Table of Contents

Diamond Drill Logs
HC - 20
HC - 21
HC - 22
HC - 23
GE - 24
GE - 25
GE - 26
B - 27

List of Illustrations

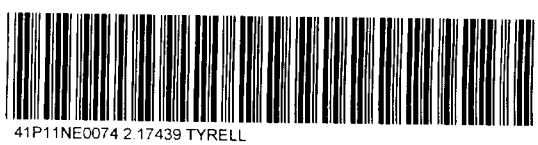
Haddington Resources Ltd. Properties NW. Tyrrell Tp. (location map) Scale: 1:20,000

Haddington Resources Ltd. Property & Diamond Drilling, Hydro Creek-Hare Lake- Goldeye Options Scale: 1:10,000

Summary of Bedrock Assays (Diamond Drill Plan) Scale: 1:2000

Diamond Drill Sections

9,900E	Drill hole	HC - 20	Scale: 1:500
10,575E	Drill hole	HC - 21	Scale: 1:500
10,650E	Drill hole	HC - 22, HC-13, HC-15	Scale: 1:1000
10,850E	Drill hole	HC - 23, GE-5	Scale: 1:1000
10,900E	Drill hole	GE - 24, GE-25, B-27	Scale: 1:1000
10,950E	Drill hole	GE - 25, GE-17	Scale: 1:1000
11,000E	Drill hole	GE - 26	Scale: 1:1000

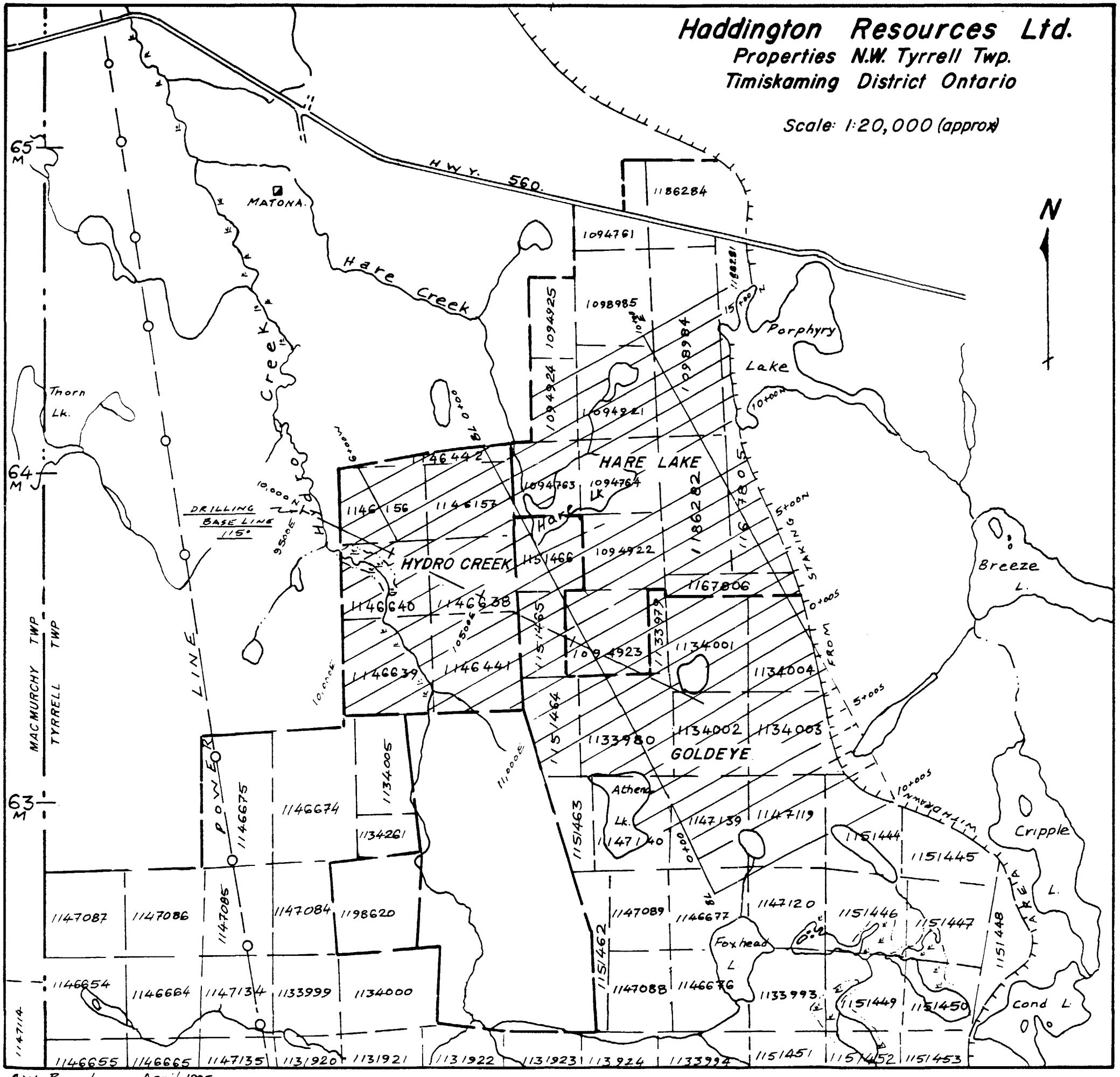


Haddington Resources Ltd.

Properties N.W. Tyrrell Twp.

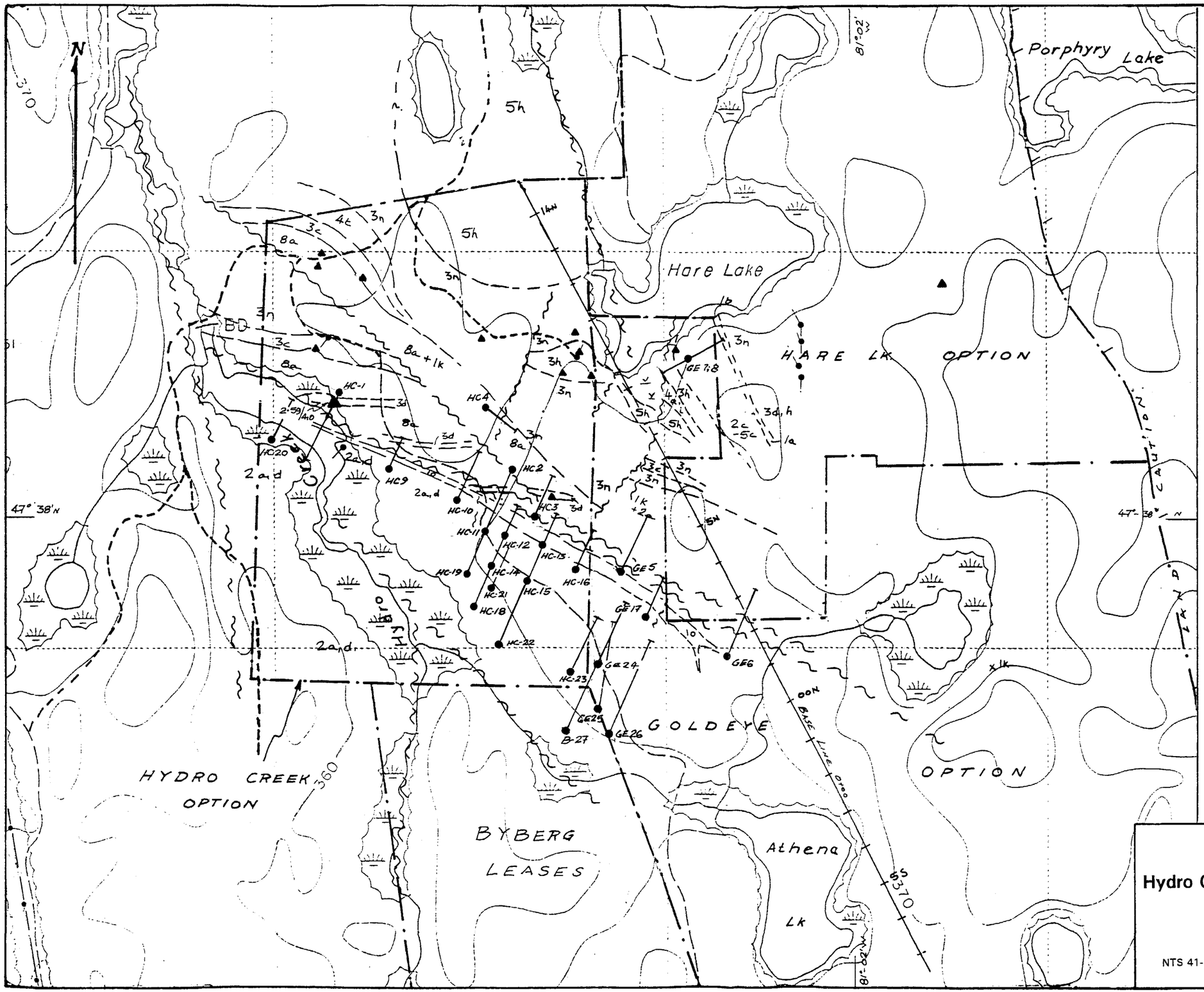
Timiskaming District Ontario

Scale: 1:20,000 (approx)



A.W. Beecham April 1995;

FIG. 2.



Legend

10	Diabase (Archean)
8a	Green carbonate rocks, altered komatiites
5c	Gabbro, (normal)
5h	Hornblende porphyritic diorite, gabbro
4a	Argillite, siltstone; 4t. Turbidites, 4i. Feldspathic quartzite
3c	QFP tuffs, tuff breccia
3d	QFP intrusives
3g	Feldspar phyric tuff, tuff Bx
3h	Dacite porphyry, FP intrusive
3n	Fine intermediate to felsic volcanic "trachyte"
2	Mafic volcanics, 2a. massive, 2d. pillowed; 2c. coarse grained, gabbroic
1	Komatiites; 1a spinifex textured 1b.polyhedral jointed;1k komatiitic basalt;

