feldspar phenocrysts up to .5cm set in a fine green-black aphanitic matrix. Moderate clay replacement of matrix + phenocrysts, dyke is non-magnetic (or very weakly). Strongly fractured at start of unit with strong clay decomposition, which fades to moderate levels through the central portion of the dyke. Bottom contact is obscured by strong oxidation and clay:.
		64.3 - 66.2	Selective Repl Strong Clay	
		66.2 - 74.1	Pervasive Moderate Clay	
74.1 - 76.8	HU			Strong oxidation and intense clay alteration. Possibility that initial portion of unit is continuation of IV dyke, however bottom exhibits very weak relict foliation. Major core loss (<50% recovery) within interval. 2.5% disseminated limonite, 1% disseminated hematite.
		74.1 - 76.8	Pervasive Intense Clay	
76.8 - 77.5	BtS		Fol-mod	Thin lens of strongly silicified and sericitized biotite schist. Very intensely altered but relict foliation visible. Unoxidized, but sharp oxidation fronts at start and end of unit suggest BtS is present in above and below HU intervals, however extremely altered. A
		76.8 - 77.5	Pervasive Strong Silicification	Pervasive Strong Sericitisation
77.5 - 80.9	HU			Strong clay alteration and oxidation of host. Beginning of unit most likely heavily altered and oxidized biotite schist, with transition/obscured contact with IV dyke within unit. 2.5% disseminated limonite, 1% disseminated hematite.
		77.5 - 80.9	Pervasive Intense Clay	
80.9 - 88.1	IV			Porphyritic andesite dyke. Coarse feldspar phenocrysts ups to .5cm as previous dyke unit. Unmagnetic. .75% fracture controlled limonite.
		80.9 - 88.0	Fracture Controlled Moderate Clay	
		88.0 - 95.0	Pervasive Moderate Silicification	Pervasive Weak Sericitisation
88.1 - 95.0	FG	augn	Fol-str	augen gneiss, weak to moderate silicification, 0.25% fracture controlled limonite, 0.25% disseminated hematite

Drill Log: CFD0282

Easting	584785.9	Hole Length	198 m	Prospect	Supremo T5	Drill Started	Aug 13, 2012	Comment
Northing	6973648.78	Azimuth	272 °	Target	T5	Drill Completed	Aug 16, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1152.55 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 12.0	OVB			
12.0 - 16.8	FG	augn	Fol-mod	Moderately silicified felsic augen gneiss, 10cm of strong pervasive clay starting 15.1, fracture controlled limonite associated with local weak QS alteration, av. 0.5%
12.0 - 34.1			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay
16.8 - 34.1	MxF	augn	Fol-mod	Augen gneiss interbanded with mafic gneiss and biotite schist, moderately silicified, local uncommon fracture controlled limonite, rare frac clay. Unit is looking fresher, but still exhibits oxidized metamorphic brassy py.
34.1 - 40.1	MxF	augn	Fol-mod	Felsic dominant gneiss, unique because of 2-50cm intervals of QS alteration, associated brassy and sooty pyrite (av. 0.5%). There appears to be no XRF As associated with these intervals, but the pyrite is coarse and common. Fracture controlled limonite averages 0.25%.
34.1 - 40.1			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Sericitisation
40.1 - 42.9	IV	fgrn		Old weakly foliated mafic/intermediate dike, with its lower contact parallel to foliation. Unit begins with ~15cm of clay-limonite matrix-support fg heterolithic breccia. Dike is observed to have relict amphibole, and no feldspar or quartz.
40.1 - 42.9			Fracture Controlled Weak Clay	
42.9 - 58.3	MxM	augn	Fol-mod	Mafic dominant gneiss, 20cm of moderate QS alt and As-free sooty+brassy py starting at 44.8. rest of the unit is altering schist and gneiss over 5-30cm. Local concentrations of limonite and clay over 15-20cm, starting at 55.25 to EOU. Weak fracture controlled clay.
42.9 - 58.3			Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay Patchy Weak Sericitisation
58.3 - 64.8	FG	band	Fol-mod	Weak zone. Felsic gneiss, pervasively oxidized, silicified, and bleached, with 1% disseminated limonite. Common oxidized pyrite throughout. Contact with next unit is strongly fractured for 1m, obscuring any observable relationship.
58.3 - 64.8			Pervasive Strong Silicification	
64.8 - 75.8	IV	phyr		Plag porphyritic andesite, oxidized, no observed pyrite. Unit is moderately to strongly fractured, and exhibits coincident minor limonite (0.1%). Feldspars are clay altered but still preserved, matrix is mostly chlorite.
64.8 - 75.8			Replaces Felsics Weak Clay	Replaces Mafics Moderate Chlorite
75.8 - 77.0	IV	phyr		Zone. Plag porphyritic andesite, moderately clay and silica altered, phenocrysts generally preserved. Limonite and hematite are disseminated and are 2 and 0.5%, respectively. Grades into next unit.
76.0 - 77.0			Pervasive Moderate Silicification	Pervasive Moderate Clay
77.0 - 78.6	HU	mass		Zone. Hydrothermally altered unrecognizable, probably former IV. All textures destroyed, strong clay and moderate silicification. 2% disseminated limonite.
77.0 - 78.6			Pervasive Moderate Silicification	Pervasive Strong Clay
78.6 - 81.0	IV	phyr		Zone. Plag-porphyritic andesite dike, moderate silicification and clay alteration, 1.5% disseminated limonite, 0.5% hematite after phenocrysts. Contact with next unit is 10cm of waning mineralization.
78.6 - 81.0			Patchy Moderate Silicification	Pervasive Moderate Clay
81.0 - 87.6	IV	phyr		Plag porphyritic andesite, sharp contact with next unit. Clay after phenocrysts, uncommon 10-40cm intervals of strong pervasive clay alteration associated with fracture controlled limonite and hematite (av 0.25% each).
81.0 - 87.6			Replaces Felsics Moderate Clay	Replaces Mafics Moderate Chlorite

87.6 - 100.8	MxF	augn	Fol-mod	felsic dominant gneiss, beings with 1.5m of fracture controlled clay and limonite that grades into fresh gneiss with oxidized pyrite. Unit is cross cut by rare foliation parallel buck quartz veins and uncommon thin lay veins.		
		87.6 - 100.8	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay		
100.8 - 104.0	YO	bxi		Interval of rubbly breccia and mafic dominant gneiss. Purple HU from 101-101.37, followed by a clay-lim matrix-supported Y for 10cm. Angular BtS clast supported clay-lim matrix bx from 102.2-102.3. Last 30cm is a clay matrix-supported angular BtS clast breccia. Unit in general exhibits strong patchy clay, patchy hematite (av. 0.25%), and fracture controlled limonite (0.25%).		
		100.8 - 104.0	Patchy Strong Clay	Replaces Felsics Weak Silicification		
104.0 - 108.1	MxM	band	Fol-mod	Mafic dominant gneiss, exhibits patches of epidote after fs in mafic bands, silica after fs in felsic bands. 0.1% frac lim. Trace brassy metamorphic pyrite.		
		104.0 - 108.1	Replaces Felsics Weak Epidote	Replaces Felsics Weak Silicification		
108.1 - 109.1	RU	band	Crenul	Biotite-chlorite-talc sheared mafic/ultramafic, greenish colour probably comes from minor fuchsite. Foliation is commonly crenulated. Contact with next unit is a 2.5cm thick buck qtz vein.		
		108.1 - 109.1	Replaces Mafics Strong Chlorite	Pervasive Strong Talc	Pervasive Weak Fuchsite	
109.1 - 114.3	BtS	band	Fol-str	Strongly foliated mafic schist, perhaps was amphibole-rich at one point (is dark), common epidote clots/bands after felsic layers, silica after fs porphyroblasts(?) (rare). 0.2% disseminated brassy pyrite.		
		109.1 - 114.3	Replaces Felsics Moderate Epidote	Replaces Felsics Moderate Silicification		
114.3 - 115.9	RU	band	Crenul	Sheared mafic/ultramafic rock similar to second previous unit, but becomes unconsolidated by 115.3 and contains bands of mafic schist.		
		114.3 - 115.9	Replaces Mafics Strong Chlorite	Pervasive Strong Talc	Pervasive Weak Fuchsite	
115.9 - 142.4	BtS	band	Fol-mod	Long interval of uninteresting biotite schist. Most is fresh, with brassy metamorphic pyrite, but limonite veins/fractures with local halos appear at 135. Strong epidote from 139.7-140.2 (clots), associated with quartz and chlorite, buck quartz veins from 129-130		
		115.9 - 142.4	Replaces Felsics Weak Silicification	Replaces Mafics Weak Chlorite	Pervasive Weak Leucoxene	
142.4 - 148.3	BtS	band		Zone. Clay-silica altered biotite schist with foliation preserved throughout, alteration is strongest at zone core: 146.5-147.5. 1-2cm thick buck quartz veins 144.7-144.85. av. 1% disseminated limonite, 0.25% fracture-controlled hematite. Alteration and limonite form gradational shoulders over 10-20cm.		
		142.4 - 148.3	Pervasive Moderate Silicification	Pervasive Moderate Clay		
148.3 - 151.9	BtS	band	Fol-mod	Inter-zone biotite schist with a 20cm patch of alt+min at 149.9. Brassy metamorphic pyrite is partially to completely oxidized.0.25% fracture controlled limonite, trace frac hem.		
		148.3 - 151.9	Replaces Felsics Weak Silicification	Fracture Controlled Weak Clay		
151.9 - 159.2	BtS	band		Zone. Biotite schist. The core of the zone is from ~155-157, where a quartz vein/intensely silicified breccia(?) with sharp upper contacts is present at 155.8, 5cm clay-limonite matrix-supported fg schist clast breccia at 156.6. Probable cuttings accumulation at 157.1, right after a block and tube pull: is rounded rock pieces at uphole part and clay-rich, semi-hardened until solid rock is encountered at 157.2. av. 2% disseminated limonite, 1% hematite (2% from 155.5-156.7)		
		151.9 - 159.2	Patchy Moderate Silicification	Pervasive Moderate Clay		
159.2 - 167.0	MxF	augn	Fol-mod	Felsic dominant gneiss, beings with ~1m of strongly silicified and oxidized gneiss with 0.5% fracture controlled limonite, grading into nearly fresh gneiss with fracture controlled clay and local fracture controlled limonite and nearly completely oxidized brassy metamorphic pyrite.		
		159.2 - 167.0	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay		
167.0 - 180.6	BtS	band	Fol-mod	Mafic schist, dark, with local felsic bands 1-3cm wide. Local chlorie after biotite, silica after feldspar, epidote bands after felsic bands(?). Trace brassy metamorphic pyrite. 20% semi-oxidized brassy py from 178.95-179.03		
		167.0 - 180.6	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification	Replaces Felsics Weak Epidote	
180.6 - 189.2	FG	augn	Fol-mod	Felsic augen gneiss, moderate pervasive silicification, local strong QSP alteration (183.4-184.4, 185.15-185.4), weak disseminated limonite but stronger fracture controlled limonite (av. 0.25%). Alt-related brassy pyrite av. 0.2%.		
		180.6 - 189.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation	Fracture Controlled Weak Clay	
189.2 - 198.0	MxF	augn		Felsic dominant gneiss. Felsic bands are exhibit strong pervasive silica or strong pervasive clay over ~1m. Mafic bands exhibit strong chlorite ater biotite. Trace fracture controlled limonite, trace paritally oxidized metamorphic pyrite.		
		189.2 - 198.0	Patchy Strong Silicification	Patchy Strong Clay	Replaces Mafics Strong Chlorite	

