827584
92B/13

DIAMOND DRILL RECORD

PROPERTY Copper Canyon

HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-50° S	

Hole No. 86-5 Sheet No. 1
Section L.6+00 W / 1+00 N
Date Begun Feb. 6, 1986
Date Finished Feb. 20, 1986
Date Logged Feb. 12-20, 1986

Lat.
Dep.
Bearing 205°
Elev. Collar

Total Depth 218.5 m (717 ft.)
Logged By Gary Benvenuto
Claim
Core Size NQ

Purpose: to test contact zone between zones of high and low chargeabilities and for source of anomalous Cu, Zn, Ni, Co and Hg at stations 0+25, 50 and 75 N, L. 6+00 W.

DEPTH (m) FROM	TO	RECOVERY	DESCRIPTION
0	50.9	0	overburden: at 47.9-50.9 m, possibly bedrock, but "tri-coned".
50.9	57.7	70 cm core missing at 50.9 to 53.9 m	Silicified? Maf.? P'c. Bsit.?: hard to v. hard; F.C. = M. to M.-dk., sub-transl. gy. w/ opaq. yel.-wht. to olv.-grn. spots. Appears st. to v. st. silicified?. Original textures, except P'c. nature, not apparent.
			Maf.? phenos.: aprx. 5-7%, altrd. Maf. phenos., 0.5x1 mm to 3x5 mm; completely opaq. (yel.-) wht. Sauss.? (+ Qtz.?-) altrd. to lt. olv.-grn. Ep. (v.F. grn'd.) (+ Py. ± Cpy.) - altrd. to Sauss.? + Chl. + Ep. (+ Qtz.?) altrd..
			Grndms.: textures not apparent; appears completely to nearly completely silicified?; loc. appears microbx'd. or possibly w/ wk. incipient Sch'ty. (pre-dates?? silicification?), or possibly Fsp.? microP'c. w/ 5% metavitric? grndms..
			Ep. altrn. patches: overall aprx. 1%, irreg. distributed, to 1x2 cm, contain 10% hairline Qtz.-filled Frcrs.
			Py.: overall aprx. 0.5-1%, v.v.F. to F. grnd., gen. anhedral, irreg. distributed as diss. Grns. com. in Ep. + Sauss.? + Chl. - altrd. Maf.? phenos.?, and loc. in Chl'c., irreg., Stg.-like Frcrs.
			Vnlts: minor, discontinuous, Ep.-filled Frcrs. to 2 mm tk.. Aprx. 0.5-1%, Cal.-filled Frcrs.: gen. irreg. & discontinuous; appear as Cal.-altrn. of silificied Bsit.? in zones 0.5 to 2 mm tk.
			Dyke?: at 52.0-52.7 m, Bsit'c. dyke: v. wkly. Sch'ose., sub-opaq. M.-dk. grn.-gy., mod. soft to soft, completely

SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb

	Cu	Pb	Zn	Ag	Au
Best Geochem IN 86-5	194	15	164	0.3	5

Total Samples 6 (4.8 m)

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
50.9	57.7		Seri. (+ Sauss.? + Chl.-) altrd., (Fsp. microP'c.) metavitric (at									
			margins) to Fsp.? P.'c. & microP'c., metavitric (in core, w/ 10-30%									
			opaq. gy.-grn., soft metavitric grnds.). Uphole contact v. irreg.									
			& poorly distinct; downhole contact, sharp, somewhat irreg., at 20° to C.A.;									
			cut by 1-2%, irreg. to planar, criss-crossing, discontinuous, Cal.-									
			filled Frcrs., hairline to 1.5 mm tk.									
			Chl.? + Seri. - altrn.: 2 or 3 main patches of altrn.: dk. gy.-									
			grn., soft, w/ 1% leucoxene?, diffuse (1 patch) to sharp (another									
			patch) contacts w/ Bslt.?; patches to 2 cm wide; patch irreg. in outline.									
			Basal (downhole) contact: may be sharp but some broken &									
			some missing core at contact.									
57.7	58.3		Basaltic dyke?: M.-dk. grn.- gy., completely? Seri.- (Chl.- Ep.?-)									
			altrd.; original textures v. poorly distinct due to st. microbxn.? &									
			altrn.; appears loc. to be Fsp.?, Maf. MicroP'c., metavitric to									
			Maf. microP'c., v.v.F. to v.F. xtln.?.									
			Py.: aprx. 1-1.5%, v.v.F. diss. Py. thruout.									
			Vnlts.: aprx. 1-2%, discontinuous, irreg. Stg.-like, to planar									
			Cal. to Cal. + Chl. - filled Frcrs., hairline to 1.5 mm tk., com.									
			in criss-crossing network.									
			Basal contact appears sharp but v. irreg.; at 0 to 25° to C.A.;									
			somewhat masked by microbxn.. Dyke appears to be in contact w/									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE (cm)	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
57.7	58.3	(cont.)	Bslt. somewhat similar to next downhole unit, but microbx'd. over 10–15cm.									
58.3	62.6		Basaltic crystal tuff?: speckled sub-opaq. (yel.-) wht. to (grn.-yel.-) wht., M. grn.-gy. & dk. gy.-grn. Appears to comprise var.									
			Sauss.-Chl.-Ep.-altr'd., v.F. to F. to M. grn'd. Fsp., anhedral									
			xtl. Frags.? + few %, chl.?-altr'd. maf. xtl. Frags., w/ few % opaq.									
			wht. ash? matrix.									
			Ep. altrn.: in irreg. to planar, discontinuous vnlts. to 2 mm tk. &									
			as irreg., discontinuous zones up to 1cm+ tk.									
			Py.: minor to v. loc., 0.25%, v.v.F. to v.F. diss. Py.									
			Cal. Vnlts.: aprx. 1-2%, as irreg to planar, discontinuous,									
			stg.-like Frcrs filled w/ wht. Cal.									
			Basal contact: sharp; at 65° to C.A.. wedge (0 to ≥ 2cm									
			tk. x ≥ 5cm long) of next downhole rx. at 1.5 cm uphole from									
			basal contact.									
62.6	62.8		(Pyritic) basaltic crystal and ash tuff?: sub-opaq. grn.-gy.-tan;	5-62.6	62.6	62.8	0.20	77	3	85	0.2	1
			v. wkly. sch'ose., completely seri.-(Chl-leucoxene?) altr'd.,									
			composed of 90-95%, anhedral, v.F., Fsp.? xtl. Frags. (& few %,									
			Chl.-altr'd. Maf. Frags.?) + 5-8% ash matrix?.									
			Py.: aprx. 3-4%, v.v.F. to v.F. (to loc. F.) grnd., diss. Py.									
			thruout, v. loc. in short v. thin Stgs.									
			Cal. Vnlts.: aprx. 2%, discontinuous, criss-crossing, to 2mm tk.									