Symbols and Abbreviations

- ▲ Gold occurrence, Showing
- 2.59/4.0 Assays, grams Au /tonne/metres
- ●— Diamond drill hole
- ~~~ Fault, shear zone
- —— Property boundary
- - - - Road

Notes:

Geology & compilation Oct. 1994 - Jan. 1995
by: A.W. Beecham
Base Map modified from OBM 17 4900 52700

0 100 200 300 400 500
metres.

Haddington Resources Ltd.
Geology & Diamond Drilling
Hydro Creek -Hare Lake -Goldeye Options
Shining Tree Area
Tyrrell Township, District of Timiskaming

Scale: 1:10,000 approx.

NTS 41- P-11

July 1996

Core Storage

Diamond Drill Holes: **HC-20 to 23**
GE-24 to 26
B - 27;

Core racks located at Lacarte cabin, 150m west of Hare Lake, Tyrrell Township;

DIAMOND DRILL HOLE LOG

HOLE No. HC-20

Property	Tp		Azimuth	Date started	Depth	Az mg	Az Ca'd	Dip(°)	Location Sketch
HYDRO CREEK	TYRRELL		025°	4th Mar. 1996	0m		025°	55°	
Project	Lot & Conc.		Dip	Date Completed	50m	034°	025°	53°	
			55 °	7th Mar.1996	195m	041°	032°	53°	
Claim #1146640	Co-ordinates		Length (metres)	Drilled by:					Point surveyed rodal deck 1.07m from top of casing
			195.0	St.Lambert Drilling					
Grid # Mine grid	9820.80N	9900.35E	Collar Elevation	Logged by:					
1995 115° DD.B_L			9992.86	A.W. Beecham					CORE SIZE : N.Q.

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		OBJECTIVE:-Test TSZ up-ice from mod. soil gold anomally + 100m west of marginal values in HC 01							
0	16.7	CASING							
16.7	17.9	MASSIVE MAFIC OR ULTRAMAFIC VOLCANIC Dk. grey-green - f.m.g. - granular H=3; Carb. rich. Struct:Cut by numerous chlorite veinlets - looklike polystructure joints; Alt. & Veins:Pervasive carb; calcite veinlets Remarks:texture + chl. polystructural joints suggest maybe komatiitic;							
17.9	20.8	BLEACHED MAFIC FLOW; Med.-lt. soft grey f.g. H=3; Struct:'flow struct,' Some primary(?) bx; sections broken core Alt. & Veins:Minor lt. grey calcite + whit e qtz. veinlets.							
20.8	21.5	THIN BEDDED SILTSTONE; Med. light grey fine -very fine grained, H=4-6 Struct:Thin bedded at 40° - 35° Alteration: Appears bleached some beds in siliceous; Min:tr diss'd Py in siliceous layers at top; Remarks:Same colour as surrounding volcanics.	52506	20.8	21.8	1.0	tr	0.01	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
21.5	30.6	BLEACHED MAFIC VOLCANICS As above 17.9-20.8 Structure:Relatively massive, some possible flow structures Sections of broken core						
		Alteration & Veins;Bleached Minor lt. grey calcite + white qtz veinlets. Bleaching + splitting towards bottom.	52507	24.5	26.0	1.5	-	0.01
30.6	34.9	THIN BEDDED SILTSTONE & CHERT; Lt. + med. grey, very fined grained to aphomitic; Mostly siltstone + chert with minor argillite. Struct:Thin to thick bedded at 35^{O} - 40^{O}; Alt;Mottling + 'grid -type' felsic (sil) alteration; 'Chert" maybe sil'n Veins:lt. grey, mottled q.v. - 2cm @ 33.6	52508	33.3	33.8	0.5	-	nil
		Min: isolated tr of Py						
34.9	42.9	SHEARED ALTERED MAFIC VOLCANICS; Med. grey, streaked with lt. green mica f.g. H=3 Struct:Streaky contorted schistosity @ average CA50^{O}.						
		Alteration & Veins:5-10% lt. grey, calc. veinlets, streaks, partings.	52509	35.0	35.7	0.7	-	0.01
		35.8-36.6 -20% med. grey mottled qtz. with lt. green mica	52510	35.7	36.7	1.0	tr	0.01
		1/2 of unit streaked with med. lt. green mica;	52511	36.7	38.2	1.5	-	nil
			52512	38.2	39.7	1.5	-	0.01
		Min:tr Py with green mica. Remarks:Chl'd pillow selvages from 42-42.9m.						
42.9	78.1	DIABASES DYKE Dk. grey-green -f.g. with med. c.g. 'core'. Relative hard + unaltered. Uniform textured. Struct:Massive, no penetative deformation.Weakly to mod. fract. Upper Ct. obscured by alt. -angel @ 45^{O}; Lower Ct.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Veins & Alteration:lt.grey calcite + calcite epidote veinlets especially from 50-59m. Minor, mottled lt. grey qtz. veinlets. Min:Scattered small grains, diss'd veins of Py. Remarks:77.2-78.1 -mafic Lamporphyre(?) dyke.							
78.1	88.1	ALTERED MAFIC FLOW (VARIOLITIC) Med. light grey- fine even grained short sect. possibly variolites; Struct:Flow struct.'d pillow(?) selvafes here + there; primary(?) bx; -84.8 -downward fractured with gouge seams up to 1cm + broken core; ALTERATION & VEINS: Mottled + bleached 10-15% lt. grey calcite veinlets -a few lt. grey qtz-calcite veins up to 2cm. Min:80.7 scattered grains Cp.							
88.1	98.0	FRACTURED DIABASE -FAULT ZONE Dk. grey fine to med. grained.Strongly mag. except near lower end of contact. Indistinct ophitic texture. Struct: Massive uniform, upper Ct 2-1cm gouge; Lower contact @ 65°; seams @ 60°. Strongly fract.'d (broken core) top to 94.7m. A little fine indivuated (fault?) bx @ bottom. Alteration & Veins:A few % white calcite veinlets; 97.8-20cm cg. white calcite bx vein @ 20°. Displaced weakly altered + texture partly obscured- some clay type alt. Bottom 1.5m bleached Min:Scattered grains of dk. Py	24861	97.4	98.1	0.7		nil	
98.0	100.6	ALTERED, FOLIATED VOLCANICS -CARBONATE ROCK Med. grey, with pale green wisps; H=3-4 - non mag. Altered mafic - U.M. volc(?) -mainly non-fizzy carb. + mica;							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
		Struct:Wispy, contorted foliation approx 45^{O} sections of fine, indurated tectonic bx;	24862	98.1	99.6	1.5		0.03	
		Minor gouge on fract. approx. 35^{O};	24863	99.6	100.6	1.0	tr	0.05	
		Alteration & Veins:25-30% of unit affected by pale green to yellow green mica. Minor white calcite;							
		Min: tr Py							
100.6	103.5	BRECCIATED, ALTERED FELSIC INTRUSIVE WITH GREEN CARBONATE ROCK & ARGILLITE							
		70% f.g. lt. grey or green with sections of green carbonate, + sections of fine bx with black,argillite ? matrix. Possibly qtz. phenocysts in felsic intrusive -probally qtz. porphyry							
		Structure:Coarse to fine bx; Weak fol'n @ 45^{O};							
		Alt; & Veins: Strong sil'n of felsic rock. Mod. wispy green mica; carb. in sections	24864	100.6	102.0	1.4	3	3.38	
			24865	102.0	103.5	1.5	1-2	1.15	
		Min:Streaks dk. Py in matrix; small broken Py nodules (?) at 101.7m							
		Some pale Py diss'd in felsic fragments;	**AVG.**	**100.6**	**103.5**	**2.9**		**2.23**	
		Scattered grains, blebs Cp with white qtz.-calcite veins over 20cm @ 101.5							
		Up to 5% Py in black argillite matrix;							
103.5	105	FOLIATED GREEN CARBONATE-ALTERED VOLCANICS							
		As above 98-100.6; Remnant spinifex							
		Struct: Contorted wispy fol'n @ average of 60^{O};	24866	103.5	105.0	1.5		0.02	
		Alteration & Veins: Strong carb; a few % qtz.-carb veins.Mod. pale green mica.							
105.0	115.1	MASSIVE - BANDED GREEN CARBONATE ROCK - ALTERED VOLCANIC							
		Med. grey + green or pale green. H=3-4. Some remnant 'massive' spinifex.							
		Structure:Massive highly fract'd + recemented or banded with qtz.-carb. @ 30^{O} - 50^{O};	24867	105.0	106.5	1.5	-	nil	
			24868	106.5	108.0	1.5	-	nil	
		Alteration & Veins: Strong carb. mod. pale green mica; strong sil'n of minor felsic	24869	108.0	109.5	1.5	tr-1/2	0.43	
		intrusive (?)	24870	109.5	111.0	1.5	-	nil	
		5% qtz.-carb. veins up to 3cm	24871	111.0	112.5	1.5	-	nil	
			24872	112.5	114.0	1.5	tr	nil	
		Min:Almost nil minor Py with green mica @ 109.4	24873	114.0	115.0	1.0		0.04	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
115.1	124.4	GREEN CARB-ALTERED VOLCANIC WITH BRECCIATED ALTERED FELSIC INTRUSIVE (?)							
		Massive altered mafic UM volc. + foliated sections; Remnant Spinifex'							
		Sections of felsic intrusive from <10cm to 40cm make up 10% of unit.							
		Structure:Felsic sections shattered - bx'd							
		Foliation 30^{0} - 60^{0}; Minor gouge @ 40^{0};							
		Veins & Alteration:Mod. - strong pervasive non-fizzy carb.	24874	115.0	116.1	1.1		0.76	
		Weak -mod. green mica as wisps + partings. Strong green mica in bottom 1m.	24875	116.1	117.2	1.1	1	0.13	
		Very strong sil'n of felsic sections	24876	117.2	118.2	1.0		nil	
			24877	118.2	119.0	0.8		0.24	
		Min:Minor conc. diss Py with felsic rock + strong green mica at bottom.	24878	119.0	120.0	1.0		0.11	
			24879	120.0	121.0	1.0	1-2	0 14	
		Remarks: 115.1-116.2 75% felsic intrusive.	24880	121.0	122.5	1.5		0.08	
		118.6-119.0 felsic intrusive.	24881	122.5	123.6	1.1		0.12	
		120.5-120.8 50% felsic intrusive.	24882	123.6	124.4	0.8	2-3	0.40	
		123.7-124.4 Banded green mica-carb. rock with 2-3% streaks + diss'n of Py.							
124.4	126.1	BRECCIATED, ALTERED FELSIC (INRUSIVE?) & CARBON ROCK.							
		Lt. grey green with bright green streaks. 80% bx'd f.g. felsic with carb. +/or green mica matrix.							
		Structure:Angular bx - some clasts well seperated.							
		Fol'n - schistosity -65^{0} well banded at top in (siliceous part)							
		Veins & Alteration:Intense sil'n of felsic rock; pervasive carb.Strong fine pale	24883	124.4	125.0	2.90.6	3-4	0.28	
		green mica.	24884	125.0	126.1	1.1	1	0.42	
		Min:Dk. Py as streaks + blebs. Up to 2cm; fine diss'n pale Py in felsic clasts.	**AVG.**	**115.0**	**126.1**	**11.1**		**0.24**	
		Remarks:Probably altered qtz. porphyry.							
126.1	132.2	MED. GRAINED MAFIC VOLCANIC (OR INTRUSIVE)							
		Dk green, med.grained, non-mag. H=3-4; Chl.mafics, alt'd f.sp, 'felty' textured + foliated to 'gabbroic'							
			24885	126.1	127.0	0.9	tr	0.03	
		Structure:Massive to weakly foliated @ approx 50^{0}.	24886	127.0	128.0	1.0	tr	nil	
			24887	128.0	129.5	1.5	1	0.09	
		Veins & Alteration:Relatively unaltered 10% small white calcite veinlets + some	24888	129.5	131.0	1.5	tr	0.17	
		pervasive calcite; slightly darker calcite-qtz.veinlets here + there.Minor green	24889	131.0	132.2	1.2	tr	0.06	
		mica near bottom.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Min:See 'Vein'							
		Remarks:Felsic clots near bottom maybe broken felsic intrusive.							
132.2	140.1	ALTERED QUARTZ VEINED Q.F.P.							
		Lt. grey white pale green, f.g. very hard, mottled; Remnant porphyry texture only obvious here + there.							
		Structure:Coarsley fractured to bx'd + recemented; Mostly solid only a little broken core.							
		Vein angles - most prominent @ 45^{O}-50^{O} + also @ 10^{O}-5^{O};	24890	132.2	133.0	0.8	1	0.33	
		Weak fol'n in places @ approx 45^{O};	24891	133.0	134.0	1.0	1	0.07	
			24892	134.0	135.0	1.0	1-2	0.22	
		Alteration & Veins:Intense lt. grey sil'n with fine wispy pale green sericite 15-	24893	135.0	136.0	1.0	3	0.20	
		20% white mottled q.v. up to 10cm, streaks + wisps pale green sericite.	24894	136.0	137.0	1.0	2-3	0.35	
		Minor dk. chlorite.	24895	137.0	138.0	1.0	1-2	0.13	
			24896	138.0	139.0	1.0	1-2	0.16	
		Min:2% fine, pale Py diss'd in porphyry clasts + with sericite streaks + wisps.	24897	139.0	140.0	1.0	2-3	0.31	
			24898	140.0	140.8	0.3	1-2	0.25	
		Remarks:Some of white f.s.p. maybe secondary albite.							
		Small blebs soft green serpentine like mineral near bottom - probably massive sericite??	**AVG.**	**132.2**	**133.0**	**8.6**		**0.22**	
140.1	144.0	MAFIC VOLCANIC BRECCIA							
		Med., grey green-f.g. + possibly some (indistinct) massive spinifex? H=3-4							
		Struct:Primary bx with deformed 3-15cm clasts - schistosity @ 45^{O};							
		Alteration & Veins: A few %;Dk. chlorite as matrix to clasts.	24899	140.8	141.2	0.4	1	0.01	
		Strong wispy, bright green mica in top 30cm of unit.	24900	141.2	142.5	1.3	tr	nil	
		5-10% white calc-qtz. veinlets.							
		Min:a little diss 'd Py with green mica at top, elsewhere tr on selvages of q.calc.v.							
		Results: could be komatiitic basalt.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg
141.1	155.4	MASSIVE - PILLOWED MAFIC FLOW Uniform texture or some possible spinifex - similar to previous unit; Most is med. grey, f.g. Struct:Pillow (?) Selvages @ 149, 152 -153; Sections fol'd @ 45^{O} contorted fol'n; Some bx with black chl matrix.							
		Veins & Alteration:A few % white calcite-veinlets, + minor qtz.-calcite veinlets; some pervasive calcite in sections; Minor green mica 153.9-155.4	52501	153.9	155.4	1.5	1/2	0.01	
		Min: 1/2 - 1% diss'd Py @ the bottom with green mica:tr Cp 154.8m.							
		Remarks:153.9-155.4 could be altered fol'd mafic tuff. Lower Ct- marked by 0.5cm gouge @ 70^{O} . Komatiitic?							
155.4	161.4	MASSIVE MAFIC FLOW & BRECCIA Med . soft grey, f.g. H =3-4 Struct:Massive (flow?) to coarse frag. with a little exotic fine lapilli mat. in matrix. Possible pillows; Fine variolites??							
		Alteration & Veins:Slightly bleached - a few % white calcite, calcite-qtz. + qtz. veinlets. A little green mica @ top.							
		Min:tr- minor Py, minor conc'n 1% at top with green mica + bleaching; Minor blebs Py with lapilli tuff matrix.	52502	155.4	156.9	1.5	1/2	nil	
		Remarks:Similar mafic flows south of T.S.Z. in dh HC-9, 10, 19 etc;							
161.4	164.8	MAFIC - INTERMEDIATE TUFF Med.-lt. grey 65% of unit fine lapilli tuff - mostly lithic clasts with same possible altered feldspar phenocryts; Downward in hole contains increasing proportion of lt. grey basalt clasts from 2-6cm							
			52503	161.3	162.3	1.0	4	0.06	
		Struct:Relatively massive + undeformed;	52504	162	163.8	1.5	1	0.02	
			52505	163.8	165.3	1.5	1/2-1	0.08	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration & Veins:Coarse fract. blebs, dk. Py in lapilli. c.g. @ 161.4						
		Min:Coarse fractured blebs dk. Py with 10cm. S.M. Py @ top.						
164.8	177.0	MASSIVE MAFIC FLOWS Med. -to lt. dull grey. H=3 4. Even f.g.						
		Struct:Massive or with indistinct bx:contorted fol'd sections 178-181.5 may be pillow selvages.						
		Alt. & Veins:5% white calcite veins, a few calc. q.v. c.g. A little green mica here + there.						
		Min:tr Py here + there with calcite veinlets.						
177.0	195.0	SHATTERED PILLOWED MAFIC FLOWS As above unit, med. lt. grey.						
		Struct:Shattered throughout with 5-10% lt. grey to white calcite + calcite qtz. veinlets. Minor sections of contorted schistosity Pillow selvages here + there, some primary bx.						
		Alt; & Veins: See Structure;Bleached throughout wisps of pale green mica here + there.						
		Min:tr Py here + there in selvages of carb + qtz.-carb. veinlets.						
	195.0	END OF HOLE						
		COMMENTS: (1)132.2 -140.1: Low to medium gold values expected in this section. Layout estimated grade as exact material not seen previously.						
		(2) Mafic Volcanic sequence from 140.1-195 not seen in any previous drill holes. east side of Hydro Creek road. A.W.Beecham. 10th March 1996.						

GEOLOGICAL ASSOCIATION OF CANADA · A. W. BEECHAM · 11/6/97 · FELLOW ·

DIAMOND DRILL HOLE LOG

HOLE No. HC-21

Property	Tp	Azimuth	Date started	Depth	Azm.		Dip (°)
HYDRO CREEK	TYRRELL	025°	8th Mar. 1996	0m		025°	64°
Project	**Lot & Conc.**	**Dip**	**Date Completed**	50m			62.5?°
		64 °	12th Mar.1996	100m	036°	027°	64°
Claim #1146441	**Co-ordinates**	Length (metres)	**Drilled by:**	200m	041.5°	032.5°*	65°
		305.5	St.Lambert Drilling	300m	045°	036°*	65°
Grid # Mine grid	9704.72N 10575.33E	**Collar Elevation**	**Logged by:**				
1995 115° DD.B_L		9999.19	A.W. Beecham				

Location Sketch

* magnetic rocks

CORE SIZE : N.Q.

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		OBJECTIVE:- Test down SE plunge from values in dh. HC-02 ; HC-14							
0	3.4	CASING							
3.4	26.3	BRECCIATED MAFIC VOLCANIC Med. grey-green fine even grained, H=4 Structure:Incipiently bx'd with a few % black chl. matrix - probably a primary bx. No broken core. Alteration & Veins: approx 5% white calcite veinlets; calcite epidote + qtz.-calcite epidote; numerous veinlets (matrix to incipient bx) black chl. Min:Minor conc Py in qtz. calc - epidote veinlets + with black chlorite	52513	20.9	22.4	1.5	1/2	nil	
26.3	28.3	ALTERED MAFIC OR LAMPROPHYRE DYKE Med. dull grey, f.g. speckled with 5-10% chl'd mafics. Structure:Massive uniform;	52514	25.5	27.0	1.5	1/2	0.02	
			52515	27.0	28.5	1.5	-	0.05	
		Veins & Alteration:Numerous lt. grey calcite; 1-3cm white + orange calcite // to core @ 27.5-28.5. tr minor Py with calc. veinlets. Mod. -strong pervasive calcite.							
28.3	37.7	MAFIC FLOW As above med. grey: Isolated small variolites @ 36.3m. Struct:Sections of flow bx. pl selvage at 31 Alt; & Veins: A few % lt. grey calcite + calc-qtz-+/- epidote with tr Py							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min:Scattered grains dk. Py Remarks:Lower Ct arbitary - probably same flow.						
37.7	90.1	BRECCIATED MAFIC FLOW(S) Med.- lt. grey fine even grained: H=3-4 Struct:Incepient bx'n throughout with a few % black chlorite matrix. Fragments generally not rotated. Probably primary auto bx'n - not tectonic; Chl'c pillow selvages here + there.Well dev'd pillows 78.3-79.3m. Weak shearing here + there.e.g. @ 45o. Minor sections of broken core + a little gouge @ 64.5m. 91m chl'd hyoloclastite - 8cm; Alteration & Veins: A few % lt. grey calcite veinlets + calcite -epidote veinlets + minor orange + grey calcite bx veinlets 39-40.8 - a little green mica + minor white q.v. grey calc. to vein + major Py concentrations; Bleached sections e.g. 78-81.5+/-;strong pervasive calcite increasing downward. Min:See Alt'n & Veins'; Minor Py clusters @ 51.2m 75.2-75.8 spec. hem. films on fract. 60.0 minor spec. hem. in calc.-epidote veins.	52516 52517	39.0 40.5	40.5 42.0	1.5 1.5	1/2 -	0.01 nil
90.1	95.2	BLEACHED ALTERED MAFIC FLOW Pale gre-green; fine even grained; H=4-5 Struct:Pillow selvages bx; weak fol'n in places at 60°; Alt; & Veins:Pervasively carb. weak sil'n here + there; Pale green mica throughout;Strong bleaching, strong pervasive calcite - seams to coincide with bleaching. Min:Py - 10% blebs streak/ 10cm @ 91m tr diss'd Py throughout. Remarks:Contacts graditional.	52518 52519 52520 52523	90.9 91.3 92.8 94.3	91.3 92.8 94.3 95.2	0.4 1.5 1.5 0.9	3 tr tr -	0.08 0.01 nil nil
95.2	104.2	ALTERED MAFIC FLOW Med.-lt-grey - as above, but less intensively altered. Alt:As above;pervasive calc. Mod. strong bleaching; Minor calcite veinlets.Minor lt.grey,white q.v. up to 1cm to 4cm. at 98.2; 99m; +107.3m.	52521	98.0	99.0	1.0	-	nil

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
		Min:102.7-103.0 3-4% Py clusters. Minor diss'd Py here + there.	52522	102.7	104.2	1.5	1	0.05	
104.2	116	MASSIVE FINE GRAINED DIABASE Dk. grey-green - fine to med. f.g. mod. mag; 115-downward 1%.1-4mm,feldspar phenocrysts. Relatively fresh + unaltered. Struct:Upper contact obscured by alteration weakly fractured with black chl. filling; Lower Ct arbritary Alteration:Bleaching + mottled upper Ct. Min:Scattered grains dk. Py. Remarks:107-107.4 - f.g. mafic dyke intruding main diabase.							
116.0	121.0	FRACTURED DIABASE As above. Struct:Highly shattered, broken core throught with numerous chloritic fractures Minor gouge on fractures. Veins:120m -3cm c.g. white calc. vein @ 30°; Minor lt. grey calcite elsewhere Black chl in fractures;							
121.0	129.1	MEDUIM GRAINED DIABASE Dk. grey-green;strongly mag. m.g. ophitic texture, fresh, unaltered; Speckled with black mafic(pyroxene or horneblende) 1-2mm; Struct: Massive.							
129.1	160.7	EPIDOTE ALTERED DIABASE Dk.grey-green; med. fine to fine, relatively fresh, strongly magnetic, scattered sparse 1-2mm feldspar phenocrysts Struct:Minor sections broken core. 129-132; 146-149m 146.7 chilled contact- lower chilled against upper part. Good chill at lower; -at 70°.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
		Veins & Alteration:A few % 2mm - 15cm epidote veinlets + epidotized zones; minor grey calcite + calc-epidote veinlets. Min:Sections with up to 1% Py over up to 2m as scattered grains + diss'n.							
160.7	176.4	MASSIVE MEDIUM GRAINED DIABASE As above Alteration & Veins: Minor epidote +/- calc. qtz. veinlets. Min:Scattered Py grains, up to 1/2% Structure:Lower Ct is 'double' chill. Lower material chilled against f.g. up intrusive; 167.1-167.6 angular (tectonic)bx - 0.5m broken core at 170m.							
176.4	188.5	MASSIVE FINE - MED. GRAINED DIABASE As above, except all of this dyke is f.g. except about a 3m for 10-20cm at lower contact. Struct:Broken core with chl. fractures + a little gouge;185.3-186.8 +at lower contact; Veins:Minor calcite epidote veinlets. Min:tr diss PY							
188.5	214.5	FRACTURED MED. GRAINED DIABASE (TALCOSE) Dk. grey - green - slightly talcose core is blue green; H=4 locally 3; strongly mag. Struct:Fract. throughout with black chl. filling; Alteration & Veins:black chlorite fr filling make up 2-4% of dyke. 1 - 2% lt. grey calcite veinlets* No epidote developed suggesting it is a different composition to previous dyke. Min:tr Py as scattered grains. Remarks:Talcose nature + lack of epidote alteration suggests this intrusive has different composition from previous - probably more Mg-. rich;							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
214.5	280.8	MASSIVE-MED. - FINE GRAINED DIABASE Dk. grey, uniform textured, dry surf. speckled with 1mm sized mafics, strongly mag. relatively fresh + unaltered. Struct:214.4-223.2 broken core- numerous chl'c fract. 246.4-248.4 broken core, a little gouge + 1m ground core- probably marks fault; 259.5-266.4 chl'c fract. sections broken core;Lower Ct marked by thin volc. septum- shearing +a little gouge @ 55°; Alteration & Veins:231-245 a few epidote veinlets + epidotized sections up to 30cm. Calcite +/- epidote veinlets here + there throughout. Min:Scattered aggregates of Py up to 4mm in places make up 1/2 - 1% of rock. Remarks:280.45 - 280.8 Septum of calcite - black chl. rock (altered volc) with minor Py con'c	52524	280.2	280.8	0.4	1/2-1		
280.8	290.0	MASSIVE PORPHYRITIC DIABASE Fine to med. f.g., dk. grey-green strongly mag. throughout, very sparse (< 1%) 2mm - 10mm altered feldspar phenocrysts. Struct:Upper Ct - chilled against previous dyke - Ct fractured - sheared chill at a 60°; Veins:Minor lt. gey calcite + calcite- epidote veinlets. Remarks:Lower Ct- arbritary + gradational							
290.0	297.4	FRACTURED CHLORITIC DIABASE As above; but 2-4% black chloritic fracture fillings. Struct:Most of the fracturing 'healed' with chlorite. Min:1/2% Py as small (1-2mm) clusters of grains; Remarks:293.4-5cm. inclusion of white f.s.p. -+/-qtz. porphyry 297.3 Inclusion mafic volcanic.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
297.4	305.5	MASSIVE PORPHYRITIC DIABASE As above 280.8 - 290m. Very sparse. 2-3mm. + altered 10-12mm feldspar phenocrysts. Min:tr Py as scattered grains.							
	305.5	END OF HOLE COMMENTS; Entire section of Tyrrell Structural Zone dyked-out by various diabase dykes. A.W.Beecham 13/3/96. A.W. Beecham							

GEOLOGICAL ASSOCIATION OF CANADA
A. W. BEECHAM
11/6/97
FELLOW

DIAMOND DRILL HOLE LOG

HOLE No. HC-22

Property	Tp	Azimuth	Date started	Depth	Az.mag	Az.true	(°)	Location Sketch
HYDRO CREEK	TYRRELL	025°	12th Mar. 1996	00m			67°	
Project	Lot & Conc.	Dip	Date Completed	50m	034°	025°	67°	
		67 °	22th Mar.1996	120m	040.5°*		67°	
Claim #1146441		Length (metres)	Drilled by:	200m	052°*		68°	
		525.0	St.Lambert Drilling	315m	041°	032°	71°	
Grid #	Co-ordinates	Collar Elevation	Logged by:	327m	046°	037°	66°	*Magnetic rock, Azimuth unreli
1995 115° DD.BL	9565.08N/10650.35E	9992.74	A.W. Beecham	400m	058°*		66°	
				500m	055°		65°	CORE SIZE : N.Q.

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		OBJECTIVE:-To Test TSZ 100m vertically deeper than dh-18 and apparent S.E. plunge of mineralization + gold values on dh's HC-02 + HC-14	N.B.	Hole by	lined drillers	up at to 67°	65 deg. ??	but dip	apparently changed
0	22.6	CASING							
22.65	26.9	ALTERED BLEACHED PYRITIZED MAFIC FLOW Lt. grey-pale green - fine even grained. Fine remnant ophitic (or fine spinifex) texture visible only with hand lens;							
		Struct:Massive with possible pillow selvages.							
		Alt. & Veins;Pervasive carb. including calcite . 5%lt. grey calcite + a few % white quartz calcite up to 1.5cm 70o,20o,							
		A little dk. chl. in pl selvages.	52525	22.65	24.0	1.35	2	0.01	
			52526	24.0	25.5	1.5	2	nil	
		Min:Variable diss'n 0.5mm + finer Py in rock, not associated with veining. Do not	52527	25.5	26.9	1.4	2	0.43	
		expect any gold values;However, alteration suggest could be peripheral to Au values;	52528	26.9	28.0	1.1	tr	0.04	
26.9	42.5	ALTERED : BLEACHED MAFIC FLOW(S) As above.							
		Struct:Flow structured a few pl selvages							
		Incipient bx - fracturing with chl. matrix in upper part	52529	28.0	29.5	1.5	tr	nil	
		Weak wispy schistosity @ 40°;	52530	29.5	31.0	1.5	tr	nil	
			52531	31.0	32.5	1.5	-	nil	
		Alteration & Veins: Mod. to strongly bleached - Appears pervasively carbonatized	52532	32.5	34.0	1.5	tr	0.01	
		but mostly dolomite + only a little calcite.	52533	34.0	35.5	1.5	tr	nil	
		A little pale green/ mica in bottom 1.5m. Several percent white - lt, grey calcite	52534	35.5	37.0	1.5	tr	0.01	
		veinlets;	52535	37.0	38.5	1.5	tr	nil	
		White qtz. -calcite veins up to 5cm -mainly from 31.3-41m.	52536	38.5	40.0	1.5	tr-1/2	nil	
			52537	40.0	41.0	1.0	tr	0.01	
		Min:tr Py here + there; minor fine Py in qtz.calc. vein selvages. e.g. @ 38.5m.	52538	41.0	42.4	1.4	1/2	0.04	

Metres. From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
42.5	56.2	GRAPHITIC ARGILLITE & SILTSTONE Interbedded grey silt to fine sand with black argillite- 5 in preportions of 50:50 H=4-3:Some sandy lenses may be fine crystal (f.s.p.) tuffs. Struct:- thin bedded @ 60^{O}-45^{O}, locally 90^{O} schistosity - cleavage in places + contorted where sheared; Graded beds at 43.5-45, 52.7 fine downhole suggesting tops are to NE. Alteration & Veins:Minor pervasive calc. in some layers;Minor calcite partings;	52539	42.4	43.7	1.3	1/2-1	0.02	
		Concordant + x-cutting white qtz.	52540	43.7	45.0	1.3	1/2-1	0.01	
		-calcite veins from a few mm to 20 cm in sheared sections	52541	45.0	46.0	1.0	1	0.02	
		-sparse c.g. white calcite veins;	52542	46.0	47.2	1.2	2	0.05	
		-45.5 -47.2 -5% white qtz.-calc. up to 2cm mostly concordant	52543	47.2	48.0	0.8	tr	0.05	
		-48.2-48.65 white qtz.-calcite @ 30%	52544	48.0	48.8	0.8	2	0.01	
		-50-50.7 5% white qtz-calc up to 2cm.	52545	48.8	50.0	1.2	1/2	0.02	
		Minor green mica at bottom.	52546	50.0	51.0	1.0	2	0.32	
			52547	51.0	52.0	1.0	2	0.07	
		Min:Py as diss in fine sand beds, nodules, streaks, layers	52548	52.0	53.2	1.2	1	0.23	
		None of Py appears to be associated with veins;	52549	53.2	54.7	1.5	2	0.02	
			52550	54.7	56.2	1.5	3	0.06	
56.2	58.3	ALTERED PYRITIC SILTSTONE -EXHALITE Lt. grey, pale green; f.g. , most is relatively soft. (H=3 to 4) with a few siliceous layers. Struct:Thin to thick bedded. Bedding contorted 45^{O}-0^{O}; Shattered + recemented. Alt; & Veins:Most has strong pervasive calcite;Mod. pale green mica; Minor sil'n; 57.4-58.0m -20% white qtz. as partings + veinlets up to 3cm -70^{O}-30^{O}; Min:Heavy diss'n of fine Py in certain layers + a few nodules;	52551	56.2	57.2	1.0	1	nil	
		Py content higher with q.veining + part of Py is vein selvage;	52552	57.2	58.3	1.0	45	0.14	