Drill Log: CFD0283

Easting	584684.59	Hole Length	299 m	Prospect	Supremo T4-5	Drill Started	Aug 15, 2012	Comment
Northing	6974099.13	Azimuth	275 °	Target	T4-5	Drill Completed	Aug 19, 2012	
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CStewart	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1235.15 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 26.9	BtS	band	Fol-mod	Biotite-muscovite schist. Intervals of patchy albitization and silicification. 12.88-13.00m opaque quartz vein.
		6.0 - 26.9	Pervasive Moderate Silicification	Patchy Moderate Albite Patchy Moderate Sericitisation
26.9 - 33.1	BtS	band	Fol-mod	Biotite schist. Moderate patchy silicification, weak patchy albite, moderate clay alt. Oxidized (lim) enrichment from 28.85-29.84m. 0.1% fracture controlled lim.
		26.9 - 33.1	Patchy Strong Silicification	Patchy Moderate Albite Patchy Weak Sericitisation
33.1 - 35.4	BtS	band		Heavily altered (silicified) biotite schist. Moderate to strong pervasive silicification, moderate patchy albitization, weak patchy ser. 34.06-34.18m opaque quartz vein. Abundant lim stringers and quartz veinlets. 0.5% fracture controlled lim; 0.25% fracture controlled hm.
		33.1 - 35.4	Patchy Moderate Clay	Pervasive Moderate Silicification Patchy Moderate Sericitisation
35.4 - 39.4	BtS	band		Biotite schist. Oxidized and intense oxidation/clay alt from 35.4-36.23m. Below this interval moderate pervasive silicification, weak patchy clay, mod patchy ser. As up to 1550ppm@37m. 1.5% diss lim; 0.1% fracture controlled below. 0.25% fracture controlled hm.
		35.4 - 39.4	Patchy Strong Clay	Pervasive Moderate Silicification
39.4 - 64.0	MxF	band		Mixed felsic gneiss containing layers of biotite schist. Strong pervasive silicification, moderate chloritization replacing mafics, moderate patchy sericitization. 46.86-46.98m carbonate vein. Fractures and veinlets introducing hematite/lim staining. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
		39.4 - 64.0	Pervasive Strong Silicification	Replaces Mafics Moderate Chlorite Patchy Moderate Sericitisation
64.0 - 76.7	BtS	band	Fol-mod	Biotite schist contains mixed felsic gneiss. Strong pervasive silicification, moderate patchy sericitization. Top interval (63.96-70.65m) is oxidized by abundant lim and hm stringers, gradually decrease in lower interval. 0.25% fracture controlled to diss lim; 0.25% diss hm. 68-69m As = ~360ppm.
		64.0 - 76.7	Pervasive Strong Silicification	Patchy Moderate Sericitisation
76.7 - 83.9	MxF	band		Mixed felsic gneiss with biotite schist. Intervals of heavy fracturing. Moderate patchy silicification, moderate patchy clay, weak selective sericitization. Becomes less fractured after 80.92m. 0.25% diss lim; 0.1% fracture controlled hm. As=660ppm @77m.
		76.7 - 83.9	Patchy Moderate Silicification	Patchy Moderate Clay Selective Repl Weak Sericitisation
83.9 - 100.9	MxF	band		Mixed felsic gneiss with biotite schist. Interval transitions from strongly silicified felsic gneiss to clay-altered, ~chloritized biotite schist. Schist intervals are moderately fractured. As@85m = 3800ppm. 0.25% fracture controlled lim; 0.1% fracture controlled hm.
		83.9 - 100.9	Pervasive Strong Silicification	Selective Repl Moderate Clay Replaces Mafics Moderate Chlorite
100.9 - 107.0	MxF	band		Silicified felsic gneiss and biotite schist. Strongly fractured. Moderate patchy silicification, weak patchy albitization, weak patchy ser. Quartz and carb stringers. 1.0% fracture controlled lim; 0.25% fracture controlled hm. As@104-106m = ~330-730ppm.
		100.9 - 107.0	Patchy Moderate Silicification	Patchy Weak Albite Patchy Weak Sericitisation
107.0 - 114.6	FC	fgn		Altered dacite dike. Strong pervasive silicification. Contacts of dike and host rock are significantly altered (hm, lim, carb) and fractured while centre is silicified. 1.5% fracture controlled lim; 0.5% fracture controlled hm. Contains carb, qtz veinlets.
		107.0 - 114.6	Pervasive Strong Silicification	
114.6 - 166.9	MxF	augn	Fol-mod	Felsic-dominated, augen-bearing gneiss with biotite schist intervals. Strong pervasive silicification, weak patchy ser, weak chl replacing mafics (in short bt schist interval). Large opaque quartz vein (159.40-160.48m) with blebs of calcite and ankerite. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
		114.6 - 166.9	Pervasive Strong Silicification	Patchy Weak Sericitisation Replaces Mafics Weak Chlorite

166.9 - 180.8	MxF	band	Fol-mod	Felsic-dominated gneiss with intervals of biotite schist. Moderate patchy silicification, patchy chlorite replacing mafics, moderate sericitization along fractures. Greater abundance of lim + hm veins. 0.25% fracture controlled to diss lim; 0.1% fracture controlled hm.		
		166.9 - 180.8	Patchy Moderate Silicification	Replaces Mafics Moderate Chlorite	Selective Repl Moderate Sericitisation	
180.8 - 192.9	MxF	augn	Fol-str	Felsic-dominatd, augen-bearing gneiss. Strong pervasive silicification, weak patchy sericitization, weak patchy albitization. 0.1% fracture controled lim.		
		180.8 - 192.9	Pervasive Strong Silicification	Patchy Weak Sericitisation	Patchy Weak Albite	
192.9 - 209.2	MxF	augn	Fol-mod	Moderate Zone. Felsic-dominated augen bearing gneiss. Moderate pervasive silicification, weak patchy sericitization. Some intervals contain strong albitization. Abundant oxidized (lim+hm) veinlets. Heavily fractured from 196.24-197.88m. 1.0% fracture controlled lim; 0.25% fracture controlled hm. As=<310ppm in strongly oxidized section of zone.		
		192.9 - 209.2	Pervasive Moderate Silicification	Patchy Weak Sericitisation		
209.2 - 219.0	MxF	band	Fol-mod	Weak zone. Felsic-dominanted gneiss. Strong pervasive silicification, weak patchy sericitization, moderate albitization. Moderately fractured through weak zone. 0.25% fracture controlled lim; 0.25% fracture controlled hm; 0.1% sooty sulf.		
		209.2 - 219.0	Pervasive Moderate Silicification	Patchy Weak Sericitisation	Selective Repl Strong Albite	
219.0 - 229.8	MxF	augn		Moderate zone. Felsic-dominanted, augen bearing gneiss. Strong pervasive silicification, moderate patchy albitization, moderate patchy sericitization, weak clay alteration replacing feldspars. Qtz, ankerite, calcite veinlets throughout. Fw short (~10cm) intervals exhibiting schistosity. 1.0% fracture controlled lim; 0.5% fracture controlled hm. As up to 4300ppm for at 222m (for less than 1m), avg ~1000ppm.		
		219.0 - 229.8	Pervasive Strong Silicification	Patchy Weak Sericitisation	Selective Repl Moderate Albite	
229.8 - 234.8	MxF	band		Strong zone. Felsic-dominated gneiss. Strong pervasive silicification, weak patchy sericitization, weak patchy albitization. 0.5% fracture controlled lim, 0.25% fracture controlled hm, 1.5% diss sooty sulf. Few lim+ankerite veinlets.		
		229.8 - 234.8	Pervasive Strong Silicification	Patchy Moderate Albite	Patchy Moderate Sericitisation	
234.8 - 239.8	HU	fgrn		Strong zone. Hydrothermall unrecognizable, probably felsic-dominanted gneiss with possible dike (related to lower dike) though unable to ID or measure contacts. Moderate silicification, strong clay alteration. 3.0% diss lim; 1.5% diss hm. Calcite veining throughout top of interval. As=~300ppm-1.23%.		
		234.8 - 239.8	Pervasive Strong Silicification	Patchy Weak Sericitisation	Patchy Weak Albite	
239.8 - 243.5	Ylim	bx		Strong zone. Clast supported limonite breccia. Moderate patchy silicification, strong clay alteration. Interval is strongly fragmented, stongest at contact with lower lithology. 2.0% diss lim, 2.5% diss hm. Strong post-brecciation veining (cal, ank, ~qtz). As=~600-4500ppm.		
		239.8 - 243.5	Patchy Moderate Silicification	Patchy Strong Clay		
243.5 - 250.0	MxF	band		Strong zone. Banded felsic gneiss. Strong pervasive silicification, strong patchy sericitization, weak patchy albitization. Calcite veinlets. 0.25% fracture controlled lim at top of interval, strong fracture controlled hm staining (1.5%), grades into strong sooty sulfide zone (2.5%) at bottom of interval.		
		243.5 - 250.0	Patchy Moderate Silicification	Selective Repl Strong Clay		
250.0 - 257.4	MxF	band	Folded	Strong zone. Banded felsic gneiss. Strong pervasive silicification, moderate per sericitization, weak patchy albitization. Quartz veinins (~1cm thick) throughout. 2.0% sooty sulf. Brecciated from 251.65-251.73m. As=2300-5200ppm.		
		250.0 - 257.4	Pervasive Strong Silicification	Patchy Strong Sericitisation	Selective Repl Weak Albite	
257.4 - 269.7	IV	phyr		Porphyritic andesite dike. Moderate pervasive silicification, intervals of strong pervasive albitization, weak clay alt of feldspars, weak sericite veining. 0.1% fracture controlled lim, 0.25% hm at bottom of interval. Qtz vein at top of interval from 257.44-257.57m, underlying a short interval of clast supported breccia (contains clast of por andes.) from 257.57-257.81m.		
		257.4 - 269.7	Pervasive Strong Silicification	Pervasive Moderate Sericitisation	Patchy Weak Albite	
269.7 - 299.0	MxF	augn	Fol-mod	Felsic-dominated, augen bearing gneiss. Strong patchy silicification, moderate patchy sericitization, strong patchy albitization, weak patchy clay alteration. 0.1% fracture controlled lim, 0.1% fracture controlled hm. 281.35-281.44m strong clay alteration, oxidized.		
		269.7 - 299.0	Patchy Strong Silicification	Patchy Moderate Sericitisation	Patchy Strong Albite	

