

**ZINIFEX ROSEBERY MINE
SURFACE EXPLORATION**

DIAMOND DRILL HOLE LOGGING

lgy = light grey, lgn =light green

Hole_ID:	HGW1	Project	Henty
Hole_Type:	DDH	Tenement_No.	EL 7/2001
AMG_E	376190E	Geologist	L David
AMG_N	5355650N	Date	11/06
		Year:	2006

Depth (m)		Graphic	Lithology	Colour	Comments	Alteration	Mineralisation	Structure	Veining	Faults
From	To		Code			Up to 3 codes w. intensities (1-3)	Up to 3 codes with %			
0.00	3.00				No core. Tri-Cone bit drilled					
3.00	3.10				Colluvial soil					
3.10	16.80		I U SE	bk gn	Black-dark green massive serpentinite (?after olivine pyroxenite) with rare narrow medium grained cumulate zones. Minor light olive green ?antigorite in fractures (often slickensided). Narrow (5cm thick) f.g. micro-leucogabbro dyke with fractures filled with remobilised serpentinite. Local very fine magnetite stockworks. Moderately to strongly magnetic - occasional 2mm magnetite blebs. Core moderately to severely broken. Stopped ?intrusive lower contact.		9.10m MAGNETITE wispy veinlet 5mm thick.	Fractures 30° - 50° to CA, rarely 0° - 10° to CA.	Ubiquitous white chrysotile stringers.	
16.80	17.10		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke. Stopped irregular intrusive lower contact. Core solid.	Sericite		Top contact 45°, lower contact 70° to CA.		
17.10	21.40		I U SE	bk gn	Black-dark green massive serpentinite (?after olivine pyroxenite) with rare narrow medium grained cumulate zones. Minor light olive green ?antigorite in fractures (often slickensided). Moderately to strongly magnetic - occasional 2mm magnetite blebs. Local very fine magnetite stockworks. Core moderately to severely broken. Stopped irregular intrusive lower contact.		17.90m MAGNETITE wispy veinlet 2mm thick.	Fractures 60° - 70° to CA.	Ubiquitous white chrysotile stringers.	
21.40	33.10		I M GA	lgy	Light grey m.g. moderately sericitised micro-leucogabbro dyke with chilled margin 0.3m wide below top contact and for 2.6m above lower contact. Stopped irregular intrusive lower contact. Core solid in 30cm sticks.	Sericitised ?feldspar grains. 29.3 - 30.5m Strong sericitisation	25.5m - 30.5m Trace to 2% red brown ?SPH, ?mica or hematite stained clots 1 - 2mm across	Top contact 40° to CA, lower contact broken. Fractures 60° - 70° to CA, rarely 30°.		
33.10	60.10		I U SE	bk gn	Black-dark green massive serpentinite (?after olivine pyroxenite) with some 0.2m - 1m thick coarse grained (phenocrysts < 1cm across) cumulate zones. Minor light olive green ?antigorite in fractures (often slickensided). Moderately to strongly magnetic - occasional 2mm magnetite blebs. Local very fine magnetite stockworks. Core relatively solid down to 41.7m then moderately to often severely broken to totally sheared towards base.		Occasional PYRITE smears on fractures	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
60.10	60.15		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
60.15	70.75		I U SE	bk gn	Black-dark green massive serpentinite (?after olivine pyroxenite) with some 0.2m - 1m thick coarse grained (phenocrysts < 1cm across) cumulate zones. Minor light olive green ?antigorite in fractures (often slickensided). Moderately to strongly magnetic - Core broken to very broken with 1 - 3m relatively solid zones throughout.	62.95m 5cm zone red-brown ?hematite altered phenocrysts	Occasional 2mm magnetite blebs. Local very fine magnetite stockworks.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
70.75	70.80		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
70.80	72.00		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to locally completely sheared.		As 60.15 - 70.75m.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
72.00	72.30		I M GA	lgy	Light grey m.g. moderately sericitised micro-leucogabbro dyke, stopped irregular intrusive contacts. Core solid.	5mm purple-red ?hematite altered serpentinite selvages. Sericite		Top contact 70°, lower contact 15° to CA.		
72.30	74.20		I U SE	bk gn	As 60.15 - 70.75m. Core very broken.		As 60.15 - 70.75m.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
74.20	74.30		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
74.30	82.70		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to locally completely sheared, minor <1m relatively solid zones.		As 60.15 - 70.75m.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	