DIAMOND DRILL RECORD

PROPERTY _____

HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 4
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
62.6	62.8	(cont.)	Basal contact: gradational? over 1-2 mm; at 40° to C.A.; in part									
			marked by parallel Cal. lenses to 3 mm tk.									
62.8	62.9		Basaltic crystal tuff?: st. resembles 58.3-62.6 m.									
			Basal contact at 55° to C.A.; marked by 1-2 cm vr. zone of									
			st. pseudo-mylonitization at 55° to C.A.									
62.9	71.6		Silicified?, mafic? porphyritic basalt?: M.-dk. gy.-grn. to M.-lt. to									
			M.-(grn.-) gy. to loc. lt. gy. (w/ dk.-gy.-grn. spots), gen. wkly. transl.; gen. mod. to st.									
			Qtz.-, wkly. Seri.-Chl.-(leucoxene?-) altrd. (v. hard. to mod. soft). Strongest									
			silicification? at 65.3-71.6 m. Original textures poorly distinct; loc. appears Maf.? P'c. &									
			microp'c., metavitric, w/ aprx. 7-12%, completely Seri.-Chl.-									
			(Qtz.?-) altr'd., M. to dk. gy.-grn. mafic Phenos., 0.5 to 3 mm									
			square.									
			Bslt.? gen. st. to v. st. bx'd. & microbx'd.; & st. frcr'd.,									
			w/ aprx. 2-3%, irreg., clay-wthrd., com. Chl'c. Frcrs.									
			Gouge zone: 10 cm tk., at 63.1 m, w/ aprx. 50-70% clay.									
			Bslt.? somewhat resembles that at 50.9-57.7 m but here									
			Maf.? phenos. not st. Ep.-altrd.									
			Cal.-filled Frcrs.: loc. preserved (unwthrd.) to 2-3%, irreg.,									
			discontinuous, criss-crossing, hairline to 1 mm tk, one Vnlt. 3 mm tk.									
			Wthrd. core: at 67.3-68.0 m & 69.2-69.9 m, core									
			mod. wthrd. (as clay-wthr'd. Frcrs. & Bxn.) & crumbly.									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 5
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
62.9	71.6	(cont.)	Between 69.2 - 71.5 m, 1 m of core (broken & wthrd.) recovered.									
			Py.: at 71.5 - 71.6 (aprx.), aprx. 1-3%, v.v.F. to v.F. diss. Py.; elsewhere gen. aprx. tr. to minor (to loc. 0.5%), v.F. diss. Py.									
			Basal contact: may be sharp, but in 10 cm intrvl. of broken & ground core. Drawn at distinct colour change.									
71.6	81.2		Weakly, silicified?, mafic? porphyritic basalt: wkly. schlose.; somewhat resembles 62.9-71.6 m, except grades, more or less, down hole, from dk. gy.-grn., mod. silicified?, st. chl.-Seri.-altrd. (down to 72.2 m) to wkly. translucent, M.-dk. to M. to M.-lt. tan-gy. w/ dk. gy.-grn. spots. (altrd. Maf.? phenos.) & wkly. Qtz.-altrd., mod. to st. Seri.-altrd. (down to 79.8 m), into wkly. transl. M.-lt. tan-gy., v. st. Seri.-altrd., wkly. (to loc. v. st.) Qtz.-altrd. w/ no dk. gy.-grn. spots.									
			Textures poorly distinct due to altrn. & wk. schty. (as network of anastomotic microFrcrs.)									
			Maf.? phenos. become progressively less distinct down hole: uphole gen. dk. gy.-grn. & st. chl.-altrd.; down hole Maf.? phenos.									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 6
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
71.6	81.2	(cont.)	increasingly Qtz. (+ Seri.?—) altrd. & become translucent M. gy..									
			At 72.7 — 73.2 m: core mod. to st. clay-wthrd. & crumbly;									
			core appears v. st. bx'd. & loc., at least, st. sheared.									
			Schty.: wk., but progressively less distinct downhole &									
			not apparant in basal 1.8 m.; at 74.2 – 79.9 m Schty. at 45° to C.A.									
			Py.: gen. tr. to minor (v. loc. to 0.5 %) v.v.F. diss.									
			Aprx. 1%, Qtz. to Qtz. + Chl. (± Cal.) to Chl.-filled Frcrs.									
			as discontinuous Vnlts. in irreg. criss-crossing network, com. w/									
			Stg.-like appearance.									
			Basal contact: gradational over aprx. 5-8 cm; marked by									
			downhole increase in Chl. + Hemt.? + leucoxene? altrn. & 1.5 cm tk.									
			zone of pseudo-mylonitization at 45° to C.A.									
81.2	85.6	DIORITE	Hematite-altered, Feldspar? porphyritic basalt: v. distinctive;									
			v. dk. gy.-grn./M.-lt. (bluish-) gy.-tan spotted w/ opaq. wht.-									
			specklies; v. wkly. Sch'ose.; completely Seri.-Chl.-(Hemt.-									
			leucoxene?-) altrd..									
			Original textures v. poorly apparent; appears to be Fsp.? Pl'c.									
			w/ v.F. xtln.?, Fsp.? + Maf.? grndms.									
			Fsp.? phenos.: aprx. 1-2 to 5-10%, sub-opaq-									
			M.-lt. to M. gy.-tan w/ bluish tinge, completely Seri. (+ Ep.? + Chl.? +									
			Pumpellyite?? -) altr'd., gen. w/ irreg. outline, loc. rectangular, up									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 7
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
81.2	85.6	(cont.)	to 3x5 mm but loc. to 4x8 mm; com. poorly distinct.									
			Grnds.: v. dk. gy.-grn./M.-lt. (bluish-) gy.-tan; v. F.									
			speckled, v.F.-F. xtln.?; Maf. appears completely Chl. + Hemt. -altrd.									
			w/ few? % Hemt.									
			Leucoxene? spots: aprx. 3-4%, evenly diss., opaq. wht.,									
			skeletal-appearing, com. rectangular, com. 0.5x0.5 to 0.5x2 mm,									
			com. w/ inclusions or core of v.v.F. grnd. Hemt.									
			Cal. + Hemt. - Vnlts.: aprx. 1-2%, as complex, criss-crossing									
			array of discontinuous, irreg. to planar, filled Frcrs., hairline to									
			loc. 1-7 mm tk.; Vnlts. com. w/ few % Hemt. along 0.1-0.5 mm									
			tk. Frcrs. parallel to Vnlt. (Hemt'c. Frcrs. appear to post-date Cal.-									
			filled Frcrs.).									
			Schty.: v. wk. to wk.; at aprx. 50-55° to C.A.									
			Basal contact: sharp, but somewhat irreg. in detail; 1/2 contact									
			occupied by Qtz. + Cal. vnlt. to 8 mm tk.; contact at 65° to C.A.									
85.6	85.65		Basaltic crystal tuff: dk. tan-gy.; consists of 85%+,									
			v.F. to F. grnd., completely Seri.-altrd. Fsp. Xtl. Frags. +									
			aprx. to 5%, Chl.-altrd. Maf. grns. + few % ash? matrix.									
			w/ 0.5%, Hemt.-altrd. grns.									
			Basal contact sharp; at 55° to C.A.									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 8 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
85.65	85.7		Basaltic crystal tuff w/ lapilli: M.-dk. tan-gy.-grn.; v. wkly.				
			schiose.; composed of 80%, dk. gy. to dk. grn-gy., completely				
			Seri. (± chl.-) altrd. irreg. Fsp. xtl. Frags. F. to M. (to C.) tuff-				
			sized + few %, chl-altrd. Maf. grns. + few %, blk., meta-				
			argl. cht. & M.-lt. gy. meta-cht. frags: ang., to 5x5 mm.,				
			+ few %, ash? matrix. No obvious grading.				
			Basal contact at 2 cm tk. intrvl. of st. broken, wkly. wthrd. core				
			at 55° to C.A. (parallel to uphole contact).				
85.7	86.2		Variably altered basaltic, Meta-argillaceous chert, tuffaceous, agglomeratic				
			lapillistone:				
			Aprx. 10%, xtl.-T. matrix; 75% L. clasts. & 15% A. clasts.				
			Clasts: aprx. 85%, var.-altrd. Bslt. & 15% cht.; gen. ang. to sub-	ang.-			
			Bslt. clasts: fairly wide variety in textures & altrn.: predom.				
			sub-opaq. M.-dk. to M. tan-gy., v. st. Sauss.-leucoxene? -altrd.				
			Fsp. microplc., metavitric w/ few % (more com) to 85% metavitric				
			grndms. & few % to 90% Fsp. microphenos. as criss-crossing array				
			of microlites & sub-equant xtls., & up to a few % Fsp. &/or				
			Maf phenos. Few clasts of dk. gy.-grn., wkly. translucent,				
			completely Seri. (+ Fp.?-) altrd. metavitric Bslt. w/ few % chl.-altrd.				
			Maf. phenos.. Few % clasts of wkly. translucent wht. to v. lt. tan,				
			completely silicified? Bslt.?; Few clasts of dk.-gy.-grn., v. F. xtln.?				

