

Drill Hole Summary Report

Project: Heazlewood

Date Produced: 2-Mar-2010

Hole(s): HFD1

Collars		Project Heazlewood	HoleID HFD1
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LoggedBy	TM	Total Depth	344.40	Start Date	
				End Date	
AMG Easting	358229.03	MGA Easting		Hole Size	HQ/NTW
AMG Northing	5410102.030	MGA Northing		Drill Type	DD
RL	423.67			Drill Rig	P4
Local Easting				Drill Contractor	LIDDS
Local Northing					
Local RL					
Comments					

CoreSize		Project Heazlewood			HoleID HFD1		
Depth From	Depth To	Drill Type	Hole Size	Drill Rig	Drill Contractor	Date Started	Date Completed
0.0	101.4	DD	HQ	P4	LIDDS		
101.4	344.4	DD	NTW	P4	LIDDS		

DHSurvey		Project Heazlewood		HoleID HFD1		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
20	-68.5	84		97.00		Single-shot
50	-68.25	96		109.00		Single-shot
80	-68.25	92		105.00		Single-shot
110	-68	80		93.00		Single-shot
140	-68.5	101		114.00		Single-shot
170	-68.75	81		94.00		Single-shot
200	-68.75	87		100.00		Single-shot
230	-68.5	76		89.00		Single-shot
260	-68.75	39		52.00		Single-shot
290	-68.25	92		105.00		Single-shot
320	-68.5	91		104.00		Single-shot
344	-68.5	184		197.00		Single-shot

Alteration		Project Heazlewood			HoleID HFD1						
Depth From	Depth To	Texture1	Intensity1	Min1	Texture2	Intensity2	Min2	Texture3	Intensity3	Min3	Comments
0.00	22.00	P	4	Srp	D	1	Mt				bleached
22.00	65.50	P	1	Srp							patchy green serp-rich zones otherwise just pervasively serpentinised and containing abundant Mt veining
65.50	74.00	P	4	Srp							bleached, oxidized veins?
74.00	121.00	P	1	Srp							patchy green serp-rich zones otherwise just pervasively serpentinised and containing abundant Mt veining
121.00	140.00	P	4	Srp							distinctly more green
140.00	344.40	P	1	Srp							patchy green serp-rich zones otherwise just pervasively serpentinised and containing abundant Mt veining and disseminated chromite

Fabric		Project Heazlewood				HoleID HFD1	
Depth From	Depth To	Type	Intensity	Alpha	Beta	Comments	
0.00	344.40					negligible	

Fault		Project Heazlewood		HoleID HFD1	
Depth From	Depth To	Width mm	Alpha	Style	Comments
5.40	5.55			PuRu	oxidized pug?
56.80	57.90			Rh	breccia zone, more oxidized
84.50	84.70			Rh	breccia zone
121.00	121.02		25	Ru	
149.30	149.31		75	CIPu	grey clay fault
169.45	169.50		80	CIPu	grey clay fault
170.30	170.45		75	CIPu	grey clay fault
175.75	176.15		50	Rh	breccia zone
193.10	193.60		75	CIPu	grey clay fault...5x5-10cm faults with 4 rock pillars (~3-4cm) inbetween
194.85	194.95		80	CIPu	grey clay fault
291.00	291.15			RuPu	
339.60	340.30		30	SIRu	rods bogged-in at eoh...possible significant clay fault at this location.

Lithology		Project Heazlewood		HoleID HFD1									
Depth From	Depth To	Strat	Rock Type	Colour	Frag Comp	Frag Size	Frag Shape	Matrix Comp	Matrix Volume	Lower Contact Gradation	Lower Contact Style	Comments	
0.00	59.05		Srp	2GyGn						G1	C	grey-cream-green magnetite-veined serpentinite	
59.05	72.25		Pd/Srp	2Gy						G1		very fine plag? As matrix to ~0.5cm mafic domains (ex olivine?)	
72.25	110.30		Srp	2Gy						G1		disseminated Mt	
110.30	120.70		Srp	2Gy						G1			
120.70	125.25		Pd	1Gy						G1			
125.25	133.35		Du	1Gn						G1		disseminated Mt	
133.35	139.60		Srp	2GyGn						G1		2-5cm intervals of dol/gabbro as seen on surface	
139.60	173.20		Srp	2GyBk						G1			
173.20	219.00		Pd/Srp	2GyBk								more veining in this interval, trace dissem suls 180-182 and 197.0 (this one a bit more convincing), from 209m: sparse relict feldspars?	
219.00	231.50		Srp	2GyGn						S	C	224.3: relict gabbroic (bronzite?) layers intrusions	
231.50	232.10		Gb/Srp	2GyGn						S	C	bronzitic layers...preferentially veined with green jade-like silicate tension veins...zaratite?	
232.10	344.40		Srp	2GyGn								uniform serpentinitised rock...relict peridotite texture?....common disseminated chromite.....gabbroic vein-like intrusions/relict layers 289.7 and 320.4 (bronzite). These are only in the order of 3-7cm as in the upper parts of the hole.	

