

Diamond Drill Log

Prospect:	QE2 - 1	Hole No:	SDD001	Northing		Azimuth	
Date:	17/1/2007	Grid:	GDA94255	Easting		Dip	
Geologist:	GR LEAR	BOCO (m)		TOFR (m)		Water (m)	

START →

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
7.5	9.0			Pale grey sand/clay mix.					
9.0	9.5			Highly-weathered grey shale					
9.5	9.6			Broken Qtz (white) rubble.					
9.6	11.0			Qtz sand (white) & grey/green clay mix.					
11.0	13.20			GREY SHALE.					
13.20	13.60			GREY/GREEN CONGLOMERATE. MATRIX IS GREY <del>SHALE</del> /MUD, CLASTS ARE GREEN fine grained sandstone & grey shale.					
13.60	47.80			GREY TO GREENISH GREY mudstone, siltstone intercalated with granule to pebble conglomerate & sandstone.					
47.60	52.0			greenish 'vuggy' rock - possible ash. fall / sedimentary volcaniclastic					
52.9	54.90			Grey/brown mudstone / siltstone (laminated)					
54.90	60.15			Contact with grey-green cobble/pebble conglomerate. Clasts are chert, Qtz, basalt siltstone (142.82).	59.15	Fossil coral.			
60.15	143.0			Purplish massive to well-bedded siltstone, pebble to cobble conglomerate with minor interbedded sandstone, siltstone & red mudstone [MT ZEEHAN CONGLOMERATE]					

142.82  
Contact with dark grey igneous rock. Angle to Core Axis of 43° (Down dip)



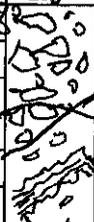
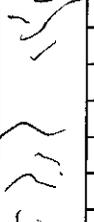
Prepared by:	Todd Hibberd	To Be Reviewed:	12
Reviewed by:	Todd Hibberd	Print Date:	03/01/08
Approved by:	Todd Hibberd	THIS DOCUMENT IS VALID FOR 7 DAYS FROM THE DATE OF PRINT	

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CONGLOMERATE IS BLEACHED FROM 82.5m TO 85m TO 87m. MOST STRONGLY ALTERED AT 86.40 SULPHIDES ON FRACTURE SURFACE AT 86.50m.

Diamond Drill Log

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Date:		Grid:	GDA94255	Easting		Dip	
Geologist:	GR LEAR	BOCO (m)		TOFR (m)		Water (m)	

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
143	145.8			Bleached transition from Mt. Zeehan conglomerate to breccia					
145.8	146			Carbonate veining (rhythmic) at 145.65. QTZ veins at 145.					
146	157.5			Transition from meta-sediments to andesitic (?) volcanics + (QTZ + carbonate) veining.					
158	158.50			Breccia - clasts are dark coloured andesite (?)					
158.50				white carbonate QTZ vein 40mm wide crosscut by finer carb. vein					
165	174			Hematitic alteration - rust-red colour overprint on grey/green igneous rock.					
174	190			Core becoming darker black, grain size finer. Carbonate veining is reduced in amount & veins become much narrower within hematitic alteration zone.					

168.00

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Prospect:	DE2	Hole No:	001	Northing		Azimuth	
Date:		Grid:	GDA94255	Easting		Dip	
Geologist:	CR LEAR	BOCO (m)		TOFR (m)		Water (m)	

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
180	00			Possible flow-banding in dark, fine-grained igneous rock	Py				
185	20			Vein: thick (20cm) carbonate. Grain size increasing, rock is now light grey in colour. Carbonate veining increasing.	Py				
188	50			Rhythmic alternating Fe-oxides & carbonate veining in light grey, igneous(?) rock.	Fe Co <sub>3</sub> Fe				
207.70 - 207.90	207.90			Core broken into rubble (fault?)	Co <sub>3</sub>				
232	00			Breccia in bleached & carbonated, light grey rock.	Fe Co <sub>3</sub> Fe				
242	10			Reaction rims around (possible) andesitic ash lithic	Co <sub>3</sub> Fe				
248	50			liths in recrystallised ash / lithic volcanic (?). Liths surrounded by wide (carbonate?) borders. Size ≤ 1.5 cm. (liths).	Co <sub>3</sub>				
249.5	250.50			Rhythmic carbonate veins, (layered) at 45° and also parallel to core axis	Fe Co <sub>3</sub>				
278	65			Slickenside or fracture surface of L.G.I.R. (C). Direction of movement high angle - 70° towards the surface (to core axis).					
310	300-30			Dark grey/black igneous rock, slight green tint (chlorite & the serpentine?)					

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LGI R = Light grey fine-grained igneous rock (C) + carbonate veining.