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82.70	82.80		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
82.80	91.50		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to locally completely sheared, minor <1m relatively solid zones .		87.20m - 87.45m Disseminations and blebs of magnetite.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
91.50	91.55		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
91.55	98.90		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to locally completely sheared, minor <1m relatively solid zones.		As 60.15 - 70.75m.	Fractures 60° - 80° to CA, rarely 30°.	Ubiquitous white chrysotile stringers.	
98.90	100.10				CORE LOSS					
100.10	101.60		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared to minor very broken.				Ubiquitous white chrysotile stringers.	
101.60	101.80		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
101.80	102.70		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared.				Ubiquitous white chrysotile stringers.	
102.70	102.80		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
102.80	104.00				CORE LOSS					
104.00	105.00		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared.				Ubiquitous white chrysotile stringers.	
105.00	106.00				CORE LOSS					
106.00	107.50		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared.				Ubiquitous white chrysotile stringers.	
107.50	108.00				CORE LOSS					
108.00	110.60		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared to 108.20 then broken to 110.40m.		As 60.15 - 70.75m.		Ubiquitous white chrysotile stringers.	
110.60	110.80		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, stoped irregular intrusive contacts. 7cm true thickness. Core solid.	10mm purple-red ?hematite altered serpentinite selvages. Sericite		Top contact 35°, lower contact 35° to CA.		
110.80	110.90		I U SE	bk gn	As 60.15 - 70.75m. Core solid.		As 60.15 - 70.75m.		Ubiquitous white chrysotile stringers.	
110.90	111.20		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, smooth wavy passive intrusive contacts. 5cm true thickness. Core solid.	15mm purple-red ?hematite altered serpentinite selvages. Sericite		Top contact 25°, lower contact 25° to CA.		

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111.20	112.80		I U SE	bk gn	As 60.15 - 70.75m. Core very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, 20°, 0° to CA.	Ubiquitous white chrysotile stringers.	
112.80	114.80		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, smooth wavy passive intrusive contacts. Core solid.	20mm purple-red ?hematite altered serpentinite selvages. Sericite		Top contact 70° to CA, lower contact broken.		
114.80	128.10		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to 116.90m, relatively solid 20 - 30cm sticks to 121.10m, very broken to 125.10m, completely sheared to 126.50m, very broken to 128.10m.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50° to CA, rarely 30° down to 121.20m.	Ubiquitous white chrysotile stringers.	
128.10	128.40		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, smooth wavy passive contacts. Core solid.	30mm purple-red ?hematite altered serpentinite selvages. Sericite		Contacts sub-parallel to CA.		
128.40	133.40		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to 133.10m, then completely sheared to 133.40m.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.		Ubiquitous white chrysotile stringers.	
133.40	134.70		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
134.70	134.95		I U SE	bk gn	As 60.15 - 70.75m. Core solid.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.		Ubiquitous white chrysotile stringers.	
134.95	136.40		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, smooth wavy passive intrusive contacts. Core solid.	30mm purple-red ?hematite altered serpentinite seldge at lower contact only. Sericite		Top contact 50°, lower contact 70° to CA. Fractures 30° to 50o to CA.		
136.40	139.80		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared. 137.40m: 5cm ug clay,light grey, with angular m.g. unconsolidated serpentinite fragments.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.		Ubiquitous white chrysotile stringers.	
139.80	139.90		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke, smooth wavy passive intrusive contacts. Core solid.	30mm purple-red ?hematite altered serpentinite selvages. Sericite		Top contact 45°, lower contact 45° to CA.		