Mineralisation		Project Heazlewood		HoleID HFD1
Depth From	Depth To	Min Texture	Min Con	Comments
180.90	182.40	Ds	Py0.5	possible pentlandite
196.90	197.10	Ds	Pn0.5	possible pentlandite in Mt veinlet
209.50	209.55	Ds	pn0.5	possible pentlandite in Mt veinlet
230.00	250.00	Ds	Py0.5	may just be super fine chromites?

Remarks			Project Heazlewood	HoleID HFD1
Depth From	Depth To	Remark		

RQD		Project Heazlewood			HoleID HFD1	
Depth From	Depth To	Recovery	Recovery Pct	gt10cm	RQD	Comments
0.00	2.20	0.8	36	0	0.0	
2.20	3.50	1.4	108	0.58	45.0	
247.50	250.60	3.1	100	2.82	91.0	
250.60	253.50	2.9	100	2.83	98.0	
253.50	256.50	3	100	3	100.0	
256.50	258.90	2.4	100	1.79	75.0	
258.90	260.20	1.3	100	0.86	66.0	
260.20	263.30	3.1	100	3.1	100.0	
263.30	266.30	3	100	2.87	96.0	
266.30	269.30	3	100	2.92	97.0	
269.30	272.40	3.1	100	3.1	100.0	
272.40	275.30	2.9	100	2.81	97.0	
275.30	278.40	3.1	100	2.69	87.0	
278.40	281.20	2.8	100	2.68	96.0	
281.20	284.30	3.1	100	3	97.0	
284.30	287.40	3.1	100	2.79	90.0	
287.40	290.40	3	100	3	100.0	
290.40	293.40	2.96	99	2.46	82.0	
293.40	296.40	3	100	3	100.0	
296.40	299.40	3	100	3	100.0	
299.40	302.40	3	100	3	100.0	
302.40	305.40	3	100	2.93	98.0	
305.40	308.40	2.97	99	2.9	97.0	
308.40	311.40	3	100	2.92	97.0	
311.40	314.40	3	100	2.92	97.0	

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HoleID Range H - H

Depth From	Depth To	Recovery	Recovery Pct	gt10cm	RQD	Comments
314.40	317.40	2.96	99	2.88	96.0	
317.40	320.40	3	100	2.96	99.0	
320.40	323.40	3	100	2.76	92.0	
323.40	326.40	3	100	2.89	96.0	
326.40	329.30	2.9	100	2.65	91.0	
329.30	332.40	3.1	100	2.75	89.0	
332.40	335.40	2.89	96	2.27	76.0	
335.40	338.40	3	100	2.6	87.0	
338.40	341.40	2.9	97	1.49	50.0	
341.40	344.40	2.77	92	2.4	80.0	
3.50	4.10	0.42	70	0.28	47.0	
4.10	5.40	1.03	79	0.69	53.0	
5.40	6.40	1	100	0.26	26.0	
6.40	8.40	1.75	88	0.66	33.0	
8.40	10.60	2.04	93	1.73	79.0	
10.60	11.60	0.97	97	0.87	87.0	
11.60	12.90	1.05	81	0.59	45.0	
12.90	14.40	1.59	106	1.22	81.0	
14.40	17.40	2.9	97	1.88	63.0	
17.40	20.40	2.93	98	2.3	77.0	
20.40	23.10	2.48	92	1.69	63.0	
23.10	26.20	2.97	96	1.3	42.0	
26.20	29.10	2.9	100	2.35	81.0	
29.10	32.20	3.1	100	2.62	85.0	
32.20	34.70	2.14	86	1.45	58.0	
34.70	37.70	3	100	2.87	96.0	
37.70	40.80	3	97	2.53	82.0	