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Date:		Grid:	GDA94z55	Easting		Dip	
Geologist:	GRLEAR	BOCO (m)		TOFR (m)		Water (m)	

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
<del>317.90</del>	<del>320.25</del>			Bleached, carbonated dark grey/black igneous rock (fine grained)					
317.90	320.50			dark grey/black rubble of fine-grained igneous rock. Some surfaces are slickensided. <del>has</del> Highly carbonated on fracture surfaces.	Py.				
310.20	328.25								
347	75			thly on carbonate veining Dark grey, fine-grained igneous rock.	Py				
353	90			Perovskite carbonate alteration of rock.	Py				
362	80			Breccia within fine-grained gray rock + carbonate veining. Clasts are fine-grained dark-light gray (due to 'bleaching') igneous rock.					
(Tray 95)									
367	65			Extensive carbonation of breccia. Visible Chalcocite from 367.65 - 368.15.	Cu/Py				
to 368	10								
390	25			Chalcocite in dark grey igneous rock. Carbonate veins not present as fine veins only.	Cu/Py				
393	80			Iron oxide alteration in dark grey fine grained igneous rock.					
to 394	60								

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Diamond Drill Log

Prospect:	QE2	Hole No:	QE2-1	Northing		Azimuth	
Date:		Grid:	GDA94255	Easting		Dip	
Geologist:	G. R. Lear	BOCO (m)		TOFR (m)		Water (m)	

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
397	405			Intense carbonate alteration in rubble. Green (fuchsite?) 404.					
405	408.25			Mostly fine with carbonate veins only. Decrease in carbonation.					
408	<del>412</del>			Carbonation increasing. Green fuchsite (?) or green carbonate					
412	576.60			Change from fine grained grey igneous rock to gray/pale green igneous rock. Carbonate veining extends thru both rock types.					
	586.5			Change back to fine grained light grey igneous rock & variable amounts of carbonate veining (little to moderate <math>< 5\%</math> to <math>> 30\%</math>).					
	603.60			E.O.H.					

Fuchsites  
 $\leq 6\%$   
 $Cr_2O_3$

Apatite  
 $Ca_5(PO_4)_3(OH, F, Cl)$   
 associated  
 lithium minerals  
 $F, Li, P$

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Prospect:		Hole No:	5002	Northing		Azimuth	
Date:	7/4/08	Grid:	GDA94z55	Easting		Dip	
Geologist:	MC	BOCO (m)		TOFR (m)		Water (m)	

Mike Cowin

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
2	14			BLACK SLATE / SHALE - FISSILE CLEAVAGE ~ 5-6° CA					
14	25.7			GREY CG-VGG LITHIC TUFF? (CONG?) ANGULAR, COMBESLY BEDDED BUT STEEP TO CA. POLYMICRA GRAINS					
25.7	70.5			BLACK SHALE, VFG STRONG LAMIN BEDDING ~ 5-10° CA FLATTENING TO ~ 30° NEAR BOTTOM CONTACT 68.3-70.6m BABLY BROKEN					
70.5	78			GREY, M-CG, GENERALLY MASSIVE MOO CARBONATE ALTERED <del>MAGNETITE</del> MAFIC SEDIMENT					
78	84.8			GREY-CT GREY HEAVILY CARBONATED SEDIMENTARY ROCK POSSIBLY IMPURE LIMESTONE / DOLOMITE					
84.8	119.8			DARK GREY, POORLY SORTED, SUBROUND - SUB ANGULAR MAFIC SEDIMENTARY ROCK WK-MOO CARBONATE VEINES INCLUDING MINOR CONGLOMERATE					
119.8	141.6			GREY FG SLTSTONE WITH SHALY INTRABEDS (1-5mm) COMMON BEDDING AT 40-60° CA. SOME SANDY INTRAM					
141.6	156.8			GREY/GREEN, STRONGLY CARBONATED, BRECCIATED IMPURE LIMESTONE? OBVIOUS PYRITE, MINOR CHALCOPY + GALENA POSSIBLE SPHALERITE 152.75-153.1 2cm STRINGER OF GALENA + DISSEM GALENA @ N30° CA					
156.8	159.75			LIGHT OR - GREEN SEDIMENTARY BRECCIA NOT MINERALISED, COARSE FRAG, ANGULAR					
159.75	392.8			GREEN GREY FG MASSIVE SOMETIME BLEACHED BASALT WK CARB STRINGERS					

HQ → NQ @ 92.7m

GENERALLY RARE PY. COMMON PINK STAINING (AFT MAGNETITE)  
MAY BE ANDREITIC IN COMPOSITION

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# Diamond Drill Log

Prospect:		Hole No:	SDD002	Northing		Azimuth	
Date:		Grid:	GDA94z55	Easting		Dip	
Geologist:	Mike Cowin	BOCO (m)		TOFR (m)		Water (m)	

From	To	Graphic Log	Rock Code	Geology Description	Minerals	Text	Alt	Sulp%	Sulp%
				201.5 - 201.65 5cm CARB ZONE @ ~38°CA					
				WITH ~20% DISSEM PY, VISIBLE PY TO 202.0m					
				211.4 - 211.7 ~ 10% DISSEM PY					
				212.4 - 212.9 ~ 3% DISSEM PY					
				221.4 - 221.9 ~ 20% DISSEM PY + CB @ ~38°CA					
				382 - 386m V. BREACHED SECTION					
				SUSPECT V.F.C CARBONATE SEDIMENT?					
				PY ASSOC WITH CB VEIN @ 383m					
392.8	396.2			STRONGLY ORRHIATED / CARBONATED ROCK					
396.0	398.8			GRN / GREY FG MASSIVE BASALT					
398.8	399.45			WH, QTY / CARB VEIN ~ 30°CA					
				AROUND PY ON UPPER CONTACT					
399.45	402.5			GRN / GREY FG MASSIVE BASALT					
				MINOR PY ASSOC WITH CARB VEINING					
403.5	426			LIGHT GR, FG MASSIVE CARBONATE					
				SEDIMENTARY ROCK (POS? AMPHIBOLITE)					

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