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139.90	143.30		I U SE	bk gn	As 60.15 - 70.75m. Core completely sheared.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Lower contact broken	Ubiquitous white chrysotile stringers.	
143.30	156.05		I U SE	green	Pistachio to olive green mottled serpentinite with 2 - 5mm white chrysotile veins, often with abundant wispy magnetite. Weakly to strongly magnetic. Core solid in 30cm sticks.		Abundant wispy magnetite in chrysotile veins	Lower contact gradational and sheared.	Chrysotile-magnetite veins 50o to 60o, rarely 35o to CA.	** 146.50m Change from HQ to NQ core.
156.05	158.55		I U SE	bk gn	As 60.15 - 70.75m. Core broken to very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	5cm pug clay crush zone at 157.40m. Lower contact sharp, 70° to CA	Ubiquitous white chrysotile stringers.	
158.55	159.00		X CL	lgy	Pug clay, light grey, with angular m.g. and some large (2cm) serpentinite fragments. Core soft but solid.			Top contact 70° to CA, lower contact sheared irregular .		Fault crush zone
159.00	165.30		I U SE	bk gn	As 60.15 - 70.75m. Core solid to locally very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 45° to 50°, rarely 70° to CA.	Ubiquitous white chrysotile stringers.	
165.30	168.40		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts. Sharp intrusive contacts. . Core solid.	5mm purple-red ?hematite altered serpentinite selvage at top contact only. Sericite.		Top contact 55°, lower contact 45° to CA. Fractures 35° to 45° to CA.		
168.40	169.20		I U SE	bk gn	As 60.15 - 70.75m but only weakly magnetic. Core solid.				Ubiquitous white chrysotile stringers.	
169.20	169.40		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke. Sharp intrusive contacts. 5mm hematite altered selvage at top contact only. Core solid.	Sericite		Top contact 80°, lower contact 55° to CA.		
169.40	171.00		I U SE	bk gn	As 60.15 - 70.75m but only weakly magnetic. 5cm widemicro-leucogabbro dyke with ?hematitic lower selvage at 169.70m. Core very broken.			Fractures 50°, rarely 10° to CA.	Ubiquitous white chrysotile stringers.	
171.00	171.40		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts. Irregular stoped intrusive contacts. Core solid.	5mm purple-red ?hematite altered serpentinite selvage at top contact only. Sericite.		Top contact 10°, lower contact 30° to CA.		
171.40	174.00		I U SE	bk gn	As 60.15 - 70.75m. Core solid (10 - 20cm sticks) to partly broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, rarely 10° to CA.	Ubiquitous white chrysotile stringers.	

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174.00	174.60		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with red-brown ?hematitic disseminations and wispy veinlets. Irregular stoped intrusive contacts. Core solid.	10mm purple-red ?hematite altered serpentinite selvedge at top contact only. Sericite		Top contact 50°, lower contact 40° to CA.		
174.60	184.30		I U SE	bk gn	As 60.15 - 70.75m. Core solid (10 - 20cm sticks) to partly broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, rarely 10° to CA.	Ubiquitous white chrysotile stringers.	
184.30	184.85		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts and red-brown ?hematitic disseminations and wispy veinlets. Irregular stoped intrusive contacts. Core solid.	10mm purple-red ?hematite altered serpentinite selvedges. Sericite.		Top contact 70°, lower contact 70° to CA.		
184.85	191.00		I U SE	bk gn	As 60.15 - 70.75m. Core solid (10 - 20cm sticks) to locally very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, rarely 30° to CA.	Ubiquitous white chrysotile stringers.	
191.00	191.10		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts. Irregular stoped intrusive contacts. Core solid.	15cm (150mm) purple-red ?hematite altered serpentinite top selvedge and 2cm lower selvedge. Sericite.		Top contact irregular, lower contact 30° to CA.		
191.10	199.00		I U SE	bk gn	As 60.15 - 70.75m. 193.40m: 5cm widemicro-leucogabbro dyke with ?hematitic altered selvedges. Core solid (10 - 20cm sticks) to locally very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, rarely 30° to CA.	Ubiquitous white chrysotile stringers.	
199.00	199.30		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor weak red-brown ?hematitic alteration disseminations. Irregular stoped intrusive top contact, smooth wavy intrusive lower contact. Core solid.	15mm purple-red ?hematite altered serpentinite selvedges. Sericite		Top contact 70°, lower contact 45° to CA.		
199.30	207.20		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10cm sticks) but mainly very broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, rarely 30° to CA.	Ubiquitous white chrysotile stringers.	
207.20	207.40		I I GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor red-brown ?hematitic alteration disseminations/clots. Stoped intrusive contacts. Core solid.	5mm purple-red ?hematite altered serpentinite top selvedge, 15mm lower selvedge. Sericite		Contacts 55° to CA.		