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HoleID Range H - H

Depth From	Depth To	Recovery	Recovery Pct	gt10cm	RQD	Comments
40.80	42.40	1.6	100	1.48	92.0	
42.40	44.40	2	100	1.92	96.0	
44.40	47.30	3	103	2.9	100.0	
47.30	50.40	3	97	2.67	86.0	
50.40	53.40	2.89	96	2.58	86.0	
53.40	56.40	3	100	2.7	90.0	
56.40	59.40	3	100	2.2	73.0	
59.40	62.40	3	100	2.52	84.0	
62.40	65.20	2.65	95	2.42	86.0	
65.20	68.30	3.1	100	2.58	83.0	
68.30	71.40	3.1	100	2.09	67.0	
71.40	74.40	3	100	1.55	52.0	
74.40	77.40	3	100	2.61	87.0	
77.40	80.40	3	100	2.28	76.0	
80.40	82.70	2.14	93	1.3	57.0	
82.70	85.80	3.1	100	2.05	66.0	
85.80	88.90	3.1	100	2.69	87.0	
88.90	92.00	3.1	100	2.42	78.0	
92.00	94.70	2.7	100	1.86	69.0	
94.70	97.80	3.04	98	2.01	65.0	
97.80	99.90	1.4	67	0.84	40.0	
99.90	101.40	1.5	100	1.41	94.0	
101.40	104.40	2.67	89	1.53	51.0	
104.40	107.40	3	100	2.84	95.0	
107.40	110.30	2.9	100	2.44	84.0	
110.30	113.40	2.8	90	2.07	67.0	
113.40	116.20	2.8	100	2.07	74.0	

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Depth From	Depth To	Recovery	Recovery Pct	gt10cm	RQD	Comments
116.20	119.30	3.1	100	3.1	100.0	
119.30	121.90	2.34	90	1.38	53.0	
121.90	125.00	3.1	100	2.22	72.0	
125.00	128.10	3.1	100	2.24	72.0	
128.10	131.20	3.1	100	2.6	84.0	
131.20	134.30	3.1	100	2.98	96.0	
134.30	137.40	3.1	100	2.96	95.0	
137.40	140.40	3.05	102	2.97	99.0	
140.40	141.20	0.8	100	0.8	100.0	
141.20	143.40	2.2	100	2.12	96.0	
143.40	146.20	2.8	100	2.8	100.0	
146.20	149.20	3	100	3	100.0	
149.20	152.20	3	100	2.55	85.0	
152.20	155.10	2.9	100	2.27	78.0	
155.10	158.20	3.1	100	2.54	82.0	
158.20	161.30	3.1	100	2.45	79.0	
161.30	163.00	1.7	100	1.31	77.0	
163.00	164.40	1.4	100	1.03	74.0	
164.40	167.40	3	100	3	100.0	
167.40	170.20	2.8	100	2.8	100.0	
170.20	173.30	2.98	96	2.39	77.0	
173.30	176.40	3	97	2.72	88.0	
176.40	179.40	3	100	1.77	59.0	
179.40	182.40	3	100	2.93	98.0	
182.40	185.40	3	100	3	100.0	
185.40	187.90	2.5	100	2.43	97.0	
187.90	189.50	1.6	100	1.43	89.0	

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HoleID Range H - H

Depth From	Depth To	Recovery	Recovery Pct	gt10cm	RQD	Comments
189.50	191.40	1.9	100	1.81	95.0	
191.40	192.90	1.5	100	1.5	100.0	
192.90	193.70	0.69	86	0.19	24.0	
193.70	195.00	1.3	100	1.19	92.0	
195.00	195.30	0.2	67	0.2	67.0	
195.30	197.40	2.2	105	1.98	94.0	
197.40	198.40	0.83	83	0.66	66.0	
198.40	200.40	2	100	1.92	96.0	
200.40	203.40	3	100	2.84	95.0	
203.40	206.40	3	100	3	100.0	
206.40	209.40	3	100	2.94	98.0	
209.40	211.60	2.2	100	2.12	96.0	
211.60	214.60	3	100	3	100.0	
214.60	215.70	1.1	100	1.1	100.0	
215.70	218.40	2.7	100	2.53	94.0	
218.40	221.40	3	100	2.89	96.0	
221.40	224.40	3	100	2.88	96.0	
224.40	226.60	2.2	100	2.03	92.0	
226.60	229.00	2.4	100	2.32	97.0	
229.00	230.40	1.4	100	1.14	81.0	
230.40	233.40	3	100	2.92	97.0	
233.40	235.90	2.5	100	2.32	93.0	
235.90	239.00	3.1	100	2.76	89.0	
239.00	240.70	1.7	100	1.65	97.0	
240.70	242.40	1.7	100	1.54	91.0	
242.40	245.40	3	100	3	100.0	
245.40	247.50	2.1	100	1.8	86.0	