58.3	66.0	FELDSPAR QUARTZ CRYSTAL TUFF Lt. brown-grey 3mm to fine sand size - >80% feldspar crystals; About 5% qtz. crystals;Fine tuff or arkose; sparse lithic clasts; Struct:Relatively massive + unbedded; Mod. frac. with white qtz. + lt. grey calcite veinlets.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
		Alteration & Veins: 3-5% white qtz. veinlets from 2mm-3cm							
		prefered orientation @ 60° x-cutting indistinct bedding .	52553	58.3	59.8	1.5	3	0.01	
		Mod. pale green mica; especially at top.	52554	59.8	61.3	1.5	1-2	0.12	
			52555	61.3	62.3	1.0	3	0.14	
		Min:Fine diss'd Py up to 4% not associated with veins.	52556	62.3	63.8	1.5	1	0.08	
			52557	63.8	65.0	1.2	1/2	0.12	
66.0	68.9	FELDSPAR QTZ. CRYSTAL -LITHIC TUFF-TUFF BX.	52558	65.0	66.0	1.0	1/2	0.16	
		As above unit but with 10-40% angular lithic clasts of f.g. mafic sericitized f.g. felsics;							
		Clasts up to 10cm -white qtz. - probably fragments.							
		Struct:Clasts aligned @ 45° - weak schistosity.							
		Alteration & Veins:Minor pale green mica in matrix + streaked along schistosity;	52559	66.0	67.5	1.5	2	0.10	
		A few % white qtz. + diffuse grey silification.	52560	67.5	69.0	1.5	1/2-1	0.07	
		Streaks pale blue grey chert or (agate like silica)							
		Min:1-2% diss'd Py							
68.9	75.3	FELDSPAR QTZ.CRYSTAL TUFF + LITHIC TUFF							
		As above 58.3-66m;							
		Struct:Indistinct streaky bonding at 45°; Relatively massive.							
			52561	69.0	70.5	1.5	1/2	0.08	
		Veins & Alteration:4%, 2-3 mm white qtz. veinlets x-crossing @ 60° - 30°.	52562	70.5	72.0	1.5	tr-1/2	0.33	
		A little diffuse grey sil'n. Weak pale green mica; minor grey calc--qtz. + white +	52563	72.0	73.5	1.5	1/2	0.06	
		orange c.g. calcite. Minor agate-like silica;	52564	73.5	74.5	1.0	1/2	0.07	
			52565	74.5	75.3	0.8	1/2-1	0.05	
		Min:Fine lean Py diss'n							
		Remarks:Lower contact sharp @ 60°;							
75.3	90.0	MASSIVE MAFIC FLOW							
		Med.dull grey to brown grey, fine even grained; Good remnant ophitic texture H=4+/-							
		Struct:Relatively massive;Weak fracturing with chl. cement; Minor sections broken core.							
		Alteration & Veins: 2% lt. grey - white calcite-qtz. veinlets up to 5mm.							
		Min:tr Py here + there.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
90.0	95.1	ALTERED PILLOWED MAFIC FLOW Fine even grained, grey, pale green, mottled. Struct:Well developed pillows. Veins & Alteration:Bleached some pervasive calcite; strong pale green mica.	52566	93.4	94.9	1.5	-	nil	
95.1	96.3	ALTERED FELDSPAR -QUARTZ CRYSTAL TUFF As above. Struct: Massive, weak schistosity; Alteration & Veins:96.0-96.25 Grey mottled qtz. + chl:	52567	94.9	96.0	1.1	1	nil	
		Weak pale green, mica , sections of pervasive calcite.	52568	96.0	96.3	0.3	-	0.11	
		Min: 1% diss'd Py							
96.3	97.0	FRACTURED FINE GRAINED DIABASE (FAULT) Dk. grey, f.g. mod. magnetic. Struct:Strongly fract'd, broken core throughout upper Ct chilled against q.v. @ 20°							
97.0	97.9	FRACTURED COARSE GRAINED MAFIC VOLCANIC -(FAULT) As follows: Struct:Broken + some lost core, gouge 'seams' @ 45o up to 5mm. Prominent fracture @ 45°							
97.9	107.8	COARSE GRAINED, FOLIATED MAFIC VOLCANIC Dk. green, med. coarse grained - probably chl'd amphibolite. Seems to consist of feldspar, chl, epidote + carb.; Typical texture 3-4mm dk. spots surrounded by lt. grey green matrix.	52569	99.3	99.7	0.4	-	nil	
		Struct:Wispy foliation @ 45°-60°; Alteration :Sections of pervasive calc. - 1 few % white calcite-qtz veinlets + minor wispy pale green mica. 1-3cm dull grey q.v. @ 40° + 10° @ 99.5m Min:tr diss'd Py throughout. Remark: Maybe recrystallized mafic tuff - grades downward into normal f.g. mafic flow.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
107.8	115.9	MAFIC FLOW Dk. green + wisps lt. green epidote relatively hard H=5, f.g. -consists of feldspar, epidote, some qtz. + chlorite; Struct:Massive to 'flow structured'. Alteration & Veins:A few grey qtz.-epidote calc. veinlets up to 1cm Streaks + sheds of epidote probably metamorphic min., not alteration; Min: tr diss'd Py throughout.							
115.9	151.1	FINED PORPHYRITIC DIABASE Dk. grey fine to med. f.g. fresh unaltered, strongly mag. Finely speckled with 3-4% black metallic (mag.) + a mafic min. Weakly (<1%) feldspar porphyritic with 2mm + 10mm phenocrysts. Struct:Upper contact chilled over about 2mm - obscured by broken core.Lower Ct lower diabase chilled against upper. Min:Scattered grains Py approx 1%; Remarks:Cut by black f.g. diabase, with chill contacts at small angles to core as follows; 130.5-131.5 136.3-137.0							
151.1	217.0	FINE GRAINED DIABASE Dk. grey green, even textured strongly mag. + speckled with 1-2% fine mag. Struct: Chilled against previous dyke but 3rd dyke intrudes along + obscures upper contact; Alt; & Veins:Minor calc.-epidote veinlets + epidote sections up to 30cm. long. 177.4-179m epidatized + minor grey qtz.+/- calcite veinlets. Min:tr to 1/2% dk. Py as scattered grains + clusters;							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg
217.0	219.0	MED.-COARSE GRAINED, PORPHYRITIC DIABASE Dk. grey-green, med. - c.g. aphitic texture. Less magnetic than adjacent diabase; Sparse laths feldspar from 3-4mm up to 10mm. Struct:Massive, uniform, upper contact sharp @ 30o c.g. up to contact; Lower Ct sharp at 75^{o} Veins:Minor white calcite irregular cavity fillings.							
219.0	229.6	FINE GRAINED DIABASE As above 151.1-217.0 (same intrusive) Struct:Massive, minor sections broken core along fract. at small angles to core. Lower Ct chilled against mafic volcanics - also a little gouge at contact at 50^{o}; Alt:epidote as above. Min: tr diss'd Py							
229.6	235.1	MAFIC FLOW Med grey, fine even grained; H=4-5 Struct:Generally massive - some weak indistinct flow structure. Weak foliated @ 60^{o}; Veins:3-4% lt. grey veinlets + wisps of calcite; minor qtz.-calcite veinlets. Min:Minor wisps diss'd of Py; Alt:A little sil'd along fracture.	52570 52571 52572	230.7 232.2 233.7	232.2 233.7 235.2	1.5 1.5 1.5	tr-1/2 tr-1/2 tr-1/2	nil nil 0.01	
235.1	255.2	ALTERED,BLEACHED PILLOWED MAFIC FLOW(S) Lt. grey, fine even grained, relatively soft, H=3 Struct:Well developed pilows with black chlorite, hyalloclastic selvages. Strongly fractured to incipiently bx'd, with black chl. filling; later strong fract. with lt. grey calcite cement; Alteration:Strongly bleached - sections pervasive calcite - probably also non-fizzy carb. Numerous hairline to 1cm lt, grey - white calcite veinlets. A few calc-qtz. veins up to 3 or 4 cm. Min: Minor concentrations of Py as clusters of cubes;							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
255.2	268.3	DEFORMED MAFIC VOLCANIC BX.						
		Med. grey, mottled , fine even grain, H=3-5						
		Structure:Bx'd flow or primary volc. bx;	52573	254.7	255.2	1.0	1/2	nil
		Mod.-strong fol'n schistosity avg. - 40°;	52574	255.7	257.2	1.5	1	0.05
		Re-bx'd + cemented with 15% white qtz.-carb. up to 2cm. Fine networks of lt.	52575	257.2	258.2	1.0	1	0.05
		grey qtz.-carb (include calc.) up to 30% /1m.	52576	258.2	259.7	1.5	2	0.03
			52577	259.7	261.0	1.3	1/2	0.01
		Alteration & Veins:See 'Struct.' also a little pale green mica along schistosity.	52578	261.0	262.5	1.5	tr	0.01
			52579	262.5	264.0	1.5	1	0.02
		Min:Blebs, streaks, clusters dk. m.g. Py- concentrations up to 5%/30cm; fine	52580	264.0	265.0	1.0	1/2	nil
		pale Py with qtz.-calc. veining.	52581	265.0	266.0	1.0	1	0.02
			52582	266.0	267.0	1.0	1/2-1	0.04
		Remarks:Could be peripheral to aurifervous zone.Grades downward by interlaying	52583	267.0	268.3	1.3	1/2	0.02
		to undeformed mafic flows;						
		246-266 Massive intermediate dyke or volcanic;						
268.3	273.3	MASSSIVE FELSIC DYKE OR TUFF						
		Med. grey, f.g.- (fine sand-sized grains) relatively hard = 4-6;Mainly feldspar + qtz.						
		Struct:Massive + uniform, very weak fol'n @ 40° or less.	52584	268.3	269.8	1.5	1	0.05
			52585	269.8	271.3	1.5	1	nil
		Veins & Alteration: 2-5% branching contorted 2-4mm white qtz. with minor lt.	52586	271.3	272.2	0.9	1/2	0.01
		green mica in selvages. Blotchy, siliceous zones;	52587	272.2	273.3	1.1	1	0.01
		273.2 2cm white-grey qtz.-calcite @ 10°;						
273.3	296.0	ALTERED FRACTURED MAFIC FLOW(S)						
		Med. grey, fine, even grained; H=4-5						
		Struct:Mottled, flow structured; Intensively fract. with dk. chl. filling.Cut by later fractures with calc. + qtz.						
		Sections of contorted fol'n.-shearing.						
		Veins & Alteration:A few % white calcite + qtz. calcite up to 2cm.						
		291-291.7 Mottled, fractured med. dk. qtz. with streaks, blebs of dk. Py at 20°-0°						
		Mottled,pale green-grey sections -probably sil fine green mica mainly between 277 + 281;	52588	290.7	291.7	1.0	1-2	0.04
		Min:See'Veins'; Minor Py here + there with q.v. + green mica;						

Metres From	Metres To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	ASSAYS g/t Au
296.0	307.0	ALTERED (BLEACHED) PILLOWED MAFIC FLOW(S) Pale yellow grey, green; fine even grained;remnant aphitic/texture here + there; Relatively soft non-fizzy carb. + fine mica; Struct:Well preserved pillow selvages weak - mod. schistosity in section at 40o to core.Mod. fr'd with calc.+ qtz. cement; Alteration & Veins:Strongly bleached ,pervasive non-fizzy carbonate, strong fine pale green mica; White qtz. with diss'd Py selvages up to 1cm. White calcite veins up to 2cm. Dk. chl. in pillow selvages. Min: See 'Veins'	52589	296	297.5	1.5	tr	0.01
			52590	299.7	301.2	1.5	tr	0.07
			52591	301.2	302.7	1.5	tr	0.01
307	311.7	MASSIVE MAFIC FLOW(S) Fine, even grained med. grey H=3-4 Struct:Weak fol'n in places at small angle.Mod. fractured with calc. + qtz. cement. Alteration & Veins:5% white calcite + calcite qtz. up to 2cm.						
311.7	314.9	ALTERED (BLEACHED)PILLOWED FLOW(S) As above - 296-307 Struct:Pillow with hyaloclastic selvages; deformed pillows;weak schistosity @ 25^{o}. Alteration & Veins:Strongly bleached- strong pale green mica. A little pervasive calcite; pervasive non-fizzy carb. Minor lt. grey calc + qtz. veinlets. Min:Isolated tr's Py with green mica;						
314.9	321.0	ALTERED SILTSTONE & ARGILLITE 60% pale green grey thin bedded to massive siltstone + 40% dk. grey -green-black argillite. Some graph in here + there; siltstone . H=4-5 Struct:Bedding contorted from 70^{o} to 10^{o} - average about 50^{o}. Minor bx with qtz. + calc. cement	52592	315	316.5	1.5	1	0.02
			52593	316.5	318	1.5	1	nil
			52594	318	319.5	1.5	1/2-1	0.01
			52595	319.5	321.0	1.5	1/2	0.03

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
314.9	cont.	Alt; & Veins:A little pale green mica throughout siltstone; A few x-cutting white qtz. up to 1cm; Minor lt. grey calcite veinlets.						
		Min:Py diss'd siltstone beds + as blebs + streaks in argillite, only 1-3%;						
		Remarks:319-321 -Massive siltstone or altered mafic flow:						
321.0	334.2	SHEARED ALTERED MAFIC VOLCANICS WITH QUARTZ VEINS Streaky pale green,med. grey with lt. grey - white qtz. partings.						
		Struct:Strong contorted schistosity average 45^{0} - 50^{0}						
		Alteration & Veins:Strong pale green mica along schistosity + flecked through volcanic;Appear pervasively carb'd (dolomite).About 20% contorted partings + veins of lt. grey -white qtz. with variable amounts of calcite. Veins up to 15-20cm with concentrations of up to 50% qtz./1m.Volcanic part bx'd + recemented with qtz. carb.	52596	321.0	322.5	1.5	1	nil
			52597	322.5	324.0	1.5	1/2	nil
			52598	324.0	325.5	1.5	2	0.07
			52599	325.5	327.0	1.5	1/2	0.01
			52600	327.0	328.5	1.5	tr	0.03
			52601	328.5	330.0	1.5	tr-1/2	nil
		Remarks:Grades downward into massive bleached mafic flow-most of qtz. is 'glassy' , only a little white possibley aurif. qtz;	52602	330.0	331.5	1.5	tr	0.01
			52603	331.5	333.0	1.5	tr	nil
			52604	333.0	334.5	1.5	tr	0.01
		Min:Py occurs as diss'n in volcanics narrow concentrated diss'n of 5% over a few mm in micaceous qtz. vein partings + vein selvages. A few streaks dk. Py;						
334.2	339.5	ALTERED MASSIVE MAFIC VOLCANIC Med. grey, fine even grained H=3-4 Appears to be mainly carbonate with a little green mica + minor chl.						
		Struct:Relatively massive - possiby flow struct; Short sections with schistosity @ 20^{0};						
		Veins & Alteration:Mod. bleached; short pervasive calcite. A little pale green mica. Minor grey calcite veins + 2mm white qtz. - Some rose coloured calcite (or rhodchrosite) at 336.3m + 337.8m.						
		Min:tr Py here + there in calc. vein selvages.						
339.5	344.1	SHEARED, ALTERED MAFIC VOLCANICS. As above 321.0-334.2						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Struct:Contorted schistiosity approx. 40°;						
		Alteration & Veins:Carb. green mica 10% grey calcite qtz.-calcite parts + contorted veins	52605	339.5	341	1.5	tr	0.11
			52606	341.0	342.5	1.5	tr	0.29
			52607	342.5	344.0	1.5	tr	0.01
		Min:tr - 1/2% Py with green mica.	52608	344.0	345.0	1.0	tr	0.01
344.1	350.9	ALTERED MASSIVE MAFIC VOLCANIC As above 334.5 339.5						
		Struct:Strong foliation- schistosity + some fine tectonic bx 349-350.9 @ 40°;						
		Alteration & Veins:5% fine stockwork, lt. grey calcite 349.5-350.3 short sections, patches lt. grey sil'n.						
350.9	378.0	MASSIVE F.G. DIABASE Dk. grey-green, fresh, mostly unaltered,Grain size up to 1mm. Strongly mag.						
		Struct:Upper contact chilled @ 45°; about conformable with shearing in over lying mafic vole.						
		Only weakly fract. with minor broken core: 367.8-368.7- Strongly fractured - broken core with 20cm white qtz.-epidote (or clinozoisite) vein Lower Ct chilled against porphyritic diabase	52609	367.8	368.7	0.9	-	0.01
		Alteration & Veins:See struct.Minor lt. grey calc. veinlets; small epidote (clinozoisite veins up to 20cm.)						
		Min:Scattered grains dk. Py;						
378.0	407.9	PORPHYRITIC DIABASE As above, except with sparse 0,5 to 2cm epidotized feldspar phenocrysts; Phenocrysts mainly in middle of dyke.						
		Struct:top 1.5 on fractured; 388.5-402.0Mod. fract. with short sections of broken 402-407.9 - Fr'd with broken, (some finely broken)core throughout; Lower contact chilled over 4-5m, sharp bx'd at 45°;						
		Alt; & Veins:A few % veinlets of epidote + epidotized sections; 400.6-401.8 0.5 - 1cm grey qtz. calc veins with blebs Cp @ 05°,						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Remarks:388.5-390.8 m.g. with pronounced diabase texture.Chill at bottom indicates porph diabase postdated underlying diabase; Reverse relationships at top Ct.						
407.9	418.7	FRACTURED FINE TO MED. GRAINED DIABASE As above 359-378 except some med. parts in this unit. Struct:Highly fract. with sections of finely broken core here + there throughout. Sections of gouge 408.3-408.7 + 415 418. -Fault. Probably marks significant fault. Veins +Alteration:A few % finely veined or altered to epidote minerals. 409.2 - grey qtz. + calc. + fiberous green mineral (serp. or tremalite) with blebs Cp >1cm. Remarks:Lower Lt. arbritary - same intrusive;	52611	409.1	409.4	0.3	Cp	nil
418.7	426.2	MED.-GRAINED, MASSIVE DIABASE (PORPHYRITIC) Med. grained even ophitic texture except for very sparse possible feldspar phenox. Med. grey,Speckled appearance due both to mafic silicate vinogretite. Mod. strong magnetic. Struct: Weakly fract. with black chl. or grey calcite filling. Veins:Minor epid.-calcite veinlets; 422.8 4mm chl. with minor Cp; Min:Scattered grains Py. Remarks:Lower Ct arbritary;						
426.2	441.0	FRACT. MED-FINE GRAINED DIABASE (PORPHYRITIC) FAULT ZONE As above med. top about 435. Finer grained downward: Feldspar phenocrysts 3-10mm - very sparse throughout; Struct:Strongly fractured with finely broken core throughout.A little gouge. 426.9, 432.3-432.6,435.5, 440, 440.7 - 441m - mark faults. Progressively chilled toward lower Contact but contact obscured by broken core. Alteration & Veins;A few epidote - calcite + grey calc. veinlets; minor black chl. veinlets	52612	440.0	441.0	1.0	-	nil

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
441.0	441.8	ALTERED (SILICIFIED)FELSIC ROCK FAULT Short sections lt. grey ; f.g. hard siliceous rock with about 50% gouge + crumbled sections - (gouge not cored) Siliceous part same as following unit.) Struct:Too crumbled to determine angle of fault; Min: tr Py in crumbled rock.	52613	441.0	442.0	1.0	tr	0.05
441.8	444.5	SILICIFIED FELSIC ROCK Lt. grey very f.g. Fine mottling looks like altered porphyritic rock. Struct:Finely fract. + recemented. Some coarse bx with chl. matrix. Alteration:Intense, pervasive sil'n - almost q.v. like. Some tine pearly fsp. - probably secondary albite. A little calcite along hair line fractures; Min:tr diss'd fine pale PY	52614	442.0	443.0	1.0	tr	0.05
			52615	443.0	444.5	1.5	tr	0.02
444.5	447.0	CHLORITE CARBONATE ROCK WITH MASSIVE FELSIC ROCK Streaky banded f.g. black + lt. grey carb. + chl. -rich rock. 444.8-445.3 f.g. bx felsic rock Deformed sediment or mafic -u.m. volcanic Struct:Streaky schistosity at 50^{o}-20^{o}; Alteration :Strong chl. & carb; felsic rock has f. green mica.	52616	444.5	445.5	1.0	2-3	nil
		Min:2-3% diss'd Py in felsic section Minor diss'd Py in grey calcite veinlets;	52617	445.5	447.0	1.5	tr	0.13
447.0	451.0	MASSIVE BX'D FELSIC ROCK(CRYSTALTUFF OR PORPHYRY INTRUSIVE) Med. - to lt. grey fine porphyritic- like texture or even-grained, med. gine to fine grained; Feldspar rich with a little qtz. + dk. chl. along numerous fract. -Probably alt'd bx'd crystal tuff. Struct:Massive to finely bx'd + recommended. Alteration & Veins: Little recognisable alteration . Minor streaks blue white qtz. - (or secondary feldspar); A little pale green mica.	52618	442.0	448.5	1.5	2	0.50
			52619	448.5	450.0	1.5	1/2-1	0.62
		Min:tr to 3% diss'd Py. Minor small blebs of Py;	52620	450.0	451.0	1.0	2	0.50

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Remarks:LC not defined -gradational? Relatively dk. on cold surf.- only recognizable as felsic rock on broken surface.	AVG.	447	454	7.0	-	0.84
451.0	461.7	ALTERED, MASSIVE - INTERMEDIATE - VOLCANIC - (DACITE TUFF?) Med. dull grey f.g. H=3-4. Looks very felsic on broken surface - partly due to carbonate; Reddish in places on broken surface. Struct:Massive, subconcoidal fract. No recognizable volcanic structure.Weakly fract. with chl. cement. Alteration & Veins:Fairly uniform + does not appear altered; however strong pervasive calcite + wisps fine green mica. 453.1grey + orange - calcite veins up to 3cm. A few fine dull red patches (jasperite) See Remarks. Min:Minor diss'n fine Py - see Remarks. Remarks:459.6-460.1 Fine cemented bx tuff or tectonic? with bx tuff or tectonic? with bx'd white qtz.- strong - sil'n jasperite alt'n + 3 4% Py Carb. alt. suggest has intermediate to basic compositional. 'Dacite tuff' as mapped or 'trachyte' according to local nomenclature; probably an ash fall.	52621	451	452.5	1.5	1/2	0.36
			52622	452.5	454	1.5	1/2	2.09
			52623	454	455.5	1.5	1/2	0.10
			52624	455.5	457	1.5	1	0.19
			52625	457	458.5	1.5	1	0.09
			52626	458.5	459.5	1.0	1/2	0.41
			52627	459.5	460.2	0.7	3-4	0.36
			52628	460.2	461.7	1.5	tr-1/2	0.13
461.7	471.0	ALTERED INTERMEDIATE, FINE FRAGMENTAL Med. dull grey to reddish brown , f.g. matrix with numerous acicular weakly aligned feldspars (trachytic) + 5-10% ragged, flat to spindle (collapsed pumice) fragments from 3m to 2cm H=4 - 5 Struct:Matrix massive alignment of clasts suggests bedding at about 45°; weak fract., cemented with veinlets of green carb, minor white qtz. + some qtz-carb. Primary-struct. preserved + not strongly deformed. Alt; & Veins:Grey sections have strong pervasive calcite; See 'Structure' Reddish stained sections relatively soft (not silica) - possibly weak hematite. Minor wisps green mica. Min: Tr Py here + there.	52629	461.7	463.0	1.3	tr-1/2	0.38
			52630	463.0	464.5	1.5	tr	0.09
			52631	464.5	466.0	1.5	tr	0.08
			52632	466	467.5	1.5	tr	0.21
			52633	467.5	469.0	1.5	tr	0.17
			52634	469.0	470.0	1.0	tr	0.24
			52635	470.0	471.0	1.0	tr	0.58

Metres.		DESCRIPTION	Sample				ASSAYS	
							% Py	g/t Au
		Remarks:Probably andositic ash tale; similar to exposures NW of LaCart Main Showing.	52636	471	472.5	1.5	-	0.18
			52637	472.5	474	1.5	tr	0.09
			52638	474	475.5	1.5	tr	0.04
471.0	481.9	ALTERED MASSIVE INTERMEDIATE VOLCANIC (TRACHYTE OR DACITE) TUFF	52639	475.5	477	1.5	tr	0.57
			52640	477	478.5	1.5	tr	0.21
			52641	478.5	480	1.5	tr	0.05
		Struct:Mod. fract'd with qtz-carb cement. Gen. massive.	52642	480	481.5	1.5	tr	0.20
		Alteration + Veins:30-40% fractured controlled 'grid' - type, red altrusion, Red alteration probably Fedal + hem - (not hard) 5% lt. grey- cream qtz. carb (non-fizzy) Minor calc. here + there; 471.0-473.0 5% pink + white calcite veins up to 1cm @ 10^{0} Sparse white qtz. veins about 3m with good Py selvage - e.g. @ 477						
		Min:Fine, diss'd Py here + there in rock as diffuse vein selvages tr Cp spec. hem. on slip @ 479.3						
		Remarks:474.6-475.4 calcite lamprophyre dyke at 30;477.3-478 - fine fragmental bed.						
481.9	484.2	RED ALTERED INTERMEDIATE FINE FRAGMENTAL (DACITE TUFF) Med. red brown or med. grey; as above 461.7-471						
		Struct:Massive mod. fractured, recemented. No broken core- solid competial core;						
		Veins & Alteration:Mod. red alt; A few % f. qtz-carb. veinlets.	52643	481.5	483.0	1.5	-	0.05
			52644	483.0	484.5	1.5	tr	0.13
		Min: tr Py as films on fract.						
484.2	487.5	RED ALTERED MASSIVE INTERMEDIATE VOLCANIC (DACITE-TUFF-'TRACHYTE) As above.						
			52645	484.5	486.0	1.5	tr	0.12
		Alt; & Vein:Strong red alt; >5% qtz. carb veinlets with a little Py	52646	486.0	487.5	1.5	tr	0.23

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
487.5	512.7	RED ALTERED FINE INTERMEDIATE FRAGMENTAL WITH MASSIVE INTERMEDIATE VOLCANIC Dull red brown, f.g. H=3-4 Fine tuff - ash as above 461.7 -471							
			52647	487.5	489.0	1.5	tr	0.04	
			52648	489.0	490.5	1.5	tr	0.14	
		Struct:Mod. strong fract. with qtz. carb. cement;Strong competent core- (core broken 3" sections)- prefered fracture orientation 040^{0} + 120^{0}	52649	490.5	492.0	1.5	1	0.30	
			52650	492.0	493.5	1.5	1	0.26	
		No penatrative deformation;	52651	493.5	495.0	1.5	tr-1/2	0.09	
			52652	495.0	496.5	1.5	1	0.56	
			52653	496.5	498.0	1.5	1-2	0.62	
			52654	498.0	499.5	1.5	1	0.24	
		Alteration:Strong to intense, pervasive red alteration;	52655	499.5	501.0	1.5	1-2	0.17	
		(Fe carb + hem stain?) Minor wisps. Pale green mica;	52656	501.0	502.5	1.5	1	0.26	
		5-8% white grey qtz. carb veinlets, up to 5mm.Possible some albite in veins; 494.7-	52657	502.5	504	1.5	tr	0.15	
		498.7 2-5% white q.v. with Py selvage 20^{0}-60^{0};	52658	504	505.5	1.5	tr	0.05	
			52659	505.5	507	1.5	tr	0.08	
			52660	507	508.5	1.5	tr	0.09	
			52661	508.5	510.0	1.5	1-2	2.60	
			52662	510	511.5	1.5	tr	0.24	
			52663	511.5	513.0	1.5	tr	0.11	
		Min:Variable discontinous fine diss'n Py especially with intense red alteration;	52664	513.0	514.5	1.5	-	nil	
		Isolated Cp blebs @ 491.4	52665	514.5	516.0	1.5	tr	0.02	
512.7	521.9	MASSIVE INTERMEDIATE FINE FRAGMENTAL (DACITE TUFF 'TRACHYTE) As above; Trachytic matrix-fine tuff ash - lithic + crystal tuff. Lithic clasts 3-4mm up to 4-5cm. Struct:Relatively massive + unbedded; mod. fract. with qtz. carb.cement; Alteration:Short sections red alteration (carb-hem.); A few % white qtz-carb veinlets; Min:Minor diss'd Py Remarks:Minor diss'd mt in some of the clasts;							
521.9	525.0	RED ALTERED INTERMEDIATE FINE FRAGMENTAL As above; Struct:Mod. fract'd + qtz. - carb. cement							

Meres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration & Veins:Strong to intense red alteration; (carb.-hem.)						
		A few % lt. grey qtz. carb. veinlets.	52666	522	523.5	1.5	tr	0.08
		Small white qtz. with minor Py + tr MoS2 or spec. hem. in white q.v. at 524.7;	52667	523.5	525.0	1.5	tr	0.51
		Minor white calc.-chl. veinlets with tr-1/2% Cp Sph from 523-524.3						
		Min:See 'Alt+ Veins'						
		Minor diss'd Py						
525.0		END OF HOLE						
		Drilling Notes.						
		(1) lined up by theodolite at 0.25/65° but at 50m dh. at 67°.Head also 67°. Dip apparently altered when casing drilled.						
		(2)406-441m badly broken ground - difficulty penetrating - (fault at base of diabase HW sill)						
		Comments on Mineralization						
		(1) 'Upper Zones- Py in altered mafic volc. and feldspar - quartz crystal tuffs.						
		22.6-22.9						
		56.2-67.5						
		may carry low values - possibly same zones as tested by Dome on Byberg leases to South.						
		(2)Deformed, altered, quartz-calc veined - mafic volc + felsic dyke(s)						
		254.7-273.3						
		321-327						
		may carry low Au values						
		(3)Main T-S Z - Very thin felsic porphyry -crystal tuff sequence.						
		No green carbonate (Komatiite)						
		444.5-451.0 -1-2% Py - possible low to mod. values.						
		(4)Concentrations of Py in 'Trachyte' associated with strong red alterations as follows:						
		455.5-462 - 1-2% Py some values expected with good values from 459.5-460.2 (0.7m).						
		490.5-502.5 -1% Py - possible values.						
		508.5-510 - 1-2% Py - possible values						
		Minerization and red alteration in undeformed trachyte.						
		A.W.Beecham.						
		23rd. March 1996						

GEOLOGICAL ASSOCIATION OF CANADA
A. W. BEECHAM
11/6/47
FELLOW

HADDINGTON RESOURCES LTD. **DIAMOND DRILL HOLE LOG** **HOLE No. HC-23**

Property	**Tp**	**Azimuth**	**Date started**	**Correct**	**ed Dip**	**Tests**	**(°)**	**Location Sketch**
HYDRO CREEK -G.E.	TYRRELL	025° (grid north)	22nd Mar. 1996	6	037		60	
Project	**Lot & Conc.**	**Dip**	**Date Completed**	60	035	026	60	
Hydro Creek - Gold Eye		60 °	28th Mar.1996	120	035	026	61	
Claim #1146441	**Co-ordinates**	Length (metres)	**Drilled by:**	180	034	025	60	Dips & azimuths by tropari instrument
1151464	9589.20 10850.20	429.0m	St.Lambert Drilling	240	035°30'	026.5	60	Point surveyed rod at deck
1151465	**Section:**	**Collar Elevation**	**Logged by:**	300	043	*	60	*magnetic rocks
Grid # Mine grid	10850	10,000.87m	J.R.Goodwin 0-104	360	035	026	59	CORE SIZE : N.Q.
1995 115° DD.B L.			A.W. Beecham 104-end	429	038	029	58	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au	Avg.
		Objectives:- Deep test of TSZ below GE-05							
0.0	4.2	OVERBURDEN CASING:							
4.2	22.0	MAFIC VOLCANICS: H=4+ non-mag Med. grey, f.g. uniform texture. -scattered chl clots + seams (sweats) to 1-2mm -grey calcite seams to 1cm often rimmed with epidote @ 40°CA -several patches grey qtz. to 2cm. -rare scattered patch cubic Py 1-2mm							
22.0	22.58	FELSIC INTRUSIVE -lt. grey. very f.g. H=5+ -faint pheno's? -contacts indistinct.							