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207.40	223.35		I U SE	bk gn	As 60.15 - 70.75m. Core mainly very broken to 214.30m, then 10 - 20cm sticks.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50° to 70° to CA.	Ubiquitous white chrysotile stringers.	
223.35	223.55		I M GA	lgy	Light grey c.g. equigranular, moderately sericitised micro-leucogabbro dyke with very minor sericitised diffuse ?mafic phenocrysts. Minor pale pink ?K-spar grains. Stopped intrusive contacts. Core solid.	Sericite		Contacts 40° to CA.		
223.55	227.30		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 30°, 50°, 70° to CA.	Ubiquitous white chrysotile stringers.	
227.30	227.50		I I GA	lgy	Light grey c.g. equigranular, moderately sericitised micro-leucogabbro dyke with very minor chloritised diffuse ?mafic phenocrysts. Stopped intrusive contacts. Core solid.	Sericite		Top contact broken, lower contact 45° to CA.		
227.50	232.50		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 30°, 50°, 70° to CA.	Ubiquitous white chrysotile stringers.	
232.50	233.15		I M GA	lgy	Patchy light grey f.g. moderately sericitised micro-leucogabbro dyke. Irregular stopped intrusive contacts around patches. Sericitic alteration penetrates/assimilates/demagnetises surrounding serpentinite for 2 - 5cm and highlighting the coarse olivine pyroxenite texture and ?recrystallising pyroxenes into large more euhedral forms (<15mm across). Core solid.	Sericite		Diffuse contacts		
233.15	235.20		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, 80° to CA.	Ubiquitous white chrysotile stringers.	
235.20	235.30		I I GA	lgy	Patchy light grey f.g. moderately sericitised micro-leucogabbro dyke. Stopped intrusive contacts. Sericitic alteration penetrates/assimilates/demagnetises surrounding serpentinite for 2 - 3cm and highlighting the coarse olivine pyroxenite texture and ?recrystallising pyroxenes into large more euhedral forms (<15mm across). Core solid.	Sericite		Contacts 60° to CA.		
235.30	237.80		I U SE/ I UXX	bk gn/ lgn	Serpentinite as for 60.15 - 70.75m with 5cm patches of sericitisation/plagioclase altered/demagnetisation highlighting coarse olivine pyroxenite texture and ?recrystallising pyroxenes into large more euhedral forms (<15mm across). Core relatively solid (10 - 20cm sticks), locally broken.	Sericite/plagioclase		Fractures 50°, 80° to CA.	Ubiquitous white chrysotile stringers.	
237.80	239.30		I UXX	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. Core relatively solid (10 - 20cm sticks), locally broken.	Sericite/plagioclase		Diffuse contacts		
239.30	244.30		I U SE/ I UXX	bk gn/ lgn	Serpentinite as for 60.15 - 70.75m with 5cm patchy pyroxenite "veins". Core relatively solid (10 - 20cm sticks), locally broken.	Sericite/plagioclase		Fractures 30°, 50° to CA.	Ubiquitous white chrysotile stringers.	