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 9 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
85.7	86.2	(cont.)	Chl.-seri.-altrd. Bslt.				
			Cht. clasts: predom. blk., meta-arg'l. Cht. (aprx. 5% of clasts				
			overall); secondarily M.- to lt.- gy. to loc. M.- gy.-grn. Cht.. One clast				
			w/ Bdng.: contact between v. dk-gy. Cht. & lt. tan-gy. Cht.. Cht. clasts				
			gen. cut by 1-5%, Qtz.+Cal.-filled Frcrs. hairline to 1mm tk, in				
			criss-crossing array (that do not extend into matrix or adjoining clasts.				
			T. matrix: composed of Fsp. (Seri.-(+Chl.?-) altrd.) & Chl.-altrd. Maf.				
			(small %) Xtl. Frags. & T.-sized Bslt. (var. altrd.) rx. Frags.				
			Qtz.+Cal. vnlts.: lapillistone cut by 1-2%, irreg., discontinuous,				
			Qtz.+Cal.-filled Frcrs.				
			Basal contact: abrupt: marked by disappearance of L. clasts &				
			abrupt increase in % T., but offset aprx. 21 cm along fault				
			at 15° (uphole) to 0° to C.A.				
86.2	87.8		Basalt, chert and argillaceous chert lithic & crystal tuff to agglomeratic, tuffaceous				
			lapillistone: aprx. M.-thin bdd. & intergradational.				
			Tuff: aprx. 60% of intrvl.. Dk. grn.-gy.-tan, v. wkly. schiste.;				
			composed of predom. v.F to F. (to M.), Seri.-altrd. Fsp. & Chl.-altrd.				
			Maf. (aprx. 5%) xtl. Frags. w/ aprx. 2-4% ash matrix & perhaps few				
			%, quartzose grns.; grades abruptly into 4 or 5 intrvls., 7-20 cm long,				
			of lithic & xtl. (& ash) L.T. w/ clasts (F to C.T.-sized) of sub-transl.				
			gy. to gy.-grn., silicified? Bslt.? (that resembles that in several uphole				

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 10
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE (m)	Cu	Pb	Zn	Ag	Au
86.2	87.8	(cont.)	units), & w/ to 10% metacht. & Fsp. xtl. Frags.. Z widest intrvls. also									
			contain. C.L. to F.A. (to 3x4 cm) clasts of Bslt. & cht. & silicified?									
			Bslt.? as described in 85.7-86.2 m.									
			Bdng. (& v.wk. Schty.) at aprx. 25° to C.A.. Subtle grading of									
			T. & F. to v.F.T. / A.L.T. contacts suggest bed-tops point downhole									
			(though some reverse grading)									
			Basal contact: appears abrupt but a 1 cm tk. intrvl. of broken &									
			shear core.									
87.8	90.6	(aprx. 2.6m)	Basaltic? crystal to crystal and ash tuff to meta-argillaceous (crystal and)	5-87.8	87.8	89.2	1.4	194	8	164	0.2	2
			ash tuff: graded, aprx. v. thin to M.-thin bdd.; v. wkly. schose..	5-89.2	89.2	90.6	1.4	160	10	150	0.1	3
			Overall % of ash & graphitic 'chips' and diss. grns. (& lams.) increases									
			downhole as % of xtl. Frags. decreases downhole.									
			T. consists of interbdd. & intergraded: lt. grn.-tan-gy., Fsp. (Seri.-									
			altrd.) + Maf. (aprx. 3-5%, chl.-altrd.) xtl. Frags. + 2-3% quartzose									
			grns & + 1-2% leucoxene? - altrd. Grns.? as v.F. to F. xtl. T. (aprx. 5% of total unit); M. to dk. gy.-tan,									
			soft, v.F. to v.v.F. xtl. & ash T. to ash T., w/ few %, Fsp.? (Seri.-altrd.)									
			xtl. Frags. & 1-5% (increasing downhole), blk. graphitic Grns. as									
			v.v.F. diss. Grns. & loc. ultra-thin wisps. Faulting w/ up to few cms									
			offset com. disrupts Bdng.									
			Clay-wthrd. zones: at 89.2 m (10 cm wide), 89.4 m (15 cm									
			wide) & 90.3 m (20 cm wide) intrvls. of mod. clay-wthrd. tuffs (various									

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 11 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
87.8	90.6	(cont.)	types).				
			At 88.0 m, clast (7x25 mm) of blk., meta-argl. Cht.				
			At 90.2 m, aprx. 15 cm wide (aprx. 2.5 cm tk.) intrvl. of				
			tuffaceous L. w/ predom. clasts of lt. to M. gy. to tan-gy. Cht.,				
			sev. clasts of blk., meta-argl. Cht. & few clasts of Seri.-, to Seri.+				
			Qtz.-altrd. Bslt.; intrvl. at 30° to 0° to C.A.				
			Bdng. at 25-60° to C.A. but gen. at 35-40° to C.A..				
			Graded Bdng.: individual Bds. show poorly distinct grading loc.				
			fining uphole & downhole & not definitive. However, overall increase				
			in % of graphite downhole suggest tops point downhole.				
			Graphitic shears: overall aprx. 0.5 %, polished, most com.				
			in graphitic ash T. intrvls.; com. appear parallel to Bdng. & Schty.				
			Schty.: v. wk., parallel to Bdng. (35-40° to C.A.)				
			Py.: no Py. apparent.				
			Basal contact: abrupt; at first appearance (downhole) of				
			L. & A. clasts.				
90.6	104.2		Basalt, chert, meta-argillaceous chert, ((hematite-altered basalt, jasper))				
			tuffaceous (lithic) agglomeratic lapillistone to agglomeratic tuffaceous lapillistone:				
			(description for T. L.A. units down to 103.5 m). Unit st. resembles 86.2-87.8 m,				
			clasts: aprx. 10-15% A. up to 4.5x8 cm (largest are blk.				
			argl. Cht.); aprx. 10-15% (com.) loc to 50-70% T. sized lithic clasts;				