Veining		Project Heazlewood		HoleID HFD1
Depth From	Depth To	Min Texture	Min Con	Comments
180.90	182.40	Ds	Py0.5	possible pentlandite
196.90	197.10	Ds	Pn0.5	possible pentlandite in Mt veinlet
209.50	209.55	Ds	pn0.5	possible pentlandite in Mt veinlet
230.00	250.00	Ds	Py0.5	may just be super fine chromites?

Weathering		Project Heazlewood		HoleID HFD1
Depth From	Depth To	Min Texture	Min Con	Comments
180.90	182.40	Ds	Py0.5	possible pentlandite
196.90	197.10	Ds	Pn0.5	possible pentlandite in Mt veinlet
209.50	209.55	Ds	pn0.5	possible pentlandite in Mt veinlet
230.00	250.00	Ds	Py0.5	may just be super fine chromites?

Drill Assays		Project	Heazlewood	HoleID	HFD1							
Depth From	Depth To	Sample ID	Samp Type	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe pct	Pb ppm	Zn ppm	SG
223.00	224.00	HF302370	HalfCore									
225.00	226.00	HF302372	HalfCore									
230.50	231.50	HF302373	HalfCore									
232.50	233.50	HF302375	HalfCore									
249.00	250.00	HF302377	HalfCore									

Lithology Codes

Strat Codes

Code	Description
URS	Andesite
QRS	Basalt
PLS	Barite
HVS	Base Metal Sulphide
HMS	Chert
FES	Dacite
FPS	Disseminated Base Metal Sulphide
LBS	Feldspar Phyrlic Andesite
SEZ	Glassy silica – colloform pyrite ore
STZ	Highly Altered (no primary textures)
HD	Fault Zone
HVS	Shear Zone
QMS	Polymict
FAZ	Pumice
FA	“Quellite”
LBS	Rhyolite
CICo	
IHCo	
PBx	
SP	
SeCo	

FRSH Codes

Code	Description
A	Angular
sA	Sub-angular
sR	Sub-rounded
R	Rounded

Rock Type Codes

Code	Description	Code	Description
A	Andesite	RD	Rhyodacite
Arg	Argillite	R	Rhyolite
Ak	Arkose	Ss	Sandstone
B	Basalt	Sch	Schist
Bsh	Black shale	Srp	Serpentine
BMS	Base Metal Sulfide	Sh	Shale
Ch	Chert	Slt	Siltstone
Cg	Conglomerate	Tr	Trachyte
D	Dacite	Tf	Tuff
Di	Diorite	Vc	Volcaniclastic
Dol	Dolerite	Vs	Volcaniclastic
Dm	Dolomite	VCg	Volcaniclastic Cg
Du	Dunite	BxC	BRECCIA - CARBONATE DOMINANT
E	Epiclastic (noun)	Cav	CAVITY
F	Fault	Fill	STOPE FILL
FZ	Fault zone		
Gb	Gabbro		
Gos	Gossan		
Gr	Granite		
Gd	Granodiorite		
Gw	Greywacke		
I	Intrusive		
Lst	Limestone		
Ml	Marl		
MPy	Massive Pyrite		
MS	Massive Sulfide		
Mst	Mudstone		
Pd	Peridotite		
Pic	Picrite		
Y	Polymict		
Por	Porphyry		
Pu	Pumice		
Qtz	Quartzite		
Qll	Quellite		

Colour Codes

Code	Description
bk	Black
bl	Blue
brt	Bright
br	Brown
col	Colour
cm	Crimson
dk	Dark
gn	Green
gy	Grey
kh	Khaki
lgt	Light
ow	Off white
or	Orange
pl	Pale
pk	Pink
pp	Purple
rd	Red
wh	White
yw	Yellow