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244.30	252.50		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 30°, 50° to CA.	Ubiquitous white chrysotile stringers.	
252.50	253.00		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts. Irregular stoped intrusive contacts. Core solid.	Sericite		Top contact 45°, lower contact 65° to CA.		
253.00	254.40		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 30°, 50° to CA.	Ubiquitous white chrysotile stringers.	
254.40	254.50		X CL	lgn	Crush zone, no clay.			Top contact broken, lower contact sharp 25° to CA.		Fault crush zone
254.50	260.85		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks), locally broken.		Occasional 2mm magnetite blebs. Very fine magnetite stockworks abundant.	Fractures 50°, 70° to CA.	Ubiquitous white chrysotile stringers.	
260.85	261.65		I I GA	lgy	Light grey m.g. moderately sericitised micro-leucogabbro dyke with minor sericitised diffuse ?mafic phenocrysts. Sericitic alteration penetrates/assimilates/demagnetises surrounding serpentinite for 10cm above top contact and 4cm below lower contact and highlights the original coarse olivine pyroxenite texture. Irregular stoped intrusive contacts. Core solid.	Sericite		Top contact 90°, lower contact 55° to CA.		
261.65	271.55		I U SE	bk gn	As 60.15 - 70.75m. 5cm patches of demagnetising sericite/plagioclase alteration in basal 1.6m highlighting the original coarse olivine pyroxenite texture. Core relatively solid (10 - 20cm sticks)	Sericite/plagioclase		Fractures 50°, 80° to CA.	Ubiquitous white chrysotile stringers.	
271.55	271.65		I M GA	lgy	Light grey m.g. moderately sericitised micro-leucogabbro dyke. Sericitic alteration penetrates/assimilates/demagnetises surrounding serpentinite for 5cm at contacts and highlights the original coarse olivine pyroxenite texture. Irregular stoped intrusive contacts. Core solid.	Sericite.		Top contact 60°, lower contact 60° to CA.		
271.65	272.95		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 20cm sticks)			Fractures 30°, 90° to CA.	Ubiquitous white chrysotile stringers.	
272.95	275.90		I I GA	lgy	Light grey m.g. moderately sericitised micro-leucogabbro dyke. Sericitic alteration penetrates/assimilates/demagnetises surrounding serpentinite for 5cm at contacts and highlights the original coarse olivine pyroxenite texture. 273.25 - 273.45m: serpentinite. Minor chloritised/sericitised diffuse ?mafic phenocrysts. Irregular stoped intrusive contacts. Core solid.	Sericite		Top contact 15°, lower contact 40° to CA. Fractures 45°, 70° to CA.	274.70 - 275.10: Pale pink feldspar vein 1cm wide sub-parallel to CA.	
275.90	276.45		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 30cm sticks)				Ubiquitous white chrysotile stringers.	

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276.45	276.50		I M GA	lgy	Light grey f.g. weakly sericitised micro-leucogabbro dyke. Sharp intrusive contacts. Core solid.	Sericite.		Top contact 20°, lower contact 70° to CA.		
276.50	279.25		I U SE	bk gn	As 60.15 - 70.75m. Core relatively solid (10 - 30cm sticks)			Fractures 45°, 70° to CA.	Ubiquitous white chrysotile stringers.	
279.25	279.60		I I GA	lgy	Light grey f.g. weakly sericitised micro-leucogabbro dyke. Sharp intrusive contacts. Core solid.	Sericite.		Top contact 20°, lower contact 70° to CA.		
279.60	288.95		I U SE	bk gn	As 60.15 - 70.75m. F.g.micro-leucogabbro patches 5cm across 283.00 - 283.20m and at 284.80m, 287.70m. Core relatively solid (10 - 30cm sticks) to 285.20m			Fractures 60°, 70° to CA.	Ubiquitous white chrysotile stringers.	
288.95	289.45		I M GA	lgy	Light grey m.g. weakly sericitised micro-leucogabbro dyke made up of quartz-pale pink feldspar and minor sericitised ?mafic phenocrysts. Large 8x5cm serpentinite xenolith near top. Sharp intrusive contacts. Core solid.	Sericite.		Top contact 20°, lower contact 70° to CA.		
289.45	296.05		I U SE	bk gn	As 60.15 - 70.75m. Core very broken to some 20cm sticks to 295.00m, then core broken to relatively solid (10 -30cm sticks).			Fractures 20°, 30°, 70° to CA.	Ubiquitous white chrysotile stringers.	
296.05	296.40		I I GA	lgy	Light grey f.g. weakly sericitised micro-leucogabbro dyke. Rare sericitised ?mafic phenocrysts. Small 1x1cm serpentinite xenolith. Stopped intrusive contacts. Core solid.	Sericite.		Top contact 10°, lower contact 60° to CA.		
296.40	298.85		I U SE	bk gn	As 60.15 - 70.75m. core broken to relatively solid (10 -30cm sticks).			Fractures 45°, 70° to CA.	Ubiquitous white chrysotile stringers.	
298.85	299.05		I M GA	lgy	Light grey f.g. moderately sericitised micro-leucogabbro dyke. Several small 1x1cm serpentinite xenoliths. Stopped intrusive contacts. Core solid.	Sericite.		Top contact 45°, lower contact 50° to CA.		
299.05	309.95		I U SE	bk gn	As 60.15 - 70.75m. Core broken to relatively solid (10 -30cm sticks) to 305.40m, then broken to very broken to 309.20m, then 10 - 20cm sticks.			Fractures 20°, 30°, 70° to CA.	Ubiquitous white chrysotile stringers.	
309.95	310.60		I I GA	lgy	Light grey f.g. to c.g moderately sericitised micro-leucogabbro dyke. Chilled margins. Sericitised ?mafic phenocrysts common. Stopped intrusive contacts. Core solid.	Sericite.		Top contact 30°, lower contact 90° to CA.		
310.60	339.90		I U SE	bk gn	As 60.15 - 70.75m. 321.65 - 321.85m: several 5cm patches of light grey micro-leucogabbro. Basal 30cm sericitised/plagioclase altered highlighting the original coarse olivine pyroxenite texture and grades into micro-leucogabbro below. Core broken to relatively solid (10 -30cm sticks) to 312.30m, broken with minor 10cm sticks to 324.60m, 20 - 30cm sticks to 327.00m, very broken to 330.40m, then 10 - 30cm sticks with minor broken core.	Sericite/plagioclase		Fractures 20°, 45°, 70° to CA.	Ubiquitous white chrysotile stringers.	
339.90	340.40		I M GA	lgy	Light grey f.g. to c.g moderately sericitised micro-leucogabbro dyke. Chilled margins. Sericitised ?mafic phenocrysts <5mm across common. Stopped intrusive contacts. Core solid.	Sericite.		Contacts gradational.		
340.40	344.20		I U SE	bk gn	As 60.15 - 70.75m. Basal 1.20m sericite/plagioclase altered highlighting the original coarse olivine pyroxenite texture and grades into micro-leucogabbro below. Core in 10 - 15cm sticks.	Sericite/plagioclase		Fractures 50°, 60° to CA.	Ubiquitous white chrysotile stringers.	