Drill Log: CFD0284

Easting	584872.01	Hole Length	272 m	Prospect	Supremo T5	Drill Started	Aug 16, 2012	Comment
Northing	6973556.63	Azimuth	273 °	Target	South T5	Drill Completed	Aug 19, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1139.32 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 10.0	OVb			
10.0 - 41.9	MxF	augn	Fol-mod	Mafic to felsic gneiss with uncommon interbands of biotite schist. Uncommon 5-40cm intervals of mineralized gneiss associated with (where partially oxidized) strong QSP alteration: bands exhibit 5-7% hematite and are associated with all XRF As hits in this unit. Augens become more apparent by 30m, and disseminated metamorphic brassy pyrite has been completely oxidized but much of the rock remains fresh. Average 0.1% disseminated limonite, 0.2% patchy hematite.
		10.0 - 41.9	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
41.9 - 61.0	FG	augn	Fol-mod	Felsic augen gneiss, exhibits slightly increased limonite that is disseminated ~2-4m patches with cores of unoxidized gneiss that contain 0.25% disseminated brassy metamorphic pyrite (av. trace). Silica after feldspar augens.
		41.9 - 61.0	Replaces Felsics Moderate Silicification	
61.0 - 64.4	MxF	augn		Felsic gneiss, nearly pervasively oxidized, with strong fracture controlled limonite from SOU-61.3 and pervasive 1.5% limonite associated with intense clay from 63.6-EOU (limonite av. 0.5%). Intermediate rock is strongly silicified and exhibits trace fracture controlled limonite.
		61.0 - 64.4	Pervasive Strong Silicification	Patchy Moderate Clay
64.4 - 92.6	MxM	augn	Fol-mod	Mafic dominant gneiss, limonite halos around fractures disappear after 73.7. Disseminated brassy metamorphic pyrite throughout (0.5%). Silica after fs augens, weak chlorite after biotite, rare epidote after fs in mafic bands.
		64.4 - 92.6	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Replaces Felsics Weak Epidote
92.6 - 115.0	MxF	band	Fol-wk	Felsic dominant gneiss, strongly silicified, moderate fracture controlled clay, 0.25% disseminated limonite, which grades to moderate pervasive clay by 101.67m along with an increase to 0.5% limonite. Rare unoxidized patches exhibit fresh brassy pyrite (0.1%). Rock becomes fresh from 109.1-110.7. Rare 10cm unconsolidated clay-limonite rich intervals at 100.7, 106.15, and 108.2.
		92.6 - 101.7	Pervasive Strong Silicification	Fracture Controlled Moderate Clay
		101.7 - 114.9	Pervasive Moderate Silicification	Pervasive Moderate Clay
		114.9 - 116.4	Pervasive Strong Talc	Pervasive Weak Clay
115.0 - 116.4	RU	lamn	Crenul	Unconsolidated to solid and crenulated biotite-talc shear zone with interbanded biotite schist. Exhibits 0.25% disseminated limonite (seems concentrated in specific bands). Upper contact is destroyed, lower contact exhibits typical weak gradational relationship.
116.4 - 124.5	MxM	band	Fol-mod	Unit begins with almost 5m of fresh biotite-amphibole schist cut by the odd limonite-carbonate vein. This grades into more fractured, clay altered, and limonitic mafic dominant gneiss from 120-122.15, then to moderately clay or silica altered mixed gneiss (silica after felsic, clay after mafic) with 2% limonite from 122.15-122.45 associated with a buck quartz vein. Av. 0.25% fracture-controlled limonite and trace brassy metamorphic pyrite.
		116.4 - 124.5	Fracture Controlled Weak Silicification	Patchy Weak Clay Replaces Felsics Weak Chlorite
124.5 - 126.5	BtS	band		Weak zone. Strongly to intensely clay altered biotite schist, clay is white (kaolinite?). Unit begins with ~7cm of clay-limonite matrix-supported subrounded silicified clast breccia that leads into consolidated mineralized biotite schist to 125.85, then onto unconsolidated intensely clay altered biotite schist. Clay wanes in last 5cm of unit. Av 0.75% limonite.
		124.5 - 126.5	Pervasive Strong Clay	Replaces Clasts Weak Silicification
126.5 - 128.1	BtS	band		Inter-zone. Strongly chloritic and clay-altered biotite schist with a 5mm breccia vein towards EOU. 0.25% disseminated limonite.
		126.5 - 128.1	Replaces Mafics Strong Chlorite	Pervasive Moderate Clay

128.1 - 130.0	YC	bxi		Strong zone. Chaotic cg angular silicified clast-supported silicified clast limonite matrix breccia, with local silicified clast crackle breccia and either vl clasts or solid bands of mineralized biotite schist. 3% limonite, 1.5% hematite
		128.1 - 130.0	Replaces Clasts Intense Silicification	Replaces Matrix Moderate Clay
130.0 - 132.2	IV	phyr		Zone. Plag porphyritic andesite, moderate pervasive QSP alteration, plag phenocrysts appear completely replaced by clay, 0.25% fracture controlled limonite. 5% sooty pyrite from 130.92-131.15, 131.37-131.5: these patches are flanked and/or cut by 2-10cm halos of 5% hematite. Average 0.5% sooty pyrite, 0.25% hematite
		130.0 - 132.2	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Replaces Felsics Moderate Clay
132.2 - 135.7	IV	phyr		Plag porphyritic andesite, unmineralized, with a preserved lower contact to unit below. Phenocrysts are completely silicified and appear to form a weak lineation, matrix is weakly chlorite altered. Rare disseminated brassy py. Limonite fractures and halos appear in the last 40cm of unit.
		132.2 - 135.7	Replaces Felsics Strong Silicification	Replaces Matrix Weak Chlorite
135.7 - 139.0	BtS	band		Zone. Unit beings with 15cm of BtS, then becomes a strongly mineralized clay-altered HU to 136.4 with 5% hematite and 1% limonite, then back to mineralized BtS. By 138m limonite gradually tapers off. Av. 2% limonite, 1% hematite.
		135.7 - 139.0	Pervasive Moderate Clay	
139.0 - 140.5	BtS	band	Fol-mod	Unmineralized biotite schist, grades into next unit. Exhibits moderate epidote alteration spatially associated with quartz veins with diffuse irregular boundaries. 0.25% disseminated brassy metamorphic pyrite.
		139.0 - 140.5	Patchy Moderate Epidote	Replaces Mafics Weak Chlorite
140.5 - 142.3	BtS	band	Fol-mod	Zonelet. 60% biotite schist, 40% sheared mafic rock. Unit exhibits moderate QS alteration where unoxidized with a 2mm vein of sooty pyrite at 141.47. 2% each limonite and hematite to 141.1, 0.25% fracture controlled limonite afterwards except in a 20cm band of RU at EOU. Average 1%.
		140.5 - 142.3	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation Replaces Mafics Weak Talc
142.3 - 148.9	BtS	band	Fol-mod	Similar unit to previous, but only exhibits 10% sheared mafic rock and a fraction of the mineralization - 0.25% fracture controlled limonite, and trace hematite after brassy metamorphic pyrite.
		142.3 - 148.9	Fracture Controlled Weak Clay	Replaces Felsics Weak Epidote Patchy Weak Talc
148.9 - 151.1	BtS	band		Weak zone. Biotite schist cut by two bull quartz veins (149.05-149.2, 150.1-150.21). Av. 1% limonite and 0.5% hematite are spatially related to the veins. Host schist is generally weakly clay altered (after fs porphroblasts).
		148.9 - 151.1	Replaces Felsics Moderate Clay	
151.1 - 183.6	MxM	band	Fol-mod	Long interval of biotite schist with 1-3m intervals of felsic gneiss, generally fresh and cut by rare limonite veins. Trace brassy metamorphic pyrite. 15cm-wide bull quartz vein at 168.4.
		151.1 - 183.6	Replaces Felsics Weak Silicification	Replaces Felsics Weak Epidote
183.6 - 203.6	MxF	augn	Fol-mod	Moderately to strongly silicified felsic dominant gneiss with 10-150cm intervals of 0.25% disseminated limonite related to patchy weak/moderate QSP alteration. Some of these patches exhibit strong clay. Contact with next unit is 15cm of clay-limonite matrix-supported silicified clast breccia with 2% limonite and 0.5% hematite.
		183.6 - 203.6	Pervasive Moderate Silicification	Fracture Controlled Weak Clay Patchy Weak Sericitisation
203.6 - 205.1	IV	fgrn		Very weakly porphyritic andesite dike, strongly fractured, trace fracture controlled limonite and hematite, moderate pervasive chlorite alteration.
		203.6 - 205.1	Pervasive Moderate Chlorite	
205.1 - 218.1	BtS	band	Fol-wk	Strongly chlorite+epidote altered biotite schist(?), ~1% disseminated magnetite is concentrated in chlorite rich bands. 0.25% disseminated brassy pyrite. Unit appears to be cut by chlorite+quartz+/- carbonate veins. Unit starts with 50cm of weakly limonitic rock grading into fresh schist.
		205.1 - 218.1	Pervasive Strong Chlorite	Patchy Strong Epidote
218.1 - 221.5	YC	bxm		Zone. Is alternating breccia and hydrothermally altered unrecognizable. From SOU-219 is a very dark brown (>10% hematite) to light orange HU with less altered windows of BtS and possible andesite. This grades into a dark brown hematite-clay matrix supported heterolithic breccia with clay altered and completely silicified clasts, to 219.54. This grades into a possible dacite to 220, which then becomes a clay-limonite matrix supported angular clay-altered clast breccia to 220.6. This grades into a pale coloured, intensely clay altered HU (possibly dacite again) to EOU. Av. 4% hematite, 2% limonite.
		218.1 - 221.5	Pervasive Strong Clay	Replaces Clasts Weak Silicification
221.5 - 223.4	BtS	band	Fol-wk	Similar unit to second previous, exhibits strong chlorite and intense epidote with 0.5% disseminated magnetite, trace frac lim.
		221.5 - 223.4	Pervasive Intense Epidote	Pervasive Strong Chlorite
223.4 - 247.8	MxF	augn	Fol-mod	Patchy oxidized felsic dominant gneiss, beings with ~4m of BtS and then nearly becomes an FG with only rare bands of BtS. Moderate silicification of felsic bands, trace fracture controlled limonite.
		223.4 - 247.8	Replaces Felsics Moderate Silicification	

247.8 - 252.8	BtS	band	Fol-mod	Weak zone. Biotite schist, exhibits moderate pervasive clay and local QSP alteration (where unoxidized), 0.5% disseminated limonite and av. 0.5% vein halo/stockwork hematite, which is matrix to local crackle breccia, concentrated from 251-EOU. Trace disseminated pyrite concentrated from 248.9-249.08 (unoxidized window) and oxidized pyrite visible from 249.75-EOU.	
		247.8 - 252.8	Pervasive Moderate Clay	Patchy Weak Silicification	Patchy Weak Sericitisation
252.8 - 272.0	MxF	band	Fol-mod	60% felsic gneiss and 40% biotite schist, fairly fresh with from 0.25% fracture controlled limonite from 257.3-258.3 and in the last 15cm of unit. Moderate silicification of felsics, moderate chlorite after mafics. Trace brassy metamorphic pyrite.	
		252.8 - 272.0	Replaces Felsics Moderate Silicification	Replaces Mafics Moderate Chlorite	