22.58	28.25	BLEACHED MAFIC VOLCANICS & SULPHIDES (INTERMEDIATE VOLC?) -lt. grey. f.g. uniform texture H=5 -scattered chl. streaks, patches wispy sericite. -scattered calcit/e/qtz.- carb/ + q.v. to 2cm @ 45° CA. Pervasive carb. alt; -scattered patches diss cubic Py to 1-2% over 3cm. 23.10-23.20 fracture zone with strong carb/sericite alter'n;	52668 52669 52670 52671	22.58 54.0 25.5 27.0	24.0 25.5 27.0 28.25	1.42 1.5 1.5 1.25	0.05 0.04 0.03 nil		
28.25	54.5	BLEACHED MAFIC-INTERMEDIATE? VOLCANICS . H=5 non-mag -light grey, f.g. uniform texture -"shot through" with chl. clots and seams to 2-3mm. -wispy seems 0f sericite // to CA in places -scattered carb/qtz.-carb/ + q.v. to 3cm @ 45° - 80°CA							

M From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au
		-nil to tr. diss cu Py 40.7-41.2 - very light grey felsic volcanics? -broken contacts						
	4cm	54.05- 2cm round felsic clast with 50% Py in breccia zone						
54.5	65.6	MAFIC VOLCANICS (SAUSSURITIZED) -dk green grey, m.g. uniform texture -feldspars altered to grey and/or green epidote (saussuritized) -thin wisps and streaks of epidote along fractures -scattered qtz.carb. veins to 1cm @ 45°CA with minor hem + tr Py. 64.7-65.0 -ground core- edges very leached + crumbly with chlorite seam to 2mm. 65.0-65.6 -becomes porphyritic with white felds pheno's to 2-3mm.						
65.6	70.1	MAFIC - INTERMEDIATE VOL. H=5+ Light grey-green, f.g., shatt'd texture with scattered wisps, seams of chl. to 2mm. 66.0-66.3 -ground core edges leached with mod. carb. alteration - few qtz. frag. to 2cm. remaining -scattered irreg qtz/carb veins -pervasive carbonate altr'n						
70.1	78.2	MAFIC VOLCANICS + PILLOWS H=5 -pale grey-green becoming pale brown green in pillowed in in central portion. -pillowed sections appear very f.g. diss cubic Py. 76.85-77.45 - strong irreg. qtz/carb/epidote veins to 3cm. -nil -tr Py						
78.2	80.5	FAULT/BRECCIA ZONE 78.2-79.2 -melange of pyritic felsic frags to 18cm with 50% Py plus grey volc. f.g. matrix --central portion has very magnetic rich matrix. 79.2-80.5 -Fault/Fracture Zone -sub// to CA with irreg. light creamy-green chert vein to 2cm -host rock is finely bx'd to 1-2cm and well rehealed, scatter'd patches f.g. diss. c p. to 20% along contacts. -mod. epidote altr'n. -contacts @ about 20°CA.	52672 52673	78.2 79.2	79.2 80.5	1.0 1.3		0.12 nil

Metres		DESCRIPTION	Sample Number	From	To	Length	ASSAYS %Py	g/t Au
80.5	104.2	PILLOWED MAFIC FLOWS -Lt grey, f.g. uniform texture numerous scattered carb/qtz-carb - ± epidote veins from 1-2mm to 1-2cm. occasional mass. veins of qtz-carb - ± epidote to 6cm nil -tr Py - pervasive carb. alt'n -several sections contain numerous chl. wisps + clots to 2-3mm -84.8-85.0 -irreg. qtz/carb/epidote vein complex at 30° CA - nil tr Py. 98.3-98.6 -Flow Breccia? with minor Qtz. +Sulphides -irreg. qtz. ± carb. frags in bx zone at 30° CA. -scattered patches massive Py to 2mm along upper contact to 1% Py 103.0-103.05 -Pillow/Flow Breccia with qtz and epidote @ 20°CA 104.0-104.3-Pillow/Flow Breccia with carb plus 5-10%Py @ 45°CA						
			Logged by A.W. Beecham 104.2m - 429m					
104.2	114.0	PILLOWED MAFIC FLOW(S) -Lt. grey, f.g. with distinct selvages to 2-3cm -some selvages have bx fragments to .2x 2cm small possible variolites noted at 106-111 Structure:undeformed -well developed pillows Alternation & Veins:Minor grey calcite veinlets Black chl-in pl.selvages Epidote-calc. qtz up to 4cm make up a few % of unit Min:Minor diss'd Py noted at 110.6m						
114.0	126.0	MASSIVE MAFIC FLOWS -Med. grey, fine .even.grain ., non-magnetic Struct:Relatively massive, some bx -fracturing with chl. or calc cement Veins Alteration::No signif. alt'n; A few % lt. grey calc veinlets; 119-10cm c.g. white calc. vein at 10°.-minor white qtz-calc veins. Min:tr Py here + there in selvages of grey calcite; Remarks: Med.grained section -(possibly middle of flows)with gradational Ct (contacts)f.g. material as follows-117.6-118.6; 123.5-125.5						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au	A
126	142.2	PILLOWED - MASSIVE MAFIC FLOW(S) As above; Structure: Pillowed with 3-4 sections of massive flow Mod. to strongfractured with grey cal. or black chl.cement weak schistosity in places at 40° Veins; Alteration:5-8% lt. grey calcite veinlets including some bx veins + concentrations in pillow selvages; + with white qtz + qtz.calc veinlets. Min: Conc. of Py up to 3%20cm near top in grey calcite + selvages +with white qtz.+ qtz. -calc veinlets 138.8-141.3	52757 52758 52759	126 127.5 129.0	127.5 129 130.5	1.5 1.5 1.5	1/2-1 1/2-1 1/2-1	0.77 0.18 0.46	
142.2	144.5	FINE LAMPROPHYRE DYKE Med. greycalcite matrix with 15% 1-2mm mafic + sparse feldspar phenocrysts - Fine acicular mafics on broken surface. Struct:Cts at 40°. Min:tr diss'd Py							
144.5	152.8	MASSIVE MAFIC FLOW(S) As above Struct:Shattered -incipient bx'n Alt:Minor epidote veinlets							
152.8	155.0	BRECCIATED PILLOWED MAFIC FLOW As above. Struct:Pillows with a little hyaloclastite; Fractured bx'd with chl. cement. Alt;Veins:Bleached, black chl. in bx + pl. selvages.							
155.0	185.8	MASSIVE BRECCIATED MAFIC FLOW(S) As above ,med. to light grey							

Ft From	Ft To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au	Av
		Struct:Shattered- incipiently bx'd throughout with a few % black chl cement - same alt'n as in pl. selvage suggest bx is primary feature; Alt;Veins: Mod. bleached throughout sections of strong bleaching 175 to end; Calcite as strong pervasive alt'n (=bleaching) + hairline to 1cm veinlets; A few orange+ grey calcite veinlets.							
185.8	189.8	MASSIVE MED.GRAINED MAFIC VOLC. Med.blue-green indistinct med.e.g. texture. H=4. non-magnetic. Could be dyke or massive flow interior. Struct: Mostly massive + uniform ; Some flow structures in bottom 1m; Alt:Texture obscured by alteration feldspars + mafics Min: tr diss'd Py	52760	189.7	190.7	1.0		0.02	
189.8	195.0	ALTERED PYRITIZED F.P. DYKE Lt. grey-buff f.g. matrix; up to 30%, 1-3mm altered feldspar phenocrysts; matrix v granular H=5-6							
			52761	190.7	192.2	1.5	1-2	0.45	
		Struct:Massive , uniform, appears undeformed; cts at 45-50; only weakly fractured with qtz. cement.	52762	192.2	193.7	1.5	1-2	0.72	
			52763	193.7	195.0	1.3	1-2	0.52	
		Alt;Veins: Fairly strongly altered- bleached some fine massive pervasive pale green mica possibly pervasive sil'n; A few % lt. grey - white q.v. up to 5mm. Min:Uniform 1-2% diss'd Py.							
195.0	205.4	ALTERED DEFORMED MAFIC FLOW Med. grey , pale green (where altered) mostly f.g.; H=3-4 Struct:Weak to strong ,schistosity @45deg. -flow struct. either deformed pillows or flow t bx; Incipient tectonic bx. small fault at bottom marked by 2-3cm bx + gouge @ 60 deg. Alt; & Veins:Mottled, bleached with lt. green coloured alteration + streaks + short sections with pale green mica. 4-5% grey calcite + white qtz.-calcite veinlets + partings along schistosity. Min:tr Py here + there.	52764	195.0	196.	1.0		0.03	

Ft From	Ft To	DESCRIPTION	Sample Number	Sample From	Sample To	Sample Length	ASSAYS % Py	ASSAYS opt Au	ASSAYS Avg.
		Remarks:Massive med. gr. flow 'centre' 199.5 -200.4							
205.4	216.6	FRACTURED DEFORMED MAFIC FLOW(S) As previous unit but only weakly altered; med. grey f.g. Struct:Strong schistosity @ 60deg. or massive strongly fractured- incipent bx'n - cal-qtz. calcite cement. A little gouge in fractures. Alteration & Veins:5-10% lt. grey calc veinlets from numerous hair line ; one up to 1cm. A few white qtz.-calc. + grey + orange calc. veinlets.							
216.6	236.0	MASSIVE MAFIC FLOW Med-dull grey, f. even g. H=3-4, non-magnetic. Struct:nearly massive; a little indistinct incipent bx'n Alt; & Veins:Mod. pervasive calc. up to 50% fine to 1cm lt. grey -white calcite.							
236.0	238.9	DEFORMED MAFIC VOLCANIC Dark green to pale green, H=3-4 mostly f.g. Struct: Schistosity-granulated matrix with 5- 10% qtz. calc veins. Contorted. schistosity at about 65 deg. Alt:Mod. - strong green mica; mod. pervsive calcite. 5-10% qtz.-cal. veinlets (bx'd) Min:tr -1/2% fine diss'n Py in schitose matrix.							
238.9	246.0	MASSIVE MAFIC FLOW as above. Struct:Mostly massive-some schistosity @ 25deg to 60deg.							

Ft From	Ft To	DESCRIPTION	Sample Number	Sample From	Sample To	Sample Length	ASSAYS % Py	ASSAYS opt Au	ASSAYS Avg
		Alt; & Veins:Calcite as hairline fract. & veinlets up to 1cm; Minor dk. chlorite minor lt. green mica along schistocity planes.							
246.0	248.4	MAFIC FLOW BX Dk.grey, f.g., relatively hard. (H=5-6) Struct:Weakly altered angular fragments up to 15cm in flow matrix.Some frag. flow blanded. Alt:Pervasive calcite alt. of some fragments. Min:1% Py over bottom over 1m. as grain clusters.							
248.4	264.9	MASSIVE DIABASE Fine to med. grained, even grained, daark grey, strongly magnetic.speckled from fine magnetite. Struct:Massive, weakly fractured. Broken core 260.5 - 261.5; Upper Ct,obscured by broken core.Lower Ct gradual chill over about 4in; Veins & Alteration:Fresh + unaltered.-minor calc. epidote veinlets.							
264.9	265.6	FRACTURED VEINED DIABASE Broken diabase with rusty (weathered) gouge + grey qtz. -calc.-chl. veins.							
265.6	279.4	MASSIVE DIABASE As above. Struct:Upper Ct appearsto faulted; Lower Ct chill over 3-5m ;chilled against chilled diabase;Minor broken core -1cm gouge @ 45deg. @269.6cm. Alt;& Veins:Minor calc-epidote Min:Scattered grains, dk. Py.							
279.4	286.6	MASSIVE FINE DIABASE As above Struct:'double chilled' @ top + bottom. Uncertain of relative age.							
286.6	299.7	MASSIVE FINE - MED. GRAINED DIABASE As above.-becomes progressively c.g. downward;speckling due mainly to mafic							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		silicates rather than magnetite higher up in the sill.						
		Struct:Mod. fract.						
		Min:tr Py as scattered grains.						
299.7	310.2	FRACTURED DIABASE Dk, grey med.-fine even grained strongly magnetic.						
		Struct:Strongly fract. with bx + gouge @ 309.8 Lower Ct chilled (over 0.4m) @ 45deg.						
		Veins:Minor calcite veining.						
310.2	315.0	ALTERED FOLIATED MAFIC FLOW & BRECCIA Dk.grey-green - mottled, fine even grained; lt. grey-short felsic section patches, swirls; H=3-6						
		Struct:Strong schistosity to foliation, progressively stronger downward; swirls, chl. streaks may be deformed pillows? Minor sections of broken core- a little gouge along schistosity @ 312.2 Lower part is streaky deformed fragmental						
		Alt; & Veins:Short sections patches lt.grey strong silification. Dk. chl. in matrix.						
		Minor fine lt. grey calcite veinlets. Minor pale green mica.	52674	310.1	311.0	0.9	tr	0.43
			52675	311.0	312.0	1.0	tr	0.11
		Min:tr - minor scattered grains dk. Py + fine diss'n of light Py.	52676	312.0	313.5	1.5	tr	0.14
			52677	313.5	315.0	1.5	tr	0.13
315.0	326.1	INTENSELY ALTERED FELSIC VOLCANICS?						
		Bright green f.g.,very hard to mod. hard- fine granular rock - of qtz.-carb,green mica - no primary textures.	**AVG.**	**310.1**	**315.0**	**4.9**		**0.184**
		Struct:Massive to very finely fractured + bx + recemented mainly with qtz. +. some carb.Sections with coarse,indistinct bx (tectonic).Massive or with weak schistosity 35deg-50deg.	52678	315	316.5	1.5	1/2-1	1.17
			52679	316.5	318.0	1.5	2	1.14
			52680	318.0	319.5	1.5	3	0.15
			52681	319.5	321.0	1.5	3	0.24
		Alt. &Veins: Intense bright green mica affects 90% of unit.Strong carb (most is non-fizzy) Sections with fine lt. grey qtz. veinlets with a few white q.v. to 1cm	52682	321.0	322.5	1.5	3	0.25
			52683	322.5	324.0	1.5	3-4	0.59
		324.7-326.1 -10%lt. grey -white q.v.	52684	324.0	325.0	1.0	1-2	0.19
			52685	325.0	326.0	1.0	3-4	0.97
		Min:Good Py diss'n -green mica + as 1-3mm veinlets + streaks -same as q.v.selvages	**AVG**	**315.0**	**326.0**	**11.0**		**0.625**

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
326.1	330.5	ALTERED INTERMED - MAFIC VOLCANIC?? WITH QUARTZ VEINS Med. grey-green, f.g. H=4-6 Struct:Undeformed parts relatively massive + looks like intermediate to mafic flow -weakly fract'd to bx'd.Some thin banded material near top with banding @ 40deg to 10deg - contorted Alteration:Strong pervasive, mostly non-fizzy carb- weak sil'n; A little pale green mica Veins: 5-10% mottled lt. grey to white q.v. + broken clasts; -largest vein 10cm @ 326.2m. Various angles 45deg to 10 deg. Min:'Streaks' of diss'd Py with green mica. Heavy diss'n in banded sections.Fragments of heavy Py diss'n with q.v.:concentrated of Py in banded sections up to 5-6% over 15cm. Small blebs, veinlets dark Py here + there;	52686	326.0	327.0	1.0	5	2.16
			52687	327.0	328	1.0	4	1.85
			52688	328.0	329.5	1.5	3	1.09
			52689	329.5	330.6	1.1	4-5	2.30
330.5	333.0	ALTERED BANDED QTZ. VEINED FELSIC - INTERMED. VOLC. Lt. + dk. grey green streaks; may be intensely altered felsic porphyry. Struct:Mod-strong schistosity with numerous 2-3mm grey qtz. partings @^60deg >1 phase of bx'n Alt; & Veins:Strong sil'n with ^50% grey qtz. partings; Strong pale green mica mainly as partings Min:Good diss'n Py with micaceous partings.	52690	330. 6	331.5	0.9	4	1.38
			52691	331.5	333.0	1.5	3	0.83
333.0	336.1	ALTERED QTZ.-VEINED FELSIC VOLCANIC? Med. grey mottled , f.g. H=5-6 or 7 Possibly same remnant felsic porphyritic texture. Struct:Shattered + criss crossed with grey + white qtz. veins. Alteration & Veins: Intense grey sil'n Cut by 25% lt. grey -white q.v. -wisps of pale green mica; a few patches dk. chlorite. Min:Streaks wisps, diss'n Py	52692	333	334	1.0	3	0.46
			52693	334	335	1.0	2	0.31
			52694	335	336.1	1.1	2-3	0.40
336.1	353.4	ALTERED FINE FELDSPAR QTZ. CRYSTAL TUFF Streaky bright green and med. grey.Fine lapilli, feldspar,qtz. +lithic fragments	**AVG**	**326.0**	**338.0**	**12.0**		**1.10**

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	% Py	g/t Au	ASSAYS	
		preserved here + there; About 50% of hard grey feldspar - qtz. rich material and								
		50% soft green mica rich material.	52695	336.1	337.0	0.9	2-3	0.28		
			52696	337.0	338.0	1.0	2-3	1.13		
		Struct: Strong contorted schistosity @ avg. 35-40deg.- vary from 60deg-10deg.;	52697	338.0	338.7	0.7	2-3	3.95		
		Mod. frac'd with qtz. + calc. cement.	52698	338.7	340.0	1.3	2	1.37		
			52699	340.0	341.0	1.0	2	1.15		
		Alt; & Veins:Strong to intense bright green mica makes up 50% - streaks +	52700	341.0	342.0	1.0	2	2.74		
		partings short sections of grey diffuse,fracture controlled silicification;	52701	342.0	343.3	1.3	1	2.33		
		Grey mottled + white q.v. from 5mm to 2cm. 4-5%.Most veins conformable with	52702	343.3	344.5	1.2	1	0.31		
		schisosity;Some white feldspar (?) in white qtz.	52703	344.5	346.0	1.5	2-3	6.10		
		345.3-345.8 -15% white qtz- some with bkack acicular mineral as seen in LaCarte	52704	346.0	347.5	1.5	2	3.43		
		Showing (chlorite?) Some pervasive non-fizzy carb. + qtz.-carb. veinlets.	52705	347.5	349.0	1.5	2-3	1.81		
		349.85 - 1mm dk. grey qtz. with f.g. Py. + *small cluster VG*	52706	349.0	350.5	1.5	3trv.g.	15.70	15.63	15.67
			52707	350.5	352.0	1.5	2	5.07		
		Min:Fine pale Py as strong diss,n in green mica + in feldspar qtz. part; streaks	52708	352.0	353.4	1.4	3	1.19		
		diffuse dk. Py up to 5mm thick.								
			AVG	**338.0**	**352.0**	**14.0**		**4.28**		
		Remarks:Med. grey med. grained altered feldspar rich dykes(?) as follows:338.7;	or							
		343.3-344.5;	**AVG**	**(337.0**	**353.4**	**16.4**		**3.82)**		
			or	**(344.5**	**352.0**	**7.5**		**6.42)**		
353.4	359.7	ALTERED BX QTZ. VEINED FELSIC ROCK				24.6'		0.187		
		Similar to above unit but more intensely sil'd + bx'd; sections of remnent felsic								
		porphyry?	52709	353.4	354.9	1.5	2-3	0.43		
			52710	354.9	356.4	1.5	2-3	0.90		
		Struct:Mod. schisosity between q.v. + clasts @ about 50deg. Bx'd q.v.;slip with	52711	356.4	357.5	1.1	1-2	0.72		
		2-3 mm gouge at 40 deg. @ 359.7m	52712	357.5	358.6	1.1	1-2	0.43		
			52713	358.6	359.7	1.1	1-2	0.74		
		Alt;& Veins:75% intense grey mottled silification - qtz. veins Sparse white q.v.								
		Matrix (^25%) with strong green mica alteration								
		Min:2-5% diss'd Py in micaceous, matrix;								
359.7	361.0	SERICITIZED - CARBONATE ROCK.								
		Med-grey, f.g. relatively soft -ser-carb. with <10% siliceous partings + q.v. ser-								
		carb. qtz. schist.								
		Struct:Strong schistosity @ 40deg -20deg. Coarse deformed bx; 2-3mm gouge @								
		45deg. bottom.								
		Alt; & Veins:Intense green mica (sericite) affects 95% of unit.								
		Min:Fine diss'n Py - diffuse streaks heavy diss'n Py in crush zones;	52714	359.7	361.0	1.3	3-4	1.34		

Metres From	Metres To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	ASSAYS g/t Au
		Remarks:Could be thib altered komatiite layer.						
361.0	364.6	ALTERED MASSIVE FELSIC ROCK (CRYSTAL-LITHIC TUFF)	52715	361.0	362.2	1.2	1	0.51
		Med. grey, pale green,f.g. qtz. rich, very hard indistinct patches with carb(?) +fine	52716	362.2	363.4	1.2	1	0.45
		sericite;one remnant- fine crystal-lithic tuff + 1-2mm qtz. phenocrysts here and;	52717	363.4	364.6	1.2		0.63
		there throughout						
		Struct: Mostly massive + uniform;						
		Alt; & Veins:Minor white qtz, veinlets .Minor cream colour calcite. Intense sil'n-.						
		carb + fine green mica	52718	364.6	366.0	1.4	1	0.83
			52719	366.0	367.0	1.0	2	0.33
		Min:1% diss'n fine Py.	52720	367.0	368.0	1.0	2	0.48
			52721	368.0	369.0	1.0	3-4	0.96
364.6	379.0	ALTERED, DEFORMED FELDSPAR-QTZ. CRYSTAL TUFF(?)	52722	369.0	370.3	1.3	2-3	2.68
		Lt. grey feldspaar-qtz. material seperated by layers --wisps partings of bright green	52723	370.3	371.5	1.2	2-3	2.89
		mica-rich material.Porphyritic texture(f.sp + qtz.) recognizable in less altered	52724	371.5	373.0	1.5	1	0.29
		sections. Small lithic clasts.(?)	52725	373.0	374.5	1.5	1	0.19
			52726	374.5	376.0	1.5	1/2-1	0.27
		Struct: Appears bx'd + strongly sheared- schistosity @ 40-60deg,along schistosity	52727	376.0	377.5	1.5	1	0.34
		2 365.7; 371.2;371.6;378.4	52728	377.5	379.0	1.5	1	0.61
			AVG	**371.5**	**379.0**	**7.5**		**0.34**
		Alt;&Veins:Variable, strong pale green mica - especially from 366.0-370.3						
		Mod. sil'n; section 376.5-379 strongly sil'd; Sparse lt. grey q.v.	**AVG**	**352.0**	**369.0**	**17.0**		**0.728**
		white irregular fractured q.v. hue + there up to 3cm						
		Minor hair line calcite veinlets;minor grey-orange talc veinlets @ 374.5	**AVG**	**369.0**	**371.5**	**2.5**		**2.78**
		Min:Conc. f. Py with green mica diss'n in qtz-feldspathic material- 368-370-a few	**Overall**	**AVG.**				
		streaks - diffuse layers with up to 15-20%diss'd Py over 1 cm.(with green mica)		**326.0**	**371.5**	**45.5**		**2.03**
379.0	392.8	CARBONATE-CHLORITE ROCK (SHEARED ALTERED SPINIFEX FLOWS)	52729	379.0	380.5	1.5	-	0.02
		Mostly dk. green +med. to lt.grey, med.f.g. Mainly non-fizzy carb. + dk. chlorite	52730	380.5	382.0	1.5	-	nil
		Pale green-brown sections with a little qtz.(alt'n) Spinifex @ 383.5-385.5	52731	382.0	383.5	1.5	tr	nil
			52732	383.5	385.0	1.5	-	nil
		Struct:Streaky fol'n + schistosity @ 45deg. Minor bx with qts-carb cement.	52733	385.0	386.6	1.6	tr	nil
			52734	386.6	388.2	1.6	-	nil
		Alt;&Veins:Strong pervasive carb;Paler green sections contain some qtz-(sil'n)	52735	388.2	389.8	1.5	-	nil
		white qtz.carb veins+partings - best developed 385.5-386.5.Minor pale green mica	52736	389.8	391.3	1.5	-	0.02
			52737	391.3	392.8	1.5	-	0.03
		Min:tr Py with qtz.-carb veins.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
392.8	393.6	SHEARED, ALTERED GRAPHITIC ARGILLITE Black streaks relatively hard graphitic f.g. material'separated by 40% lt. grey qtz-. carb partings.Black material strongly graphitic. up to 4cm massive Py Struct:Strong schistosity @ 35-40deg. contorted; small lenses + augen of qtz. carb.	52738	392.8	393.6	0.8	4	nil
		Alt:40% qtz. carb partings Min:Generally 1-2% diss'd Py 393m -4cm. layer of massive Py.						
393.6	395.1	GREEN CARBONATE ROCK Palegreen,med.grained,mainly carb.with minor qtz. palegreen mica + a little chlorite	52739	393.6	395.1	1.5		0.21
		Struct:Mostly massive. -fol'n @ 60 deg.. Alt:Strong pervasive carb; weak-mod. green mica. A few %which qtz. carb veining						
395.1	395.8	SHEARED ALTERED GRAPHITIC ARGILLITE As above. 392.8-393.6; Very strongly graphitic.	52740	395.1	395.8	0.7	tr	nil
		Struct:Strong schistosity at45-50deg. 395.4-strong shear with gouge + broken core 395.7-395.8- stong shear with gouge + broken core. Alt:35% qtz. carb. parting. Min:tr 1/2% Py						
395.8	405.0	GREEN CARBONATE ROCK-QUAARTZ -CARBONTE VEINS Palae green, lt. grey, mostly f.g. + massive - possibly komatiitic basalt + 20% white carb.	52741	395.8	397.3	1.5	tr	0.01
			52742	397.3	398.8	1.5	tr	0.01
			52743	398.8	400.3	1.5	tr	0.03
			52744	400.3	401.8	1.5	tr	0.40
		Struct:Fol'n schistosity avg. 45deg. Q.C. veins contorted.	52745	401.8	403.3	1.5	1/2	0.20
			52746	403.3	404.8	1.5	tr	nil
		Alt;& Veins:Strong carb-(non-fizzy) 25% of unit affected by pale green mica; 20-. 30% white -lt grey qtz. carb veins up to 30cm						
			AVG.	**400.3**	**403.3**	**3.0**		**0.03**
		Min:Isolated tr Py in qtz. carb. veins. Remarks:403.1-404.8 massive altered mafic vole (basaltic komatiite) 404.8-405 bleached f.g. mafic (diabassse) dyke						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
405.0	405.5	BRECIATTED GRAPHITIC ARGILLITE Fine black mod. hard matrix with 3mm-2cm with angular siliceous clasts.A little definite graphite on slips.						
			52747	404.8	405.5	0.7	3-4	0.24
		Struct:Tectonic Bx; 50deg slips gouge near top. Lower Ct at 40 deg.						
		Min:5% f. Py in matrix.						
405.5	410.5	INTERMEDIATE DYKE Med.grey-slight brown hue;medgrained.Fsp.rich,little or no primary qtz minor chl						
		Struct:Massive to equally foliated at 65deg. Fractured with qtz.-carb veinlets;						
		Alteration & Veins:5-8% lt, grey qtz-carb veinlets; + white gr;minor green mica.						
			52748	405.5	407.0	1.5	1	0.03
		Min:Py diss'n up to 1-2% in upper part.	52749	407.0	408.5	1.5	tr-1	0.02
		Remarks:Numerous inclusions felsic rocks at top + maficu.m. vole at bottom 408.2-0.2m mafic dyke with acicular f.s.p. phenocrysts (trachytic texture)						
410.5	426.2	ALTERED KOMATIITIC FLOWS	52750	413	414.5	1.5	tr	nil
		Med. to dk. grey-green f.g. massive or local spinifex textured	52751	414.5	416	1.5	tr	nil
			52752	416	417.5	1.5	tr	nil
		Struct:Strongly fract'd with qtz-carb cement.Polysuture joints here + there.	52753	417.5	419	1.5	tr	0.07
			52754	419.0	420.5	1.5	tr-1/2	0.01
		Alt; & Veins:5-10% lt. grey white qtz-carb.& *GV* especially from 410.5-421m Minor pale green mica.						
		Min:tr diss'd Py, some in q.c. veinlets.						
		Remarks:Altered interupted dykes similar to unit 405.5-410.5 as follows:- 411.4-411.9; 415.4-416.2; 416.5-417						
426.2	429.0	ALTERED INTERMEDIATE DYKE	52755	426	427.5	1.5	tr	0.03
		As above 405.5-410.5	52756	427.5	429.0	1.5	1-2	0.24
		Struct:Mod.fract. with qc+ veining						
		Alt; & Veins:427.9 -429; Massive pervasive green mica + 15% stockwork f. white qc vein with 3-4% Py diss'n alteration						
		END OF HOLE						
	429.0	Comments:(1)low to mod. Au values expected with strong sericite alt. + mod. to good Py concentration from 315-379m(in T.S.Z.) (Values of 1-3grams expected in better sections.)						

GEOLOGICAL ASSOCIATION OF CANADA
A. W. BEECHAM
11/6/47
FELLOW

HADDINGTON RESOURCES LTD. **DIAMOND DRILL HOLE LOG** **HOLE No. GE-24**

Property	Tp		Azimuth	Date started	Correct	ed Dip	Tests		Location Sketch
HYDRO CR- G.E.	TYRRELL		025(GRID-N)	29/3/96	Depth	MagAz	Tr.Az	Dip	
Project	**Lot & Conc.**		**Dip**	**Date Completed**	42m	035.5	026.5	60°	point" 0.9m above casing;
Hydro Creek-Gold Eye			- 60 ^{0}	2/4/96	102m	033	024	60°	
Claim # 1151464	**Co-ordinates**		Length (metres)	**Drilled by:**	160m	036	027	60°	
# 1151465	9637.70N	10900.40E	339.0m	St.Lambert	220m	037	028	59°	
Grid # Mine grid	**Section:**		**Collar Elevation**	**Logged by:**	339m	038	029	59°	
1995 115^{0} DD.B L.			10,003.35	A.W. Beecham					

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Objectives:- Test 50 m East and 50m above good mineralization and alteration in HC-2 (Laid out before assays from HC 23 received)							
0	1.32	CASING							
1.32	10.0	PILLOWED MAFIC FLOW Med. grey fine even grained. Structure: Bleached and chl. pillow selvages strongly fractured with hairline to 4 cm lt grey calcite. Alteration and Veins: See Struct; Minor episode.							
10.0	14.9	BLEACHED BRECCIATED MAFIC FLOW As above, but light grey. Structure: Bx'd with black chl "matrix". A little schistosity at 40° Alteration and Veins: Strong bleaching- pervasive calcite and calcite hairline-2 cm grey veinlets.							
14.9	24.6	MASSIVE MAFIC FLOW Med grey, fine even grained Structure: A little incipient bx with chl matrix in bottom 2m; Alteration and Veins: 5 % calcite-epidote veinlets with minor Py.							
24.6	33.9	PILLOWED MAFIC FLOW As above: Possible small variolites at 30.3 Structure:Well developed pillow selvages A little incipient bx with chl cementry.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration and Veins: A few % lt. grey calc. A few % calc-epidote veinlets Mineralization: Mineral concentration diss;d Py at top; Minor diss'd Pyr with epidote -calc.						
33.9	56.1	BRECCIATED MAFIC FLOW As above; med dk grey Structure: Incipient bx + chl. cement. Alteration and Veins: A few % black clh. in matrix 2-3% lt grey calcite veinlets up to 3 cm Mineralization: 5% Py/2cm at 55.1 (could be flow contact)						
56.1	64.5	MASSIVE MAFIC FLOW As above- med grey-green Structure and Veins: Weakly fractured with a few % lt grey calcite veinlets 64.3-0.2m open seam reported.						
64.5	71.0	BRECCIATED MAFIC FLOW As above 33.9-56.1 Structure: 65.6- 0.5m open seam- reported Some ground core. Veins and Alteration: A few % lt grey calc. veinlets. 68.4 3cm e.g. orange calcite veins at 10°						
71.0	81.5	PILLOWED MAFIC FLOW Med grey green, fine even-grained Structure: Chl. pl selvages with bleached borders; A little chl filled bx; Alteration and Veins: Minor grey calc + calcite epidote with tr Py Mineralization: tr Py in chl Selvages;						

Metres		DESCRIPTION	Sample				ASSAYS %Py	ASSAYS g/t Au	ASSAYS Avg.
81.5	84.8	LAMPROPHYRE DYKE Med. grey, med to fine grained matrix with about 10% chloritic phenocrysts v 5-10% white feldspar phenocrysts. Pale brown mica or talc; Matrix is calcite rich; A few round epidote-rich clasts; Structure: Contacts at 45°							
84.8	115.5	BRECCIATED MAFIC FLOW Med grey green, f.g. with remnant ophitic texture. Structure: Incipiently bx (auto brecciated) with a few % black chl. filling. A few black chl. pl selvages. 91.6-93.2 m Alteration and Veins: A few in lt. grey calcite and calcite- epidote veinlets. 115.5 - 3 cm mottled white and grey g.v. +8% Py/km selvage at 70° Mineralization: Minor fine Py with grey calcite veinlets. Remarks: 112.2-115.5 appears med grained.- Could be flow centre.	52765	115.4	115.8	0.4	1%	0.16	
