



Appendix 1. B012 Drill Log

Diamond drill hole B012 was a helicopter supported drilling program within the Zeehan tenement – EL28/1988.

Summary log of B012

Collar						
Project	Hole ID	Easting	Northing			
Burbank	B012	350720	5355625			
Hole Sizes						
From	Size	Drilled By				
0 - 318.4	NQ	Boart Longyear				
Planned Depth	Total Depth	Date	Geologist			
350	314.5	27-03-2010	KGW			
Surveys						
Project	Hole ID	Depth	Azm_Amg	Dip	Mag Field	Temp
Burbank	B012	53	213.6	-56	59981	18
		101	217.1	-55.2	59873	14
		161	210.4	-54.5	61601	16
		200	218.3	-54	61082	15
		250	215.3	-54.4	61537	no record
		300	216.8	-54.7	60851	18

Summary

B012 is entirely serpentinite. Black serpentinite starts from ~195m and is still present at EOH 315m. The black serpentinite displays narrow intervals of an interpreted cumulate texture ? With and unknown interstitial pale green grey bluey coloured mineral, possibly of Mg oxide affinity ? The black serpentinite is also variably sulfidic with intervals of low grade pentlandite noted. Most sulfides are very finely disseminated with minor accumulations of wispy textured sulfides also noted. Gange sulfides are thought to include pyrrhotite, possibly also pyrite and troilite ? Sampling will be done on 1m intervals from 210m to 315 EOH. It was hoped that the hole would drill through the ultramafics basal contact but the hole was stopped early due to drilling difficulties. Sections of the sulfide mineralization, particularly within the interpreted cumulate texture may be selected for thin section and polished slab analysis. The targeted magnetic high is insufficiently tested at this time and may require further drill testing.

Diamond drill hole B012 simplified drill log.

Project	BHID	From	To	Rock Type	Color	Visual S%	Description
Burbank	B012	0	8.4	Sep	W	0.00	White, partially silica altered serpentinite weathered to clay with minor relict magnetite
		8.4	20.6	Gos	O2	0.00	Weakly leached and partially jarositic, gossanous rock. Relict magnetism - massive oxidised hematite after magnetite. Some sections weathered to clay
		20.6	26.4	MnO	B4	0.00	Manganese oxide clay; weakly magnetic
		26.4	41.2	Sep	G2	0.00	Light green serpentinite, some weathering to clay, minor weakly stockworked magnetite veins
		41.2	62	Sep	G2	0.00	More competent serpentinite (not clay), ~ 5% finely disseminated magnetite; minor Qtz / carbonate veining and fracture coats
		62	69	Sep	G2	0.00	Zone of broken, fractured green serpentinite with sericitic ? clay alteration concentrated around the fractures. Minor magnetite
		69	75	Sep	G2	0.00	Light green serpentinite, increasing patchy magnetite ~ <15%; partially leached Qtz / carbonate veins up to 2cm wide.
		75	95.9	Mg	G3	0.00	Darker green serpentinite, increasing magnetite (< 20% over 1m intervals); texturally different possibly due to late magnetite alteration, wispy magnetite veins and clustered spotted textures. Magnetite partially oxidised to hematite 89-91m; minor Qtz carbonate veining; sections of the serpentinite very dark green to black.
		95.9	101.2	Sep	G4	0.00	Dark green to reddish serpentinite with later limonite through out the rock but most prominently on fractured surfaces and veinlets; weak to moderately foliated and highly magnetic; some magnetite partially altered to hematite; minor mafic phenocrysts selectively replaced by chlorite.
		101.2	106.4	Sep	G3	0.00	Medium green to gray serpentinite; minor limonite on fracture surfaces and veinlets; interval is relatively magnetite poor; minor mag/chl / epi (?) veins; Qtz + brown mineral of unknown ID vein
		106.4	107.5	Sep	G3	0.00	Monomictic serpentinitized, clast supported breccia, clasts are mostly angular with some smaller clasts of MnO rich clay, matrix of white clay
		107.5	112.4	Sep	B2	0.00	Weakly oxidised serpentinite, limonitic throughout but most prominently on fractured surfaces; Qtz carbonate veining and offset late veinlets depicting late (minor) faulted movement; relatively magnetite poor except rare magnetite vein (late stage magnetite).