Drill Log: CFD0285

Easting	584711.21	Hole Length	272 m	Prospect	Supremo T4-5	Drill Started	Aug 19, 2012	Comment	Undercut of RC fence
Northing	6974049.7	Azimuth	272 °	Target	T5	Drill Completed	Aug 22, 2012		
Projection	UTM7-NAD83	Dip	-50 °	Geologist	CStewart	Core Size	NQ2		
Survey method	RTK GPS	Elevation	1230.68 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
		0.0 - 47.2	Pervasive Moderate Silicification	Patchy Moderate Albite
				Patchy Moderate Clay
6.0 - 47.2	BtS	biot		Biotite schist with intervals of felsic-dominated gneiss. Moderate pervasive to patchy silicification, moderate patchy albitization, moderate patchy clay, weak chloritization replacing mafics. 27.59-28.33m weak oxidized zone but no sig As values. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
47.2 - 53.6	BtS	band		Weak zone. Biotite schist with felsic-dominated gneiss. Moderate pervasive sericitization, moderate pervasive silicification, moderate patchy clay. 51.39-51.45m opaque qtz vein. Becomes prog more oxidized with increasing depth. 0.5% fracture controlled lim; 0.25% fracture controlled hm.
		47.2 - 53.6	Patchy Moderate Sericitisation	Pervasive Moderate Silicification
				Patchy Moderate Clay
53.6 - 55.8	MxF	augn		Felsic-dominated, augen bearing gneiss. Moderate patchy silicification, weak patchy clay, moderate patchy sericitization. 56.91-57.48 intense alt interval. 0.25% fracture controlled lim; 0.1% fracture controlled hm.
		53.6 - 55.8	Patchy Moderate Silicification	Patchy Weak Clay
				Patchy Moderate Sericitisation
55.8 - 76.3	MxF	band		Felsic-dominated gneiss with biotite schist. Moderate patchy silicification, moderate clay replacing feldspars, weak patchy sericitization. Intervals (~10cm) of intense fracturing. 0.1% fracture controlled lim.
		55.8 - 76.3	Patchy Moderate Silicification	Replaces Felsics Moderate Clay
				Patchy Weak Sericitisation
76.3 - 83.0	BtS	band		Biotite schist. Moderate clay alt, moderate albitization, mod chl replacing mafics. Intervals are unconsolidated and/or strong clay alt. 0.1% fracture controlled lim.
		76.3 - 83.0	Patchy Moderate Clay	Replaces Felsics Moderate Albite
				Replaces Mafics Moderate Chlorite
83.0 - 98.1	MxF	band		Felsic-dominated gneiss. Strong pervasive silicification, moderate patchy sericitization, moderate patchy clay. At top of lith some chloritization replacing biotite. 0.1% fracture controlled lim.
		83.0 - 98.1	Pervasive Strong Silicification	Patchy Moderate Sericitisation
				Patchy Moderate Clay
98.1 - 102.2	MxF	band		Felsic dominated gneiss. Strong patchy clay alt, moderate patchy sericitization, moderate patchy silicification. Quartz veining 101.89-102.05m.
		98.1 - 102.2	Patchy Strong Clay	Patchy Moderate Sericitisation
				Patchy Moderate Silicification
102.2 - 130.1	MxF	augn		Felsic-dominated, augen bearing gneiss with biotite schist. Moderate pervasive silicification, moderate patchy clay alt in schist intervals. 114.83-115.05m strongly oxidized. Multiple ~1-2cm-thick qtz veins in lower portion of interval. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
		102.2 - 130.1	Pervasive Moderate Silicification	Patchy Moderate Clay
130.1 - 132.7	HU	fgrn		Strong zone. Hydrothermally unrecognizable, prob felsic gneiss protolith. Strong pervasive clay alt, moderate patchy silicification. Strongly onconsolidated; graduates towards lower contact with dike. Oxidized veinlets at top of interval (130.40-130.69m). 3.0% diss lim; 1.5% diss hm.
		130.1 - 132.7	Pervasive Strong Clay	Patchy Moderate Silicification
132.7 - 135.1	FC	fgrn		Weak zone. Altered dike. Upper interval (132.71-134.52m) strongly oxidized and more fractured and exhibits moderate pervasive clay alt. Hm veinlets bleeding into dike. Lower interval (134.52-135.1m) strongly chloritized and mod silicification. .25% fracture controlled lim; 0.5% fracture controlled hm.
		132.7 - 135.1	Replaces Mafics Strong Chlorite	Patchy Moderate Clay
				Patchy Moderate Silicification
135.1 - 155.9	MxF	band		Felsic dominated gneiss. Strong pervasive silicification, moderate patchy sericitization, weak chloritization. 139.71-140.0m strong carb replacement. Minor carb veinlets. 0.1% fracture controlled lim; 0.1% fracture controlled hm.
		135.1 - 155.9	Pervasive Strong Silicification	Patchy Moderate Sericitisation
				Replaces Mafics Weak Chlorite

155.9 - 158.4	FG	band	Fol-wk	Zonelet. Felsic gneiss, strongly silicified to throughout, with strong silica and clay to from 157.13 to 157.31m coincident with strongest mineralization. Av. 1% both limonite and hematite.
		155.9 - 158.4	Pervasive Strong Silicification	Patchy Moderate Clay
158.4 - 187.4	MxF	augn	Fol-mod	Fresh felsic dominant gneiss, strongly silicified, with 1-1.5m intervals of moderate to strong QSP alteration associated with av. Trace sooty pyrite in stringers and rarely disseminated, along with rare alt-related brassy pyrite. Sulphide richest (1% sooty) in last metre of interval.
		158.4 - 187.4	Pervasive Strong Silicification	Fracture Controlled Moderate Sericitisation
187.4 - 208.4	MxF	augn	Fol-mod	Zone. Felsic dominant mixed gneiss, strong to locally intense silicification, 0.5% disseminated limonite and 2% disseminated hematite. Rare unoxidized windows exhibit disseminated sooty and alt-related brassy pyrite. Uncommon fracture controlled clay.
		187.4 - 208.4	Pervasive Strong Silicification	Fracture Controlled Moderate Clay
208.4 - 210.8	FG	augn	Fol-str	hematite stained augen gneiss
		208.4 - 210.8	Pervasive Strong Silicification	Pervasive Moderate Sericitisation
210.8 - 233.0	FG	augn	Fol-str	patchy weak zone. Augen gneiss with strong pervasive silicification, 0.1-0.75% limonite with minor sulfide facies phases. Strong sericite
		210.8 - 232.0	Pervasive Strong Silicification	Pervasive Strong Sericitisation
		232.0 - 249.0	Pervasive Strong Sericitisation	Pervasive Weak Clay Patchy Moderate Silicification
233.0 - 249.0	FG	augn	Fol-str	Zone. Gneiss with 1-2% disseminated limonite, weak-moderate pervasive clay, strong sericite, variable silicification.
249.0 - 255.8	YC	bx		Zone: silicified clast breccia, ~15% of interval is non-brecciated altered/mineralised FG with strong sericite, clay alteration. Bx is strongly clay altered with variable silicification and 2-4% limonite. white clay matrix YC and no limonite (possible orpiment as well) from 250.1-250.45, 253.7-254m. clasts are 0.5-1cm and milled. matrix supported.
		249.0 - 255.8	Pervasive Strong Clay	Pervasive Strong Sericitisation
255.8 - 256.4	MV			opaque bull quartz vein
		255.8 - 260.0	Pervasive Weak Sericitisation	Pervasive Weak Silicification Pervasive Weak Albite
256.4 - 260.0	FG	augn	Fol-str	gneiss, weak albite, sericite, silicification
260.0 - 270.2	IV	phyr		plagioclase porphyritic andesite dike
270.2 - 272.0	FG	augn	Fol-str	gneiss, weak albite, sericite, silicification
		270.2 - 272.0	Pervasive Weak Sericitisation	Pervasive Weak Silicification Pervasive Weak Albite

Drill Log: CFD0286

Easting	584812.99	Hole Length	197 m	Prospect	Supremo T5	Drill Started	Aug 19, 2012	Comment
Northing	6973554.69	Azimuth	268 °	Target	T5	Drill Completed	Aug 21, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1133.32 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 6.0	OVb			
6.0 - 32.3	MxM	band	Fol-mod	Biotite schist with local 5-50cm bands of felsic gneiss. Top 15m are vuggy but otherwise the mafics are fresh. Rare fracture controlled limonite, locally up to 0.5% over 50cm.
		6.0 - 32.3	Replaces Felsics Moderate Silicification	Replaces Mafics Weak Chlorite
32.3 - 34.7	BtS	band	Fol-mod	Weak zone. Biotite schist with local narrow porphyritic andesite dikes, exhibiting silica after mafic matrix in IV and bt in BtS, and clay after phenocrysts in dike and feldspars in BtS. 1% disseminated limonite, 0.25% hematite.
		32.3 - 34.7	Replaces Mafics Moderate Silicification	Replaces Felsics Moderate Clay
34.7 - 44.8	IV	phyr		Plag porphyritic andesite dike. Phenocrysts are strongly silicified, matrix is also silicified and weakly chloritic. Locally strong patchy clay present from 40.5-EQU. Trace fracture controlled limonite, trace partially oxidized brassy pyrite.
		34.7 - 44.8	Replaces Felsics Strong Silicification	Patchy Moderate Clay
				Replaces Mafics Weak Chlorite
44.8 - 47.4	IV	phyr		Zone. Fractured plag porphyritic andesite, strongly fractured to 47m, moderate pervasive clay alteration. Limonite and hematite increase downhole and average 1% and 0.25% respectively.
		44.8 - 47.4	Pervasive Moderate Clay	
47.4 - 48.9	YC	bxm		Zone. Silica-limonite matrix supported, coarse grained subrounded strong/intensely silicified clast breccia. First ~80cm or so exhibit 2% limonite and 3% hematite, last part of unit is strongly silicified and exhibits 0.75% limonite and trace fracture-controlled hematite. Average 1.5% each limonite and hematite.
		47.4 - 48.9	Pervasive Strong Silicification	Patchy Weak Clay
48.9 - 53.0	BtS	lamn	Fol-wk	Zone. Biotite schist, with rare 1-3cm breccias: 49.66 (bx vein) and 51.9 (also vein, is limonite-clay matrix supported fg subrounded silicified clast breccia). Exhibits weak pervasive clay, disseminated 1% limonite and 0.5% hematite.
		48.9 - 53.0	Pervasive Weak Clay	
53.0 - 74.2	FG	augn	Fol-mod	Felsic augen gneiss, moderate silica after feldspar, rare fracture controlled limonite. Disseminated pyrite appears by 62m, beforehand is oxidized.
		53.0 - 74.2	Replaces Felsics Moderate Silicification	Fracture Controlled Weak Clay
74.2 - 79.1	BtS	band	Fol-mod	weak zone. Biotite schist, moderately bleached (silica) and local clay+limonite after feldspar porphyroblasts. Unit is cut by common hematite-limonite veins. Common oxidized pyrite cubes throughout. Average 0.75% disseminated limonite, 0.25% vein halo hematite.
		74.2 - 79.1	Pervasive Moderate Silicification	Replaces Felsics Weak Clay
79.1 - 83.9	MxF	augn	Fol-mod	Felsic dominant gneiss exhibiting weak halos of limonite around fractures (0.1%), some fresh brassy metamorphic pyrite (0.2%), moderate silicification, and local vuggy layers in the more mafic material (which is otherwise fairly fresh).
		79.1 - 83.9	Replaces Felsics Moderate Silicification	
83.9 - 87.5	MxF	augn	Fol-mod	felsic dominant gneiss, strong pervasive silicification, 0.5% disseminated limonite, 0.2% disseminated hematite after pyrite
		83.9 - 87.5	Pervasive Strong Silicification	
87.5 - 120.7	MxM	band	Fol-mod	mafic schist with uncommon bands of felsic gneiss, minor vein halo limonite associated with local QSP alteration over 30cm from 90-92m, and last 2m of unit likely associated with contact with next unit. Coarse sooty pyrite associated with QSP alteration, but is arsenic-free. Thin aphanitic andesite at 93.66.
		87.5 - 120.7	Replaces Mafics Weak Chlorite	
120.7 - 126.1	IV	fgn		Nearly aphanitic andesite/diorite dike, with an interval of strongly silicified inter-intruded felsic gneiss from 122-122.91m. Trace fracture controlled limonite. Pervasive disseminated weak calcite.
		120.7 - 126.1	Pervasive Weak Calcite	