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 12 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
90.6	104.2	(cont.)	aprx. 70-80% (loc. down to 30%) L. clasts. Clasts gen. ang. to									
			sub-ang., loc. sub-rounded (cht. & Bslt. clasts).									
			Clast distribution: aprx. 5% (loc. to 10%) gy. cht.; aprx 2-3%									
			blk. meta-cht.; aprx. 0-5% Hemt.-altr'd Bslt.? ; aprx. 8+ Jspr.									
			clasts; aprx. 90%, var. altrd. Bslt. clasts.									
			Clasts:									
			Bslt.: most com., sub-opaq. M. to M.-dk. (grn-) gy.-tan,									
			completely Seri.-(chl.-(leucoxene?-)) altrd., (Fsp., Maf. P'c.), Fsp.,									
			Mafic microP'c., metavitric w/ 2-10% metavitric grnds., &									
			Fsp. microphenos. from predom. sub-equant to less com. sub-equant &									
			as criss-crossing microlites. Few clasts w/ up to 80% metavitric									
			grnds. Aprx. 10% of Bslt'c. clasts dk. gy.-grn., completely Seri.-									
			chl.-(leucoxene?-) altrd., Fsp. P'c., v.v.F. xtln., com. w/ minor to 1%									
			v.v.F. diss. Py.. 3% clasts of v. dk. gy.-grn., Fsp. P'c., metavitric?									
			Bslt. to v.F. xtln Bslt. w/ 3-5%, leucoxene?-altrd grns.— this									
			Bslt. resembles that at 81.2-85.6 m, except here gen.? w/ 0.5-2%,									
			v.v.F. diss. Py.. One clast of v. st. schiose. Bslt.. One clast of									
			st. Sauss.-(wk. chl.-) altrd., F. to M. xtln.?, Fsp.-Maf.-Bslt..									
			Few clasts of sub-transl. lt. tan-gy., v. st. silicified? Bslt.?.									
			Cht.: gen. v.lt. to lt. to M. (few dk.) gy.; v. hard.; com.									
			contain up to 1-2%, criss-crossing Qtz. vnlts. to 1 mm Tk. that do not extend									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 13
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
90.6	104.2	(cont.)	beyond clast. 1 clast shows distinct lams., Largest ≈ 4-5 cm x 8 cm.				
			Blk., meta-arg'l. Cht. clasts: gen. v. dk-gy. to near blk.; gen. appear				
			v.v.F. grn'd w/ sm. % seri.?; gen w/ minor to 1%, v.v.F. diss. Py. &				
			minor to 2%, v.v.F. diss. graphite?. Loc. appear delicately, wispy lam'd.;				
			com. w/ minor to 1-2%, paper thin to 0.5 mm tk., criss-crossing,				
			Qtz.-filled Frcrs. that contained completely w/in individual clasts.				
			At 99.2 m: 3x15 mm clast of Seri.-Qtz.-Sch. w/ aprx. 10%,				
			v.v.F. diss. Py. + 1%, v.v.F. diss. Hemt.				
			At 101.7 m, F.A. clast of sub-transl. M. (grn.-) gy., wkly.				
			schiose., completely Qtz.-(Seri.-) altrd. metavitric? Rhy. w/ few Qtz.				
			microphenos.				
			Hemt.-altrd. clasts.: occur thruout unit, but most com. (aprx.				
			0.5-1%) at 90.6-94.4 m within which concentrated to 2-3% (at				
			93.3-93.8 m). Clasts. 5x15 mm to 0.5 mm sq.. Gen. appear as				
			Hemt.-altr'd. (few to 50%) non- to sl.-schiose., Qtz.-Seri.-Rx., loc.				
			w/ to few %, v.v.F. diss. Py..				
			Jspr. clasts.: relatively rare (minor %: 57 or 8 larger ones				
			identified); clasts 2x2 mm to 15x20 mm. Largest clast at 101.6 m:				
			15x20 mm, M. brick-rd., ang., w/ aprx. 1%, v.v.F. diss. Py., non-				
			magn'c.; Jspr. clsts. most com. in intvls. w/ Hemt.-altrd. clasts.				
			Cal.-Vnlts.: aprx. 0.5-1% overall; gen. irreg. & discontinuous				