Project	BHID	From	To	Rock Type	Color	Visual S%	Description
Burbank	B012	112.4	125	Sep	Var	0.00	Gray to dull red to dark green, brown and orange serpentinite. Where pervasive, the magnetite appears to be partially replaced by hematite; limonite appears as veins and on fractured surfaces; weak foliation with small wispy magnetite; later magnetite also as a selvage to epidote veins; veined and minor patchy phlogopite suspected but could just be Brucite alteration ?
		125	134.6	Sep	B3	0.00	Brown to dark green and grey serpentinite; cream coloured fault pug suggests faulting as does the broken nature of the core and minor brecciation; minor euhedral amphibole crystals <5mm; minor weakly stockworked calcite veinlets; interval is mostly magnetite poor.
		134.6	146.9	Sep	N5	0.00	Black to dark green and grey serpentinite; 138.9 to 139.1 is a matrix supported breccia - minor fault ? ; minor Qtz / carbonate veins
		146.9	152	Sep	O3	0.00	Orange / brown to grey serpentinite; oxidised, limonite altered with minor partially leached Qtz / carbonate veining - > acidic and oxidised fluid pathway ?
		152	163.7	Clay	B4	0.00	Clay after serpentinite; serpentinite is leached and totally altered to MnO rich clay from 152.9 to 159m then partially altered to clay to 162.8m.
		163.7	165.9	Sep	G3	0.00	Green / grey to red serpentinite; Hematite alteration probably after magnetite.
		165.9	168	Sep	B3	0	Medium brown serpentinite; Qtz / carbonate and calcite only veining to ~ 10% of interval
		168	173.4	Sep	B3	0.00	Dark green to black serpentinite; weakly foliated, minor wispy magnetite, minor ~10cm interval of cream coloured clay alteration @ 172m
		173.4	180	Sep	G5	0.00	Serpentinite altered to a medium brown and partially leached.
		180	195.2	Sep	G2	0.00	Light green to grey serpentinite, minor interval with darker green to medium brown serpentinite 187.4 to 189.6
		195.2	207.1	Sep	G5	0.20	Predominantly dark green to black serpentinite cross cut with minor Qtz / carbonate veins; minor intervals of lighter green serpentinite. Darker colored serpentinite is generally more magnetic. Core mostly competent

Project	BHID	From	To	Rock Type	Color	Visual S%	Description
Burbank	B012	207.1	228.9	Sep	G5	0.20	Dark green to black serpentinite; core appears highly fractured almost perpendicular to core axis. Dicing is most likely related high subsurface pressure release
		228.9	250	Sep	N5	0.20	Highly fractured black serpentinite; core altered partially to black clay; weak to absent magnetism
		250	255	Sep	N5	0.20	More competent black serpentinite; moderately magnetic. Minor sulfides (Ni sulfides ?) and suspected narrow intervals of cumulate textured rock. Core is heavily compression related fractured resulting in dicing
		255	261.2	Sep	N5	0.30	Black serpentinite to dark green / grey colour over small intervals. Highly fractured into discs.
		261.2	281.5	Sep	N5	0.00	Black to dark green serpentinite. No sulfides noted. Core highly fractured into discs and partially leached @ 274m.

		281.5	315 EOH	Sep	N5	0.50	Minor clay alteration Black serpentinite, highly fractured into discs. Low grade finely disseminated Ni sulphides within cumulate ? textured rocks. UNK Green / grey / blue mineral interwoven to form the cumulate texture and infilling fractures / veins
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Color

Colors can be classified by shade using a 1 to 5 scale. ie.
B1 = pale brown, B5=dark
Brown

N	Black
B	Brown
P	Purple
G	Green
C	Cream
W	White
Y	Yellow
T	Tan
R	Red
O	Orange
Var	Various

Drilling was stopped before the planned end of hole depth due to drilling difficulties.