126.1 - 136.7	MxF	band	Fol-str	Felsic dominant augen gneiss, moderate perv silica after feldspar, weak perv seric, 0.25% fracture controlled limonite; 0.15% quartz veining (dominantly parallel-to-foliation); 0.15% carbonste veinlets (parallel and cross-cutting)		
		126.1 - 136.7	Pervasive Moderate Silicification	Pervasive Weak Sericitisation		
136.7 - 140.7	BtS	biot	Fol-str	Biotite schist; 0.5% FC limonite, with local region of strong limonite (2.5%, disseminated) from 138.00-138.16m; weak clay, chlorite, seric replacement after biotite; large qtz vein at 138.52m (~22cm wide); trace brassy pyrite associated with local qsp alteration		
		136.7 - 140.7	Pervasive Weak Clay	Pervasive Weak Sericitisation	Pervasive Weak Chlorite	
140.7 - 142.0	BtS	band		Zone. Biotite schist with local narrow fine grained andesite dyke at 141.07m (~10cm wide) exhibiting strong perv clay altn of IV, weak perv clay altn of gneiss; gneiss is brecciated at upper and lower contact with IV; 3% diss oxides (lim, hem)		
		140.7 - 141.1	Pervasive Moderate Clay			
		141.1 - 141.2	Pervasive Strong Clay			
		141.2 - 142.0	Pervasive Moderate Clay	Pervasive Weak Sericitisation		
142.0 - 143.5	Yx	bxi		Zone. Crackle breccia; brecciated BtS associated with (brecciated) quartz veining and intricate stockwork of Fe-carb and limonite veinlets; clasts are dominantly angular, non-rotated BtS, with rare regions of strongly silicified, rotated clasts with a limonite stockwork matrix; 2-3% diss oxides (lim, hem) with rare patches of diss sooty pyrite (0-1.5%)		
		142.0 - 143.5	Patchy Strong Silicification	Pervasive Moderate Clay	Patchy Weak Sericitisation	
143.5 - 143.8	Ylim	bxm		Zone (strong). Limonite-clay matrix breccia; clasts are mixed gneiss, angular,<0.5mm-1cm, weakly clay+seric altered and suspended within a strongly oxidic clay matrix; 3-4% diss limonite+hem		
		143.5 - 143.8	Replaces Matrix Intense Clay	Replaces Clasts Weak Sericitisation	Replaces Clasts Weak Clay	
143.8 - 144.7	YC	bxi		Silicified gneiss-clasts breccia with local mixed gneiss; clasts are angular, well rotated with stong perv silc altn; clasts are suspended within a weakly limonitic clay matrix with local region where matrix consists of intricate limonit Fe-carb stockwork. Local gneiss is highly fractured, strongly silicified, moderate sericitized		
		143.8 - 144.7	Replaces Clasts Strong Silicification	Replaces Mafics Strong Clay	Replaces Clasts Moderate Sericitisation	
144.7 - 148.7	MxF	band		Felsic mixed gneiss; mod-strong perv silc+seric altn; 0.75% limonite (diss, 0.15% anastamosing veinlets)		
		144.7 - 148.7	Pervasive Moderate Silicification	Pervasive Moderate Sericitisation		
148.7 - 159.8	BtS	biot	Fol-str	Biotite schist; 0-0.25% FC limonite; moderate perv chlor+seric, weak perv calcite and 0.15% calcite+Fe-carb veinlets		
		148.7 - 159.8	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite	Pervasive Weak Calcite	
159.8 - 175.6	BtS	biot		Biotite schist; possible shear and fault zone; broad regions of highly fractured rubble resembling; highly deformed foliation with local crenultion; moderate perv clay replacement of biotite; local moderate perv calcite altn; 0.15% fe-carb veinlets; local mod perv silc+seric of more consolidated regions; 0.15% FC limonite		
		159.8 - 175.6	Pervasive Moderate Clay	Patchy Moderate Sericitisation	Pervasive Weak Silicification	
175.6 - 197.0	MxM	biot	Fol-str	Biotite-rich mixed gneiss; rare narrow regions of highly fractured rubble associated with moderate perv clay altn of biot; mod perv seric+ chlorite; trace FC limonite		
		175.6 - 197.0	Patchy Moderate Clay	Pervasive Moderate Chlorite	Pervasive Moderate Sericitisation	

Drill Log: CFD0287

Easting	584752.6	Hole Length	104 m	Prospect	Supremo T5	Drill Started	Aug 22, 2012	Comment
Northing	6973552	Azimuth	273 °	Target	South T5	Drill Completed	Aug 23, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	HGrimson	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1126.59 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 7.8	OVb			Casing
7.8 - 24.3	BtS	biot	Fol-str	Biotite schist; local pervasive clay (after biot), mod perv chlorite, sericite (after biot, defining foliation); trace FC hematite
		7.8 - 24.3	Patchy Moderate Clay	Pervasive Moderate Sericitisation Pervasive Moderate Chlorite
24.3 - 28.4	MsS	musc	Fol-str	Weakly mineralized Muscovite schist (altered biotite schist); strong perv seric (after biot, defines foliation), mod perv+FC clay altn; 1.5-2.5% diss limonite
		24.3 - 28.4	Pervasive Moderate Clay	Selective Repl Strong Sericitisation
28.4 - 58.9	MxM	biot	Fol-str	Biotite-schist rich mixed gneiss with rare narrow bands of felsic gneiss; Narrow IV intrusion (from 33.08-33.28m). IV: fine grained, aphanitic, bleached by clay, 0.25% FC limonite; MsS: local weak perv clay (after biot), mod perv chlorite (after biot), mod foliation defining seric (after biot); 0-0.25% FC limonite (1.5% diss lim+hem from 55.3-55.7m)
		28.4 - 58.9	Pervasive Moderate Sericitisation	Pervasive Moderate Chlorite Patchy Moderate Clay
58.9 - 62.0	IV	fgrn		Mafic andesite dyke with local mixed gneiss from 60.52-60.84m; Andesite is fine grained, aphanitic, fresh; weak perv clay and chlorite altn; trace FC limonite
		58.9 - 62.0	Pervasive Weak Clay	Pervasive Moderate Chlorite
62.0 - 63.8	IV	fgrn		Mafic andesite dyke; highly fractured with large intervals of rubble and st-int perv clay altn; 0.25% FC lim+hem; consolidated pieces display anastomosing oxide (hem stained lim) veinlets; mod perv chlorite, seric, clay altn
		62.0 - 63.8	Pervasive Strong Clay	Pervasive Moderate Chlorite Pervasive Moderate Sericitisation
63.8 - 64.4	IV	fgrn		Andesite dyke; fine grained, aphanitic, bleached with anastomosing oxide veinlets (lim+hem); mod perv clay altn; 1% diss and FC lim
		63.8 - 64.4	Pervasive Moderate Clay	
64.4 - 64.6	Ylim	bxi		Zone. Limonite clay matrix breccia with andesite clasts (intense perv clay altn of andesite leaving angular, fine-med grained, non rotated andesite clasts suspended within a strongly limonitic clay matrix. 3-4% diss lim+hem
		64.4 - 64.6	Pervasive Intense Clay	
64.6 - 75.0	MsS	musc		Zone (weak-moderate). Muscovite schist; foliation defined by muscovite and seric (after biotite); highly fractured with common narrow unconsolidated regions of strong perv clay altn (resembles ylim); end of interval: broad quartz veins (from 73-74.97m: ~85% buck quartz with limonite selvage); 1.5-2% diss oxides (lim+hem)
		64.6 - 75.0	Selective Repl Strong Sericitisation	Patchy Strong Clay
75.0 - 80.0	MxF	augn		Mixed augen-bearing gneiss; mod-strongly fractured; mod sericite altn of biotite, defines foliation; weak-mod FC clay altn; frequent quartz veining, sometimes causing discrete brecciation of gneiss; 0.75-2% diss lim+weak hem
		75.0 - 80.0	Selective Repl Moderate Sericitisation	Fracture Controlled Moderate Clay
80.0 - 93.1	MxF	augn		Mixed augen-bearing gneiss; mod-strongly fractured; mod sericite altn of biotite, defines foliation; weak patchy silc, weak-mod FC clay altn; 0-0.25 FC lim
		80.0 - 93.1	Pervasive Moderate Sericitisation	Fracture Controlled Weak Clay Patchy Weak Silicification
93.1 - 94.7	FG	augn		Felsic gneiss; highly fractured with localized intense clay altn causing brecciation (more durable clasts sit in clay matrix); mod patchy silc altn, weak perv seric altn; 0.15% FC lim
		93.1 - 94.7	Patchy Strong Clay	Patchy Moderate Silicification Pervasive Weak Sericitisation
94.7 - 104.0	BtS	biot		Biotite schists; moderate pervasive clay, chlorite, seric altn (after biot); 0.15% FC lim
		94.7 - 104.0	Pervasive Moderate Clay	Pervasive Moderate Chlorite Pervasive Moderate Sericitisation

Drill Log: CFD0289

Easting	584182.2	Hole Length	323 m	Prospect	Supremo T4	Drill Started	Aug 24, 2012	Comment	Redrill of CFD0288 on Aug 23, 2012. No logging on CFD0288 and abandoned at 26m (only 15% recovery and azimuth of 280°)
Northing	6973299.55	Azimuth	272 °	Target	T4	Drill Completed	Aug 29, 2012		
Projection	UTM7-NAD83	Dip	-45 °	Geologist	EScheel	Core Size	NQ2		
Survey method	RTK GPS	Elevation	996.43 mASL						