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 14 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu (m)	Pb	Zn	Ag	Au
90.6	104.2	(cont.)	and 0.5 – 1mm tk. but at 96.3 – 97.2 m, 10 Cal. Vnlts., 2-25 mm									
			tk. at 45–60° to C.A., w/ 20 cm wide intrvl. w/ 4 mam Vnlts. parallel									
			to st. shearing (at 45° to C.A.)									
				5-90.6	90.6	91.8	1.2	101	6	116	0.1	5
			At 91.8 – 92.0 m: Graphitic tuff: mod. wthrd., soft &	5-91.8	91.8	92.0	0.20	183	15	138	0.3	1
			crumbly; v. dk. brwn. w/ blk., v. delic. lams; appears to be v. sl.									
			sheared (or sch'ose.) graphitic xtl. (& ash?) T. composed of v. F.,									
			Seri.-altrd. Fsp. grns + few % chl.-altrd maf. grns. + abund.									
			(5%) discontinuous, paper-thin lams of graphite that occur along									
			shears w/ polished graphite. Shearing (or Sch'ty.) at 45° to C.A.,									
			Upper & lwr. contacts of intrvl. at zones of broken & wthrd. core,									
			15 & 4 cm wide.									
			Basal 60cm of unit consists of, from uphole to downhole:									
			10 cm of blk., soft., graphitic, Bslt'c. v. V. F. Fsp. & Maf. xtl. (& ash?)									
			tuff; 25 cm of graded bd. of Bslt., Cht. (Hemt'c. grns) v. F.-L. xtl. &									
			lithic tuff which becomes finer grnd. downhole, w/ increasing %									
			of Fsp & Maf. xtl. frags. downhole, grading to dk. grn.-gy. Fsp. + Maf.									
			Bslt'c. v. F. & F. xtl. T.; 25 cm of A.L.T. = w/ 10% A. clsts.									
			as uphole, to 8 cm wide, & matrix of F. to M. xtl. & lithic tuff									
			grading downhole into aprx. 6 cm of dk. grn.-gy. Bslt'c. v. F. & F.,									
			Fsp. & Maf. xtl. T. Bdng. at 25-30° to C.A.; grading shows tops of									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 15
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
90.6	104.2	(cont.)	Bds. point downhole.									
			At 102.3 m, 4.5 cm tk. intrvl. consisting of 2cm (uphole)									
			of M- gy., Bslt'c. v.F.-F. xtl. T. (seri.-altrd. Fsp. + Chl-altrd.									
			Maf. xtl-Frags.) w/ 1% graphite (v.v.F.), diss. Grns.; & 2.5cm									
			of near blk., graphitic, v.v.F. xtl. & ash? T.; Bdng. at 40-45° to C.A.									
			Basal contact at 8 cm of wkly. wthrd. Bslt'c. (L.) F. xtl.? T.									
			contact w/ next downhole unit at ground core-ends.									
104.2	110.6		Rhy. flow?: Fsp. ((Qtz. P.'c.)), Fsp. (Qtz.) microP'c., metavitric?.									
			v. wk. to wk. (to v. loc. st.) sch'ose. (microbx'd.) which makes textures									
			poorly distinct. Completely Seri.-(Qtz.-Chl.-) altrd.; gen. M. to M.-dk. (tan.-)									
			grn.-gy. (where stronger Chl-altrn.) to loc. M. to lt. tan-gy. (where									
			v. st. Seri.-altrd.). Gen. 0.25%, v.F. dits of leucoxene?.									
			V. aprx. 10-12% Fsp. phenos. up to 2x1.5 mm, gen. dk. gy.-grn.									
			& completely Qtz.-Chl.-Seri.?-altr'd., but loc. completely Seri.-altrd.									
			(in lt. tan-gy., st. sch'ose. Rhy.).									
			V. aprx. 2-3%, Qtz. microphenos., 0.25 to 1 mm dia.,									
			gen. st. microbx'd.. Loc. 1 or 2 Qtz phenos. to 1.5 mm dia.									
			apparent.									
			Wk. sch'ty. consists of anastomotic network of micro Frcrs.;									
			at 40 to 25° to C.A. (gen.? at 30-35° to C.A.)									
			At 104.2-105.8 m, core mod. broken & appears somewhat									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 16
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
104.2	110.6	(cont.)	sheared, & wkly. wthrd. (crumbly, in part).									
			At 108.8 - 109.0 m, 20 cm of M.-lt. tan silty - mud ± gouge?									
			Basal contact at 15 cm wide intrvl. of broken core, some pieces w/									
			ground ends. One piece of Bslt. from next downhole unit w/ broken									
			apart? lens or Frag. of completely Seri.-altrd. ((Qtz. microP'c.)) Rhy.									
			to 1 cm tk.									
110.6	112.2		Basaltic flow? : v. F. xtln.; v. dk. gy.-grn., completely Seri.-	(Between 111.9 and 114.9 m, 1.6 m (aprx.) recovered.)								
			Chl.- (Ep.- Cal.-) altrd.; comprising v. F. xtln. Fsp. & Mat.									
			(poorly distinct textures)									
			At 110.6 - 111.1 m, Bslt. var., opaq. (olv.-grn.-) buff, Ep.									
			(+ Cal. + Qtz.?) altrd.: in irreg., patchy distribution, w/ patches									
			to 10 cm wide w/ 10-15 % spots to 4x5 mm of v. st. Ep. altrn. &									
			irreg. patches to 2x5 cm of aprx. 15 to 90 % Ep. altrn. (w/ rather									
			uniform appearance). Where spots of Ep. altrn., spots resemble v. irreg.									
			Fsp. phenos. but apparently not.									
			Base of unit (111.8 - 112.2 m) marked by aprx. 40 cm of									
			mod. broken milky Wht. "Bull" Qtz. Vn. w/ aprx. 5 % inclusions?									
			of Bslt. as uphole.									
112.2	112.4		Mud: M.-lt. gy.-grn.; mostly clay (to silt?-sized)									
112.4	117.5		Fault? breccia: wkly. (to mod.) clay-wthrd., wkly. to st. sheared.	(Between 114.9 & 117.5 m, aprx. 1.2 m recovered)								
			Composed of Frags. of intrvlt. (2 to 50 cm wide) of completely Seri.-Qtz-									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 17 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
112.4	117.5	(cont.)	altrd., v.wk. to wkly. sch'ose., Fsp. (Qtz.: 1-3%) microP'c., metavitric?									
			Rhy. (sub-translucent M. (tan-)gy.) + aprx. 20%, Frags. &									
			lens? of v. dk. gy.-grn. Bslt., 1.5 to 15 cm wide, loc. st. sheared,									
			appearing to surround Rhy. Frags.									
			Basal contact drawn at last intrvl. of (st. sheared) Bslt.. Contact									
			st. sheared: at 40° to C.A.									
117.5	129.6		Rhy. flow?: v. wkly. to wkly. sch'ose., completely Qtz.(-Seri.-) altr'd. (mod. to v.									
			hard), Fsp. (Qtz.) P'c. and/or microP'c., metavitric? flow?: wkly. transl. lt.									
			gy.-tan to tan-gy.. Textures poorly distinct due to mod. mirrobxn..									
			Aprx. 1-5%, st. mirrobx'd., rounded, Qtz. microphenos.									
			0.25 mm dia. to 1x1.5 mm.. % of Qtz. & Fsp. microphenos. appears to									
			increase down hole.									
			Aprx. 2-10%, poorly distinct, Fsp. microphenos. up to 1.5x2 mm & apparent;									
			Phenos. appear v. st. silicified & v. st. mirrobx'd.; gen. M.-dk. tan-gy. (sub-transl.) w/ rare elvg. distinct.									
			Py.: minor to loc. 1%, v.v.f. diss.									
			At 123.5 m, Py. + Qtz.-filled Frcr., 2-3 mm tk., w/									
			aprx. 25%, v.v.f. diss. Py., at 70° to C.A., cross-cuts Qtz.									
			Vnlt., 2-8 mm tk. at right angles (Vnlt. at 30° to C.A.). Py. 'c.									
			Vnlt. w/ 3 or 4 branches.									
			At 123.2 m, Phenos. become sufficiently large to call									
			Rx. Fsp. (Qtz.) P'c. & microP'c., metavitric Rhy., w/ Fsp (& Qtz.)									
			Phenos. com up to 1.5x2 mm; gen w/ rounded outlines & v. st.									
			mirrobx'd. & silicified?. Aprx. 8-10% Fsp. Phenos. & aprx. 3-5% Qtz. Phenos..									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 18 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
117.5	129.6	(cont.)	Overall % of Seri. altrn. increases & intensity of Schi'ty.									
			increases downhole (Seri. to wk.; Schi'ty. to wk. to mod.-wk.)									
			Below 127.4 m, % of Fsp. (& Qtz.) Phenos. & Microphenos. increases									
			to aprx. 10-15 % Fsp. & 3-6 % Qtz., & Fsp. Phenos. wkly. Chl.?-									
			altrd. & Rhy. appears darker: M. tan-gy. w/ M.-dk. Fsp. Phenos.,									
			though Fsp. Phenos. do not increase in size.									
			V. wk. to wk. Schi'ty. at aprx. 15° (uphole) to 30° (downhole) to C.A.									
			Basal 6 cm of Rhy. w/ aprx. 15-20 %, sub-transl. wht. Fsp.									
			phenos. to 2x3 mm., & Rhy. wkly. Chl.-altrd.									
			Basal contact sharp & somewhat jagged: at 80° to C.A.;									
			in part marked by Hemt'c. shear.									
			Aprx. 0.5-1 %, irreg., discontinuous, criss-crossing. Qtz.									
			(+ Cal.)-filled Frcrs.									
129.6	130.5		Basaltic flow?: v.F. xiln. Fsp. (+Maf.), w/ minor Fsp. Phenos. & few % meta-									
			vitric grnams.; v. dk. gy.-grn., v. wkly. schose., completely Seri.-									
			Chl.-altrd. w/ 1 %, v.v.F. dits of leucoxene? & wk. Hemt. altrn.									
			Few Hemt'c. Frcrs., loc. w/ 1-3 %, F. patches of smeared out Py.									
			& minor v.F. patches of Cpy.?.									
			Basal 12 cm of unit is M.-dk. buff-grn.-gy. & wkly. to									
			mod. Sauss.?-altrd. At basal contact, % of metavitric grnams increases									
			to aprx. 20%. Basal contact appears poorly distinct, but sharp									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 19 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
129.6	130.5	(cont.)	& highly irreg., overall at aprx. 30° to C.A.									
130.5	158.4		Feldspar porphyritic rhyolite: v. wkly. schiose., Fsp. P.'c. & micro P'c. (seriate),									
			metavitric Rhy.?; completely Seri.-Chl.-albite? or Qtz.?-(leucoxene?-)									
			altrd. (uphole) to Qtz.-albite?-Seri.-(Chl.)-altrd. (downhole).									
			Grn. M-lt. (grn.-) tan-gy w/ v. lt. gy. & dk. gy.-grn. spots									
			Fsp. Phenos: aprx. 15-20% (intrvls. w/ 7-10%), up to 3x4 mm; gen. w/ somewhat									
			irreg. outlines, gen. sub-transl. v. lt. gy. to wkly. frost wht. w/ grn. fringe,									
			but microbx'd.; v. hard & either albitized or silicified. Aprx. ~~50-70%~~ w/ clvg.									
			Fsp. Microphenos. Fsp. Phenos. com. w/ minor to few % Chl.-altrn.,									
			Qtz. Microphenos.: rarely apparent; v.st. microbx'd. ~~(decreasing % downhole, to 140.7m)~~									
			Grndms.: metavitric; aprx. 35-10% completely Seri.-Chl.-altrd.;									
			downhole from 140.7 m, v. aprx. 30-50%, sub-transl. M-tan-gy., v.st. Qtz.-, wkly. Seri.-altrd. Grndms.--									
			At 130.5-130.8 m, w/ aprx. 10%, irreg. patches of complete Chl.-									
			altrn., up to 2x5 mm: could be deformed maf. Phenos.?, yields									
			overall dk. gy.-grn. (lt. gy. spotted) colour to Rhy.:. Below 130.8 m,									
			aprx. 3-7% Chl.'c. spots (altrd. Fsp.? Phenos.) - Grnds, gen. M. gy.-grn.; Grndms.									
			w/ aprx. 1%, v.v.F., leucoxene? dits.									
			Py.: gen. minor to 0.25%, loc. to 1%, v.v.F. diss.									
			Vnits.: aprx. 0.5%; discontinuous, somewhat irreg., criss-crossing,									
			Cal.-, to Cal.+Qtz. (to Qtz.-) filled Frcrs., hairline to 2-3 mm tk.									
			Rhy.: varies from somewhat soft to mod. hard to hard, downhole.									
			At 143.1 m, aprx. 20 cm wide intrvl. of (Fsp.?, Maf.? micro P'c.)									
			metavitric? Rhy.: that may be flow selvage?: var. patchy altrn. of									
			dk. gy.-grn., Qtz.-Seri.-Chl.-altrn. & lt. (yel.-) gy., Qtz.-Seri.-									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 20
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
130.5	158.4	(cont.)	Ep.? altrn.: textures poorly distinct but aprx. 5-10% Microphenos..									
			Intrvl appears to have gradational contacts w/ Fsp. P.'c. Rhy.? (over v.									
			aprx. 1-1.5 cm).									
			At 140.7 (aprx.) to 158.4 m, Rhy. hard to v. hard. & st. quartzose,									
			& wkly translucent M. ((grn.-)) tan-gy. & relatively uniform in colour & texture.									
			3 or 4, Hemt'c. Frcrs. + aprx. 1%, Cal. (+ Qtz. + Hemt.) Vnlts.									
			at 143.7 - 144.3 m.									
			Bslt'c. dyke at 146.2 - 146.7 (aprx.) m.: wkly. schiose., v. dk.									
			gy.-grn., completely Seri.- Chl.-((leucoxene?-)) altrd.; v.v.F.									
			xtln.?; minor v.F.-F. diss. Py. Upr. contact sharp, at 0-10° to									
			C.A.; lwr. contact at 4-5° to C.A.; upr. & lwr. contacts parallel to									
			Schty. in dyke. Bslt. somewhat sheared w/ clay-wthrd.									
			shears. Mod. broken core w/in whole intrvl..									
			Schty.: gen. v. poorly developed, though st. developed lineation									
			apparent on Frcr.-surfaces. Orientation of Schty. uncertain, but									
			loc. st. Microbxn. and some alignment of Fsp. Phenos at low									
			angles (0-15°) to C.A.									
			Basal 80cm (aprx.), appears that % of Fsp. Phenos. &									
			Mirrophenos. decreases & metavitric Grndms. % increases. to v. aprx.									
			60-75%, but core mod. brocken & Fsp. Phenos. poorly distinct;									
			could be flow selvage?. Basal contact drawn at top of 1st piece of									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 21
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
130.5	158.4	(cont.)	core that appears to be XTl-T. which occurs 8 cm uphole from									
			mislatch, but core ends do not fit in this intrul. & uphole.									
			Mislatch: at 158.8 m (521 ft.): probably little core lost;									
			at 157.6 – 158.8 m, aprx. 90 cm of core recovered (mod. broken);									
			at 158.8 – 160.6 m, 1.8 m recovered (i.e. no missing core).									
158.4	160.5		Feldspar porphyritic rhyolite lapilli and crytal tuff: wk. (to mod.) Schty.;									
			gen. completely Qtz.-clinozoisite?-Seri. (wk.)-altrd., & mod. to v.									
			hard. Textures gen. v. poorly distinct; could range to T.L.									
			At 158.8 – 159.1 m, textures mod. distinct: aprx. 5-7%, dk.									
			gy.-grn. clasts of complete Seri.-Chl.-albite?-or Qtz.-altrd.									
			Fsp. P'c. & microP'c., metavitric Rhy. that. mod. Schiose. & irreg. but									
			stretched in outline (up to 1.5 x 2.0+ cm). Also aprx. 3-5%, clasts,									
			2-5 mm dia., of opaq. wht., clinozoisite?-Seri.-altrd., Fsp. MicroP'c.,									
			metavitric Rhy.. Matrix: M. tan-gy., v. hard, Qtz.-clinozoisite?-									
			(Seri.-Chl?-) altrd., Fsp. P'c. & MicroP'c. Rhy. v. F. to F. XTl-T.									
			composed of Fsp. XTl. Frags.									
			Below 159.1 m, most L. of Fsp. P'c. Rhy. appear completely									
			Seri.-(Chl.?-)-altrd. (M. honey-brwn. to grn.-brwn.) & T. overall									
			M.-lt. tan-gy. & gen. hard.									
			At 160.2 m possible A. clast of M. gy.-grn., wht. spotted,									
			Fsp P'c. & microP'c., metavitric Rhy. w/ wht. Saus.?-altrd Fsp. Phenos.									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 22 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
158.4	160.5	(cont.)	wk. (to mod) Schty. at aprx. 35° to C.A.									
			Basal contact sharp; marked by 8mm of lt-gy-grn. gouge, at									
			55° to C.A.									
160.5	172.2		Feldspar ((Qtz.)) porphyritic rhyolite flow?: mod. schlose., M.-dk. (grn.-brwn.-) to M. (grading downhole) (to loc. M.-lt.)									
			gy., dk. grn-brwn.-gy. spotted, completely Seri.-(Qtz.-Chl.?-) altrd.									
			(mod. soft).									
			Several pieces w/ aprx. 0.25% Qtz. Phenos. & Microphenos. up to									
			2 x 3 mm; st. microbxd..									
			Textures poorly distinct because altrn. & Schty.									
			Aprx. 3-5%, dk. gy.-grn. Fsp. Phenos. that appear wkly. Chl.-altrd									
			(& completely Qtz.?-Seri.-altrd.)									
			% mafic Grnds. difficult to estimate; could be up to aprx. 40-60%.									
			Rhy. resembles that at 130.5-158.4m but here Fsp. Phenos.									
			smaller & Rhy. more schlose.									
			Py.: v. minor to minor to loc.? 0.25%?, v.v.F. diss. Py.									
			Cal.-Vnlts.: gen. minor to 1%, but 1 intrvl. 70cm wide, w/									
			3-4%; gen. as somewhat irreg. discontinuous lenses and elongate to									
			wb-equant patches that appear deformed in Schty.; v. loc. few% Hemt. staining.									
			Mod. Schty. at gen. 35° to C.A., but at 165.6-169.8m,									
			Schty. gen. at 10-25° to C.A. & somewhat folded. Wk. Schty. at									
			aprx. 170.7-172.2m									