115.5	118.5	PILLOWED VARIOLITIC MAFIC FLOW Med. dull grey, f.e.g. H=4-5 1cm rim of 1mm variolite along pillow selvages; Structure: well pillowed - chl. selvages;; Veins: minor white qtz-chl. calcite;							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
118.5	136.1	MASSIVE MAFIC FLOW(S) As above. Structure: Weakly flow structured minor fracturing with black chl or calcite; Veins, Alteration: Minor lt grey calcite, Mod epidote-calcite veining below 131.5							
136.1	145.7	BLEACHED PILLOWED MAFIC FLOW As above; med. light grey Structure: Numerous wide chloridic pl selvages; schistosity at 60° below 144m Veins and Alterations: A few % lt grey-white calc. veinlets; Mineralization: 5% Py/1-2 cm in calc to veinlet at 145m.							
145.7	160.8	BRECCIATED ALTERED SHEARED MAFIC(?) VOLCANICS Light and grey cream coloured pale green Most primary texture obliterated Struct: Mod-strong schistosity of 60-80° vein qtz bx'd with augen and mortor struct; Alteration and Veins: Upper and lower parts strongly bleached: fine pale green Numerous lt green micaceous partings from 157-160.5 146.2-151.7 - 15% bx. lt grey white qtz 153.5-156.3 bx lt grey white qtz 157.7-160.6 -25% contorted lt grey, white qtz calc. veins. bx fragments. Mineralization: Minor conc Py here and there in micaceous partings v as diss'n Remarks: 157.1-157.7 Bleached mafic dyke (diabase) conformable 154.2-155.8 (undeformed) m.g. mafic	52766 52767 52768 52769 52770 52771 52772 52773 52775 52775 52776	144.5 146.0 147.5 149.0 150.5 152.0 153.5 155.0 156.5 158.0 159.5	146.0 147.5 149.0 150.5 152.0 153.5 155.0 156.5 158.0 159.5 161.0	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	tr-1/2 tr tr tr tr-/2 tr tr tr tr tr tr	0.04 0.03 0.92 0.67 0.03 0.01 0.02 0.01 0.04 0.01 nil	
160.8	183.0	ALTERED, SHEARED, MAFIC VOLCANIC Dk grey green fine grained typical mafic volcanic alternating with streaks, partings of 25-35% strongly sheared material with abundant pale to bright green mica	**AVG**	**147.5**	**150.5**	**3.0**		**0.80**	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au	Avg
		Structure:Strongly schistocity at 50° to 35° contorted.Sections of bx'd q.v. qtz.calc	52777	161	162.5	1.5	tr	0.01	
			52778	162.5	164	1.5	tr	0.02	
		Alterations and Veins: Mod strong to med, green mica- affects 25% of unit. About	52779	164.0	165.5	1.5	tr	0.01	
		10% grey and white auger bx'd and veins. Streaks dark chl here and there	52780	165.5	167.0	1.5	tr	0.04	
		164 and 164.3 10 cm and 5 cm white and orange c.g. calcite at 15°	52781	167.0	168.5	1.5	tr	0.01	
			52782	168.5	170.0	1.5	1.0	0.12	
		Min: Minor Py as diss'n with green mica 169.1-169.4 - 6-8% heavy Py diss'n	52783	170	171.5	1.5	tr	0.03	
			52784	171.5	173	1.5		0.03	
183.0	200.2	MASSIVE MAFIC FLOWS	52785	173.0	174.5	1.5	tr	0.04	
		Med to dark dull grey, f.g. uniform textured	52786	174.5	176.0	1.5		0.01	
			52787	176.0	177.5	1.5	tr	0.03	
		Structure: Strongly fractured with calc cement. Indistinct flow structure, minor bx	52788	177.5	179.0	1.5		0.02	
			52789	179.0	180.5	15		0.04	
		Alteration and Veins: Abundant calcite as pervasive alteration and hairline to 4 cm	52790	180.5	182.0	1.5		nil	
		banded veins. Calcite-epidote in bottom 1.5 m (adjacent) to diabase dyke.	52791	182.0	183.0	1.0		0.03	
		Remarks:Sections of m.g.-coarse grained mafic volcanic 187.8-188.9; 192.5-193.7							
200.2	206.5	PORPHYRITIC DIABASE							
		Dk grey f.g. matrix, about 5%							
		5 mm- 2 cm green epidote altered feldspar, phenocrysts in clusters + scattered							
		throughout +strongly magnetic.							
		Structure: 201.8-202 Rusty gouge seams up to 1 cm at 45° mark small fault.							
		upper Ct irregular -chilled at about 35°							
206.5	255.0	MASSIVE FINE-MED GRAINED DIABASE							
		Dk grey fresh uniform equigamiles. Strongly magnetic. Med-coarse grained centre							
		about 237-249m							
		Structure: Very massive, few fractures							
		Alternation: Minor calc- epidote veinlets							
		Min: Minor diss'd Py here and there							
		Remarks: Gradational contact and some intrusive as previous porphyritic unit							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	opt Au	Avg.
255.0	258.2	FRACTURED DIABASE- FAULT ZONE As above.							
		Struct:255.5-257.2 Strong fault-finely broken with numerous gouge seams up to 5 cm.Remainder finely fract(unit broken)with chl cement.0.5 heterolithic bx at bottom	52792	257.6	258.2	0.6		0.34	
258.2	267.3	SILICIFIED FELSIC VOLCANIC(S) Lt grey fine grained mottled sections separated by 15-20% bright green mica, either remnant phenocrysts or secondary feldspar.							
		Struct:Strong schistosity between felsic sections at 40-60° Bx + sections of broken core:A little gouge on fracture here and there 263.5-263.8 gauge seams at 45°-55° up to 6 mm thick							
		Alteration and Veins: Intense pervasive sil'n. Much of material grey mottled	52793	258.2	259.7	1.5	1/2-1	0.93	
		quartz and except for feldspar local remnant porphyntic texture could be called	52794	259.7	261.2	1.5	2%	1.75	
		vein quartz wisps.(10-15%) bright green mica and fine nearly white mica.	52795	261.1	262.7	1.5	1%	2.61	
		A few pearly-white irregular qtz veins up to 4 mm	52796	262.7	264.2	1.5	1-2%	3.26	
			52797	264.2	265.3	1.1	2%	2.64	
		Mineralization: Med. grained Py and fine bright Py diss'd in silicious rock and	52798	265.3	266.3	1.0	tr	0.27	
		with fine white mica. Also fine Py in dull green micaceous streaks.	52799	266.3	267.3	1.0	tr	0.03	
		Remarks:Bright f.g.Py with white mica similar to zone carrying values in dh GE05 (upper dip) 265.3-266.1 hetrolitich felsic bx 266.3-266.6 altered f.g. mafic dyke	**AVG**	**259.7**	**265.3**	**5.6**		**2.560**	
267.3	273.7	GREEN CARBONATE ROCK	52800	267.3	268.8	1.5	tr	nil	
			52801	268.8	270.3	1.5	tr	0.07	
		Pale grey green, med-fine grained very carbonate rich.	52802	270.3	271.8	1.5	tr	0.03	
		Struct:Strong fol'n-schistosity at 40°.Minor gouge along fract. // to schistosity.	52803	271.8	273.3	1.5	tr	nil	
		Alt:& Veins: 25% dull light grey qtz carb veins contorted mostly along fol'n, but some veins cross-cut weak-moderate med. green micaceous partings	**AVG**	**265.3**	**273.3**	**8.0**		**0.056**	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Mineralization: tr fine Py with gr-carb veins							
		Remarks: Chlorite sections, 10 cm at 270.3 and 20 cm at 271.7 probably originally argillite interflow beds272.0-272.2 altered F.P. Lower contact seems gradational short altered felsic sections within green carb.							
273.7	291.3	BRECCIATED SILICIFIED FELSIC ROCK Similar to unit 258.2-267.3 except all textures completely obliterated lt grey, pale green.							
		Struct: Micaceous partings- schistosity at 40° to 160°. Original rock affected by at least 2 periods of bx.Felsic frags themselves cut by close spaced hairline qtz-+qtz. carb veinlets. A little gouge here and there on fractures only a little broken core.							
		Alt: & Veins:Intensive, pervasive sil'n Variable amounts med green to very pale green mica (Sericite) in bx matrix v as streaks and partings affects up to20% of rock. veins and bx fragments of white mottled qtz up to 30 cm at 278 and 25% from 277.5-282.8	52804	273.3	274.8	1.5	1-2%	1.44	
			52805	274.8	276.3	1.5	1-2%	1.17	
			52806	276.3	277.8	1.5	1-2%	1.53	
			52807	277.8	279.3	1.5	1%	1.44	
			52808	279.3	280.8	1.5	1/2-1	3.66	
		Mineralization: Fine Py with med. green mica partings and wispy. Some fine pale Py green mica; lean diss'n in altered volcanics.	52809	280.8	282.0	1.2	1/2-1	0.55	
			52810	282.0	283.0	1.0	1/2-1	0.58	
			52811	283.0	284.3	1.3	1%	1.13	
		Remarks: 280.6-282 Carb'd mafic rock	52812	284.3	285.7	1.4	2%	6.65	
			52813	285.7	286.9	1.2	1%	4.46	
291.3	2965	MASSIVE ALTERED FELSIC (OR MAFIC) ROCK??	52814	286.9	288.4	1.5	2-3%	3.53	
		Pale green, fine grained moderate hardness carbonate-rich, pervasive green mica and qtz.	52815	288.4	289.9	1.5	2-3%	3.46	
			52816	289.9	291.4	1.5	3%	2.09	
		Structure: Relatively massive, finely fractured and recemented with qtz and carbonate							
			AVG	273.3	284.3	11.0		1.506	
		Alt & Veins: Intense pervasive carb-quartz + qtz carb veinlets Strong pervasive pale yellow green mica.Sections of shattered pyritic grey qtz up to 20 cm A little white qtz.	52817	291.4	292.8	1.4	1%	2.33	
			52818	292.8	294.0	1.2	2%	1.30	
			52819	294.0	295.0	1.0	1-2%	4.49	
		Min:Uniform diss'n fine Py; streaks of heavy diss'n of fine Py with pale mica in grey qtz.	52820	295.0	296.5	1.5	1-2%	2.43	
			AVG	**284.3**	**296.5**		**12.2**	**3.38**	
			Avg incl	**284.3**	**286.9**		**2.6**	**5.64**	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Remarks:Looks like orig'ly felsicrock as no dk min. but high carb content sug'ts could be mafic or U.M.	52821	296.5	298.0	1.5	1-2%	0.69
			52822	298.0	299.5	1.5	1-2%	1.13
296.5	303.8	BRECCIATED SILICIFIED FELSIC ROCK	52823	299.5	301.0	1.5	1-2%	2.06
		As above 273.7-241.3	52824	301.0	302.5	1.5	1-2%	2.90
			52825	302.5	303.8	1.3	1-2%	1.99
		Structure: Schistocity layering at 45°302:- 5mm gouge along schistosity at 40°						
			AVG	**296.5**	**303.8**	**7.3**		**1.748**
		Alteration and Veins: As above.	**AVG**	**258.2**	**303.8**	**44.1**		**1.935**
		Min'n: As above.						
		Remarks: Sections of pale green carb-qtz sericite rocks below 298- similar to unit 291.3-296.5;						
303.8	306.9	ALTERED, INTERM- MAFIC DYKE	52826	303.8	305	1.2	tr	0.12
		Med dull grey fine to med grained H=4; Appears to have been originally felspar rich						
		Structure: Massive uniform,mod-fract with 5% qtz-carb veining.						
		Alt:& Veins: See struct. Relatively soft- probably dol. minor green mica, bleached						
		Mineralization: tr diss'd Py;						
306.9	313.0	GREEN CARBON ROCK WITH QTZ-CARBONATE VEINS						
		Pale green,lt grey med-finegrained.Non-fizzy carb.qtz.chl +a little palegreen mica.	52827	309	310.5	1.5	tr	0.03
			52828	310.5	312.0	1.5	tr	0.03
		Struct:Strong fol'n-schistosity at avg 45°,contorted;augens struct. and incipient bx'n	52829	312.0	313.0	1.0	tr	0.47
		Alt: Intense pervasive carb 15%white qtz carb and white q.v.(312-313) up to 20 cm						
		Min'n: tr Py here and there						
313.0	323.1	KOMATIITIC VOLCANIC- GRAPHITIC ARGILLITE BRECCIA	52830	313	314.5	1.5	tr-1/2	0.25
		Pale green-grey soft, mostly fine graind angular less than 1 cm to 10 cm clasts	52831	314.5	316	1.5	tr-1/2	0.07
		altered komatiitic vol (?) 50% in black, chloritic graphite matrix	52832	316	317.5	1.5	tr-1/2	0.60
			52833	317.5	319	1.5	tr-1/2	0.14
		Structure: Schistosity and clast alignment at 50-60°	52834	319	320.5	1.5	1/2	0.62
			52835	320.5	322.0	1.5	tr-1/2	0.50
		Alteration: Vole clasts appear carbon'd ; about 5% white qtz carb and qtz veins, partings;A little green mica here and there.	52836	322.0	323.1	1.1	tr-1/2	0.05

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: tre-1/2% diss'n streaks larger broken grains Py small bleb cp. at 316.7 Remarks: bx is probably a primary feature rather than tectonic- similar basalt-mudstone bx common in undeformed volcanics, Minor veinlets soft green serpentine-like mineral						
323.1	328.8	GREEN CARBONATE ROCK As above Structure: Streaky fol'n bending and schistosity at 65°. Alteration: Intense carb, a little green mica- A few % lt grey-white gr-carb veinlets						
328.8	333.7	GREEN CARBONATE WITH GRAPHITIC-ARGILLITE As above 10-15% black chloritic moderately graphitic layers up to 2 or 3 cm Probably deformed bx filling Structure: Schistosity 60-70332.1- 1-2 cm gouge and bx- a little lost core? Alteration and Veins: Strong carb 10% qtz carb veinlets. Minor green mica Min'n: Minor diss'n Py here and there in argillite and adjacent green carb 332.3 - 8 cm rusty gossan boxwork. Remarks: 331.10-333.7 felsic sericitized intrusive ? Small veins amphors, soft green serpentinitic like mineral here and there	52837 52838 52839	328.8 330.3 331.8	330.3 331.8 332.5	1.5 1.5 0.7	tr-1/2 tr tr	0.08 0.01 0.14
333.7	339.0	BLEACHED ALTERED HORNBLENDE DIORITE (?) DYKE light-med grey, med grained H=6 1-3 mm bleached acicular feldspars- remnant diabasic or ophitic texture. Textually same as hornblende diorite near La Carte road gate. Structure: Upper Ct sharp at 75° No chill- could be small slip. 5% 2-4 mm clusters of mafic (hornblende) phenocrysts and small mafic (lithic) inclusions 5-10 mm Alteration and Veins: Strongly bleached. Section of pervasive green mica Mineralization: tr diss'd Py						
	339.0m	END OF HOLE						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Notes: (1) 146-183 Strong sheer zone in mafic volcanics with bleaching, green mica, brecciated vein qtz and minor sulphides, may be splay from main T.S.L. Intensity of alt. and am't of sulphides and qtz veining indicate no valves at this point but may be ore structure some other place. Not cut with HC-23 only 50 m to west suggests that it is not parallel to T.S.Z. (2) T.S.Z. Core from 258.2-303.8 has very strong silicification and 1-3 % Py Low to some moderate values expected. A.W.Beecham. 2/4/96. A. W. Beecham GEOLOGICAL ASSOCIATION OF CANADA · FELLOW · A. W. BEECHAM 11/6/97					

HADDINGTON RESOURCES LTD. **DIAMOND DRILL HOLE LOG** **HOLE No. GE-25**

Property	Tp	Azimuth		Date started	Correct	ed Dip	Tests	(°)	Location Sketch
Goldeye	Tyrrell Twp	010.5°true	345.5° Grid	7 June 1996	16m	64°	025+/-	16°	
	Lot & Conc.		Dip	Date Completed	100m	63°	019°	10°	
			63.5°	21 June 1996	200m	62°	020°	11°	
Claim #1151464	Co-ordinates		Length (metres)	Drilled by:	322m	61°	025.5°	16.5	Mag Rocks
	9528.23N	10950.03E	502.0m	Major Dominik	400m	61°	023°	14°	
Grid #	Section:		Collar Elevation	Logged by:	500m	61	015°	06°	Assume azimuth as layout
1994 Drill Grid 115° B.L.			10,001.58	A.W. Beecham					

Metres From	Metres To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Objectives: To test T.S.Z. on section 10.90 OE at elevation of 9605 (100m vertically below intersection in D.H. HC23) Note: Collared on Goldeye- Byberg boundary and fanned from 50m East of section							
0	4.0m	Casing:							
4.0	8.6	BRECCIATED MAFIC FLOW Med to light fine, even grained. H=4 Structure: Incipient Bx (primary) Alteration and Veins: A little dark chl in fractures weakly bleached. A few diffuse lt. grey-white qtz +/- feldspar veinlets with a little Py Min: See above. Minor conc. of Py as blebs and euhedra. e.g. at 7.7 m							
8.6	14.9	FINE FELSIC TUFF AND MAFIC VOLCANIC BRECCIA Med. grey fine sand to lapilli up to 1 cm, flat clasts. H=5. Mainly fine feldspar quartz lithic clasts. Structure: Nearly massive to bedded at 35-45°; Minor broken core at 13.2 m. Minor weak chloritic schistosity Veins and Alteration: 5% diffuse (opalescent) lt grey-white qtz veins up to 2cm with minor Py + sil'd selvages. Sparse white qtz-calc up to 3 cm in lower part. Remarks: 9.7-10.3 mafic volcanic bx. Mixed at contacts within interm tuff;	52851 52852 52853 52855 note 11.5	8.5 10.0 11.5 14.0 -13.0	10.0 11.5 14.0 15.0 and	1.5 1.5 2.5 1.0 13.0-	1% tr-1/2 1% 14.0	0.01 0.01 0.02 0.07 combined in sampl ing	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
14.9	36.0	BLEACHED PILLOWED MAFIC FLOWS Med. to light grey, fine grained H=4 to 3 in places. Structure: Wide spaces pillow selvages with chl. hyaloclastite. Some incipient bx'n with dk chl. cement; only weakly deformed. Veins and Alteration: A little dk chl in fractures and pl. selvages; A few %						
		lt grey calcite throughout;	52856	21.2	21.7	0.5		0.03
		21.7-23.2 5% white qtz-calc. with wisps and some heavy diss'n of Py incl	52857	21.7	23.2	1.5	2-3%	2.39
		15% /4cm at 21.8m. Minor pale green mica ? and + tr Py at here and there (e.g. 19m)	52858	23.2	23.7	0.5		0.02
		Min'n: See veins; tr Py here and there						
36.0	62.0	MASSIVE PILLOWED MAFIC FLOWS As above. Structure: Weak incipient bx'n with a little chl throughout pillow selvage +/- hyalaclastite 32.8-34.9 and 52.8-54.9. Alteration and Veins: 1-3% lt grey calcite veinlets. 53.9-54.2- 80% qtz calcite epidote tr Py 44.7-45.0 white qtz-calcite with up to 4% diss Py / 10cm 54.5-54.9 lt grey qtz + chl; +2-3% Py parallel to core axis.						
		Min'n: See Veins.	52859	44.6	45.2	0.6	1-2%	0.38
62.0	63.2	ALTERED MAFIC OR LAMPROPHYRE DYKE Med. grey-med to fine grained calcite rich with feldspar- and pale mica. Speckled with altered mafic phenocrysts or inclusions. Contacts at about 50°.	52860	53.9	55.1	1.2	1%	nil
63.2	89.0	MASSIVE MAFIC FLOWS Dark med-grey green, fine even grained. H=3 to 4 non magnetic.						

Metre. From	To	DESCRIPTION	Sample Numbers	From	To	Length	ASSAYS %Py	g/t Au	Avg.
		Structure: Flow structured, some incipient bx. with chl.							
		Veins and Alterations: 2-3% lt grey calc. veinlets. A little epidote and calcite or calc qtz veinlets. Minor white qtz-calc + Py here and there. 71.5-75.5 Bleached and with pervasive calcite in banded qtz calc + diss'd Py minor pale green mica 73.7-74.0 m	52861	73.5	74.2	0.7		0.51	
		Min'n: Minor diss'd Py with white calcite and qtz-epidote veins.							
89.0	98.0	PILLOWED MAFIC FLOWS: As above, Med. grey-green, fine grained.							
		Structure: Well developed 0.50 4cm thick black chloritic pillow selvages. Every 30 to 100 cm. Undeformed;							
		Veins and Alteration: Minor lt grey calcite veinlets; sections of up to 10 cm of epidote- qtz+calcite tr Py 5% overall. Minor white qtz veinlets with very diffuse Py'e selvages e.g. 1 cm at 96m.	52862	95.7	96.4	0.7	1%	0.08	
		Min'n: Scattered grains and lean diss'n of Py here and there.							
		Remarks: Texture and composition seems same as above and below unit.							
98.0	115.3	MASSIVE MAFIC FLOWS As above.							
		Structure: Moderately fractured, middle part moderately deformed; some incipient (flow ?) bx'n with black chl cement.							
		Alteration and Veins: 3-4% lt grey calcite veinlets.							
		Minor epidote +/- calcite +/- qtz	52863	98.4	99.0	0.6	tr	nil	
		98.6-5 cm - 7 cm banded vein of white qtz, epidote, calcite and dk chl tr Py at 15°	52864	99.0	100.5	1.5		0.37	
		100.3 - 1 cm white qtz-calc. tr Py 65°	52865	106.8	107.8	1.0	1/2%	0.01	
		106.8-108.3 Deformed fractured with a little pale mica about 25% lt grey calc and tr diss'd Py	52866	107.8	108.8	1	tr	0.03	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	G/t Au	A
115.3	128.3	MED- COARSE GRAINED MAFIC VOLCANIC Med-dk grey green, med.to c.g. clusters of chl'd mafics with interstitial felsics. Structure: Mostly massive weakly fractured. Alteration and Veins: 3-4% lt grey calcite, minor epidote streaks. A few white qtz and calcite veins up to 2 cm at 121.1 115.3-115.55 banded qtz calcite tr-Py 45° Min'n: Minor diss'd Py at top. Remarks: Top 4-5 cm finely speckled with pale clay mineral or leucoxene;	52867	115.2	115.8	0.6	tr	0.01	
128.3	129.8	LAMPROPHYRE DYKE: Med grey brown- med fine grained matrix in feldspar +/- qtz and calcite with - 8% 1mm chl mafic. Pale mica on broken surface. Structure: Contacts at 45°							
129.8	132.3	MED-COARSE GRAINED MAFIC VOLC. As above. Lower contact abrupt against fine grained volcanic.							
132.3	147.3	MASSIVE MAFIC FLOWS As above, fine grained. Structure: Possible flow bx at top. 136.5-137.6 lt grey sheared bx(?) with schistosity at 45°. A little incipient bx'n here and there. Veins and Alteration: A few % lt grey calcite veinlets; minor epidote streaks. A few qtz-calcite veinlets up to 2 cm.							
147.3	149.5	LAMPROPHYRE OR ALTERED MAFIC DYKE Med. grey ophitic-like texture, composed of feldspar, calcite and chl'd mafic; med coarse grained- fine grained contact; Part is c.g. gabbro-like. Structure: Massive; upper contact- 60°							

Ft From	Ft To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
		Min'n: tr diss'd Py							
149.5	174.9	MASSIVE PILLOWED MAFIC FLOWS As above, med. grey; Fine (1mm) varialities at pillow selvages at 170 m Structure: 3-5 m massive sections separated by sections with pillow selvages and some flow bx; Veins and Alterations: A few % lt grey calcite veinlets. White qtz- calcite up to 2 cm here and there with diffuse Py in selvages 155-156 25% grey calcite. Minor epidote and streaks and veinlets. White qtz-calc as follows 3cm at 151.6; 1 cm at 155.7 and 169.9-171.2 5% white qtz calc - 1 cm to 10 cm Min'n: Minor diss'n of fine Py e.g. 1/2 1m at top;	52868	169.8	171.3	1.5	tr	0.01	
174.9	176.0	FRACTURED MAFIC VOLCANICS- FAULT As above. Structure: Broken core; gouge and breccia seams up to 1 cm at bottom at 45-65°	52869	175.2	176.0	0.8	tr	nil	
176.0	217.0	MASSIVE-BRECCIATED MAFIC FLOWS As above; med. dull grey Structure: Most has incipient brecciation with chl. fractures. Pillow selvages 184.8-186. Alteration and Veins: 2-3% streaky branching lt grey to white med to c.g. calcite veinlets white qtz +/- calcite and tr Py here and there commonly 1-2 cm 188.2- 20 cm calc qtz chl (green mica) bx- 45° 189.0- 10 cm 203.3 -12 cm white banded qtz bx 70° 176-176.8 Strong grey sil'n green mica immediately below fault; Minor streaks of epidote Min'n: tr Py here and there Remarks: 201-205.5 Speckled med. grained similar to unit 115-128m	52870 52881	176.0 202.8	177.0 203.6	1.0 0.8		0.01 0.27	
217.0	220.0	BLEACHED ALTERED PILLOWED MAFIC FLOW Lt grey or green, fine even grained H=3 to 4							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Struct: Well developed chloritic pillow selvages							
		Alteration and Veins: Strong bleaching and a little green mica. Calcite veinlets and some pervasive calc.							
220.0	236.3	MASSIVE MAFIC FLOWS							
		As above, med. grey							
		Structure: Most is incipiently bx'd with chl fracture- filling							
		Alteration and Veins: Moderately bleached from 225.5-230 m							
		2-3%lt grey calcite veinlets and some pervasive calcite; Dk chlorite in fractures;	52871	228.9	230	1.1	tr-1/2	0.01	
		Minor pale green mica. Sparse white qtz-calc. with minor fine Py in wall rock.	52872	230	231.1	1.1	tr-1/2	0.03	
		e.g. 1 cm at 229.5 and at 231 m. Coarse grained orange and white calcite as follows.							
		220.2 - 2 cm at 10° ; 228.7 - 1 cm at 5°							
		230.5 - 2 cm at 30°							
		Min'n: tr Py here and there; minor blebs Cp in calcite veinlets at 233.4							
236.3	240.1	BLEACHED ALTERED MAFIC VOLCANICS							
		Pale green, light grey							
			52873	236.2	237.7	1.5	tr	0.10	
		Structure: Upper ct marked by a few mm gouge and calcite vein at 45°	52874	237.7	239.2	1.5	tr	0.01	
		237.3- Minor gouge in 35° fract. Lower contact gouge calc vein at 15°	52875	239.2	240.3	1.1	tr	0.02	
		Some incipient flow bx- and pillow selvages.							
		Alterations and Veins: Strong bleaching and mod strong pale green mica.15%							
		strong pale grey-pink qtz 30 cm at top							
		5% grey calc and calc-qtz veins							
		237.2- 10 cm c.g. grey and pink calc 45°. Sections of strong pervasive calcite							
240.1	262.0	MASSIVE MAFIC FLOW(S): As above.							
		Structure: Incipient bx with chl filling.							

Ft From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg
		Alterations and Veins: 1% lt grey calcite veinlets. Sparse calc-white qtz and isolated white qtz veinlets. Moderate pervasive calcite throughout; 262- 10 cm pink and white c.g. calc. at 45°. Very minor pale green mica wisps.							
262	267.6	ALTERED PILLOWED- MASSIVE MAFIC FLOW(S) Med. lt grey or pale green. Fine even-grained							
		Structure: Chl'c pillow selvages or massive sections of strong schistosity with pale green mica. Minor grey qtz-calcite. 266.4-267 white calcite and soft med green serpentine like mineral bx veins.	52876 52877 52878	262.2 263.9 266.4	263.9 266.4 267.0	1.7 2.5 0.6	tr tr tr	0.75 0.06 0.10	
		Min'n: Minor conc'n Py with green mica at 266.3 m Elsewhere minor Py in chl'c pillow selvages and with qtz calc and green mica.							
267.6	269.9	ALTERED DEFORMED MAFIC VOLCANICS As above, lt grey pale green	52879 52880	267 268.5	268.5 270.0	1.5 1.5	tr tr	0.02 0.52	
		Structure: Mod strong fol'n- schistosity at 45°.							
		Alteration and Veins: Minor white calcite; 268.8 2-4 cm lt grey qtz, tr Py at 45°. Mod pale green mica- as wisps and partings.							
		Min'n: tr Py here and there with green mica							
269.9	272.9	ALTERED DEFORMED MAF-VOLCANIC + MINOR GRAPHITIC ARGILLITE Volcanics as above unit. Chloritic +/- graphitic partings from 1 mm up to 30 cm make up 10% of units: Thicker argillite layers as follows: 20 cm at 270.8, 30 cm at 272.3	52882 52883	270.0 271.5	271.5 273.0	1.5 1.5	tr tr	nil 0.07	
		Structure: Schistosity 45° Bx'd qtz and atz-carb veinlets							
		Alteration and Veins: A few % lt grey to white qtz partings, veinlets, minor white calcite; Mod. pale green mica.							
		Min'n: tr- minor Py here and there in silty layers in argillite and with green mica							
272.9	302.8	ALT'D DEFORMED MAFIC VOLC AND BRECC'D QTZ CARBONATE VEINS							
		Upper part pale green - med dk green below about 280m	52884 52885	273.0 274.5	274.5 276	1.5 1.5	tr-1/2 1/2	0.02 0.04	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Structure: Moderately deformed with sections of strong schistosity. Schistosity angles as follows: 275- 45°, 285- 45°, 290 - 35°, 295 - 50-60°, 300m 45-125° Some primary struct here and there. e.g. pillow selvages at 279.8. Some incip't flow bx here and there. Mortar texture developed in bx'd vein sections.	52886	276	277.5	1.5	tr	0.02
			52887	277.5	279	1.5	tr	0.02
			52888	279	280.5	1.5	tr	0.01
		Alt'n and Veins: Lt grey qtz-carbonate- qtz-calc up to 60° /2m.Thicker sections strongly bx'd. Minor white grey calcite veinlets.	52889	280.5	282.0	1.5	tr	nil
		274.7-275.5 50% bx, shr'd qtz-calc	52890	282.0	283.5	1.5	tr	0.01
		278.2-279.2 20% qtz-carb, 285.5-287.5 40% finely bx'd qtz-carb	52891	283.5	284.5	1.0	tr	0.01
		291 -297 10-20% bx qtz-calc. Bleaching above 280m. Variable pale green mica moderately in upper bleached parat and in sheared and qtz-carb-calc veined sections of pervasive calc.						
		Min'n: tr- minor Py with wisps green mica	52892	284.5	285.5	1.0	tr	nil
			52893	285.5	287.0	1.5	1/2	0.01
		Remarks: 300.7-302.8 Unaltered mafic flow rock	52894	287.0	288.0	1.0	1/2	0.02
			52895	288.0	289.5	1.5	tr	nil
302.8	309.7	PORPHYRITIC DIABASE: Med. grey, med-fine "fresh" strongly magnetic; A few % 5mm-30mm epidote altered feldspar phenocrysts.	52896	289.5	291.0	1.5	tr	0.02
			52897	291.0	292.5	1.5	tr	0.01
			52898	292.5	294.0	1.5	tr	0.05
		Struct: Massive uniform, broken core in top 0.5 m.	52899	294.0	295.5	1.5	tr	0.01
			52900	295.5	297.0	1.5	tr	nil
		Remarks: Lower ct arb'y same intrusive above & below ct placed at limit of phenocrysts	52901	297.0	298.5	1.5	tr	nil
			52902	298.5	300.0	1.5	tr	nil
			52903	300.0	301.5	1.5		nil
309.7	353.0	MASSIVE MED-FINE GRAINED DIABASE	52904	301.5	302.8	1.3		nil
		Med. dark grey alternating fine and med grained section. May indicate multiple intrusion. Strongly magnetic. Some sections finely speckled.						