**ZINIFEX ROSEBERY MINE
SURFACE EXPLORATION**

DIAMOND DRILL HOLE LOGGING

Hole_ID:	HGW1	Project	Henty
Hole_Type:	DDH	Tenement_No.	EL 7/2001
AMG_E	376190E	Geologist	L David
AMG_N	5355650N	Date	11/06 Year: 2006

lgy = light grey, lgn =light green

344.20	359.60		I I GA	lgy	Light grey c.g. to v.c.g variably sericitised micro-leucogabbro dyke. Made up of light brown to light green completely sericitised ?augite pyroxene crystals (<1cm across) and interstial white feldspar. Stopped intrusive gradational contacts. Core solid, 15 - 30cm sticks. Wide sericitised transition zone from 356.30m to interval end including 358.30m - 358.40m and 358.50m - 358.60m: brown amorphous silica with sharp contacts 50o to CA.	Moderate to strong sericite.	345m - 347.70m and 353.80m - 358.10m: trace to 2% red brown ?SPH, ?mica or hematite stained clots 1 - 2mm across	Contacts gradational. Fractures 30°, 70° to CA.	Minor qtz veins <5mm wide	
359.60	371.60		I U SE	bk	Black hard hornfelses serpentinite with relict coarse olivine pyroxenite texture. Weakly magnetic. Core relatively solid (10 -30cm sticks). Chrysotile stringers absent.			Fractures 50°, 60° to CA.		
371.60	375.40		I U XX	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. Core relatively solid (10 - 20cm sticks), locally broken.	Strong sericite		Diffuse gradational contacts.		
375.40	392.90		I U SE	bk	Black hard hornfelses serpentinite with relict coarse olivine pyroxenite texture. Weakly magnetic. Core relatively solid (10 -30cm sticks). Chrysotile stringers absent. 10 - 15cm zones of sericite alteration with some pyroxene recrystallisation in top 3m. 386.30m: 5cm micro-leucogabbro dyke. 389.80 - 390.10m: Strong ?feldspar alteration.			Fractures 60° to 70°, rarely 30° to CA.		
392.90	393.20		I M GA	lgy	Light grey f.g. weakly sericitised micro-leucogabbro dyke. Minor sericitised ?mafic phenocrysts. Sharp intrusive contacts. Core solid.	Sericite.		Top contact 70°, lower contact 90° to CA.		
393.20	407.10		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 20cm sticks with some very broken zones 20cm to 1m wide.			Fractures 30°, 55°, 70° to CA.		
407.10	407.20		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
407.20	412.25		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 20cm sticks with some very broken zones 20cm to 1m wide.			Fractures 30°, 55°, 70° to CA.		
412.25	412.40		I M GA	lgy	Light grey f.g. weakly sericitised micro-leucogabbro dyke. . Stopped intrusive contacts. Core solid.	Sericite.		Contacts broken		
412.40	419.35		I U SE	bk	As 60.15 - 70.75m. 416.00m - 417.30m: Patchy brown serpentinite with disseminated 2mm red-brown stained angular phenocrysts. Core broken to very broken.			Fractures 30°, 55°, 70° to CA.		
419.35	419.40		X CL	lgy	Pug clay, light grey, with angular m.g. unconsolidated serpentinite fragments.			Contacts broken		Fault crush zone
419.40	430.20		I U SE	bk	As 60.15 - 70.75m. Core broken to very broken to 426.00m then 10cm sticks with broken zones common.			Fractures 55° to CA.		
430.20	431.10		I M GA	lgy	Light grey m.g. sericitised micro-leucogabbro dyke. Sharp intrusive contacts. Core solid.	Sericite.		Top contact 60°, lower contact 60° to CA.		
431.10	434.20		I U SE	bk	As 60.15 - 70.75m. 432.15m - 432.25m: Light grey f.g. sericitised micro-leucogabbro dyke. Core in 10 - 30cm sticks with some broken zones.			Fractures 30°, 55°, 70° to CA.		
434.20	434.50		I M GA	lgy	Light grey m.g. weakly sericitised micro-leucogabbro dyke. Minor sericitised ?mafic phenocrysts. Minor qtz veins. Gradational stopped intrusive top contact, sharp intrusive bottom contact. Core solid.	Sericite.		Lower contact 50° to CA.		