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 23 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
160.5	172.2	(cont.)	Basal contact gradational over aprx. 30cm; mark by downhole increase									
			in size & % of Fsp. Phenos. & decrease in Schty.; 160.5-172.2m probably									
			uphole part of thick flow. At contact also downhole decrease in grn. tinge.									
172.2	218.5	(E.O.H.)	Feldspar (mafic?, quartz) porphyritic, metavitric rhyolite flow?:									
			v. wk. (to wk. (to mod.)) Schty.; M. gy., completely Qtz.-(Seri.-clinozoisite?-chl.-) (increasing downhole)									
			altrd. & mod. hard (172.2-185.0m); completely Seri.-(Qtz-Chl.-leucoxene?-) altrd. (185.0-190.8m).									
			Fsp. Phenos.: aprx. 10-15%, frosty wht., clinozoisite?-altrd.,									
			microbx'd., com. up to 2x3 mm, + aprx. 15-20% Microphenos..									
			Qtz. Phenos.: aprx. 0.1 to 0.5%, clear dk. gy., microbx'd.,									
			up to 1.5x 2mm., Phenos. + aprx. 0.5-1% Microphenos.									
			Mat. Phenos.: aprx. (up to) 2-3%, dk. gy.-grn., completely Qtz.?-Seri.-									
			chl.-altrd. (microxtln. mosaic), up to 5x7 mm.									
			Grndms.: aprx. 60-70%, metavitric; completely Qtz.-(Seri.-									
			loc. chl.-clinozoisite?-) altr'd.									
			Py.: aprx. minor to 0.5%, v.v.F., irreg. diss.; at 174.6-	6-174.6	174.6	175.0	0.40	12	2	41	0.2	1
			175.0 m aprx., aprx. 2-3% %, v.v.F. diss. Py., appears to be									
			concentrated along chl'c. microfrcs. (in anastomotic network)									
			Schty.: at 172.2-177.6m (aprx.) v. wk. Schty.. At 177.6-									
			185.5 m, wk. Schty. (incipient) (to loc. mod.), as gen. v. st. Microbxn. (anastomotic									
			network of Microfrcs.) (& Fsp. Phenos. poorly distinct-similar colour									
			to (or slightly to significantly darker gy.- Grndms.): Schty. at 35-40° to C.A. down to 181.7 m;									
			at 45° (182.9 m) to 60° (186.2 m); at 60-65° (186.2-200.1 m);									
			at 55° (200.1-202.2m), 50°-60° at 202.2-218.5m.									