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 16.0	OVb			
16.0 - 22.9	BtS	band		Biotite schist, exhibits locally strong pale epidote alteration (after more felsic bands), hematite after former brassy metamorphic pyrite, trace fracture controlled limonite. Unit becomes strongly fractured by 20.5m associated with clay.
		16.0 - 22.9	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Epidote
22.9 - 26.8	HU	mass		Zone. Hydrothermally altered unrecognizable intermixed with biotite schist. Hu locally appears like a breccia, but still exhibits foliation when broken and exhibits strong to intense clay alteration and up to 0.5% limonite, whereas the schist exhibits moderate patchy clay alteration and 2% limonite with 1% hematite. Av 1.5% lim, 0.5% hem.
		22.9 - 26.8	Patchy Strong Clay	
26.8 - 31.3	BtS	band		Patchy zone. Biotite schist with 0.25% disseminated limonite and two 10-20cm patches of 2% limonite and two 5 cm patches of intense clay associated with 0.5% limonite. Unit is generally grungy. Av. 0.5% fracture controlled limonite.
		26.8 - 31.3	Fracture Controlled Moderate Clay	
31.3 - 49.0	BtS	band	Fol-mod	Biotite schist with an interval of augen-bearing FG from 41.4-43m. Unit is weakly to moderately fractured with 0.2% associated limonite. Although generally fresh, disseminated brassy metamorphic pyrite is completely oxidized (trace hematite).
		31.3 - 49.0	Replaces Mafics Weak Chlorite	Replaces Felsics Weak Silicification Patchy Weak Epidote
49.0 - 56.9	MxM	augn	Fol-wk	Mafic schist and augen-bearing FG, all weakly QS altered, with 0.2% vein halo limonite. Trace disseminated hematite after brassy pyrite.
		49.0 - 56.9	Pervasive Weak Silicification	Pervasive Weak Sericitisation
56.9 - 61.4	BtS	band		Weak zone. Biotite schist with consolidated silica-clay-limonite matrix-supported heterolithic medium grained silicified clast breccia from SOU-57.2m. Unit contains a nearly barren interval of strongly silicified schist from 58.15-59.5m. Unit generally exhibits moderate pervasive silica and weak pervasive clay alteration with av. 0.75% limonite and trace hematite.
		56.9 - 61.4	Pervasive Moderate Silicification	Pervasive Weak Clay
61.4 - 80.3	MG	augn		Mixture of pink felsic gneiss, biotite schist, and biotite schist with augens (mafic gneiss). Unit exhibits patches of weak pervasive QS alteration over 1-3m and either clay or silica after fs augens. Limonite occurs as fractures/veins or locally disseminated over 0.2-1m, av. 0.5%.
		61.4 - 80.3	Replaces Felsics Moderate Silicification	Replaces Felsics Weak Clay Patchy Weak Sericitisation
80.3 - 85.5	BtS	bclst		Zone. Biotite schist locally grading to mafic gneiss exhibiting a 10cm carbonate-limonite-chalcedony matrix supported mg angular silicified clast breccia at 82 and a 3cm carbonate-chalcedony-limonite matrix supported mg angular BtS clast breccia at 84.3. Unit exhibits 3% limonite and 2% hematite with rare unoxidized windows of sooty pyrite (trace) over 0.5-1m intervals. Av 2% limonite and 1% hematite.
		80.3 - 85.5	Pervasive Moderate Silicification	Pervasive Weak Clay
85.5 - 100.5	MxM	band	Fol-mod	Fresh mafic schist (likely AmbtS) and pink felsic gneiss exhibiting rare fracture controlled clay and 0.25% disseminated brassy metamorphic pyrite. Moderate chlorite after bt/am, strong silica after felsic gneiss, weak leucoxene in mafic bands.
		85.5 - 100.5	Replaces Mafics Moderate Chlorite	Replaces Felsics Strong Silicification
100.5 - 101.4	MxM	band	Fol-wk	Weakly mineralized mafic gneiss; local weak perv+fracture controlled clay, moderate alteration of biot by sericite; weak leucoxene; 1-1.5% diss limonite
		100.5 - 101.4	Replaces Mafics Moderate Sericitisation	Patchy Weak Clay Replaces Mafics Weak Leucoxene

101.4 - 102.6	YC	bx			Zone. Silicified clast breccia with local limonite-clay matrix breccia; silicified clast breccia: clasts are irregular in size (fine-course grained), angular, rotated and non-rotated regions; intensely silicified, fabric obliterated (protolith of clasts most likely local mixed gneiss but could in fact be brecciated quartz vein); clasts are locally matrix-supported (generally in fine-grained regions) and clast-supported (generally in coarser-grained regions); matrix varies from weakly-strongly limonitic cement with local limonitic clay regions. 2-2.5% diss oxides (lim+hem)
		101.4 - 102.6	Replaces Clasts Intense Silicification	Replaces Matrix Weak Clay	
102.6 - 127.6	MxM	band	Fol-str		Fresh mafic schist (likely Bts) and pink felsic gneiss exhibiting rare fracture controlled clay and 0.25% disseminated brassy metamorphic pyrite. Moderate chlorite after bt/am, strong silica after felsic gneiss; weak leucoxene at end of interval, as well as 0.15% limonite veinlets- oblique to foliation
		102.6 - 127.6	Replaces Felsics Strong Silicification	Replaces Mafics Moderate Chlorite	Replaces Mafics Weak Leucoxene
127.6 - 131.0	BtS	biot	Fol-str		Zone. Transitional facies mineralization with interspersed non-mineralized BtS; sulphide facies mineralization associated with strng qsp alteration; 0-4%oxides over interval (lim+hem); 0-4% sulphides over interval (sooty pyrite); weak leucoxene alteration, mod chlorite (after biot); 0.25% chalcedonic quartz veins with limonite selvage associated with mineralization: sooty sulphide vein halos radiate from veins (range from 1-15cm wide on both sides)
		127.6 - 131.0	Pervasive Strong Sericitisation	Replaces Mafics Moderate Chlorite	Pervasive Weak Leucoxene
131.0 - 134.7	BtS	biot	Fol-str		Biotite schist; 0.25% disseminated brassy metamorphic pyrite. Moderate chlorite after bt/am, weak calcite- perv and 0.15% cross-cutting calcite veinets
		131.0 - 134.7	Replaces Mafics Moderate Chlorite	Pervasive Weak Calcite	
134.7 - 135.8	YO	bx			Zone.Breccia with local biotite schist; transitional facies mineralization associated with intense qsp alteration. Clasts are dominantly med-grained, angular and rotated, composed of (probable) BtS intensely altered by sericite and silica (fabric is not discernable); local opaque quartz clasts; clasts are suspended within an intensely seric+silica altered matrix and locally within chalceonic quartz stockwork; 0-4% disseminated sooty sulphides, 0-4% disseminated lim+hem
		134.7 - 135.8	Pervasive Intense Sericitisation	Pervasive Strong Silicification	
135.8 - 152.0	BtS	biot	Fol-str		Biotite schist; 0.25% disseminated brassy metamorphic pyrite. Moderate chlorite after bt/am, weak perv seric, calcite- perv and 0.15% cross-cutting calcite veinets; 0.15% FC limonite; local moderate FC+patchy clat altn of biot in areas of moderately fractured regions
		135.8 - 152.0	Pervasive Moderate Chlorite	Pervasive Weak Sericitisation	Pervasive Weak Calcite
152.0 - 164.7	BtS	biot	Fol-str		Biotite schist, patchy weak mineralization; local regions of strong pervasive clay; mod per chlorite; patchy qsp altn; 0-2.5% pervasive lim+hem (average ~0.75% over interval); 0-0.75% diss sooty pyrite (ave ~0.15% over interval)
		152.0 - 164.7	Patchy Strong Clay	Patchy Moderate Sericitisation	Patchy Weak Silicification
164.7 - 170.2	BtS	lamn	Fol-str		Weakly mineralized biotite schist; great loss of biotite due to strong selective replacement of sericite; mod clay altn- perv and FC- causing local discrete narrow brecciation; 2% diss oxides (lim+weak hem)
		164.7 - 170.2	Pervasive Strong Sericitisation	Pervasive Moderate Clay	
170.2 - 171.9	YO	bxi			Brecciated quartz vein causing brecciation of local BtS; opaque, highly microfractured quartz vein with limonite selvage; local intensely silicified BtS clasts- angular, rotated, ~0.5-1.5cm, dominantly clast supported. Local regions of quartz-vein clasts suspended within a quartz-fragment-limonite-cement matrix; 0.5-0.75% FC limonite
		170.2 - 171.9	Replaces Clasts Intense Silicification		
171.9 - 173.1	MxF	augn	Fol-wk		Felsic dominant gneiss; strongly silicified (perv), mod seric (after felsic); 0.75% oxides (lim+FC hem)
		171.9 - 173.1	Pervasive Strong Silicification	Replaces Felsics Strong Sericitisation	
173.1 - 174.7	MxF	band	Fol-mod		Zone. Mixed gneiss; strong perv qsp alteration; local weak perv clay altn; dominantly oxide facies mineralization with narrow sulphide rich windows; 0-4% diss oxides (lim+hem, average 3% over interval), 0-4% diss sooty sulphides (pyrite, average 0.25% over interval)
		173.1 - 174.7	Pervasive Strong Silicification	Pervasive Strong Sericitisation	Pervasive Weak Clay
174.7 - 174.8	Ylim	bxm			Limonite-clay matrix breccia with fine grained, rounded+rotated, strongly silicified mixed gneiss clasts suspended within a moderately limonitic clay matrix. 2% diss limonite
		174.7 - 174.8	Replaces Matrix Intense Clay	Replaces Clasts Strong Silicification	
174.8 - 184.0	MxF	biot	Fol-mod		Mixedd gneiss; mod silc altn of felsics; 0.25% lim (FC+0.15% limonite veinlets cross-cutting and parallel-to-foliation);
		174.8 - 184.0	Pervasive Moderate Silicification		