		Structure: Minor sections broken core 318-328. Lower contact appears to be "double chill"						
		Veins and Alterations: Sparse epidote-calc veinlets & short sect'n of epidote alt'n						
		Min'n: 319 tr cp and Py in epidote-calc veinlets.						
353.0	390	MED- COARSE GRAINED SPECKLED DIABASE						
		Med grey- speckled with 1 mm chl'd mafic + magnetic						
		Struct: Upper ct long f g. sect'n with indistinct chill. Appears to "double chill"						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration and Veins: Minor epidote- calcite veinlets.						
		Min'n: tr Py as scattered grains						
		Remarks: Intrusive unit 353.0 +/- 391 +						
390	391.2	FRACTURED FINE GRAINED DIABASE FAULT ZONE Dk green fine grained, non-magnetic (as is typical near contact.)						
		Structure: Shattered and broken core throughout						
391.2	394.8	FRACTURED ALTERED FELSIC VOLC (?) FAULT ZONE Mod. grey, mottled, very hard, fine even grained- no primary textures.						
		Structure: Broken core throughout. Strong box'n shearing and gouge mark discrete fault at upper ct. sections of gouge 391.2-392.6 m; Fine re-cemented bx in places	52905	390.7	391.2	0.5	tr	0.47
			52906	391.2	392.4	1.2	4-5%	16.02
		Alteration and Veins: Fine intense silification almost throughout. Streaks black	52907	392.4	394.0	1.6	3%	3.89
		chlorite from 391.6-391.9. A little blue grey opalescent feldspar or silica ?	52908	394.0	394.9	0.9	2%	0.77
		Fine network hairline 1mm lt grey gk veinlets. Isolated right green mica.						
			AVG	**391.2**	**394.0**	**2.8**		**9.09**
		Min'n: Wisps, veinlets streaks clusters of dark Py. Parallel streaks and beads in	**AVG**	**391.2**	**396.0**	**4.8**		**6.07**
		chloritic section. Up to 10% Py/10 cm. 392.6- films silver grey soft metallic.	**AVG**	**391.2**	**402.5**	**11.3**		**3.43**
394.8	402.7	ALTERED FELSIC VOLCANIC (?)	52909	394.9	396.0	1.1	1-2%	2.71
		As above 391.2-394.8 fine grained and grey, very hard	52910	396.0	397.0	1.0	2	1.03
			52911	397.0	398.5	1.5	2-3%	1.34
		Structure: Massive and uniform or fine recemented bx;	52912	398.5	400.0	1.5	2-3%	2.16
			52913	400.0	401.5	1.5	2%	0.99
		Alteration and Veins: Intense sil'n; fine network qtz veinlets. Minor pearly white	52914	401.5	402.5	1.0	2%	1.91
		q.v. to 1 cm at 10-30° Moderate pervasive calcite and fine calc veinlets.						
		Min'n: Blebs, streaks, diss'n med grained dk Py; lesser amount fine grained diss'd pale Py						
402.7	405.3	ALTERED MASSIVE FELSIC VOLCANIC WITH GREEN MICA	52915	402.5	404	1.5	2%	0.43
		Med lt grey f.g. very hard and very siliceous. Fine mottling; streaked with dull	52916	404	405.5	1.5	1-2%	0.30
		medium green mica.						
		Structure: Massive to very indistinct, fine re-cemented breccia. Weak schistocity + mortar structure at 45° Shattered and recemented with qtz and calcite.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration and Veins: Very strong sil'n cris-crossed with fine lt grey qtz veinlets streaks and veinlets, pearly-white qtz +/- secondary feldspar veinlets. 20% streaks and breccia - matrix of med-green mica. Min'n: Lean diss'n Py mainly with green mica						
			52917	405.5	407.0	1.5	tr	0.16
405.3	408.6	ALTERED INTERMEDIATE VOLC (?) WITH CHLORITIC PARTINGS As above 391-394 with 5% dark chl and minor lt green mica partings H=5-6 Alteration and Veins: Strong pervasive calc. suggests intermed - basic composition Minor lt grey calc. veinlets. Weak sil'n here and there; Minor wisps and threads pale green mica; A few lt grey qtz-calc chl conformable veins. Remarks: Could be sediment. Min'n: tr diss'd Py.	52918	407.0	408.5	1.5	tr	0.25
408.6	419.2	ALTERED INTERMEDIATE- FELSIC VOLCANIC + PALE GREEN MICA Med. lt grey, pale green streaks; H=5-6, sections resemble fine - lapilli tuff, most has no primary texture or structure. Structure: Massive to fol'd and schistosity at 20° t0 60°- contorted shattered and recemented. Minor sections broken core and a little gouge on fractures; here and there; Bx'n sil'd layers near bottom. Alteration and Veins: Weak-moderate sil'n. Network fine calc veinlets and pervasive calcite throughout most of unit. Below 416.5 - 30 cm intense sil'n variable amounts 10-30% wisps partings of pale green mica. Min'n: Py diss'd with green mica. 2-3 mm streaks 30-50% dark Py here and there. Sparse diss'n fine pale Py.	52919	408.5	410.0	1.5	1%	0.26
			52920	410.0	411.5	1.5	1%	0.17
			52921	411.5	413.0	1.5	1-2%	0.35
			52922	413.0	414.5	1.5	1-2%	0.55
			52923	414.5	416.0	1.5	2%	0.92
			52924	416.0	417.5	1.5	2-3%	1.01
			52925	417.5	419.0	1.5	2%	1.47
419.2	429.5	ALTERED FELSIC VOLCANICS WITH BX'D SILICEOUS ZONES As above with bx'd siliceous zones as follows: 419.3-420.6 423.3-424.5 427.7-429.4 429.3-429.5 Layers of green carbonate rock as follows 425-426 426.3-426.6						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Structure: Strongly fol'd and schistose to massive schistocity as follows:						
		420- 40° 425- very contorted;						
		428-130°	52926	419.0	420.6	1.6	1-2%	0.14
			52927	420.6	422.1	1.5	1/2%	0.62
		Alteration and Veins: Moderate to intense sil'n; (about 50% intense)	52928	422.1	423.3	1.2	1-2%	0.40
		20% wisps and bx matrix yellow-green and med. green mica	52929	423.3	424.4	1.1	3-4%	0.76
			52930	424.4	425.0	0.6	1-2%	0.47
		Minor calcite veinlets; carb layer ore intensely altered ultra mafic layers (?)	52931	425.0	426.5	1.5	tr-1/2	0.31
			52932	426.5	427.5	1.0	1/2%	0.33
		Min'n: Fine Py with pale green mica. Minor 1-2 mm veinlets, wisps, blebs,	52933	427.5	428.5	1.0	3%	0.62
		Fine diss'n in mortar textured bx zones (in matrix)	52934	428.5	429.5	1.0	1-2%	0.33
429.5	432.0	BANDED CARBONATE ROCK						
		Light green-grey med- fine grained 60-70% carb- qtz -layers separated by chl and						
		green mica partings.	52935	429.5	430.7	1.2	tr	0.03
			52936	430.7	431.9	1.2	tr	0.08
		Struct: Strong contorted schistosity at 40° to 0°. Minor broken core.						
		Alteration: Completely carb and (non-fizzy)						
		Min'n: tr Py with green mica						
432.0	434.9	ALTERED FELSIC VOLC						
		Med. grey mottled very hard f.g. looks indistinctly porphyritic ?						
		Structure: Indistinct fine re-cemented bx shattered and re-cemented with q.c.						
		Alteration and Veins: Strong pervasive sil'n. A little yellow-green mica	52937	431.9	433.4	1.5	3%	0.50
		cris-crossed with fine q.c. veinlets	52938	433.4	434.9	1.5	2%	0.48
		Remarks: 432.1- 30 cm siliceous bx with Py						
434.9	437.7	BANDED CARBONATE ROCK						
		As above 429-432.						
		Structure: Strong contorted fol'n- schistosity at 20° - 0°.	52939	434.9	436.3	1.4	tr	0.24
			52940	436.3	437.7	1.4	tr	0.25
		Alteration and Veins: Strong to intense sil'n 25% streaks wisps bands of pale green mica.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: tr diss'd Py here and there.						
437.7	440.4	ALTERED FELSIC VOLC.	52941	437.7	439.1	1.4	1-2	0.27
		As above 432-434; Remnant fk. fsp. porphyritic	52942	439.1	440.4	1.3	1-2	0.38
		Alteration and Veins: Strong to intense sil'n 25% streaks wisps bands of pale green mica.						
		Min'n: Py diss'n and with green mica						
440.4	444.4	BX'D ALTERED FELSIC ROCK (SILTSTONE - ARGILLITE??)	52943	440.4	441.9	1.5	1/2-1	0.13
		med and dk grey-green to black matrix. coarse to fine bx. angular clasts fine	52944	441.9	443.4	1.5	tr-1/2	0.03
		grained felsic rock and grey vein qtz with dk green chl +/- green mica- Py matrix	52945	443.4	444.4	1.0	1	0.46
		Structure: Tectonic bx- fine bx has granulated matrix. Fol'd in places, 40° to 0° Short sections of broken core;						
		Alteration and Veins: Strong sil'n- grey qv (bx'd) A little green mica in matrix						
		Min'n: Heavy to lean diss'n Py in bx matrix with green mica tr cp on schistocity planes at 440.7						
			52946	444.4	445.8	1.4	1%	1.04
444.4	448.5	ALTERED MASSIVE FELSIC VOLC	52947	445.8	447.2	1.4	1/2%	0.25
		As above 432-434.	52948	447.2	448.5	1.3	1%	0.31
		Structure: Upper part fol'd- schistocity at 15°. Remainder massive; fine mottling may be re-cemented fine bx; sections of broken core.						
		Alteration and Veins: Strong pervasive sil'n criss-crossed fine qtz carb veinlets. A little green mica. Short sections up to 4 cm intense grey sil'n - qtz vein						
		Min'n: Fine Py with green mica. Fine pale Py diss'n in sil'd zones.						
448.5	453.0	ALTERED BANDED TUFF OR SILTSTONE	52949	448.5	450.0	1.5	1%	0.25
		Light grey to pale green fine grained H = 5; fine lapilli (?) at top	52950	450.0	451.5	1.5	1%	0.38
			52951	451.5	453.0	1.5	3-4%	0.61
		Structure: Thinly banded 50°-0° contorted shattered and recemented with thread like qtz-carb veins						
		Alteration and Veins: Weak isolated strong sil'n fine qc veining. Sections with fine pale green mica; Blebs white grey mottled qtz at 452-452.5.						

Metres From	Metres To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	ASSAYS g/t Au
		Min'n: Fine diss'n Py mainly with pale green mica						
453.0	459.8	BRECCIATED ALTERED FELSIC ROCK (BX/D ALTERED SILTSTONE GRAPHITIC ARGILLITE)	52952	453.0	454.5	1.5	1-2%	1.10
			52953	454.5	456.0	1.5	1%	0.41
		As above. 440.4-444.4m Abundant graphite in bx matrix and on slips at 455.5	52954	456.0	457.5	1.5	1/2-1	0.19
			52955	457.5	458.7	1.2	1-2	0.32
		Structure: Fine tectonics bx- sit'n pre dates bx'n some green mica in matrix post	52956	458.7	459.8	1.1	1%	0.10
		brecciation. Minor sections of broken core. Strong schistocity at 40-50° with thin gouge here and there.	52957	459.8	461.3	1.5	tr	0.02
		made up of fine grey vein qtz fragments. Strong fine green mica in matrix- dark coloured because of a little chl and granulation.						
		Min'n: Fine Py in matrix with green mica.						
459.8	471.3	GREEN-CARBONATE ROCK						
		Pale- med green, fine-med grained. H = 4-6. Carb qtz a little pale green mica & chl						
		Structure: Relatively massive to foliated at 50°.						
		Veins and Alteration: Mod-strong non-fizzy carb: weak areas mica. 25-50% white qtz-carb veins up to 30 cm.						
471.3	502.0	MASSIVE POLYHEDRAL JOINTED KOMATIITIC FLOWS	52958	473.0	474.4	1.4	1/2%	nil
		Med to fine grained.. Alternating pale grey- green and dark blue-green Hardness 3-5 ;487 488.5 bladed spingfex	52959	474.4	475.4	1.0	1%	nil
		Structure: Polyhedral jointing at 479m and 495-502 Some flow bx 497-499.5	52960	482.7	483.7	1.0	tr	nil
		Alteration and Veins: 10 15% white qtz- calcite veining.						
		Min'n: Scattered grains Py 473.4-475 and 482.8 483.6						
		Remarks: Pale green sections mostly carbonate -chlorite and blue green sections are carbonate tale-chlorite						
	502.0	END OF HOLE 22/6/96 A.W.Beecham						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		GENERAL REMARKS: (1) 272.9-302.8 Sheared, veined, weakly altered zone marks part of T.S.Z. above hanging wall diabase. (2)Main Felsic rocks in T.S.Z. strongly silicified and with moderate green mica similar to HC-23. (3) Relatively large section fine felsic bx with dark chloritic, Py'e graphitic matrix bx'd siltstone-argillite. (4) Wide section of low-medium grade expected. A.W. Beecham 23/6/96 A.W. Beech GEOLOGICAL ASSOCIATION OF CANADA A.W.B. A. W. BEECHAM 11/6/96 FELLOW						

HADDINGTON RESOUCES LTD DIAMOND DRILL HOLE LOG **HOLE No. GE-26**

Property	Tp	Azimuth	Date started	Correct	ed Dip	Tests	(°)	Location Sketch
Goldeye	Tyrrell	025°GRID N	22/6/96	5m			61°	Acid Test
	Lot & Conc.	Dip	Date Completed	100m	031	022°	60°	T Head reads 61.5° when hole at 37m
		61°	5 July 96	200m	034	025°	60°	T
Claim # 1151464	Co-ordinates	Length (metres)	Drilled by:	300m	031	022°	60°	T Magnetic Rock
	9484.13N 11000.07E	524m	Dominik	400m	036.5	027.5	59°	T
	Section:	Collar Elevation	Logged by:	500m	039.5	030.5	58°	T
Grid No.	11,000E	9996.26	A.W. Beecham					
1995-115° Bl								T=Tropari Test

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Objectives:- To test T.S.Z on section 11,000 E at 9605 Elevation. To test S.E. plunge of zone cut in drill holes HC-23 and GE-24.							
0	5.0	CASING							
5.0	42.4	MASSIVE MAFIC FLOW(S) Med grey, fine even grained. H=4; non-magnetic. Structure: Massive; Some deformed chl. Seams may be pillow selvages. Incipient bx'n with black chl. A little broken core at bottom; flow bx at 31m. Veins and Alteration: No signif alteration except a little bleaching. A few % white calc veinslets. 32.1- 3 cm white qtz to fine Py Minor steaks venlets epidote. Calc-qtz expecially in upper part	52961	31.9	32.2	0.3	tr	0.05	
		Min'n: tr Py as blebs with black chl at 7.7m. See veins. Remarks: 11.8-12.8 Speckled chl mafic-calcite lamprophyre.							
42.4	43.9	FINE FELSIC TUFF (FELDSPATHIC QUARTZITE) Med. grey fine-coarse sand- fine lapilli. H=5; Feldspar, qtz and fine lithic clasts. Structure: 0.5-10cm beds at 45°. Fractured and brokenat top and bottom with a little gouge. Alteration: 42.8- 20 cm, 30-50% grey qtz- strong sil'n and strong pale green mica and tr Py at 45°. Soft lt grey non-fizzy carb (?) in fractured, vuggy section from 42.6-42.8	52962	52.6	43.1	0.5	tr	0.01	
			52963	43.1	44.0	0.9	tr	nil	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: tr diss'd Py						
43.9	49.7	PILLOWED MAFIC FLOW Med. dull grey fine-even grained. Structure: Well developed pillow selvages. Weakly fractured + calc cement. Veins and Alteration: A few % lt grey calcite + calcite qtz veinlets. Black chl + calcite + calcite qtz veinlets. Black chl + calcite and blebs dark Py in pillow selvages Min'n: 1% Py in pillow selvages. Remarks: Lower ct. gradational						
49.7	53.2	MED. GRAINED DIABASIC MAFIC FLOW Med to dark grey diabasic texture. Clustering of mafics - gives spotted appearance Structure: Massive indeformed. Gradational contacts- probably middle of flow.						
53.2	55.6	INTERMEDIATE CALCITIC (PEBBLE) DYKE Med. grey to matrix of feldspar +/- qtz, calcite, speckled with 5% white - 10mm clusters of qtz-calc + epidote; Minor mafic phenocrysts. Various types rounded inclusion in bottom 30 cm. cts at 45° tr diss'd Py.						
55.6	69.0	PILLOWED MAFIC FLOW As above med to dk green. Structure: Exceptional well formed pillows, with chl'c hyaloclastite selvages. Weakly fractured withcalcite cement. Veins and Alterations: A few % lt grey calc. Minor calc-epidote veinlets. Thick pillow selvages with black chl lt grey calcite and blebs of dk Py especially 63-64m. Min'n: See veins, scattered g rains Py here and there.	52964	62.4	63.9	1.5	1%	nil

Metres from	to	DESCRIPTION	Sample Number	From	To	Length	ASSAYS %Py	g/t Au	Avg.
69.0	72.9	MED. GRAINED DIABASIC MAFIC FLOW As above 49.7-53.2, except med- lt. grey Veins: 1-2% lt grey calcite + tr Py Remarks: Cts gradational. Appears to be flow core							
72.9	78.6	MASSIVE MAFIC FLOW As above. Med. grey-green Structure: Incipient bx with chl filing. Veins: Minor epidote wisps + light grey calcite veinlets.							
78.6	79.6	FAULT: Broken core and up to 8 cm clay-like gouge 1/2 m lost core. Main fracturing at 50-65°.							
79.6	87.8	MASSIVE MAFIC FLOW As above 72.9-78.6 m. Structure: Incipient bx with black chl Veins and Alteration: Sections with mod-strong epidote and minor calc. veinlets. Bottom 1.5m strongly bleached and pervasive calcite. Min'n: tr Py as scattered grains.							
87.8	96.8	MED-GRAINED DIABASIC MAFIC FLOW As above. Structure: Massive, uniform strong tough (difficult to break) Veins and Alterations: Moderate pervasive epidote- looks re-crystallized. Minor grey calc and calc-epidote veinlets.							
96.8	114.0	MASSIVE MAFIC FLOW As above, med-dk green.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
		Structure: Some incipident bx and black chl filling.							
		Veins and Alt'n: 1-5% lt grey calc and calc-epidote veinlets; sections of strong streaky epidote alteration; very minor white qtz.	52965	112.9	113.8	0.9	tr	0.11	
		113- 8 cm, mottled qv at 45° and a little green mica in wall rock.	52966	113.8	114.1	0.1	3-4%	1.34	
		114 - 10 cm intense calc. and green mica and 7% fine Py (at lower ct.)							
		Min'n: Minor conc'n Py as scattered grains and with calcite veinlets; see veins							
114.0	114.5	LAMPROPHYRE DYKE Med grey brown 25-40% 1-2m alt'd hornblende (?) -calcite cts 65°. 5% Py diss'n/5cm at top.							
114.5	117.5	PILLOWED MAFIC FLOW As above; chloritic pl selvages.							
		Alteration and Veins: 114.5-114.7 bleached and strong pervasive calcite and 2 cm vuggy rusty qv at 70°. C.g. white calc veins up to 5 cm.	52967	114.1	114.8	0.7		0.23	
117.5	121.3	LAMPROPHYRE- FAULT Med. brownish grey H=3, Matrix carb-rich partly calcite +/- feldspar and 2-% 1-2 mm chl hornblende?							
		Structure: Cts 50-60°; indistinct banding. 119-120.9. Finely broken with gouge and lost core 121- 2 cm gouge at 45° 121.2 5 cm gouge at 50° -numerous rounded mafic volc. inclusions							
121.3	151.5	MASSIVE-PILLOWED MAFIC FLOWS Med. soft grey fine, even grained.							
		Structure: Indistinct flow structured. A little bx here and there. Pillow selvages at 123, 137-141m.							
		Veins and Alterations: 121.8- 2 cm grey-blue qv and 3% Py - 40°	52968	138.9	140.0	1.1	2	0.01	
		1-2% up to 10% calc-epidote +/- qtz veinlets.	52969	140.0	141.1	1.2	1-2	0.77	
		-140.2 139.9sections lt brown bleaching + pervasive calc. and calc veins and diss'd	52970	149.0	150.0	1.0	tr-1/2	0.01	
		and large cubes of Py	52971	150.0	151.5	1.5	1/2	0.03	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Av
		149-150.5 lt grey qtz-calc and grey calc veins with weak Py'c selvages. Minor lt grey-qtz-calc veins here and there. Remarks: 129.9-130.5 h.b. lamprophyre dykes as described above. Min'n: A little coarse Py in pillow selvages. See Veins.							
151.5	156.9	ALTERED MAFIC FLOW Buff to pale green where altered to unaltered dk grey fine, even grained Structure: Shattered and recemented; A little gouge along fractures at 45°. Part of unit foliated. Alteration and Veins: 151.7-153.3 fracture controlled buff bleaching + calcite and diss'd Py. 153.3-155.1 unaltered 155-156.9 Intense alteration associated with shattering- lt grey-brown pervasive calc and qtz-calc and diffuse green mica + 5% lt grey qtz and qtz-carb veinlets. Min'n; Strng diss'n vein selvages of fine pale Py in altered sections. Remarks: Only med- low values expected	52972 52973 52974 52975 52976	151.5 153.0 154.0 155.3 156.4	153.0 154.0 155.3 156.4 157.4	1.5 1.0 1.3 1.1 1.0	tr-1/2 tr tr 3% tr	0.01 nil nil 1.10 0.07	
156.9	187.9	MASSIVE PILLOWED MAFIC FLOW As above- med dk grey Structure: A few pillow selvages 160-163, 168-170; 186.5- 187.6. Almost undeformed - weakly fractured. Alteration and Veins: 10% of unit affected by veins, steaks of epidote +/- calc an qtz, Minor lt grey calc. veinlets. White qtz and grey calc up to 2 cm at small angle here and there e.g. at 180m. Min'n: tr Py with grey calc +/- white qv.	52977 52978	179 180.5	180.5 182.0	1.5 1.5	1/2+ tr-1/2	0.06 0.05	
187.6	194.8	BLEACHED MASSIVE MAFIC FLOWS As above and med lt grey H=4-5. Structure: Isolated pillow selvage at 193.6. Moderately fract'd with carb +/- qtz cement.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		Alteration and Veins: Minor lt grey calc. and qtz-calc veinlets up to 2cm with a little Py in selvages. Hard, pale grey or green bleaching along fractures. Veins - silica + green mica and epidote (?)	52979	191.3	192.8	1.5	tr	0.10	
			52980	194.5	195.3	0.8	tr	0.01	
194.8	197.2	ALTERED MED GRAINED MAFIC VOLCANIC Med grey med c. grained with clusters of mafics. Alteration and Veins: Pervasive calc and a few calcite veinlets.							
197.2	249.4	MASSIVE MAFIC FLOWS Med. dk soft grey, fine to very fine grained. Structure: Incipient chl filled bx'n throughout. A few thin foliated sections. Isolated pillow selvages.	52981	204.4	205.5	1.1	tr	nil	
			52982	205.5	206.8	1.3	tr-1/2	0.01	
		Veins and Alterations: Mottled white and grey qtz veins with a little Py on selvages here and there up to 2 cm thick at 45°-70°. A few % lt grey calc veinlets.	52983	218.8	219.8	1.0	1/2-1	0.21	
		219.1-219.8 bleached and pervasive calc streaks green mica + grey qtz and qtz-calc veinlets and diss Py.	52984	219.8	221.1	1.3	tr	0.02	
			52991	221.1	222.6	1.5	tr	nil	
		235.6-240. Stockwork of 5% c.g. rose and white calcite veins up to 3 cm whtie qtz + fine grained Py selvage- 70°	52985	242.7	243.8	1.1	tr	1.30	
		Minor streaks epidote-calc with tr Py Min'n: See veins. Minor Py here and there in isolated chloritic pillow selvages. e.g.247.8 Remarks: Unit seems to be part of same thick flow. Lower contact indistinct and seems to grade into coarse unit.							
249.4	252	COARSE GRAINED MAFIC VOLCANICS As above, med. grey- contacts gradational. Alteration: Pervasive calcite; finely speckled with white feldspar alteration or leucoxene.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	Assays % Py	g/t Au	Avg
252	253.0	MASSIVE MAFIC FLOW As above, med grey fine grained.							
253.0	258.5	ALTERED, MASSIVE, MAFIC FLOW Lt grey-pale green, fine even grained- remnant ophitic texture in blended sections H=3-4. Structure: Moderately fract'd withchl and calcite cement; short sections with schistosity here and there. Veins and Alterations: Strong mottled light grey-pale green bleaching weak green mica pervasively and as wisps in schistose sections. Sections strong pervasive calc with some of bleaching and atq.a.v. contacts. Lt grey qtz-calc with minor Py Milky white mottled qv's here and there with 9 cm vein at 65° at 255. Small (2-5 cm) med. grey alteration remnants. Min'n: Good diss'n fine pale Py with bleaching and as q.v. selvages.	52986 52987 52988 52989 52990 **AVG**	252.9 253.9 254.8 255.8 257.2 **253.9**	253.9 254.8 255.8 257.2 258.5 **258.5**	1.0 0.9 1.0 1.4 1.3 **4.6**	tr 1/2 2 tr tr 	0.05 0.14 0.81 0.08 0.11 **0.26**	
258.5	268.6	MASSIVE PILLOWED MAFIC FLOW As above med lt grey-green Structure: 262-263 chl pillow selvages flow bx; Some incipient chl filled bx. Lower part well-fractured with calcite cement. Alteration and Veins: Sections of moderate to strong bleaching, some of which have pervasive calc. A few% lt. grey calcite veinlets. Minor c.g. rose-white calcite. Minor green mica in shears. 267.1-269.6 fne grey brown completely ophitic texture with 1/2-1% Py(looks like felsic dyke)	52992	267.1	268.6	1.5	1/2-1%	0.01	
268.6	285.5	PORPHYRITIC DIABASE Dark Grey green fresh fine at top to med grained downward 1% 2-10mm feldspar phenocrysts, ophitic texture magnetic. Structure: Upper Ct well chilled at 45° lower ct uncertain, but apparently marked by qtz-calcite vein and chlorited zone: Moderately fr'd with a little broken core. Alt'n and Veins: Epidote calcite veinlets especially near top; feldspar phenocrysts epidotized. Min'n: tr Py as scattered "dark" grains.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
285.5	307.3	FINE GRAINED DIABASE As above except even grained. Finely speckled with magnetite; magnetic Structure: Moderately fract'd 307.3-307.65 black highly fract'd bx and recemented Alteration and Veins: A few % fine calc-epidote + tr Py veinlets mostly at 65-70°. Min'n: Minor concentrations as scattered of 'dark' Py						
307.3	326.9	FRACTURED FINE GRAINED DIABASE Some intrusive as 285.5-307.3 m. Structure: Moderately to strongly fractured with short sections of broken core 307.3-307.65, highly fract'd- bx'd and recemented, black diabase; chilled lower contact.						
326.9	331.4	INTERMEDIATE (MAFIC?) FLOW BX med-dk grey fine grained matrix: 80-90% with ragged (flow banded?) lt grey felsic clasts. Some clasts (up to 10 cm cold be feldspar phyric; Texture not ophitic. Structure: Moderately fract'd and re-cemented; possible flaw banding in clasts. Veins and Alterations: Streaky lt gray-pink calc qtz. Streaky white feldspatic (?) veinlets; Minor gray qtz and calc-epidote veins make up 5-8% of unit	52993	327.8	329.3	1.5	tr	nil
		Min'n: tr fine pale Py with veins Remarks: 327.6-328.2 diabase with contacts of less than 5° to 30° suggests top contact very irregular. Unit is septum or large inclusion in diabase.						
33.14	350.1	PORPHYRITIC DIABASE Grey an dmed grained, ophitic textured matrix with 1-3%. 3mm green epidotized feldspar phenoscrysts. Struct: Massive, only very weakly fractured minor broken core near bottom of unit. Alt'n and Veins: Minor epidote-carb veinlets; except 340.9-342.5 where 70 % affected by epidote alteration includes thin seams of fibrars chrysotile-like mineral Minor white qtz with epidote. Remarks: Chilling near lower ct, but contact not recognized.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: Scattered grains 1/2-1% dk Py over bottom 6m.						
350.1	386.1	FINE-MEDIUM GRAINED DIABASE As above, even grained, dark grey strongly magnetic. Structure: Moderately-strongly fract'd with sections of broken core 351-367m, and 373.5- bottom						
		Alteration and Veins: Up to 30% of unit strongly epidotized; Feldspars generally altered 372.6-354.5 Strongly epidoteized with 8cm white glossy qv with tr Py tr Cp in middle 50°	52994	353.5	354.5	1.0	tr	nil
		Remarks: 360-360.8 f.g. diabase intruding m.g. epidotized type 363.5- 30 cm f.g. diabase dyke with feldspar phenocrysts a 2-3% Py as 1mm thick veinlets Lower et gradational? Min'n: Sections with scattered clusters of dark Py						
386.1	401.3	COARSE GRAINED DIABASE Dark grey, med coarse even grained with feldspar laths to 5 mm. Strongly magnetic scattered grains mt. Structure: Massive weakly fractured Epidote veins at prefered orientation 50° Alteration and Veins: Short epidotized sections and thin epidote +/- calcite veinlets affect 2-3% of unit. Min'n: tr diss Py Remarks: Cts gradational.						
401.3	415.0	FINE GRAINED DIABASE As above, strongly magnetic Structure: Most only weakly fract'd A little broken core with fractures at small angle 410.8-412.5 Alteration and Veins: A few % epidote and epidote-calcite +/- chl tr Py veinlets.						
415.6	417.3	FRACTURED ALTERED FELSIC ROCK (VOLCANICS) Light grey fine grained very hard Sparse feldspar phenocrysts (?) at bottom.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Struct: Massive to indistinctly banded at 45°. Highly fr'd shattered with calcite cement. Broken core throughout.	52995	414.6	415.6	1.0		0.13
			52996	415.6	417.3	1.7	tr	0.03
		Alteration and Veins: Intense, pervasive sil'n 4-5% lt. grey calcite and fine veinlets						
		Min'n: tr fine pale Py: Note: 415.6-417.3 large sample taken and broken probably mixed.						
417.3	441.7	BANDED-GREY CARBONATE-CHLORITE ROCK						
		Med. grey and dark green, relatively soft. Alternating layers carbonate (abundant calcite) +/- chl or ch. carbonate and qtz med-grained.	52997	417.3	418.8	1.5	1/2	0.01
			52998	418.8	420.3	1.5	1/2-1	0.01
			52999	420.3	421.8	1.5	1/2-1	nil