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 24 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
172.2	218.5	(cont.)	Vnlts.: 0.5 % or less, discontinuous, Cal.-filled Frcrs., com.				
			0.1-1mm tk.; loc. in intrvls. to 15-20 cm wide, to 1-2%, Wht.-				
			Fe-carb.-filled Frcrs. to 2 mm tk.				
			At 181.6-187.2m (aprx.) & 189.1-196.0m frx. wk. to loc. mod. (to loc. non-)				
			Magtic. w/ aprx. 0.5 % (to loc. 1%), v.f. to f. diss. patches of v.v.f. grn'd Pyrrhn.?				
			At 183.1m, 3-5mm tk., Frcr.-altrn. zone w/ aprx. 5% v.v.f.-v.f. diss. Pyrrh.? at 55° to C.A. (parallel to Schty.).				
			At 195.6m, 2-20mm tk. altrn. zone w/ aprx. 5-7%, v.v.f.-v.f. diss. Pyrrh.? at 55° to C.A. (cuts Schty. at low angle). (cont. below).				
			Broken core: mod. broken, wkly.-clay-wthrd. core at 182.3-				
			183.0m, 183.7-184.5m, 184.7-185.0m (mod. to st. broken; in part				
			mod. wthrd.)				
			Dyke?: at 187.4m, 5 cm tk. dyke of v.dk. gy.-grn., completely				
			Chl.-(Ser.-) altrd., st. schiose (highly contorted) Bsit.: contacts sharp:				
			upr. contact at 60° to C.A. (sub-parallel to Schty. in dyke & up-hole Rhy.),				
			lwr. contact at 40° to C.A.				
			At 187.4-188.1m, core mod. to st. sheared, w/ highly				
			to mod. contorted Schty. & aprx. 10%, clay-wthrd. Schty. surfaces.				
			Intrvl. also w/ 3 main Qtz. Vnlts. to 1cm tk.: folded & discontinuous,				
			and 2, discontinuous patches or lenses of Chl.-altrd. Bsit.?, to 2cm tk.				
			Cal. altrn.? spots: at 189.3-200.2m & 206.3-209.4m & 215.3-218.5m,				
			aprx. 1-2%, irreg.				
			patches of v.f. xtln. Cal. (appears sub-opaq. wht.), 0.5x0.5 to 0.5x1.5				
			mm, gen.? occur w/in and/or around part of edge of Fsp. Phenos.				

DIAMOND DRILL RECORD

PROPERTY _____ **HOLE No.** 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 25
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
172.2	218.5	(cont.)	Altrn. (cont.) at aprx. 190.8 m, hardness increases down hole:				
			apparently due to increase in Qtz-altrn. (to perhaps 25%) of Grnds.				
			& Fsp. Phenos.. Fsp. Phenos. also more distinct, as dk. (grn-) gy. spots				
			in M to M.-dk. gy. Grnds.; Fsp. Phenos. appear re-xtlzd. to mirroxtln.				
			mosaic of Seri.? + Qtz.? + Chl.? ± olv. grn. Ep. ± Cal.				
			Dyke?: at 194.6 m, aprx. 6 cm tk. dyke? of near blk., v. St.				
			schiose., mod. sheared., completely Chl.-Seri.-(Cal.-leucoxene?-) altrd.				
			Bslt. w/ 10%, Cal. Vnlts. (as discontinuous, 'sheared-out' lenses to				
			13 mm tk.) that parallel dyke contacts. most of dyke w/ gougey Schty.				
			surfaces (forming broken core). Upr. contact of dyke at 25° to C.A.,				
			cuts Schty. in uphole Rhy. at aprx. 75°. Downhole contact in broken core.				
			Rhy. from aprx. 185.0 m downhole, relatively uniform in appearance.				
			Py.: at 197.3 m, one diss.? xtl. of Py.: 3x5 mm.				
			Altrn.: at 196.7-198.7 m aprx. Rhy. dk. gy.-grn. & wkly. Chl.-altrd..				
			Dyke: at 197.8 m, 20 cm wide dyke of wkly. schiose., dk. gy.-grn.,				
			completely Chl.-Seri.-(Cal.-) altrd., v.v.F. xtln.? Bslt.; uphole contact @				
			50° to C.A. (and 55° to Schty. in uphole Rhy.); lwr. contact at 55° to				
			C.A. (& at 75° to Schty. in downhole Rhy.); both contacts sharp but				
			irreg. in detail.				
			V. wk. to wk. to loc. st. Magtic., at 197.4-200.3 m; Rhy. w/				
			v. aprx. 0.25-0.5%, v.v.F. → v.F. diss. Magt. or Pyrrh.; + at 199.7-200.3 m,				

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 26 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____
Date Logged _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
172.2	218.5	(cont.)	w/ aprx. 7, altrn. zones of Pyrrh. (aprx. to 10%) + Olv.-grn. Ep. + Cal.; zones				
			irreg., discontinuous, to 2 cm wide, at high to low angles to Schty.				
			Altrn: at 198.3 (aprx.) – 206.7 m & 211.5 – 213.5 m & 215.3 – 218.5 m, Fsp. Phenos. com. w/ few to aprx.				
			10%, Olv. grn. Ep. altrn. (v.v.F. grn'd.) & minor to 1-2%, diss. Hemt. altrn. (at 198.3 – 206.7 m). In addition, 1-2% aprx.				
			Chl.-altrd. Maf. microphenos.; also minor to 0-25%, Qtz. microphenos.				
			and rare Phenos. apparent. At 206.3 m – 209.4, Fsp. Phenos. w/out Ep altrn.,				
			but w/ to few % Chl.? - altrn. & Cal.-altrn. spots.				
			At 205.5 m, 0 – 1.5 cm tk, altrn. zone w/ aprx. 10%, v.v.F. diss.				
			Pyrhh.; at low angle to Schty.				
			Qtz. Vnlts.: at 209.2 – 209.9 m, 2 or more, Qtz. (+ Cal.) Vnlts.				
			0 – 2 cm tk., highly irreg., discontinuous & folded; overall at				
			0 – 20° to C.A.				
			At 208.2 – 212.4 m, Rhy. M.-tan-gy., w/ irreg. elongate				
			patches of M.-dk. gy.-grn.; from 212.4 – 215.5 m Rhy. M.-dk. (grn.-tan-)gy.				
			At 212.6 m, 3x6 mm, sub-rounded, microbxd. Qtz. Pheno. or Amgl.?.				
			Dyke: at 215.0 m, 35 cm wide dyke of v.v.F. xtln. Bslt.:				
			near blks., completely Chl. – Seri. – Cal. – altrd. w/ few % sub-round,				
			altrn. spots of v.s. Sauss. Altrn. that show texture of Bslt.: consists of				
			cross-crossing Fsp. Microlites + sub-equant Fsp. xtls. (v.v.F.) + aprx. 5-7%,				
			v.v.F., altrd. Maf xtls. + aprx. 10-15%, metavitric Grndms. - Upr.				
			contact sharp but irreg.: at 60° to C.A. (at high angle to Schty. in Rhy.).				

DIAMOND DRILL RECORD

PROPERTY _____ HOLE No. 86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 27
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE					
172.2	218.5	(cont.)	Lwr. contact sharp & irreg., at 70° to C.A. (and apx. 90° to Schty. in									
			downhole Rhy.).									
			Rhy. at 215.3-218.5 m, gen. dk. (tan-grn.-) gy., mod. hard									
			to mod. soft, w/ var. Seri.-Chl-Qtz. altrn., to loc. M tan-gy. &									
			hard (w/ stronger Qtz. altrn.).									
			E.O.H.									