184.0 - 204.0	MxF	band	Fol-str	Zone (weak-mod); broad windows of weak-mod mineralization with discrete intervals of non-mineralized mixed gneiss (~25% of unit); strong perv qsp alteration; local moderate weak perv clay often associated with discrete highly fractured regions; dominantly oxide facies mineralization with narrow sulphide rich windows, until the end of the interval: from 199.82-204.02m- sulphide dominant; 0-3% diss oxides (lim+hem, average 2% over interval), 0-3% diss sooty sulphides (pyrite, average 0.25% over interval)		
204.0 - 232.2	MxF	band		184.0 - 204.0	Pervasive Strong Sericitisation	Patchy Moderate Silicification
					Mixed gneiss with broad regions of BtS; moderate discrete regions that are highly fractured with monderate FC clay and enrichment of oxides (lim+hem); 0.5% FC lim+hem over interval; weak patchy qsp alteration with trace diss sooty pyrite	
				204.0 - 232.2	Fracture Controlled Moderate Clay	Patchy Moderate Sericitisation
						Patchy Moderate Silicification
232.2 - 236.3	MxF	band		Zone; Transitional facies mineralization- dominantly sulphide facies- with interspersed non-mineralized BtS; sulphide facies mineralization associated with strong qsp alteration; 0-4% oxides (FC lim+hem, 1% average over interval); 0-4% sulphides over interval (diss sooty pyrite, average 2.5% over interval); discrete region of intense pervasive oxidic clay at 233.9-234m		
				232.2 - 236.3	Pervasive Strong Sericitisation	Pervasive Strong Silicification
						Patchy Moderate Clay
236.3 - 271.6	MxM	augn	Fol-str	variably altered biotite rich augen gneiss. augens are qtz + feldspar. discrete zones of intense silicification. strong sericite overprinting foliation. 0.25% fracture controlled limonite. tension gashes filled with chlorite veinlets at 251-252m. late carbonate veins. bleach with moderate clay alteration, strong sericite over foliation, fracture controlled and patchy disseminated limonite (0.5%) at 239-242m. 1% disseminated hematite with strong silicification from 261.45-263m.		
				236.3 - 261.5	Pervasive Moderate Silicification	Selective Repl Strong Sericitisation
				261.5 - 263.0	Pervasive Strong Silicification	Selective Repl Moderate Sericitisation
				263.0 - 271.6	Pervasive Moderate Silicification	Selective Repl Strong Sericitisation
271.6 - 271.8	Ycarb	bxi		coherent carbonate matrix breccia with hairline sooty pyrite veinlets throughout. polymictic clasts of adjacent dike and wallrock. crosscutting core at 45deg TCA. matrix consists of silica-sericite-pyrite later? brecciated by carbonate.		
				271.6 - 271.8	Replaces Matrix Weak Silicification	Replaces Matrix Weak Sericitisation
271.8 - 272.0	IV	mass		fine grained intermediate dike with rare mm scale plag phenocrysts. large massive 3m bleb of pyrite with a halo of fine grained silica-sericite.		
				271.8 - 272.0	halo Moderate Sericitisation	halo Moderate Sericitisation
272.0 - 283.8	MxM	augn	Fol-str	biotite rich gneiss. local bleaching composed of strong silicification and fine grained sericite. strong sericite overgrowing foliation throughout. hematite oxidation of biotite throughout. 280.4-282.19: low angle TCA fine grained ?sooty quartz or smokey quartz veins/veinlets with carbonate selvage; brassy pyrite within the veins; this is associated with the local bleaching.		
				272.0 - 273.7	Pervasive Strong Silicification	Pervasive Strong Sericitisation
				273.7 - 277.9	Pervasive Moderate Silicification	Selective Repl Strong Sericitisation
				277.9 - 282.2	Pervasive Strong Silicification	Selective Repl Strong Sericitisation
				282.2 - 283.8	Patchy Moderate Silicification	Selective Repl Strong Sericitisation
283.8 - 289.5	MxF	augn	Fol-str	Zone. felsic dominated gneiss. Fine grained sericite and silica infilling around feldspar augens with ?fine grained sooty pyrite. Variably silicified. Fracture controlled limonite (0.25%). Sooty pyrite veinlets from 284-285m. Between 284-285m the foliation appears to steepen (is back to normal following that interval).		
				283.8 - 289.5	Patchy Moderate Silicification	Selective Repl Strong Sericitisation
289.5 - 290.0	YO	bxi		Zone. sooty sulfide clay matrix clast supported breccia. clasts are not rotated (crackle texture). 1% sooty sulfides. moderately silicified, sericitized clasts of gneiss		
				289.5 - 290.0	Replaces Clasts Moderate Silicification	Selective Repl Moderate Sericitisation
290.0 - 291.5	YO	bxv		Zone. transitional facies. Matrix supported polymictic breccia. Coherent, silicified. Subangular to angular rotated clasts of silicified, sericitized gneiss range from 2-20mm and contain fine grained sooty pyrite. Matrix composed of white clay, sericite + limonite/sooty pyrite (3%). Late carbonate veining		
				290.0 - 291.5	Replaces Clasts Strong Silicification	Pervasive Strong Sericitisation
						Replaces Matrix Moderate Clay

291.5 - 292.9	YO	bxm		Zone. transitional facies. Polymictic clast supported breccia. Subangular to angular clasts of silicified and sericitized gneiss and quartz vein material. 0.5% limonite. 292.63-292.8. 1% sooty sulfide inlets trending parallel to foliation with fine grained sericite and silica. Matrix is composed of white clay + silica. Late carbonate veining	
		291.5 - 292.9	Replaces Clasts Strong Silicification	Selective Repl Moderate Sericitisation	Replaces Matrix Moderate Clay
292.9 - 294.4	FG	bxi	Fol-str	Weak zone. bleached with pervasive silicification and fine grained sericite. crosscut by multiphase carbonate-silica veins. fracture controlled limonite with local disseminated limonite (0.5%). fine grained brassy pyrite. sooty pyrite-carbonate vein 293.9m.	
		292.9 - 294.4	Pervasive Moderate Silicification	Pervasive Strong Sericitisation	Patchy Weak Clay
294.4 - 296.0	RQM	mylo	Fol-str	strongly sericitic; foliation defined by wispy quartz ribbons. fracture controlled limonite (0.25%). multiphase quartz carbonate veins. variably silicified	
		294.4 - 296.0	Patchy Weak Silicification	Pervasive Strong Sericitisation	
296.0 - 296.1	YO	bxi		clast supported monomictic breccia. angular nonrotated clasts consist of weakly silicified sericitic fg. matrix consists of clay-limonite (0.75%) with vugs filled with carbonate.	
		296.0 - 296.1	Replaces Clasts Weak Silicification	Selective Repl Weak Sericitisation	Replaces Matrix Weak Clay
296.1 - 299.2	RQM	mylo	Fol-str	strongly sericitic with feldspar augens. mafic minerals are chloritic. possible mariposite from 298.34-298.37. foliation defined by wispy quartz ribbons. disseminated leucoxene throughout. blebby brassy pyrite	
		296.1 - 311.6	Patchy Strong Silicification	Pervasive Strong Sericitisation	Replaces Mafics Strong Chlorite
299.2 - 305.6	MxF	augn	Fol-str	Zone. augen bearing mixed felsic dominant gneiss. strongly sericite altered and silicified. transitional facies(>80% sulfide). fracture controlled limonite (0.5%). fine grained sooty pyrite infilling along foliation as well as in hairline veins that are crosscutting at 20 deg TCA. late multiphase carbonate+silica veining with sooty pyrite along selvages. trace brassy pyrite along foliation. local clay alteration along fracture planes. 1cm wide carbonate vein from 299.3-300.35m with sooty quartz along selvage subparallel TCA.	
305.6 - 308.8	MxF	augn	Fol-str	strongly sericitic and silicified augen bearing mixed gneiss with vuggy carbonate veins crosscutting at 45 TCA throughout. fracture controlled limonite (0.5%). fracture controlled clay alteration.	
308.8 - 309.1	YC	bxm		coherent discrete polymictic breccia one. angular 1-6mm clasts are silicified wallrock (fg and bts) and vein material. 50/50 matrix and clasts. matrix supported. matrix is fine grained silica and sericite. 0.5% limonite	
309.1 - 311.6	MxF	augn	Fol-str	strongly sericitic and silicified augen bearing mixed gneiss with vuggy carbonate veins crosscutting at 45 TCA throughout. fracture controlled limonite (0.5%). fracture controlled clay alteration.	
311.6 - 323.0	AmBtS		Fol-str	mafic schist with possible amphibole. moderately chloritic. well developed foliation. disseminated leucoxene. trace disseminated pyrite. patchy epidote. carbonate throughout. local silicification. EOH	
		311.6 - 323.0	Pervasive Weak Chlorite	Patchy Moderate Epidote	Pervasive Weak Calcite

Drill Log: CFD0290

Easting	584272.03	Hole Length	366.44 m	Prospect	Supremo T4	Drill Started	Aug 29, 2012	Comment
Northing	6973299	Azimuth	274 °	Target	T4	Drill Completed	Sep 04, 2012	
Projection	UTM7-NAD83	Dip	-45 °	Geologist	AFage	Core Size	NQ2	
Survey method	RTK GPS	Elevation	1005.22 mASL					

Lithology and Alteration

Interval	Lith	Texture	Deformation	Comments
0.0 - 9.0	OVB			
9.0 - 45.5	MxM	0.0 - 27.9 augn 27.9 - 30.2 30.2 - 68.3	Replaces Mafics Weak Chlorite Pervasive Moderate Silicification Replaces Mafics Weak Chlorite	Pervasive Weak Sericitisation Pervasive Weak Sericitisation Fracture Controlled Weak Clay casing to 9m. mafic dominant weakly chloritic augen bearing mixed gneiss. discrete zones of fracture controlled limonite. sericite overgrowing foliation throughout. fractured bull quartz veins. locally silicified. from 29-30.15 strongly silicified with pervasive clay alteration and 0.5% disseminated and fracture controlled limonite. Pervasive Moderate Clay Fracture Controlled Moderate Clay
45.5 - 47.0	IV	fgrn		fine grained aphaninitic intermediate dike. rare plag phenocrysts. carbonate veining throughout. weakly chloritic. strongly clay altered and weakly limonitic along basal contact (last 20cm)
47.0 - 49.6	MxF	mgrn	Fol-str	broken ground - strongly fractured. Clay alteration on fracture planes. Limonite is fracture controlled (0.5%). Sericite overgrowing foliation. Rare mm scale limonite veins.
49.6 - 49.8	IV	fgrn		fine grained aphaninitic intermediate dike. rare plag phenocrysts. carbonate veining throughout. weakly chloritic.
49.8 - 53.0	MxF	mgrn	Fol-str	strongly fractured. Local silicification. Weak chlorite alteration of biotite. Minor clay alteration of feldspar and on fracture planes. sericite overgrowing foliation. fracture controlled limonite (0.5%)
53.0 - 53.3	IV	fgrn		fine grained aphaninitic intermediate dike. rare plag phenocrysts. carbonate veining throughout. weakly chloritic.
53.3 - 67.0	MxM	mgrn	Fol-str	strongly fractured. limonite on fracture planes (0.25%). clay alteration of feldspar. sericite on foliation. yo clay polymictic clay matrix immature breccia with weak limonite (0.5%). 59.19-59.5)
67.0 - 67.4	IV	fgrn		fine grained aphaninitic intermediate dike. rare plag phenocrysts. carbonate veining throughout. weakly chloritic. hairline limonite veins on contacts
67.4 - 71.5	MxM		Fol-str	variably altered mixed gneis and schist. chlorite alteration through biotite schist areas. clay alteration locally pervasive. fracture controlled limonite, locally disseminated. locally silicified in the more felsic intervals. from 68.33 to 69.6 is strongly clay altered with 1% disseminated limonite. carbonate veins throughout.
		68.3 - 69.6 69.6 - 78.1	Pervasive Strong Clay Replaces Mafics Weak Chlorite	Replaces Mafics Weak Chlorite Pervasive Weak Sericitisation Fracture Controlled Moderate Clay
71.5 - 71.8	IV	fgrn		fine grained aphaninitic intermediate dike. rare plag phenocrysts. carbonate veining throughout. weakly chloritic. Weak fabric
71.8 - 78.1	MxM		Fol-str	variably altered mixed gneis and schist. chlorite alteration through biotite schist areas. clay alteration locally pervasive. fracture controlled limonite, locally disseminated. locally silicified in the more felsic intervals. from 68.33 to 69.6 is strongly clay altered with 1% disseminated limonite. carbonate veins throughout.
78.1 - 80.0	BtS		Fol-str	intensely clay altered, secondary silicification, pervasive disseminated limonite (1.5%). relict foliation visible through alteration
		78.1 - 80.0	Pervasive Strong Clay	Pervasive Weak Silicification
80.0 - 95.5	MxM		Fol-str	moderately chlorite altered. pervasive silicification, clay on fracture planes. fracture controlled limonite (0.25%). sericite overgrowing foliation. from 93.5-94.3 : zone containing augens and 1-4mm oxidised blebby-euhedral pyrite.
		80.0 - 145.5	Replaces Mafics Moderate Chlorite	Pervasive Weak Sericitisation Fracture Controlled Moderate Clay
95.5 - 145.0	BtS		Fol-str	schist, moderately chloritic, patchy epidote. trace disseminated brassy pyrite. local fracture controlled clay alteration. 2mm wide carbonate veins crosscutting perpendicular to foliation throughout. moderately fractured increasing downhole. fracture controlled limonite (0.25%)