		Structure: Banded with layers 2mm to 2 cm thick; Bands lenticular, tightly folded and contorted. Broken core and gouge 416.7-417.8m. Strong schistosity parallel to bands at 45° to 135°. Sections of bx'd qtz-carb veins. 436 Minor gouge at bottom at bottom ct of dyke at 55°	53000	421.8	423.3	1.5	1/2	nil
			4501	423.3	424.8	1.5	1/2	nil
			4502	424.8	426.3	1.5	tr	nil
			4503	426.3	427.8	1.5		0.01
			4504	427.8	429.3	1.5		nil
		Alteration and Veins: Completely carbonatized. Mostly calcite, Abundant dk green black chlorite; Up to 5% qtz-calcite partings veinlets and blebs. A little medium pale green mica (sericite) especially 434.8-437.5 -Calcite gives way downward to dolomite;	4505	429.3	430.8	1.5	tr	nil
			4506	430.8	432.3	1.5	tr	nil
			4507	432.3	433.8	1.5		0.01
			4508	433.8	435.3	1.5		0.02
			4509	435.3	436.8	1.5		0.14
		Min'n: tr fine pale Py as diss'n here and there. Minor con'ns in grey calcite and qtz--calc veinlets.	4510	436.8	438.3	1.5	tr	nil
			4511	438.3	439.8	1.5		nil
			4512	439.8	441.3	1.5	tr	nil
		Remarks: Minor contorted bands up to a few cm thick of alt'd lt grey felsic-felsic intrusives? Some with qtz phenocrysts (?) 435.9-436.4 bleached calc alt'd alt'd mafic dyke 436- 20 cm chl matrix fine felsic frag breccia;	4513	441.3	442.8	1.5		0.01
			4528	442.8	443.4	0.6		0.01
441.7	459.0	ALTERED KOMATIITIC VOLCANICS WITH QUARTZ CARBONATE VEINS: Med grey; fine-med remnant ophitic (?) texture; A little bladed spinfex at 453.3m H=3-4; Magnetic carbonate and fine grained chl + qtz (in veinlets)						
		Struct: Relatively massive and except for fract'g and shattering relatively undefrm'd moderately to intensely shattered. Sections of few bx with small clasts with alteration rims.						
		Alteration and Veins: 15-30% lt grey to which qtz carb (non-fizzy) veinlets and fracture filling-veins criss-cross and some are banded; persuasive carb						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: tr f.g. pale Py here and there						
		Remarks: Probably an altered Komatiitic basalt;	4514	451.7	453.0	1.3	tr	nil
459.0	464.7	CARBONATE ROCK (ALTERED KOMATIITIES) WITH QTZ-CARB VEINS:	4515	459.5	461.0	1.5	tr	0.01
		As above unit but more altered and deformed. Mainly carb chl and qtz in veins	4516	461.0	462.5	1.0	tr	0.01
			4517	462.5	463.5	1.0	tr	0.02
		Struct: Strong fol'n- banding at 30°. Some qc veins bx'd	4518	463.5	464.6	1.1		0.01
		Alt'n and Veins: Strong pervasive carbonate. Thinly banded qtz-carb veins up to 5 or 8 cm thick make up 20-30% of unit.						
		Min'n: Fine pale Py with sil'n.						
464.7	468.7	ALTERED FELDSPAR PORPHYRY DYKE						
		Med. grey light brown-pink (where altered) Fine grained with about 5% 2mm white feldspar remain (not destroyed by alt'n) H=6-7	4519	464.6	465.7	1.1	1%	0.02
			4520	465.7	467.2	1.5	1%	0.10
			4521	467.2	468.7	1.5	1%	0.07
		Struct: Shattered and recemented (Sil'd) ct 40-60° cross cutting fol'n						
		Alter'n and Veins: Strong fract. controlled pink-brown sil'n. Numerous hairline qtz -carb veinlets. A few thin white qv with tr dark acicular mineral (tourmaline?)						
		Min'n: Fine pale Py withsil'n						
468.7	474.2	CARBONATE ROCK (ALTERED KOMATIITE) WITH QTZ-CARB VEINS:						
		As above 459-464.7	4522	468.7	470.2	1.5	tr	nil
			4523	470.2	471.7	1.5		nil
		Struct:Fol'n schistosity 60-30°.	4524	471.7	473.2	1.5	tr	0.06
		Veins and Alteration: 30% qc veins, partings up to 8 cm thick.						
		Min'n: tr diss'd Py						
474.2	477.6	ALTERED FELDSPAR PORPHYRY						
		As above.						
		Structure: Mod fr'd and qc cemented	4525	473.2	474.7	1.5	tr-1/2	0.03
			4526	474.7	476.2	1.5	tr-1/2	0.04
		Alteration and Veins: 15-20% of unit affected by strong fract- controlled lt brown-pink sil'n less altered then unit 464.7-468.7m	4527	476.2	477.6	1.4	tr-1/2	0.01

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	AVG
		Min'n: tr-1/2% fine pale Py with sil'n.							
477.6	483.8	KOMATIITIC VOLCANICS + BLEACHED INTERMED-MAFIC DYKES Spinifex flow bx'd or massive intermed-mafic dykes as follows: 477.7-478.2; 478.4-478.8, 480.4-480.8; 482.8 m Dykes are med. grey med-fine grained. Mostly acicular feldspar with scattered 1mm feldspar phenocrysts and a few % mafic fragments up to 1 cm.							
		Structure: Volc fol'd at 45° dykes massive and cts mostly at 45°	4529	477.6	479.1	1.5	tr	0.01	
			4530	479.1	480.4	1.3		0.01	
		Alt'n and Veins: 15-20% white a.c. veins. A few % q.c. in dykes with bleached	4531	480.4	482.0	1.6	tr	0.01	
		selvage and lean Py diss'n	4532	482.0	483.2	1.2	tr	0.01	
		483.3-483.9 grey qtz carb veins up to 1cm with cores of dark red jasper and tr Py	4533	483.2	484.0	0.8	tr	nil	
483.8	487	BLEACHED INTERMED-MAFIC DYKE							
		As dykes in unit 477.6-483.8 m Not typical ophitic texture- in places looks	4534	484.0	485.5	1.5	1/2-1%	0.01	
		trachytic.	4535	485.5	487.0	1.5	1/2%	nil	
		Struct: Upper ct at 10° cutting fol'n (?) lower ct at 45- cts chilled							
		Alt'n and Veins: A few % small qc veinlets. Some with bleached selvages. Sections of carbonization.							
		Min'n: tr-2% diss'n Py in qc selvages and with carb sections.							
487.0	494.1	ALTERED KOMATIITIC FLOW Med-light green, e.g. bladed spinifex at top; med grained elsewhere possibly remnant ophitic texture??							
		Structure: Massive to fol'd and veined at 40°.							
		Veins and Alterations: Moderately to strongly carbonitized. A little pale green mica							
		in upper part. 25% white qtz-carb veins from hairline to 2 cm	4536	487.0	488.5	1.5	tr	0.01	
			4537	488.5	490.0	1.5	tr	0.08	
		Min'n: tr diss'd Py in pale green strongly carb'd, upper part	4538	490.0	491.5	1.5	tr	0.03	
			4539	491.5	492.8	1.3		nil	
494.1	499.8	ALTERED PILLOWED -MASSIVE MAFIC FLOWS	4540	492.8	494.1	1.3		nil	
		Med dull grey to pale grey or tan where alt'd. Fine even grained typical mafic flow							
		Struct: Banded pillow selvages with few (0.5m) variolite-like 'structures': weakly fract'd. No pervasive defor'd. Minor shearing in selvages.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alteration and Veins: Lt grey calc and black chl in selvages. A few % lt grey calcite veinlets. 495.6-499.8 - 30-60% lt grey -tan carb with a little qtz mottled with unaltered remnants with 1/2-2% fine pale Py (grey alteration) A few white qtz qtz-calc up to 3cm.	4541	494.1	495.6	1.5	tr	0.01
			4542	495.6	496.8	1.2	1/2-1	0.01
			4543	496.8	498.3	1.5	tr-1/2	0.02
			4544	498.3	499.8	1.5	2%	0.17
499.8	506.2	PILLOWED-MASSIVE MAFIC FLOW As unaltered part above.						
			4545	499.8	500.8	1.0		0.01
		Structure: No pervasive deform'n						
			4546	505.4	506.4	1.0	tr-1/2	0.04
		Alteration and Veins: 505.5-508 Strong bleaching- carb'n + tr fg Py						
506.2	508.3	VARIOLITIC MAFIC FLOW Med. light green, fine to med (?) grained 10% sections of coelescing variolities	4547	506.4	508	1.6	tr	nil
		Veins: A few % white calc and white qtz-carb veins. Minor fine Py with calcite. 507.8- 20 cm banded qtz-carb tr Py.						
508.3	516.5	KOMATIITIC SPINIFEX TEXTURED FLOWS Med. grey green alternating sections of 1-2 cm spinifex with massive med f.g. flow						
		Veins and Alteration: 509.8-510.6. Pale green mica altered with 0.4 m bx'd white qtz calcite with 1-2% Py. 15-25% white-light grey quartz calc and banded calcite veins and partings. Some bleaching around the calcite.						
		Structure: Mostly undeformed.						
516.5	518.1	VARIOLITIC MAFIC FLOW As above						
		Veins: 15% white calc.						
518.1	521.7	SPINIFEX TEXTURED KOMATIITIC FLOW Med. grey 0.5 1 cm massive spinifex						
		Veins: 15% lt grey- white calcite.						
521.7	524	VARIOLITIC MAFIC FLOW As above.						
		Veins: 15% lt grey-white calcite						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Remarks: 20 cm lt grey-white calcite						
	524.0	END OF HOLE						
		GENERAL COMMENTS: (1) Very thin felsic unit in TSZ and no significant of values expected. Similar to sequence in GE-17- appears to be off east end gold mineralized-zone. (2) Altered and weakly pyritized feldspar porphyry dykes 464.7-468.7 and 474.2-477.6 may carry low gold values. (3) Light grey (carb) altered pyritized section in mafic flows within Komatiitic flows from 495.6-499.8 may carry low Au values. A.W. Beecham GEOLOGICAL ASSOCIATION OF CANADA A. W. BEECHAM 11/6/97 FELLOW						

HADDINGTON RESOURCES LTD. DIAMOND DRILL HOLE LOG **HOLE No. B-27**

Property	Tp	Azimuth	Date started	Tropari Tests			Dip
Byberg-Goldeye	Tyrrell Tp	025°(Grid North)	7 July 1996	Collar	MagAz	Cr Az	67°
	Lot & Conc.	Dip	Date Completed	8m	029	020	66°
		67°	21 July 1996	100m	032.5	023.5	66°
Claim # L-511149	Co-ordinates	Length (metres)	Drilled by:	200m	30.5	021.5	66°
1151464	9446.656N 10899.92E	626.0m	Major Domink	300m	41	032	66°
1151465	Section:	Collar Elevation	Logged by:	440m	035.5	026.5	65°
		[illegible]	A.W. Beecham	500m	044	035	65°
				600m	38.5	29.5	64°

Location Sketch

Tropari test at 400 Az 037° Dip 74 "bad test"

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
		OBJECTIVES: Test TSZ at vert depth - 500m under D.H. GE- 25.							
0	2.3m	CASING							
2.3	20.5	MASSIVE MAFIC FLOW Dk grey, fine grained. .m.g.; hardnesss=4. Some remnant fine ophitic texture. Structure: Relatively massive. Incipient flow bx with black chlorite Veins and Alt'n: A few % lt grey calcite 6.8m- 15-20 cm c.g. white calcite vein at 10°. Minor epidote; minor qtz-calcite veinlets. Min'n: tr Py here and there Remarks: Dk grey and relatively 'fresh' compared to mafic flows close to TSZ.							
20.5	42.9	DIABASE DYKE Dk grey green ophitic texture strongly magnetic. H=5; fine grained near contact. Med grained elsewhere. Struct: Upper ct chilled and at 45° Lower ct chilled at 80°. Alteration and Veins: A few % epidote-qz chl veins and epidotized sections. Min'n: 1/2% scattered grains 'dk' Py							
42.9	43.9	FINE-GRAINED MAFIC VOLCANCICS Med.-dark grey, f.g. med-f.g. ophitic texture. Speckled with 0.1-0.2 mm magnetic							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Structure: Upper ct at 30°. Lower t at 5° well chilled 44.7-0.3- 0.4m broken core along near parallel fract. Alt'n and Veins: Minor epidote-calcite veins; epidotized sections up to 20 cm Min'n: tr Py as scattered grains						
66.8	91.7	MEDIUM GRAINED MAFIC FLOW Med. to locally fine grained, mafic clustering to diabasic texture. Dark grey-green Structure: Incipient (flow?) bx'n with black chl filling throughout Alt'n and Veins: Minor lt-grey to white calcite veinlets; A few % epidotes as wisps and threads. 81.8-84.3 Vuggy white calc 0.10° up to 5 cm. Min'n: Isolated tr Py. Remarks: 73.3-30 cm f.g. mafic dyke at 45° (diabase)						
91.7	94.8	MASSIVE MAFIC FLOW Dk grey-green-fine grained. Structure: Weakly to strongly fol'd (schistosity at 40°) Alt'n and Veins: A few % grey calc and calc-epidote and white qtz-calc epidote with tr Py.						
94.8	97.2	MED-FINE GRAINED MAFIC VOLCANIC As above.						
97.2	99.5	LAMPROPHYRE- ALTERED MAFIC DYKE Med. grey f.g. with a few % 1-2 mm chl'd phenocrysts, sparse feldspar to 2mm. Strongly calcitic matrix.						

Ft.		DESCRIPTION	Sample				ASSAYS g/t Au	
99.5	123.8	MED-FINE GRAINED MAFIC FLOW Dk grey-green Similar to unit 66.8-91.7, but fine grained with more fine grained sections. Vein size up to 1 or 2 mm. Struct: A little incipient (flow?) bx with minor black chl filling short fol'd-schistosity at 45-50°. Mostly undeformed. Veins and Alterations: Minor wisps epidote +/- white qtz and calcite. Min'n: tr Py here and there.						
123.8	152.8	MASSIVE MAFIC FLOWS Med. soft grey green, fine even grained. Struct: Massive and uniform except for incipient (flow?) bx'd with black chl filling Alteration and Veins: Pale epidote +/- grey calcite +/- white qtz up to 8 cm at 45-65°, with 1-2% fine Py.A few lt grey calcite +/- white qtz. with 1-3% fine Py e.g. at 136.2 - 4cm grey calc. white qtz, epidote and a few grains cp 65° Min'n: tr-Py here and there: See alteration and veins.	4557 4558 4559 4560	136.5 140.0 145.0 146.0	137.3 140.8 146.0 147.1	0.8 0.8 1.0 1.1	1/2 1/2 tr tr-1/2	0.03 nil 0.01 nil
152.8	155.7	SHEARED ALTERED VEINED MAFIC VOLC Light, fine grained H=4 Structure: Mod-strong schistosity at 55°. A little gouge on veins- fract at 155.6 m Alteration and Veins: 15% grey banded calcite, lt grey-white qtz qith Py'c selvages up to 20 cm at 155.2 and 10 cm at 155.6. Minor grey mica with qtz Minor cross-cutting white qtz-calc-chl. Veins along schistosity at a 55°. Min'n: See veins discontinuous diss'd Py up to 3% 30 cm between veins.	4561 4562 4563 4564	152.5 153.3 154.3 155.8	153.3 154.3 155.8 156.5	0.8 1.0 1.5 0.7	tr 2 2-3% tr-1/2	0.02 0.16 0.08 nil
155.7	157.2	BLEACHED MED GRAINED MAFIC VOLC As above. Strong bleaching. Minor lt grey calc veining.						
157.2	171.7	MASSIVE MAFIC FLOW(S) As above 123.8-152.8						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	A
		Struct: As above.							
		Alter'n and Veins: Minor lt grey calc- calcite-epidote.							
			4550	174.4	175.7	1.3	tr	0.01	
171.7	180.0	BLEACHED ALTERED MAFIC FLOW(S)	4551	175.7	176.9	1.2	tr	0.28	
		Pale grey-green fine even grained. Altered part of above flow.	4552	176.9	178.0	1.1	tr	nil	
			4553	178.0	179.2	1.2	tr	nil	
		Structure: Incipient flow (?) bx weakly fract'd .							
		Alt'n and Veins: Strongly bleached with variable pervasive calcite; A few % lt grey in places orange calc. Minor, fine pale green mica- especially 175.8-177.8m.							
		Min'n: A little fine Py in vein selvages.							
180.0	189.4	MASSIVE MAFIC FLOW(S)							
		As above.							
		Structure: A little incipient flow bx'n + black chl.							
		Alteration and Veins: Minor lt grey calc +/- white qtz +/-minor epidote. Relatively unaltered.							
		Min'n: tr Py with lt grey calcite.							
189.4	190.6	BLEACHED ALTERED MAFIC VOLC.							
		Pale grey-green, fine grained; H=4	4554	188.8	189.3	0.5	tr	nil	
			4555	189.3	189.8	0.5	2	0.06	
		Structure: Mod fract'd with chl and calcite cement	4556	189.8	190.8	1.0	tr	nil	
		Altereation and Veins: Bleached strong pervasive calcite; a little pale, green mica. 189.6- 15 cm banded grey mottled qtz+calcite with 2-3% Py and Py'e selvage. 184.8- 1 cm e.g. pink calc. at 05°.							
190.6	205.2	MASSIVE MAFIC FLOW(S)							
		As above med-dk grey							
		Structure: Incipient (flow?) bx'n with black chl throughout. weak schistosity at 45°.							

Ft From	Ft To	DESCRIPTION	Sample Number	From	To	Length	% Py	opt Au	Av
		Alteration and Veins: Mod-strong epidote as wisps, threads and veinlets +/- lt grey calc +/- white qtz.							
		197.6- 25% qtz/15cm + epidote and calc.	4565	197.3	197.9	0.6		nil	
		192 - 2 cm e.g. pink calc. veins at 5-10°							
		Min'n: tr Py in black chl and with lt grey calcite							
205.2	208.5	ALTERED MAFIC FLOW							
		As above, but med. lt grey; Remnant ophitic texture.							
		Structure: Moderately fract'd at 55° with calc and qtz cement.							
		Alteration and Veins: Moderately bleached with soem pervasive calcite. A few % lt grey calc up to 1 cm.							
		206.7- 208.6 -light -.5- 1.5 cm white qtz +/- calc + black chl with Py't selvages up to 15 or 20 cm.							
			4566	205.2	206.7	1.5	tr	nil	
		Min'n: See veins: Conc of fine pale Py up to 5%/15cm in vein selvages.	4567	206.7	207.7	1.0	2-3%	0.50	
			4568	207.7	209.1	1.4	1/2	0.02	
208.5	216.8	MASS- PILLOWED MAFIC FLOW(S)							
		Dk grey-green, fine grained, as above.							
		Structure: Wide-spaced chl'c and epidotized pillow selvages. Weakly deformed. Moderately fr'd with lt grey calctie cement; Very minor broken core.							
		Veins and Alteration: 8-10% lt grey calc veinlets 211.4-10 cm bleb lt grey calc.	4569	211.1	212.1	1.0	tr-1/2	nil	
		pale grey mica 5% Py.	4570	212.1	213.3	1.2	tr	0.01	
		213.1-10cm banded white qtz at 35°. Moderate epidote as streaks and calc epidote veinlets.							
216.8	225.1	BLEACHED PILLOWED MAFIC FLOW							
		Pale grey indistinctly mottled. Fine even grained H=4							
		Structure: 30 cm - 2m spaced black chloritic 1-2cm hyaloclastic pillow selvages Mod. fr'd with calc or chl cement.							
		Alteration and Veins: Strongly bleached- mainly of clay alteraton. Sections of pervasive calcite. A few % lt grey calcite veinlets.							
		224.1-224.3 Intense pervasive pale green mica with 2-3% Py. Minor Py with qtz-calc green mica near bottom	4571	224.0	225.1	1.1	1/2-1	0.09	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg.
225.1	229.35	ALTERED FELDSPAR PORPHYRY DYKE Pale brown-pink, fine quartz-rich matrix with up to 25% 1-3 mm alt'd feldspar phenocrysts; scattered up to 3% green elongated 5mm long alt'd mafic phenocrysts(hornblende) very hard.							
			4572	225.1	226.6	1.5	1-2	0.76	
		Structure: Massive and uniform; top and bottom cts at 40 and 65° resp.	4573	226.6	228,1	1.5	1-2	0.65	
			4574	228.1	229.4	1.3	1-2	0.40	
		Alteration and Veins: Sparse lt grey-white qtz-feldspar veinlets up to 6 8mm strong pervasive sil'n.	AVG	225.1	229.4	4.3		0.61	
		Min'n: Fairly uniform 1-2% fine pale Py diss'd throughout.	4574	229.4	239.0	0.6	tr	0.01	
229.35	240.6	BLEACHED ALTERED PILLOWED MAFIC FLOW Med lt grey-to dark grey green where unaltered; Sections of pale green. Fine even grained. Struct: Black chlorite pillow selvages 0.3 to 2m apart. Strongly fract'd and uncemented with grey calcite. Minor sections broken core. A little gouge on 45° fract at 240.5m							
			4576	235.0	236.3	1.3	tr-1/2	0.10	
		Alteration and Veins: Mottled and bleached throughout with sections of pervasive calcite.	4577	236.3	237.8	1.5	tr	0.01	
		235.5-240.6 15-20% sections with strong pervasive pale green mica.	4578	237.8	239.2	1.4	tr	0.01	
		5-8% lt grey or white calcite veinlets; up to 3 cm.	4579	239.2	240.7	1.5	tr	0.01	
		Min'n: tr Py here and there, Minor conc with green mica							
240.6	246.8	PILLOWED MASSIVE MAFIC FLOW Dk grey-green, as above. Structure: Wide spaced, 0.5 to 1 cm thick, black chl pillow selvages. Alt'n and Veins: Minor lt grey calcite veinlets. A little pale greenmica. 244.8 6 cm strong brown-pink sil'n with 5% Py. 244.0 tr Py in selvage of g. calc veinlet.							

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au	Avg
		Min'n: See alt and veins.							
246.8	256.6	MAFIC FLOW BX Med. grey, dk green chl'c matrix. Struct: Incipient bx to bx. Mostly fragments - flow(?) bx Veins and Alterations: Minor lt grey-white calcite veinlets. 255.7-256.6 bleached +pale green mica	4581	255.6	256.5	0.9	tr	0.02	
256.6	258.0	ALTERED FELSIC DYKE (OR FINE TUFF) Dark grey where fresh to pale green to grey where alt'd; Fine grained, mainly feldspar and qtz Structure: Cts sharp at about 60°. Massive to streaky veining at 45°. Alteration and Veins: Top and bottom strong pervasive sil'n and fine green mica Minor lt grey calc veinlets. Pearl white qtz veinlets up to 5mm with alt'n and Py. Min'n: Fine diss'n Py in altered sections.	4582	256.5	258.0	1.5	1%	0.67	
258.0	266.0	BLEACHED PILLOWED MAFIC FLOW(S) As above Structure: 20-50 cm spaced black chl pillow selvages. Alt'n and Veins: Bleached and short sections pale green mica.	4583	258.0	259.0	1.0		0.28	
266.0	270.5	MASSIVE-PILLOWED MAFIC FLOW(S) As above f.g. Dk grey green Structure: Wide spaced pl selvages- massive Alt'n and Veins: A few % epidote-calc							
270.5	279.2	MAFIC FLOW BX As above 246-256m Structure: Incipient bx to slightly rotated bx. 272.5-273.8 Strongly fract'd with lt grey calc.	4584 4585	272.4 273.7	273.7 274.6	1.3 0.9	tr 2%	0.10 0.04	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Veins and Alteration: 272.5-274.4 10-15% stockward lt grey calc. White qtz up to 3 cm at 273.6 Min'n: 274-274.3 2% med c.g. Py						
279.2	281.5	DEFORMED-FLOW BX'D MAFIC FLOW As above Structure: Pillow selvages with schistosity at 20°						
281.5	295.3	MASSIVE FLOW BX'D MAFIC FLOW Med. grey f.g. Structure: Massive to incipiently fl bx'd 281.5-288.0 strongly fr'd with calcite cement Alt'd and Veins: 10% white-light grey calcite with a little white qtz 281.5-288 section of moderate epidote +/-calcite veining.						
295.3	302.8	MASSIVE MAFIC FLOW(S) Dk grey, fine grained: H=4 Structure: A little incipient bx'n Alt'n and Veins: Minor lt grey calcite and epidote veinlets.						
302.8	304.4	MAFIC VOLCANIC BX As above Structure: A little incipient film bx with black chl matrix. Alt'n and Veins: Minor lt grey calcite and white qv with minor Py in selvages.						
304.4	316.0	MASSIVE TO FLOW BX'D MAFIC VOLCANIC Dk grey as above Struct: A little incipient flow bx with black chl matrix Alt'n and Veins: 1-10% lt grey calcite veinlets; 315.5 m 2-3cm c.g.lt grey calcite A little epidote.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
316.0	323.0	FLOW BX'D MAFIC FLOW Dk grey f.g. m.g. finely speckled lt grey clay mineral. Structure: Incipient flow bx'n Alt'n and Veins: A few % lt grey calc and minor white qtz veinlets. Min'n: Scattered grains c.g. Py.						
323.0	352.2	FLOW BX'D PLLOWED MAFIC VOLC Med-lt-grey fine, even grained. Fine (0.5Mmm) variolites- like structures along chl pillow selvages. Struct: Variable incipient flow bx'n throughout; well developed 0.5-1 cm black chl, pillow selvages spaced. Weak schistosity here and there at 45° Alteration and Veins: Mod to strongly bleached including sections of pervasive calcite. Alittle green mica here and there. Minor lt calc and qtz calc veinlets 346.5- 10 cm c.g. calc vein at 45°. 350.7-351.2 grey calc + chl +2% c.g Py - 40° Min'n: Blebs Py with qtz-calc at 334.8 and 338.8m.	4586	338.2	338.8	0.6	1%	0.02
352.2	363.5	MASSIVE MAFIC FLOWS As above med. grey fine even grained. Struct: Massive and uniform to with a little incipient flow bx with black chl. Veins and Alterations: Minor lt grey-white calc. and epidote veinlets.	4587	350.6	351.3	0.7	2	0.04
363.5	367.4	ALTERED BX'D MAFIC FLOW Med. grey- pale grey, buff f.g. Structure: Angular fragments up to 5-8 cm in finely fragmented matrix some hyaloclastite Alteration and Veins: Abundant lt grey calc in matrix; while calcite 1 cm veinlets. Bleached clay altered fragments. Min'n: Up to 3% diss'd Py/10 cm.	4588	367.4	1.3	tr-1/2	0.04	

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
368.8	380.9	MASSIVE FINE-MED GRAINED MAFIC VOLC Med. grey 60% med. c.g. with remnant ophitic texture, 40% fine grained. Structure: Mostly massive, fl structured in places. Alteration and Veins:Minor lt grey calc withsome qtz calcite. Moderate strong pervasive calcite throughout. Minor bleached sections. Min'n: Conc of 1/2 Py over short sections h ere and there.	4589	379.9	380.9	1.0	tr	0.01
380.9	391.7	SHEARED BX'D VEINED MAFIC VOLCANIC Med. lt grey, pale green f.g. Structure: Strong contorted schistosity bx'd venis. 381.2-381.8 Small fault at 40° marked by a little gouge broken core and bx; Alteration and Veins: 5-8% white qtz and calcite and qtz-calc. 5% pale green mica and wisps and thin partings. Min'n: Concentrations of Py as partings and streaks up to 5%, & 10-15 cm thick, and as heavy diss'n and some schistose layers up to 5% / 20cm.	4590 4591 4592 4593 4594 4595 4596 4597	380.9 382.1 383.5 385.0 386.5 388.0 389.5 390.7	382.1 383.5 385 386.5 388.0 389.5 390.7 391.7	1.2 1.4 1.5 1.5 1.5 1.5 1.2 1.0	1 tr-1/2 1/2 1-2% tr 1 tr tr	0.05 0.04 0.08 0.12 0.03 0.08 0.02 0.06
391.7	400.2	BLEACHED ALTERED MAFIC FLOW. Pale grey green fine grained, fine possible variolities? Structure: A few possible pillow selvages obscured by alteration. Fract'd sections with qtz-calc or chl-cement. Alt'n and Veins: Strong bleaching. Moderate fine pervasive pale green mica 3-4% grey calc and white qtz-calcite veinlets. Min'n: tr Py here and there.	4598 4599 4600	391.7 393.0 394.5	393.0 394.5 395.5	1.3 1.5 1.0	tr tr tr	0.01 0.07 0.01
400.2	411.4	MASSIVE MAFIC FLOWS Med. grey finely mottled; fine even grained H=4 Structure: A little fine primary bx and incipient flow bx 402.5- pillow selvage with 0.5mm veriolite like structures. 401.3-402.4. Sheared contorted mafic volc with pale green mica. Shattered and recemented with calc -qtz.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Veins and Alterations: 5% lt grey-white calc. and calc-qtz; Minor dk chl; weakly bleached and mottled. Min'n: tr diss'd Py here and there. Minor Py in calc vein selvages.						
411.4	420.7	ALTERED SHEARED MAFIC VOLC BX Med and pale grey fine even grained Struct: Sections with stretched deformed fragments (deformed primary bx) Alt'n and Veins: 35% of unit affeted by pale green mica. 5-8% lt grey to white calc and calc-qtz broken veinlets and partings. Strong pervasive lt grey sil'n with up to 3-4% fine Py from 415.2-416.0. Thin grey qtz partings and veinlets here and there. Min'n: See "Alt'n"; tr Py here and there. Isolated grains cp at 418.5m	4601 4602 4603 4604 4605 4606 4607	411.5 412.6 414.0 415.0 416.0 417.5 419.0	412.6 414.0 415.0 416.0 417.5. 419.0 420.5	1.1 1.4 1.0 1.0 1.5 1.5 1.5	tr tr tr 2-3% tr tr tr	0.01 0.01 0.01 0.13 nil 0.03 0.01
420.7	437.7	BLEACHED MASSIVE MAFIC FLOW(S) Med- lt dull grey, fine even grained H=3-4. Structure: Indistinct flow structures. Minor sheared, primary bx. 434.3-434.7 and 435.4-435.8 with elongation and schistosity at 40°. Shattered with 3-5% white calc and calc-qtz veinlets. Veins up to 5 cm Alteration and Veins: See struct: Mod-strong bleaching. Pervasive calc or fine calc veinlets. Lt grey banded calc with up to 3% fine Py along schistosity at 434.2 and 435.5/435.8m; Min'n: tr Py throughout as scattered grains. Minor conc Py in grey banded Py e.g. 5% /2cm at 435.7	4608 4609	434.1 435.1	435.1 436.0	1.0 0.9	tr 1%	0.01 0.01
437.7	443.5	MASSIVE MAFIC VOLCANIC Dark dull grey fine even grained. Struct: No recognizable flow structures. Fract'd and with calc cement. Veins and Alt'n: 3-4% lt grey calc veinlets and fine networks of veinlets. Minor grey qz with calc. here and there. 442.8-443.3 - 65% lt grey calc. Min'n: tr diss'd Py						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
443.5	455.9	MASSIVE FINE GRAINED DIABASE Dk grey green fine to med even grained, fresh unaltered, magnetic; ophitic texture Structure: Upper ct chilled at 30°. Relatively unfract'd. Veins: Minor lt grey calcite below 452. Min'n: tr scattered grains dk Py						
455.9	475.3	MED-GRAINED DIABASE As above, fine grained from top to about 460m. Struct: Weakly fract'd with calc and chl cement: Upper ct chilled against overlooking still at 65°. Minor broken core 457--457.5 and 464.3 464.5. Veins and Alteration: Epidote calc +/- grey qtz veins. Sections of epidote alt'n up to 0.5 m. 464.7- 2-3 cm with epidote tr Py Min'n: Scattered grains dark Py - tr						
475.3	477.9	FRACTURED DIABASE OR INCLUSION Dk grey black, finely speckled ophitic (?) texture, non-magnetic, fine-med fine grained. Structure: Massive, shattered with lt grey calcite cement. Veins: 5% lt grey calcite stockwork. Remarks: Massive dyke-like rock- slightly different texture than surrounding diabase.						