434.50	441.40		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with some broken zones.			Fractures 45°, 70°, minor 30° to CA.		
441.40	441.65		I M GA	lgy	Light grey m.g. strongly sericitised micro-leucogabbro dyke. Minor sericitised ?mafic phenocrysts. Gradational stopped intrusive contacts. Core solid.	Sericite.		Contacts diffuse.		

**ZINIFEX ROSEBERY MINE
SURFACE EXPLORATION**

DIAMOND DRILL HOLE LOGGING

Hole_ID:	HGW1	Project	Henty
Hole_Type:	DDH	Tenement_No.	EL 7/2001
AMG_E	376190E	Geologist	L David
AMG_N	5355650N	Date	11/06 Year: 2006

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441.65	449.30		I U SE	bk	As 60.15 - 70.75m. Core broken with some 10cm sticks.			Fractures 45°, 70°, minor 30° to CA.	
449.30	449.90		I U X X	gn	Serpentinite strongly sericitised highlighting coarse olivine pyroxenite texture. 10cm micro-leucogabbro dyke at 449.75m. Core in 10 - 30cm sticks with minor broken zones.	Strong sericite		Top contact 55°, lower contact 40° to CA.	
449.90	453.10		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with minor broken zones. 25cm plagioclase altered zone near top.	Plagioclase		Fractures 45°, 70°, minor 30° to CA.	
453.10	453.40		I M GA	lgy	Light grey c.g. weakly sericitised leucogabbro dyke. Sericitised ?mafic phenocrysts common. Gradational stoped intrusive top contact, sharp intrusive lower contact. Core solid.	Sericite.		Top contact diffuse, lower contact 60° to CA.	
453.40	454.65		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with minor broken zones.			Fractures 45°, 70°, minor 30° to CA.	
454.65	455.20		I M GA	lgy	Light grey c.g. weakly sericitised leucogabbro dyke, sericitised ?mafic phenocrysts common. Sharp intrusive top contact, gradational stoped intrusive lower contact. Core solid.	Sericite.		Top contact diffuse, lower contact 60° to CA.	
455.20	457.00		I U SE	bk	As 60.15 - 70.75m. Top 30cm sericite/plagioclase altered, grading into leucogabbro above. Core in 10 - 30cm sticks with minor broken zones.	Sericite/plagioclase		Fractures 45°, 70°, minor 30° to CA.	
457.00	459.50		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. 10cm leucogabbro dyke at 449.75m. Core in 10 - 30cm sticks with minor broken zones.	Sericite/plagioclase		Diffuse contacts	
459.50	461.00		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with minor broken zones.			Fractures 45°, 70°, minor 30° to CA.	
461.00	463.80		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<10mm across) in minor plagioclase groundmass. Core in 10 - 30cm sticks with rare broken zones.	Strong sericite		Diffuse contacts	
463.80	467.00		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with rare broken zones.			Fractures 45°, 70°, minor 30° to CA.	
467.00	467.40		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. 10cm leucogabbro dyke at 449.75m. Core in 10 - 30cm sticks with rare broken zones.	Strong sericite		Diffuse contacts	
467.40	470.90		I U SE	bk	As 60.15 - 70.75m. Core in 10 - 30cm sticks with rare broken zones.			Fractures 45°, 70°, minor 30° to CA.	
470.90	471.60		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. 10cm leucogabbro dyke at 471.00m. Core in 10 - 30cm sticks with rare broken zones.	Strong sericite		Diffuse contacts. Fractures 45o, 70o, minor 30o to CA.	
471.60	475.40		I U SE	bk	As 60.15 - 70.75m. Two 10cm sericite alteration zones near top. Core in 10 - 30cm sticks with rare broken zones.			Fractures 45°, 70°, minor 30° to CA.	