Colour Intensity Codes

Code	Description
D	Dark
L	Light
B	Bright

Min Codes

LCStyle Codes

FRSort Codes

Fault Style Codes

Code	Description	Code	Description
Adl	Adularia	Li	Limonite
Ab	Albite	Mt	Magnetite
Afd	Alkali feldspar	Mn	Manganese
Amb	Amphibole	Mic	Mica
An	Andalusite	Ol	Olivine
An	Ankerite	Py	Pyrite
Apt	Apatite	Pr	Pyrolusite
Apl	Aplite	Px	Pyroxene
Ap	Arsenopyrite	Po	Pyrrhotite
Ba	Barite	Qz	Quartz
Bio	Biotite	Se	Sericite
Cc	Calcite	Sid	Siderite
Co	Carbonate	Si	Silica
Cass	Cassiterite	Sp	Sphalerite
Cp	Chalcopyrite	Tc	Talc
Cl	Chlorite	Tm	Tourmaline
Cr	Chromite		
cy	Clay		
Ep	Epidote		
Fd	Feldspar		
Fdd	Feldspathoid		
Fl	Fluorite		
Fu	Fuchsite		
Gn	Galena		
Gl	Glass		
Gt	Graphite		
Hm	Haematite		
Hb	Hornblende		
Ill	Illite		
Kf	K-Feldspar		
Lct	Leucite		

Code	Description
C	Conformable
F	Interfingering
I	Irregular ht

Code	Description
W	Well Sorted
M	Moderately Sorted
P	Poorly Sorted

Code	Description
Br	Brecciated
Cv	Cavernous
Pu	Puggy
Rh	Rehealed
Sl	Slickensided
Co	Carbonate
Cl	Chlorite
Si	Quartz
Ru	Rubble
Se	Sericite
Sh	Sheared

GrainSize Codes

Code	Description
bld	Boulder
gr	Gravel
peb	Pebble
c	Coarse
cg	Coarse grained
med	Medium
mg	Medium grained
f	Fine
fg	Fine grained
O	

Intensity Codes

Code	Description
1	Trace
2	Weak
3	Moderate
4	Strong
5	Intense

Weathering Codes

Code	Description
L	Leached
O	Oxidised

Fabric Type Codes

Code	Description
	Bedding
	Banding
	Clast alignment
	Cleavage
	Flow Banding
	Shearing
	Sulphide banding
	Vesicle alignment

LCGrad Codes

Code	Description
S	
F	
G1	
G2	
G3	

Bd	Sharp but not faulted
Bn	Faulted
CA	Gradational up to 1m
Cl	1-10m
FB	Over 10m
Sh	ded
SB	
VA	

MAComp Codes		Min Texture Codes		Alteration Texture Codes	
Code	Description	Code	Description	Code	Description
Ab	Albite	Bn	Banded	D	Disseminated
Bt	Biotite	Br	Brecciated	F	Fragments
Co	Carbonate	Cm	Colloform	IP	Interpillow
Cl	Chlorite	Ds	Disseminated	K	Stockwork
Cy	Clay	Eu	Euhedral	L	Local
Ep	Epidote	Fr	Fragmental	lch	Leached
Fd	Feldspar	Fb	Framboidal	M	Matrix
Fu	Fuchsite	IP	Inter-pillow	mtl	Mottled
Ht	Hematite	JP	Joint plane coating	N	Nodular
Il	Illite	Ma	Massive	P	Pervasive
Kfd	K-Feldspar	No	Nodular	pat	Patchy
Li	Limonite	Pm	Pillow margin	per	Pervasive
Mt	Magnetite	Pa	Patches	PM	Pillow Margins
Py	Pyrite	Rx	Recrystallised	R	Rim
Po	Pyrrhotite	Rw	Reworked	S	Structure controlled
Qz	Quartz	Sh	Sheared	spt	Spotted
Se	Sericite	Ss	Shrinkage shadows	spy	Spotty
Si	Silica	Vn	Veins	V	Veins
Ta	Talc	VS	Vein selvage		
Tr	Tremolite	Bx	Boxwork veining		
Tm	Tourmaline	Nd	Acicular Needles		
av	Ash	Bn	Banded		
X	Crystal	CV	Cockade Vein		
G	Glassy	Gn	Granular		
L	Lithic	Ma	Massive		
V	Vitric	Rw	Reworked		
		TN	Tabular Networks		