477.9	486.9	MED-FINE GRAINED DIABASE As above med-grained at top gradually finer grained downward. Struct: Weakly fract'd; A little broken core at lowe ct. Alt'n and Veins: Minor epidote- calcite. Min'n: tr-1/2% dark Py as scattered grains. Remarks: Lower ct uncertain-obscured by broken core.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
486.9	506.3	PORPHYRITIC DIABASE Dk grey green small grey green; f.g. qtz contacts- med in middle up to 2mm 1% or less 4-20mm epidotized feldspar; finely speckled with mt. Struct: Only weakly fr'd. Upper ct partly obscured by broken core; but appears chilled against above intrusive: Lower ct taken at small bx, in fine grained section. Minor broken core 501.7-502.7m Veins and Alt'n: Minor epidote-calc veinlets, alt'n- incl's a little asbesto-type veinlets, alteration incl's a little asbestos-type fibre at 496.8m.						
506.3	540.8	MASSIVE MED-COARSE-GRAINED DIABASE Dk grey-green speckled with 3-4 % magnetite. Multiple intrusive and fine grained at intrusive contacts. Strongly magnetic. Struct: Very massive and uniform-very few fractures; minor broken core at top 522.5 and 524 at 528.6. Apparent double chill at 517.9m. Alt'n and Veins: Generally very fresh and unalt'd. Minor epidote-calcite veinlets and diffuse zones with tr Py. Remarks: Coarse grained "core" of intrusive 522.5-535m						
540.8	545.5	FRACTURED FINE GRAINED DIABASE FAULT As above, med fine to very fine toward lower contact. Magnetic fine speckling. Struct: Highly fract'd broken throughout; 1 cm (+/-) gouge marks fault at bottom; alt'd 45°. Alt'n and Veins: Minor epidote calcite +/- black chlorite; Min'n: tr Py as scattered grains and with epidote	4610	545.0	545.5	0.5		0.01
545.5	545.9	SHEARED FELSIC (OR ALTERED KOMATIITE?) FAULT Light-med grey fine grained felsic. Siliceous fragments separated by pale chlorite Calcitic matrix Struct: Numeros slips and gouge seams up to 0.5 cm at 40°-60°. Schistose crumbly Alt'n: Strong calcite, strong sil'n Min'n: tr fine pale Py						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
545.9	550.3	CARBONATED KOMATIITE BRECCIA Mottled (bx'd) med grey (carb) and dk green (chlorite) soft-mainly calcite and chlorite. Struct: Deformed primary bx mod-strong schistosity at 45°-35°. Alter'n and Veins: Strong pervasive calcite +/- other carb throughout 546.2- 15 cm broken streaky white qtz +/- calcite at 35°. Streaks and branching veinlets fine calcite veins throughout Min'n: tr-1/2 % fine pale euhedral Py throughout. Minor Py conc'n with f.g. grey calcite veinlets e.g. 8%/ 3cm at 547.9 m. Remarks: Contact with underlying unit- arbitrary- gradational into darker more talc-chl rich assemblage. Probably flow bx.	4611	545.5	546.4	0.9	tr-1/2	0.09
			4612	546.4	547.4	1.0	tr-1/2	0.33
			4613	547.4	548.4	1.0	1%	0.01
			4614	548.4	549.4	1.0	tr-1/2	0.01
			4615	549.4	550.4	1.0	tr-1/2	0.01
550.3	552.7	ALTERED KOMATIITE Dk green-black lesser med grey talc-chlorite rich with subordinate carbonate-mostly calcite, soft. Struct: Massive, mottled and breccia-like weak streaky fol'n schistosity averaging 145°. Alt'n and Veins: Mod calc alt'n, abundant black chl- probably metamorph. Vein qtz up t 85% 40cm at 553.6 m Min'n: Isolated tr Py.	4616	550.4	551.5	1.1		nil
			4617	551.5	552.6	1.1		0.01
552.7	555.1	BLACK CHLORITE-CARBONATE ROCK WITH BX'D QTZ VEINS (BX'D ARGILLITE) 75% black chb-grey carb with 25% mottled- white-grey bx'd qtz, a little graphite Structure: Qtz bx'd with mortar struct. Strong schistosity at 4°-40; Minor gouge on sheers; Alt'n and Veins: Mod calc alt'n. Abundant black chl- probably metamorphic. Vein qtz up to 85% 40 cm at 553.6 .m Min'n: Blebs diss'n streaks med-coloured Py from 1/2 - up to 15% Py /20 cm at 554.8. A little f.g. pale Py in quartz veins;	4618	552.6	553.9	1.3	3%	0.11
			4619	553.9	555.1	1.2	4%	0.53

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
555.1	557.1	GREY CARBONATE ROCK WITH FELSIC CLASTS Med. grey lt grey mottled bx'd calc-rich carb with qtz-feldspar with clasts from a few mm to 3 cm. Struct: Bx, schistosity at 30-40 ° Alter'n and Veins: Nearly complete carb'n mostly calcite. Felsic clasts qtzt-feldspar (?) may be broken veins. A little grey mica with assoc Py. Min'n: Minor streaks dk Py here and there up to 2-4 % /30 cm Remarks: Could be komatiitic flows with thin interflow sediments;	4620 4621	555.1 556.6	556.6 557.2	1.5 0.6	tr 2	0.02 0.23
557.1	564.8	GREY AND GREEN CARBONATE ROCK Grey to pale green Fe-dolomite rich rock; + a little chl. Remnant massive to bladed spinifex 558-558.7. Struct:Weak fol'n- schistosity at 35-40° shattered and veined. Alt'n and Veins: 10% lt grey qtz-carbonate veins up to a few cm. Minor white qtz e.g. at 500.4m. Weak green mica (tuchite) here and there. Min'n: See remarks: tr Py in qc veins Remarks: 557.2-557.8 Altered mafic dyke 1-2% diss'd Py. 564-564.8 -2-10 cm bright green ovoids.	4622 4623 4624 4625 4626 4627	557.2 558.0 559.5 561.0 562.5 563.7	558.0 559.5 561.0 562.5 563.7 564.8	0.8 1.5 1.5 1.5 1.2 1.1	1-2 tr 1/2 tr tr	0.02 0.02 0.01 0.01 0.01 0.01
564.8	567.4	INTERMEDIATE DYKE Med. grey med-fine grained ophitic- 'trachytic' texture (slightly aligned feldspar) 30 % ophitic or a few "blocky' feldspar in f.g. matrix: looks like intermediate consposition- trachy- andesite; Struct: Irregular cts at 45-60° Alt'n and Veins: Feldspars have weak clay alt'n; 1-2% lt grey dolomite veinlets. Min'n: tr Py						
567.4	570.9	GREY AND GREEN CARBONATE ROCK As above 557.1-564.8 contains qtz in some sections. Alt'n and Veins: 15% grey qtz-calc (dol) veinlets.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Min'n: tr Py here and there: Up to 1% diss'd Py in hard relatively siliceous sections 568.6-569.9	4628	566.8	568.6	1.8	tr	0.02
			4629	568.6	569.9	1.3	1/2-1	0.01
			4630	569.9	571.0	1.1	tr	0.09
570.9	577.4	GREEN CARBONATE ROCK As above, except 80% of unit is bright green. Mostly fine grained H=4. Possible variolities at 571.5						
		Struct: Mostly massive-irregularly banded in places	4631	571.0	572.0	1.0	tr	nil
			4632	572.0	573.0	1.0	tr	nil
		Veins: Completely carbonatized. Fine pervasive green mica throughout	4633	573.0	574.5	1.5	tr	nil
		15% lt grey branching ptugmatic (Fe) dolomiteic-qtz-veins, some with diss'n	4634	574.5	576.0	1.5	tr	nil
		and streaks of Py.576.6-10 cm white qtz +/- carb'n tr Py and fine black metallic (same as seen at LaChute Main Stg)	4635	576.0	577.5	1.5	1	0.08
		Min'n: See veins. Dark m streaks of Py at edges of qc veins.						
		Remarks: Probably an alt'd komatiitic basalt (because of remnant ophitic texture)						
577.4	582.6	ALTERED INTERMEDIATE DYKE (TRACHY ANDESITE?) As above 564.8-567.4						
		Struct: Bottom 1m fract'd and veined. Some chl fol'n.						
		Veins and Alt'n: 2-5% lt grey carb-qtz veinlets with diss'd Py & wide bleached						
		selvages with minor Py and pale green mica;	4636	577.5	579	1.5	1/2-1	0.14
			4637	579	580.5	1.5	1/2-1	0.04
			4638	580.5	582.0	1.5	tr	0.02
582.6	585.5	MASSIVE BX'D MAFIC VOLCANIC (KOMATIITIC?) Dk grey green, fine grained H=4; Isolated variabilities 2-3mm.						
		Structure: Primary flow bx or polyhedral chl'c jointing.						
		Veins and Alt'n: 10% wispy lt grey qc veinlets.						
		Remarks: Komatiitic or 'normal' basalt.						
585.5	589.2	JOINTED GABBRO Med. grey - lt grey med- coarse grained, less than 50% feldspar. Diabasic- ophitic texture apparent on broken surface H=4-5.						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Struct: Massive in middle with chl'c polyhedral (?) joints towards cts; cts irregular and bx-like. Veins and Alt'n: 5% streaky banded white qtz-carb veins. Remarks: Probably part of Komatiitic flow sequence.						
589.2	593.4	POLYHEDRAL JOINTED KOMATIITIC FLOW Med brown grey to dk green chl'c matrix. Fine grained with fine, black speckling Remnant ophitic (?) texture- may be basaltic. Struct: Polyhedral (chl) joints or coare flow bx. Veins: A few % white qc Alt'n: Appears pervasive carbonatized.	22/7/96					
593.4	597.3	SPINIFEX TEXTURED KOMATIITIC FLOW Med. lt grey green very coarse bladed or locally massive spinifex. Short section gabbro (as above unit) near top. looks relatively fresh; H=5. Struct: A little chl'c shearing near bottom at 45°. Veins and Alt'n: No significant alt'n. A few % qc veins.						
597.3	599.6	INTERMEDIATE DYKE (TRACHYANDESITE) Med. light grey, as above 564.8-567.4 Struct: Except for fracturing massive and undeformed. Veins and Alt'n: A few % white qtz carb with bleached weakly Py'c selvages cutting mainly Komatiite inclusions Remarks: 598.1-598.7 Spinifex tex'd Komatiite.	4639 4640	596.8 598.0	598.0 599.5	1.2 1.5	1/2 1/2	0.06 0.01
599.6	605.2	ALTERED KOMATIITIC FLOWS Dk grey green e.g. gabbury sections - very e.g. spinifex textured H=4 to 6 where altered. Struct: Weakly fol'd to schistose at top at 40°	4641 4642 4643 4644 4645	599.5 601.0 602.5 604 605.5	601.0 602.5 604.0 605.5 606	1.5 1.5 1.5 1.5 0.5	tr 1% tr 1	0.01 0.04 0.02 0.06 0.02

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
		Alt'n and Veins: 15-20% of unit affected by pervasive to fracture controlled pale green alt'n,green mica + /- carb and sil'n with sparse finely diss'd Py 3-4% lt grey whie qc veins. 599.6-600.1 40% white qc minor Py in selvages.						
		Min'n: See Alt'n						
		Remarks: 599.5-600.5 fine komatiite 600.5-601.1 m.g. gabbro 601.5-601.6 Alt'd intermediate dyke 601.6-602.2 spinifex textured, f.g. komatiite; 602.2-603.3 Intermediate dyke 603.3-605 Alt'd f.g. Komatiite.						
605.2	614.1	POLYHEDRAL JOINTED KOMATIITE med- dark grey green- fine to medium grained. Mainly carb. chl. May have initially contained feldspar						
		Struct: Dk green chl joints.						
		Alt'n and Veins: 2-3% lt grey-white qc veins.						
		Min'n: Minor Py here and there with bleaching and qtz-carb veins- alt'n	4646	613.6	614.1	0.5		0.03
614.1	622.4	ALTERED MASSIVE PILLOWED MAFIC FLOW Med light soft grey to light grey, tan pale green where altered H=4 unaltered to 6 where altered.						
		Struct: Massive flow structured wide-spaced chloritic pl selvages with a little bx.						
		Alt'n and Veins: Mod-strong bleaching throughout. 614.1-616.6- 50% strong	4647	614.1	615.1	1.0	2	0.14
		fracture controlled grey sil-carb, a little pale grey. Sericite with diss'd m.g. Py in	4648	615.1	616.6	1.5	tr	0.14
		alt'n and at edges; A few % fine white qtz veinlets with minor Py in alt'n zones.	4649	616.6	618.1	1.5	tr	0.02
		Short sections above alt'n in remaining part of unit	4650	618.1	619.6	1.5	tr	0.01
		621.6-621.9 strong alt'n as 614.1-616.6	4651	619.6	621.0	1.4	tr	nil
			4652	621.0	622.0	1.0	1%	0.07
		Min'n: See Alt'n						
622.4	623.4	BX'D SPINIFEX TEXTURED KOMATIITE As above.						
		Struct: Lower part coarse angular bx	4653	622.0	623.1	1.1		nil
		Veins: Minor qc						

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	ASSAYS % Py	g/t Au
623.4	626.0	ALTERED INTERMEDIATE (TRACHYANDESITE) DYKE As above 564.8-567.4. Med grey-brown. Pink where weakly altered. Bright green at upper contact.						
		Struct: Upper ct at 45° weakly fract'd but otherwise undeformed.	4654	623.1	624.6	1.5	1/2-1	0.50
			4654	624.6	625.1	0.5		0.03
		Alt'n and Veins: Strong green sericite with qtz-carb veins in top 30 cm. Some sil'n Weak red al'n with some qc veins, some lt grey calc at top.						
		Min'n: Up to 2% fine PY/2-3cm in altered sections.						
	626.0	END OF HOLE						
		GENERAL COMMENTS.						
		(1) No felsic volcancic present in TSZ and therefore no values expected. (2) Possible low values in green carbonate rock from 568.6-577.5 (3) 614.1-616.6- Altered Py'ic contact of basalt flow within komatiites expected to carry at least low values.						
		A. W. Beecham A.W. Beecham July 1996						

GEOLOGICAL ASSOCIATION OF CANADA · A. W. BEECHAM · 11/6/96 · FELLOW

Ontario

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): 9780.00697

Assessment Files Research Imaging

Personal information coll
Mining Act, the informatio
Questions about this co
933 Ramsey Lake Road,

41P11NE0074 2.17439 TYRELL

900

3) of the Mining Act. Under section 8 of the
and correspond with the mining land holder.
hern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.17439

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
HADDINGTON RESOURCES LTD	300638
Address	**Telephone Number**
11-TH FLOOR — 808 WEST HASTINGS ST	604 687-7463
VANCOUVER B.C. V6C 2X4	Fax Number 604 681 2578
Name	**Client Number**
ATTN. GOLDEYE EXPLORATIONS LTD,	See Attached
Address	**Telephone Number**
A.A-LACAPTE, ~~R.G.KOMARECHKA~~ AMB	"
R. MACCALLUM — See Attached List.	Fax Number "

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)

☑ Physical: drilling, stripping, trenching and associated assays

☐ Rehabilitation

Work Type	Office Use
DIAMOND DRILLING	Commodity
	Total $ Value of Work Claimed 253,585.
Dates Work Performed From 4 Day 04 Month 1996 Year To 21 Day 07 Month 1996 Year	NTS Reference
Global Positioning System Data (if available)	Township/Area TYRRELL
	M or G-Plan Number G-3725
	Mining Division Larder Lake
	Resident Geologist District Kirkland Lake

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary) Core Logging

Name	Telephone Number
A.W. BEECHAM	705 672-5023
Address	**Fax Number**
540 RORKE AVE. BOX 867 HAILEYBURY ON. P0J 1K0	705 672-3980
Name	**Telephone Number**
Address	**Fax Number**
Name	**Telephone Number**
Address	**Fax Number**

RECEIVED
JUN 25 1997
MINING LANDS BRANCH

4. Certification by Recorded Holder or Agent

I, A.W. BEECHAM (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
A.W. Beecham		13 JUNE 1997
Agent's Address	**Telephone Number**	**Fax Number**
P.O. Box 867 HAILEYBURY ON. P0J 1K0	705 672-5023	705 672-3980

Ontario Ministry of Northern Development and Mines

Assessment Work on Mining Land

2.17439

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
Tyrr 1146441	1	$83,070			$83,070
" 1146640	1	$15,796			15,796
Tyrr 1151464	1	$142,730	—	$23,760	$118,970
Tec H. 1131930	1		$380		
" 1131931	1		$380		
" 1131932	1		$380		
1131933	1		380		
1131934	1		380		
1146644	1		380		
1146645	1		380		
1146646	1		380		
1146647	1		380		
1146648	1		380		
1147074	1		380		
1147075	1		380		
1147076	1		380		
1147077	1		380		
1147104	1		380		
1147105	1		380		
1147106	1		380		
1147107	1		380		
1147114	1		380		
1147115	1		380		
1147116	1		380		
1147117	1		380		
1147118	1		380		
1147124	1		380		
1147125	1		380		
1147126	1		380		
1147127	1		380		
Tyrr 1131920	1		380		
" 1131921	1		380		
" 1131922	1		380		
1131923	1		160		
" 1131924	1		160		
Column Totals					

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MINING LANDS BRANCH

0290 (02/96)

Ontario

Ministry of Northern Development and Mines

Schedule for Declaration of Assessment Work on Mining Land

Transaction Number (office use)

2.17439

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
Tym ✓ 1131925 ✓	1		$380		
✓ 1131926 ✓	1		380		
✓ 1133993 ✓	1		560		
✓ 1133994 ✓	1		160		
✓ 1133999 ✓	1		400		
✓ 1134000 ✓	1		380		
✓ 1134001 ✓	1		400		
✓ 1134002 ✓	1		800		
✓ 1134003 ✓	1		800		
✓ 1134004 ✓	1		400		
✓ 1134005 ✓	1		160		
✓ 1134010 ✓	1		380		
✓ 1134011 ✓	1		380		
✓ 1134012 ✓	1		380		
✓ 1134013 ✓	1		380		
✓ 1134014 ✓	1		380		
✓ 1134015 ✓	1		380		
✓ 1134016 ✓	1		380		
✓ 1134017 ✓	1		380		
✓ 1134018 ✓	1		380		
✓ 1134019 ✓	1		380		
✓ 1134020 ✓	1		380		
✓ 1134021 ✓	1		380		
✓ 1134022 ✓	1		380		
✓ 1134023 ✓	1		380		
✓ 1134257 ✓	1		380		
✓ 1134258 ✓	1		380		
✓ 1134259 ✓	1		380		
✓ 1134260 ✓	1		380		
✓ 1146649 ✓	1		380		
✓ 1151466 ✓	1	$11,989		$11,200	$ 789
✓ 1146650 ✓	1		$380		
✓ 1146654 ✓	1		380		
✓ 1146655 ✓	1		380		
✓ 1146656 ✓	1		380		
Column Totals					

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0290 (02/96)

Ontario Ministry of Northern Development and Mines

Assessment Work on Mining Land

2.17405

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a future date
Tyr ✓ 1146,657			#380		
✓ 1146658			380		
✓ 1146659			380		
✓ 1146,660			380		
✓ 1146,664			380		
✓ 1146,665			380		
✓ 1146,666			380		
✓ 1146,667			380		
✓ 1146,668			380		
✓ 1146,669			380		
✓ 1146,670			380		
✓ 1146,674			380		
✓ 1146.675			380		
✓ 1146,676			160		
✓ 1147,084			380		
✓ 1147,085			380		
✓ 1147,086			380		
✓ 1147,087			380		
✓ 1147,094			# 380		
✓ 1147,095			380		
✓ 1147.096			380		
✓ 1147,097			160		
✓ 1147,098			160		
✓ 1147,119			800		
✓ 1147,120			800		
Column Totals		#253,585	#34,960	#34,960	#218,625

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MINING LANDS BRANCH

0290 (02/96)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals				

I, A.W. BEECHAM (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder ~~or Agent~~ Authorized in Writing	Date
A.W. Beech	14 JUNE 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as ~~follows (describe)~~:

2.17439

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Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
RECEIVED LARDER LAKE MINING DIVISION JUN 25 1997 12:30	Sept 21/97	
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Ontario

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	3130.5 metres	$57.61	$180,352
Associated Costs (e.g. supplies, mobilization and demobilization).			
Mobilization, demob.		$1.23	3841
Supervision, core logging, splitting, surveying, plotting, supplies + services		$16.42	51,417
Assays		2.29	7181
Transportation Costs Supervision only		$1.37	4290
Food and Lodging Costs (Supervision only)		2.08	6504
NOTE: WHEN CONTRACTORS COSTS INCL'D TOTAL FOOD + LODGING EST'D AT THREE TIMES ABOVE AMOUNT.		**Total Value of Assessment Work**	$253,585

2.17455

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK _____ × 0.50 = Total $ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

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Certification verifying costs:

I, A.W. BEECHAM, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as AGENT (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

RECEIVED
PORCUPINE LAKE
MINING DIVISION
JUN 25 1997
12:30

Signature _____ Date _____

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5863

August 26, 1997

HADDINGTON RESOURCES LTD.
BOX 10
11TH FLOOR, 808 W. HASTINGS STREET
VANCOUVER, B.C.
V6C-2X4

Dear Sir or Madam:

Submission Number: 2.17439

		Status
Subject: Transaction Number(s):	W9780.00697	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 11267
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17439

Date Correspondence Sent: August 26, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00697	1146441	TYRRELL	Deemed Approval	August 25, 1997

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

A. W. Beecham
HAILEYBURY, ONTARIO, CANADA

HADDINGTON RESOURCES LTD.
VANCOUVER, B.C.

GOLDEYE EXPLORATIONS LIMITED
RICHMOND HILL, Ontario

ARCHIE ALBANY LACARTE
GOWGANDA, Ontario

ROBERT MACCALLUM
ENGLEHART, Ontario

ROBERT GERALD KOMARECHKA
SUDBURY, Ontario

2.17439

Addendum to Report of Work
Recorded Claim Holders

Hydro Creek Group

Recorded Claim Holder:	Claim #
Mr A.A. Lacarte	1146156
1 Lake St. GOWGANDA, ON	1146157
P0J 1J0	1146441
Tel: 705 624 2496	1146442
Client # 155166	1146638
	1146639
	1146640

Hare Lake Group

Recorded Claim Holder:	Claim #
R. G. Komarechka	1094763
573 Haig St. Apt #1	1094764
SUDBURY, ON; P3C 4N3	1094921
Tel: 705 673 0873	1094922
Client #: 153168	1094923
	1094924
	1098984
Recorded Claim Holders:	1098985
Mr. A.A. Lacarte	
Address above, &	1167805
Mr. R. MacCallum	1167806
6 Queen St. Box 754	1186282
ENGLEHART, ONT, P0J 1H0	
Tel: 705 544 8406: Client # 161860	

Recorded Claim Holder:
Haddington Resources Ltd.
11th Floor - 808 West Hastings St.
VANCOUVER, BC
V6C 2X4
Tel: 604 687 7463
Fax: 604 681 2578
Client # 300638

Claim #
1197546 Tyrrell Tp
1198620 Tyrrell Tp

Ministry of Natural Resources | Ontario | Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
~~M.253~~
G-3725
TOWNSHIP
TYRRELL

2.17439

M.N.R. ADMINIS
KIRKLANI

MINING DIVISION
LARDER

LAND TITLES/RE
TIMISKAMI

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MINING LANDS BRANCH

Scale 1:20 000

1000 Metres 0 1000 2

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 Feet

Contour Interval 10 Metres

41P11NE0074 2.17439 TYRRELL

200

AREAS WITHDRAWN FROM DIS
MRO – Mining Rights Onl
SRO – Surface Rights Onl
M+S – Mining and Surfac

	Description	Order No.	Date	Disposit
R1	W-L-58/96 NER		SEPT 17/96	SRO
R2	W-L-5/97 NER		MAY 30/97	

SYMBOLS

Boundary
- Administrative District
- Township, Meridian, Baseline
- Road allowance; surveyed
- shoreline
- Lot/Concession; surveyed
- unsurveyed
- Parcel; surveyed
- unsurveyed
- Right-of-way; road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- interpolated
- Approximate
- Depression
- Centre point (horizontal)
- Flooded land
- Mine shaft
- Pipeline (above ground)
- Railway; single track
- double track
- abandoned
- River, Stream, Creek
- intermittent
- Road; highway, county, township
- access
- trail, skid
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

- Licence of Occupation
- Order in Council
- Cancelled
- Reservation
- Sand & Gravel
- Land use permit

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND THE ACCURACY THEREOF IS NOT GUARANTEED. THIS MAP IS NEITHER A LEGAL PLAN NOR A SURVEY. PERSONS USING THIS MAP SHOULD BE FAMILIAR WITH THE MINING RECORDER'S OFFICE IN THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN.

CIRCULATED AUGUST 15/96

ARCHIVED SEPT 17/96

N

1094924 1094921 1098984

1146442 1094763 1094764

1146157 1186282

1146156 Hare Lake

ROAD VEIN

LACARTE MAIN SHOWING

G.E. #2 TRENCH

G.E. #1 TRENCH

1151466 1094922

Hydro Creek

OTTER SHOWING

1146640 1146638

Goldeye Hare Lake

H-P ZONE

1167806

1094213

1151465

1133979

1146639 1146441

1134001

1151464

1133980

1134002

L-511149

2.17439

41P11NE0074 2.17439 TYRELL

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Haddington Resources Ltd.
Hydro Creek - Goldeye - Hare Lake Claims
Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

SUMMARY OF BEDROCK GOLD ASSAYS

Sheet 2

Scale: 1:2000

Drawn by: A.W. Beecham
Date drawn: July '95, Jan. '96
Revised: April '96 April '97

NTS 41-P-11

Symbols, Abbreviations

Assays

- grab, chip samples, assay in ppb Au
- channel, chip sample; g/t Au/sample length m
- diamond drill hole vertical projection with assays in g/t Au / true width in metres
- zone of gold mineralization

All analyses by fire assay, Swastika Lab

c	carbonate alteration
Cp	chalcopyrite
gf	graphite
qv	quartz vein
qc	quartz-carbonate vein
mal	malachite
mt	magnetite
Py	pyrite
4f	magnetite iron formation

Fig. 11

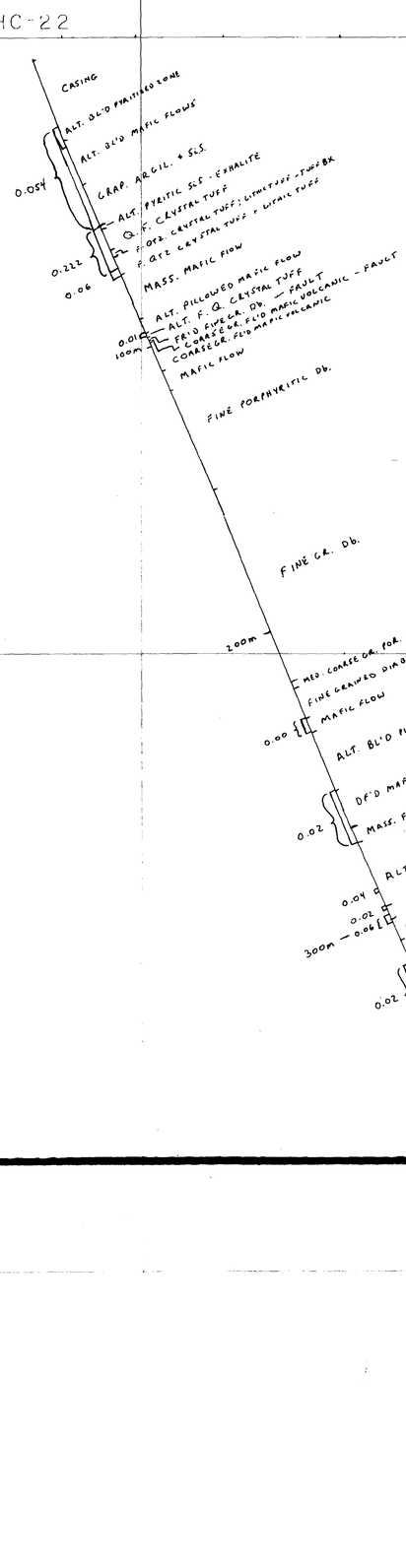
9,400 N | 9,600 N | 9,800 N | 10,000 N

EL 10,000

9,800

9,600

9,400



2.17439

220

Haddington Resources Ltd.

Hydro Creek Goldeye Claims

Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

Diamond Drill Hole Section

N CORE

Scale: 1: 1000

Drawn by:
Date drawn:
Revised:

Sect. Azim. 025

NTS 41-P-11

9,400 N

9,600 N

9,800 N

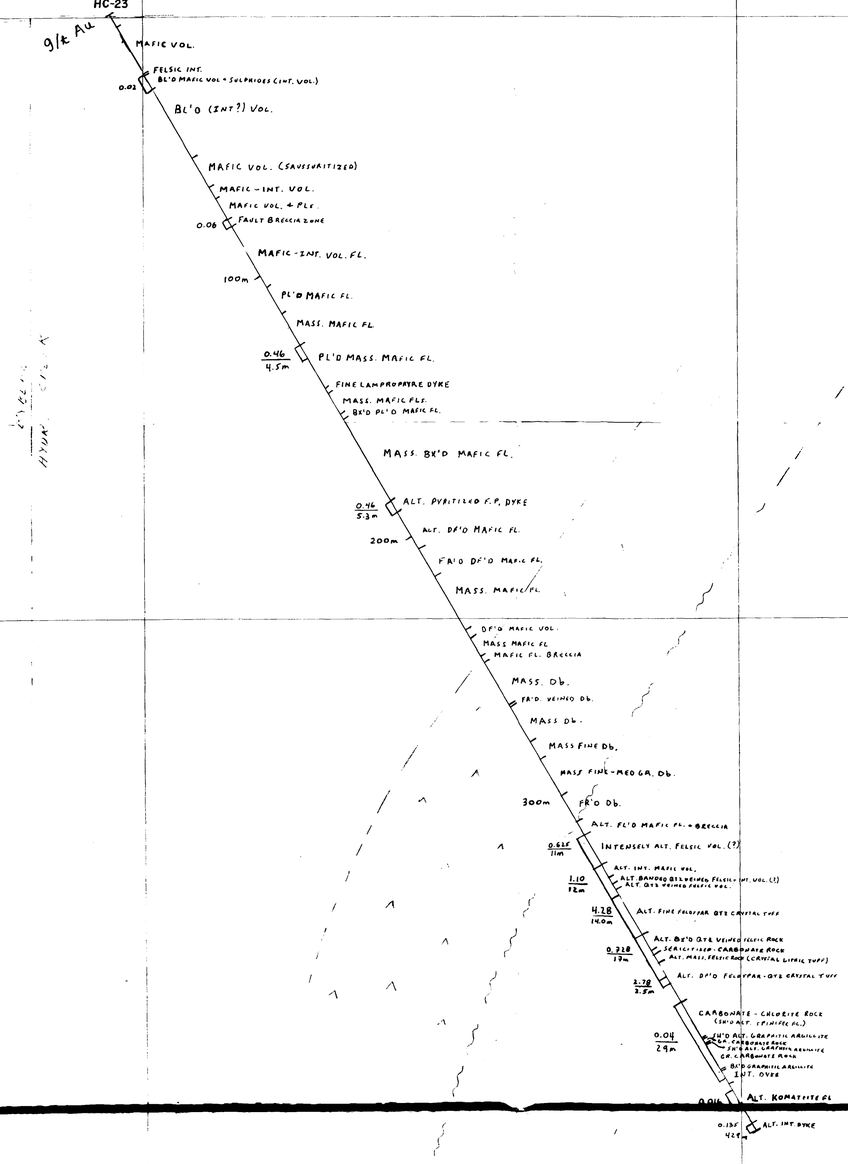
10,000 N

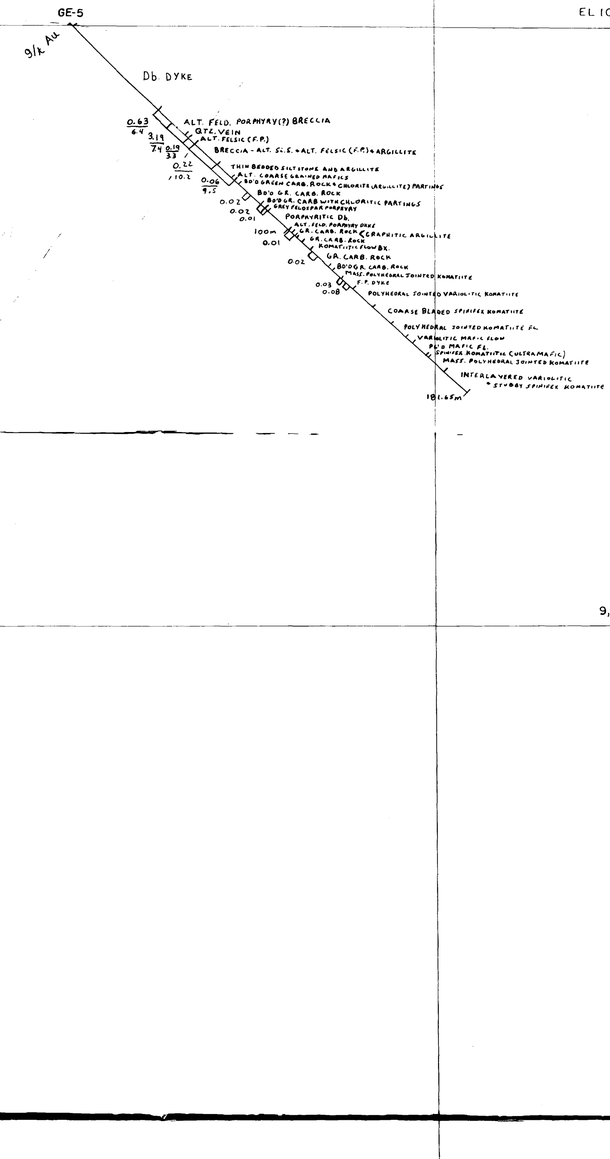
EL 10,000

9,800

9,600

9,400





2.17439

230

Haddington Resources Ltd.

Hydro Creek Goldeye Claims

Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

Diamond Drill Hole Section

10,850 E

Scale: 1: 1000

Drawn by: S. Hussey
Date drawn: May 97
Revised:

Sect. Azim. 025

NTS 41-P-11

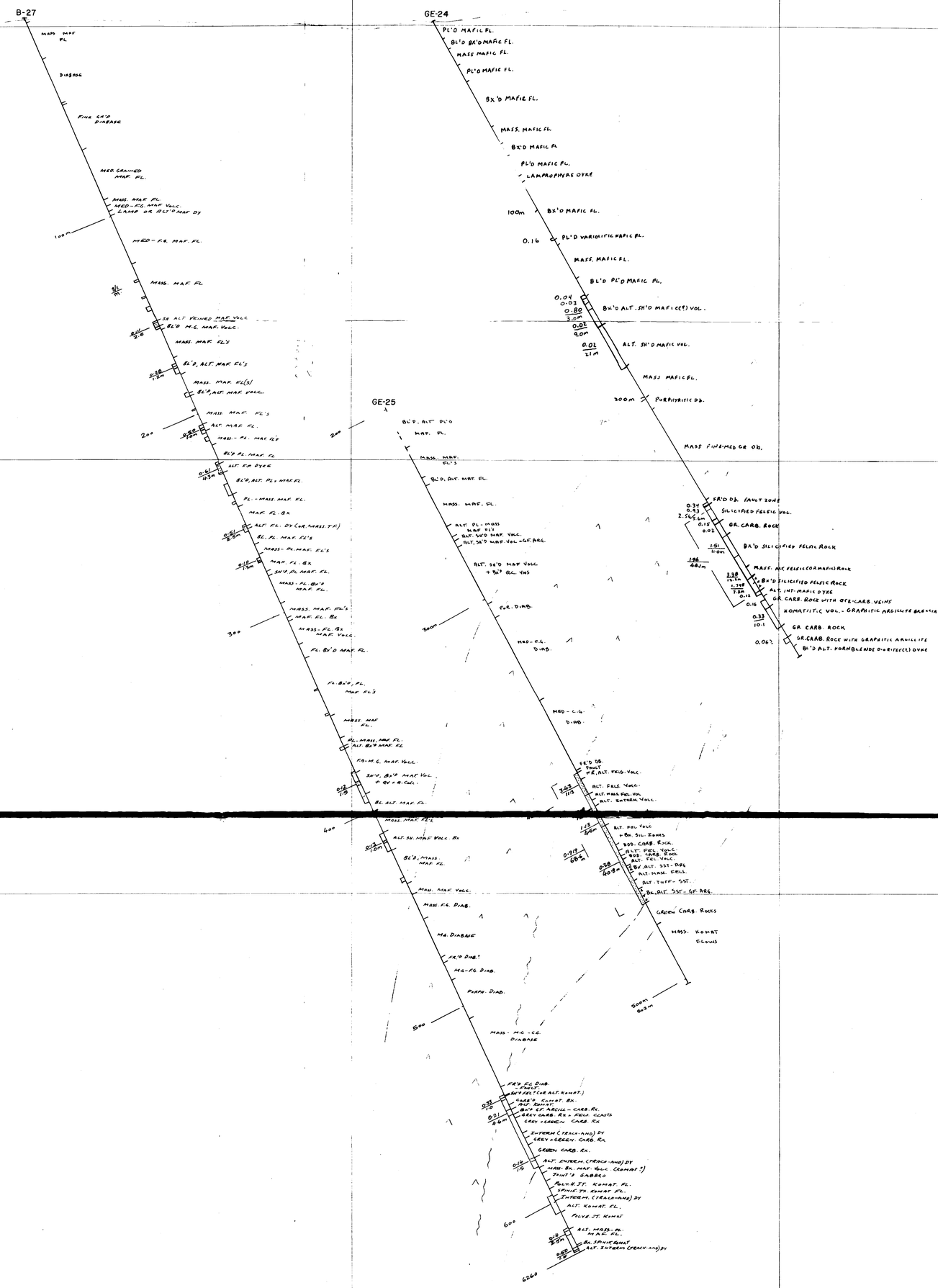
9,400 N | 9,600 N | 9,800 N | 10,000 N

EL 10,000

9,800

9,600

9,400



Haddington Resources Ltd.
Hydro Creek Goldeye Claims

Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

Diamond Drill Hole Section

10,900E

Scale: 1: 1000

Drawn by:
Date drawn:
Revised: AWB. Aug '96

Sect. Azim. 025

NTS 41-P-11

9,400N

9,600N

9,800N

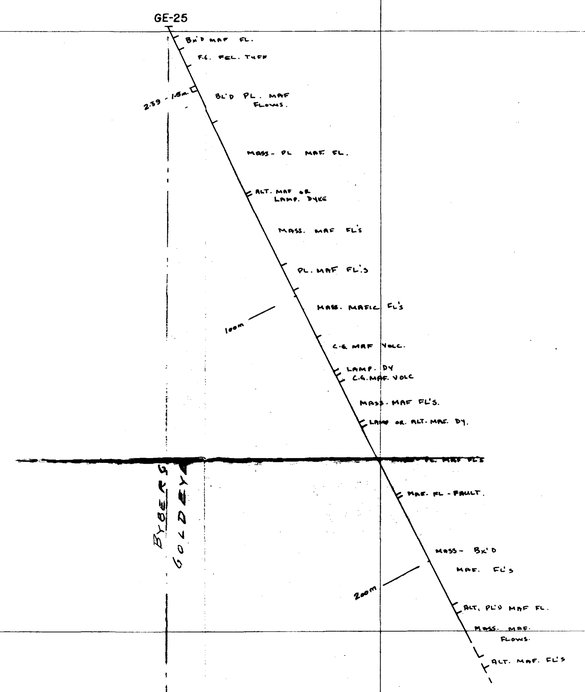
10,000N

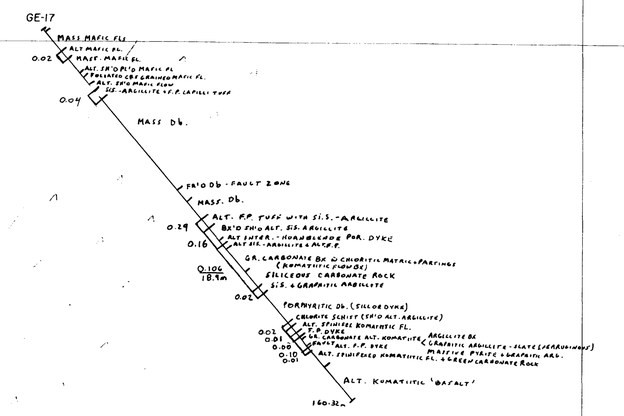
EL 10,000

9,800

9,600

9,400





250

Haddington Resources Ltd.

Hydro Creek Goldeye Claims

Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

Diamond Drill Hole Section

10,950 E

Scale: 1: 1000

Drawn by:
Date drawn:
Revised:

Sect. Azim. 025

NTS 41-P-11

9,400N

9,600N

9,800N

10,000N

EL 10,000

9,800

9,600

9,400

GE-26

MASS. MAF FL.

3/c Ah

FINE FELS. TUFF
PL. MAF. FL.
M.G. DIAB'IC MAF. FL.
LAMP. (Pebble) DYK.

PL. MAF. FL.

M.G DIAB'IC FL.

MASS MAF. FL.
& FAULT

MASS MAF. FL.

M.G. DIAB'IC FL.

MASS. MAF
FL.

LAMP
PL. MAF. FL.
LAMP. DY – FAULT

MASS – PL
MAF. FL'S.

ALT. MAF. FL.

MASS- PL
MAF. FL.

BL'D. MASS. MAF. FL.

ALT. M.G. MAF. VOLC

MASS MAF. FL's

C.G. MAF. VOLC.
MASS. MAF. FL.
ALT. MASS MAF. FL.

MASS.- PL MAF. FL.

PORPH. DIAB.

F.G. DIAB.

FR'D F.G. DIAB.

INTRAM - MAF
FL. DY.

PORPH. DIAB.

F-M.G DIAB.

C.G. DIAB

F.G. DIAB.

BD. GEEY CARB-CHL. ROCK

ALT. KOMAT. VOLC.
+ Q.C VEINS.

CARB. Rx & QC. VNS
ALT. F.P. DYKE

CARB. Rx & QC. VNS
ALT. F.P. DYKE

KOM. VOLC + INT. DYKE (TRACH-AND.)

BL'D INT. DYKE (TRACHY-AND)

ALT. KOM. FL.

ALT. PL.-MASS. MAF. FL.

PL.-MASS. MAF. FL.
VAR. MAF. FL.
KOMAT. SPINIF. FL's

VAR. MAF. FL.
KOMAT. SPINIF. FL
VARIOL. MAF. FL.

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41P11NE0074 2.17455 TYRRELL

260

Haddington Resources Ltd.

Hydro Creek Goldeye Claims

Tyrrell Tp., Gowganda Area, Timiskaming Dist., NE. Ontario

Diamond Drill Hole Section

11,000 E

Scale: 1: 1000

Drawn by:
Date drawn:
Revised:

Sect. Azim. 025

NTS 41-P-11

N 9600

N 9800

N 9900

N 10001

EL. 10,000

9900

9,800

9,700

HC-20

MASS. MAF. U.M. VOLC.

BL'D MAF. FL.

THIN BEDDED SILTST.

BL'D MAF. VOLC.

THIN BEDDED SILTST. & CHERT

SE'D, ALT'D MAF. VOLC.

DIABASE DYKE

ALT'D MAF. (VARIOLITIC?) FL.

RE'D DIAB. - FAULT

ALT. FOL'D VOLC - CARB. ANK.

BX'D, ALT. FELS. INTRUS. = GREEN CARB + MICA.

FOL. GREEN CARB + ALT. VOLC.

MOSS- RDD. GREEN CARB. - ALT. VOLC.

GREEN. CARB. - ALT. VOLC. / BX'D ALT. FELS. INTRUS.

BX'D ALT. FELS. INTRUS. + CARB. ANK.

M.G. MAF. VOLC. BX. & INTRUS.

ALT. QV.'D Q.F.P.

MAF. VOLC. BX

MASS. - PL. MAF. FL.

MASS. MAF. FL. + BX.

MAF. INTRUM. TUFF.

MASS. MAF. FLS.

FR'D PL. MAF. FL'S.

100m

190m

270

Hydro Creek - Goldeye Properties

Tyrrell Tp., Timiskaming District, Ontario

SECTION: 9,900 E

Scale: 1:500

Date: April '96

Azimuth of Section 025°

9,700 N

9,800 N

9,900 N

10,000 N

EL. 10,000

9,900

9,800

9,700

HC-21

8.2' MAF VOLC.

ALT. MAF DYKE OR LAMP.

0.22 0.05

MAF. FL.

8.01

8.2' MAFIC FLOW?

0.08 0.01 0.11

81.9, ALT. MAF. FL.

ALT. 0 MAF. FL.

100m

0.09

F.G. DIABASE

FR'D. DIABASE

M.G. DIAB.

EPIDOTE-ALT'D DIAB.

MASS. M.G. DIABASE

MASS. F.G. - M.G. DIAB.

FR'D M.G. DIABASE

200m

MASS. M.G. DIABASE

0.22

PORPH. DIABASE

FR'D. CAL. DIAB.

PORPH. DIAB.

385.5m

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JUN 25 1997
MINING LANDS BRANCH

41P11NE0074 2.17439 TYRELL

280

2.17439

Hydro Creek - Goldeye Properties

Tyrrell Tp., Timiskaming District, Ontario

SECTION: 10,575E

Scale: 1:500

Date: April 1997

Azimuth of Section 025°