145.0 - 152.0	MxM		Fol-str	transitioning into a more felsic unit. strongly bleached zones with strong clay replacement of feldspars, silicified. strong pervasive local clay alteration. sericite throughout. weak fracture controlled limonite (0.25-0.5%). strongly fractured. bull quartz veins are heavily fractured.
		145.5 - 152.5	Replaces Felsics Strong Clay	Selective Repl Moderate Sericitisation Replaces Mafics Weak Chlorite
152.0 - 163.0	MxM	augn	Fol-str	augens throughout. weak chlorite alteration. moderate sericite overgrowing foliation. fracture controlled clay with limonite (0.25%). from 152.85-154.15 fractured opaque quartz vein parallel TCA. trace disseminated pyrite and late carbonate veinlets infilling along foliation. 161-163 is heavily fractured - mostly quartz vein material.
		152.5 - 163.0	Replaces Mafics Weak Chlorite	Selective Repl Moderate Sericitisation Fracture Controlled Weak Clay
163.0 - 163.4	YO	bxm		zone. polyphase breccia with a discrete mature strongly milled polymictic breccia with limonite-clay matrix (2%), clasts are altered qsp wallrock and quartz vein material. surrounded by immaturely brecciated gneiss with disseminated limonite-clay- clast supported.
		163.0 - 163.5	Fracture Controlled Strong Clay	Pervasive Moderate Silicification
163.4 - 167.3	MxF	augn	Fol-str	variably altered mixed gneiss, strong sericite and silica alteration, local zones with strong clay alteration of feldspars. fracture controlled limonite (0.25%).
		163.5 - 167.3	Selective Repl Moderate Sericitisation	Patchy Strong Silicification Replaces Felsics Weak Clay
167.3 - 176.0	BtS		Fol-str	Schist with patchy weak zones. Weak to moderate chlorite and sericite throughout. 167.3-168.6m and 169.45-170.3 and 174.4-174.65: strong sericite with ~0.5% disseminated and frac controlled sooty sulphides. Clay on fractures with strong silicification. Encompassing intervals strong fracture controlled clay and limonite.
		167.3 - 175.6	Selective Repl Strong Sericitisation	Pervasive Strong Silicification Fracture Controlled Strong Clay
		175.6 - 196.3	Pervasive Weak Chlorite	Patchy Weak Sericitisation Patchy Weak Silicification
176.0 - 196.2	BtS	augn	Fol-str	Variably weakly altered schist. Weak to moderate chlorite, weak sericite overgrowing foliation. Clay and limonite on fractures (~0.25%). Trace disseminated brassy pyrite. Clay alteration of augens from 191.0m. locally weakly silicified.
196.2 - 199.8	BtS	amyg	Fol-str	Strongly altered fldsprs. Clay on fractures with ~0.5% limonite. Strong sericite overgrowing foliation. Variably calcareous.
		196.3 - 199.5	Pervasive Strong Sericitisation	Replaces Felsics Moderate Clay
		199.5 - 203.0	Replaces Felsics Moderate Clay	Pervasive Strong Silicification Pervasive Intense Sericitisation
199.8 - 201.2	BtS			Zone. Mineralised biotite schist. 2% carbonate veins (4mm wide) with no selvage. 0.5% sooty py veins. Intense sericite with strong silicification. Clay and limonite on fractures (~0.5%). Fine-grained disseminated sooty py throughout (~2%). Transitional zone (2/3 sulphides facies).
201.2 - 204.1	BtS	augn		Strongly altered fldsprs. Clay on fractures with ~0.5% limonite. Intense sericite overgrowing foliation. Variably calcareous.
		203.0 - 210.4	Pervasive Strong Sericitisation	Pervasive Moderate Clay Replaces Mafics Weak Chlorite
204.1 - 219.1	MxM	augn	Fol-str	Weak to moderate sericite. Weak clay alteration of fldsprs. Local silicification. Fracture controlled clay and limonite (~0.25%). Weak chlorite.
		210.4 - 214.3	Replaces Mafics Weak Chlorite	Patchy Weak Silicification Fracture Controlled Weak Clay
		214.3 - 219.1	Replaces Felsics Strong Sericitisation	Replaces Felsics Strong Clay
		219.1 - 219.2	Pervasive Strong Sericitisation	Pervasive Strong Silicification Fracture Controlled Moderate Clay
219.1 - 219.9	BtS		Fol-str	Schist with intense sericite overgrowing foliation. Silicified with 1.5% sooty sulphide disseminated.
		219.2 - 256.5	Replaces Mafics Weak Chlorite	Patchy Weak Silicification Patchy Weak Sericitisation
219.9 - 257.5	BtS		Fol-str	Weak chlorite. Clay alteration of fldspr. Variable silicification. 3cm wide bull qtz vein from 221.7-22.6m. 223.3-224.0m- bull qtz vein 3 cm wide with brassy py selvage. Strong sericite and silicification from 2445-248 and 256.9-257.53m.
		256.5 - 257.5	Pervasive Strong Silicification	Selective Repl Strong Sericitisation
		257.5 - 260.8	Pervasive Moderate Clay	Pervasive Strong Sericitisation Patchy Moderate Silicification
257.5 - 260.0	FG	augn	Fol-str	Zone. Moderate pervasive clay, strong clay around fractures. Strong to intense sericite overgrowing foliation. 2% disseminated sootys and 1% fracture controlled. Transitional. From 258.15-258.2m: silicified clast breccia; clast supported; 3% disseminated sooty py and strong clay in matrix.
260.0 - 261.3	YC	bxv		Zone. Oxide facies. Variably silicified. Matrix supported; clay limonite matrix. Clasts are rounded. Clasts of wall rock and HU. ~3% limonite overall. Clasts range from 1-15mm and are strongly milled.
		260.8 - 261.3	Pervasive Strong Clay	
261.3 - 267.0	FG	augn	Fol-str	Zone. Intensely altered FG with local breccia veins and zones of HU. Intense ser overgrowing foliation. Strong clay on fractures. Transitional facies. 0.5% blebby brassy py. ~3 % limonite + hematite. In the sulphide windows ~2% disseminated sooty pyrite.
		261.3 - 267.0	Pervasive Strong Sericitisation	Patchy Moderate Silicification Fracture Controlled Strong Clay

267.0 - 269.9	FG	augn	Fol-str	Zone. FG with strong sericite overgrowing foliation. Strong pervasive silicification. 2.5% sooty py disseminated. Transtional (sulphide-dominant).		
267.0 - 269.1				Pervasive Strong Sericitisation	Pervasive Strong Silicification	
269.1 - 269.9				Pervasive Weak Clay	Pervasive Strong Sericitisation	
269.9 - 270.5	HU			Zone. Unconsolidate. Intense clay alteration pervasive. Limonite disseminated (~1.5%).		
269.9 - 270.5				Pervasive Intense Clay		
270.5 - 271.1	BtS		Fol-str	Zone. Intense pervasive sericite, pervasive clay. ~2% limonite disseminated.		
270.5 - 271.1				Pervasive Moderate Clay	Pervasive Weak Silicification	
271.1 - 275.2				Pervasive Strong Silicification	Pervasive Strong Sericitisation	Selective Repl Weak Clay
271.1 - 275.2	BtS		Fol-str	Biotite schist. Variably silicified. Weak pervasive clay. Weak to mod ser overgrowing foliation. Fracture controlled limonites (~0.25%).		
275.2 - 303.2	BtS		Fol-str	Variably silicified. Variable weak to moderate sericite overgrowing foliation. Weak clay alt of fldspr. Weak frac controlled limonite (~0.25%). Leuxocene disseminated from 275.2-280.7m. strong sericite + silicification from 293.7-294.1, 298.9-300.2, 302.75-303.15		
275.2 - 280.5				Replaces Mafics Weak Chlorite	Selective Repl Strong Leucoxene	Patchy Weak Silicification
280.5 - 303.1				Replaces Mafics Weak Chlorite	Patchy Moderate Silicification	Patchy Weak Sericitisation
303.1 - 304.9				Pervasive Moderate Clay	Pervasive Moderate Silicification	Selective Repl Moderate Sericitisation
303.2 - 305.8	BtS			strongly altered biotite schist. variable silicification, moderate-strong pervasive clay. 0.5% disseminated limonite		
304.9 - 317.8				Replaces Mafics Weak Chlorite	Selective Repl Weak Sericitisation	Pervasive Moderate Silicification
305.8 - 317.8	MxM		Fol-str	weakly altered biotite schist. weak chlorite, weak-moderate sericite overgrowing foliation, moderate silicification		
317.8 - 319.1	BtS		Fol-str	Zone. BtS with 2-3% disseminated sooty sulphides which overprint most textures. strong sericite and silicification, weak clay.		
317.9 - 319.1				Pervasive Weak Clay	Pervasive Strong Silicification	Selective Repl Strong Sericitisation
319.1 - 322.1	MxM		Fol-str	strongly silicified, weakly chlorite altered biotite schist. variable sericite alteration overgrowing foliation.		
319.1 - 328.4				Pervasive Moderate Silicification	Selective Repl Strong Sericitisation	Fracture Controlled Weak Clay
322.1 - 325.2	BtS		Fol-str	Zone. Strongly silicified biotite schist. Strong sericite alteration. Strong clay+ limonite (1%) on and around fractures. 322.05-324.1 1% sooty sulphides disseminated and in veinlets. 324.1-324.45 2.5% sooty sulphides disseminated and in veinlets. 324.45-325.3 1% sooty sulphides disseminated and in veinlets.		
325.2 - 349.7	AmBtS		Fol-str	amphibole bearing schist. Weak chlorite alteration, weak-moderate epidote. Strong sericite, clay + limonite on fractures from 325.8-328.7. leucoxene from 333-347m. variably silicified.		
328.4 - 349.7				Replaces Mafics Moderate Chlorite	Patchy Moderate Epidote	Pervasive Weak Silicification
349.7 - 365.6	MxF	augn	Fol-str	Mixed felsic gneiss and amphibole biotite schist. Augen-bearing in felsic domains with weak to moderate sericite overgrowing foliation. Moderate patchy epidote, weak to moderate chlorite and pervasive moderate silicification in mafic intervals. 0.25% local fracture controlled limonite from 361-366		
349.7 - 354.7				Selective Repl Moderate Sericitisation	Pervasive Moderate Silicification	
354.7 - 356.9				Replaces Mafics Weak Chlorite	Patchy Moderate Epidote	Pervasive Moderate Silicification
356.9 - 366.4				Selective Repl Moderate Sericitisation	Pervasive Moderate Silicification	
365.6 - 365.8	IV	phyr		Fine-grained porphyritic andesite; plag phenocrysts <1mm wide		
365.8 - 366.4	MxF	augn	Fol-str	Mixed felsic gneiss and amphibole biotite schist. Augen-bearing in felsic domains with weak to moderate sericite overgrowing foliation. Moderate patchy epidote, weak to moderate chlorite and pervasive moderate silicification in mafic intervals.		