**ZINIFEX ROSEBERY MINE
SURFACE EXPLORATION**

DIAMOND DRILL HOLE LOGGING

Hole_ID:	HGW1	Project	Henty
Hole_Type:	DDH	Tenement_No.	EL 7/2001
AMG_E	376190E	Geologist	L David
AMG_N	5355650N	Date	11/06
		Year:	2006

lgy = light grey, lgn =light green

475.40	484.60		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (10 - 20mm across) in minor plagioclase groundmass.Minor unsericitised black-dark green massive serpentinite. Core solid in 20 - 40cm sticks.	Moderate to strong sericite		Diffuse contacts. Fractures 45o, 70o , minor 30o to CA.		
484.60	495.70		I U X X	gn	Strongly sericitic pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (10 - 20mm across) in minor plagioclase groundmass. Plagioclase altered in top 1.8m. Minor zones 30 - 40cm wide of c.g. leucogabbro with gradational contacts. 486.90m - 493.70m: bands of pale blue-green talc 10 - 30cm wide. Core solid in 20 - 40cm sticks.	Moderate to strong sericite/plagioclase. TALC.		Diffuse contacts. Fractures 45o, 70o , minor 30o to CA.		
495.70	499.80		I M G A	lgy	Light grey c.g. sericitised leucogabbro dyke made up of light brown to light green completely sericitised ?pyroxene crystals (<1cm across) and interstial white feldspar. Sericitised/talcosed altered ?mafic phenocrysts common. Minor intervals of sericitised olivine pyroxenite. Gradational intrusive lower contacts. Core solid 20 - 40cm sticks.	Sericite, TALC.		Top contact diffuse, lower contact 60° to CA.	Minor qtz-?plagioclase veins.	
499.80	508.00		I U X X	gn	Strongly sericitic to talcosed pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. Bands of pale blue-green talc 10 -30cm wide. Core solid in 20 - 40cm sticks.	Moderate to strong sericite. TALC.		Diffuse contacts. Fractures 45o, 70o , minor 30o to CA.		
508.00	508.90		I M G A	lgy	Light grey c.g. sericitised leucogabbro dyke made up of light brown to light green completely sericitised ?pyroxene crystals (<1cm across) and interstial white feldspar. Sericitised/talcosed altered ?mafic phenocrysts common. Minor intervals of sericitised olivine pyroxenite. Gradational intrusive lower contacts. Core solid 20 - 40cm sticks.	Sericite, TALC.		Top contact diffuse, lower contact 60° to CA.	Minor qtz-?plagioclase veins.	
508.90	511.50		I U X X	gn	Strongly sericitic to talcosed pyroxenite ?dyke with coarse subhedral to euhedral light green ?augite pyroxenes (<15mm across) in minor plagioclase groundmass. Bands of pale blue-green talc 5cm wide. Core solid in 20 - 40cm sticks.	Moderate to strong sericite. TALC.		Diffuse contacts. Fractures 45o, 70o , minor 30o to CA.		
EOH	EOH									