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

☑ METRIC UNITS
☐ IMPERIAL UNITS

HOLE NUMBER	GRID	FIELD COORDS	LAT.	DEP.	ELEV.	COLLAR BRNG.	COLLAR DIP	HOLE SIZE	FINAL DEPTH
86-5	CANAMERA 1985					205°	-50°	NQ	218.50 m

PROJECT	CLAIM #	SURVEY COORDS.	DATE STARTED: DATE COMPLETED:	CONTRACTOR: CORE STORAGE:	CASING:
PN 326	COPPER MINT II			FULTON'S FARM	

PURPOSE	RQD LOG ☐ COLLAR SURVEY ☐	PULSE EM SURVEY ☐ MULTISHOT SURVEY ☐

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP

HOLE NO. 86-5

LOGGED BY M. J. GRAY

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0 TO	OVERBURDEN / CASING							NOTE ↓ 10cm PIECE OF REDRILLED
50.9 m								CORE IS PYRITIC (5-8%)
								QTZ EYE CX TUFF.
50.90 TO	SILICIFIED	MED - LT	APH-VFG	WEAKLY FOLIATED, REL	FOL'N	SILICIFIED - PERVASIVE	1-2% FG DISS^ED	NOTE MOD. EP IS GOOD PIST.
52.47 m	AND. CX	GREEN/	MX	MASSIVE SILICIFIED AND.	15°		PY TH-O	GREEN COLOUR
	TUFF	GREY		CX TUFF.	(5-40°)	W-MOD SEL EP^Z OF FP		
			F-C Q	CLOUDY TEX DUE TO		PHENOCRYSTS (<5%)	TR CPY ?	
				PERV SILICIFICATION.	BOT CTC			
				MX IS VFG - APH SIL^F	IRREG	MOD SEL CHL^N OF		
				ASH.	? 40°	MAFIC PHENOCRYSTS (5%)		
				CX INCLUDED 1-15% <<1-2mm				
				SUBHED. FP CX (AVE 5%, <1mm)	LAYERING			
				ALSO MAFIC CHL ALTERED <1-2mm	? 40° ?			
				PHENOCRYSTS 5%.				
52.47 TO	AND DYKE,	MED DULL	APH-VFG - GM	MASSIVE, V. WEAKLY	BOT CTC	S-I <1mm GASHLIKE	<1% DISS^ED PY	
53.37 m	MAFIC	GREEN		FOLIATED AND DYKE.	25-35°	CALCITE VEINS		
	PORPHYRITIC	-GAMAF.	F-M - CX	GM IS CHILLED AT LOWER				
				CTC (10cm)		NETWORK OF CHL ± EP		
				5-10% AMPHIBOLE? <1-1mm		WISPY VEINLETS TH-O		
				PHENOCRYSTS				
				TEX MASKED BY ALT^N				

HOLE NO 86-5

PAGE 1 of

ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
53.37 TO	SILICIFIED	LT-MED	APH-VFG	MASSIVE-CRUDELY LAYERED, VW FOLIATED	BOT CTC	SILICIFIED - PERVASIVE	1-2% PY DISS^{ED},	NOTE SOME QTZ VEINS HAVE
57.68 M	AND. CX	GREEN/	MX	AND. CX TUFF (SIM TO	80 OR 45°		MAINLY ASSOC W/ EP ALT^N	BLK CHL ENVELOPES.
	TUFF	GREY		ABOVE)		SEL^W EP^N OF FP,		
			F-M CX	FP PHENOS 10-15% <1-1mm	FOL^N	ALSO W PATCHY EP-QTZ		LITHO: BCD# 6251
				W EP^Z	35°	UP TO 2x1cm PATCHES		53.53-56.53m
				MAFIC PHENOS <5%, <1mm	(30-40°)	1-5%. PATCHES ARE		
				^{M}CHL^Z		SVBA - SVBR.		
				LAYERING CRUDE, DEFINED BY	LAYERING	MINOR^W 1-2mm CALCITE		
				FP-RICH LAYERS (?)	// FOL'N?	VEINS + QTZ VEINS TH-O		
57.68 TO	DIORITE,	DK GREEN	F-M,	MASSIVE, VW FOLIATED,	BOT CTC	VW CHL^{TH-O}, W-M CH IN	NVS-TR PY,	LITHO: BCD# 6252
62.93 M	F-M GRAINED	+ WHITE	± VFG	LOCALLY W. SHEARED	FAULT	CHILLED MARGINS.	LOCALLY UP TO 5% PY	58.00-61.00
				DIORITE F-M 40-50% PLAG	~60°		IN CHILLED MARGINS	
				50-60% MAFICS		VARIABLE W-S CALCITE		
				NOTE CHILLED MARGINS AT UPPER		GASHLIKE VEINS (S IN		
				AND LOWER CONTACTS.		CHILLED MARGINS)		
				57.68-58.18: VFG-FG DIORITE				
				CHILLED MARGIN, M-DK				
				GREEN				
				58.18-62.75: FG-MG DIORITE				NOTE MINOR 1-3cm IRREG
				WITH BLK CHL ON FRAC				FG DYKES IN THIS
				62.75-62.93m: FG PYRITIC		WISPY CHL ± EP VEINLETS	5% FG PY DISS^N	INTERVAL
				CHILLED MARGIN			+ BLEBS	

HOLE NO. 86-5

PAGE 2 of

ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
62.93 TO	FAULT ZONE	MED-DK	APH-F	FAULT ZONE CONSISTS OF	TOP CTC	SILICIFIED(?) PATCHY-PERV	<1-1% DISS FG PY	V. BLOCK CORE @
71.59 M	(IN DAC	GREEN±	MX	NARROW SHEARS, GOUGES,	~60°			65.80-71.59m
	-RHYODAC ~~AND~~ CX T.	GREY,		AND V-BLOCKY INTERVALS OF CORE	BOT CTC	VW CHL/SER, M-S CHL-		
	±LAP T.)	ALSO	F-LAP	IN DAC-RHYODAC ~~AND~~ CX T. ± LAP T.	BROKEN-UP	SER-CLAY IN GOUGE + ALONG		
		MED-LT	CX/FRAGS			SHEARS		NOTE MOTTLED WHITISH UNIT
		GREY-		MX OF CX T/LT IS	SHEARS			SIM TO TOP OF HTS-37
		GREEN		LT-MED GREY APH-F	20,30,45°	LOCALLY W-M 1-3mm		ROCKS
				ASH		CALCITE VEINLETS 0-10°/A		
				CX (PHENOS?) 5-15% DK GREEN		W-M BLEACHED NEAR		
				SER² OR CHL² <1-2mm,		SHEARS/GOUGE.		
				POSS FRAGS?				
				ALSO LOC 1-2% 1mm QTZ EYES				
71.59 TO	AND-DAC	MED GREY	APH-	W-M FOLIATED, CRUDELY	FOL^N	SILICIFIED - PERVASIVE	1-3% DISS FG PY TH-O	
72.23 m	CX T.	-MED/DK	M	LAYERED? AND-DAC CX T.	40°		AVE 1%	
	-SILICIFIED	GREEN		SOMEWHAT SIM TO ABOVE.		W BLEACHED LOCALLY		
	(±LAP T)	-GREY		MX IS APH-VFG SILIC^F	BOT CTC			
				ASH	45° SHEARED			
				CX/FRAGS ARE 5% QTZ EYES				
				<1-1mm @ 71.59-71.79m	LAYERING?			
				& APPEAR TO BE DK GREEN	30-45°			
				<2mm COARSE ASH-3mm				
				LAP T. FRAGS ~10-15%				
				(SIM TO ABOVE)				
				NOTE 3-5% <<1mm LEUCOXENE				
				DISS TH-O.				

HOLE NO 86-5

ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
72.23 TO	FAULT/	MED GREEN	VF-	FAULT/SHEAR IN AND-DAC	BOT CTC	W-S BLEACHED	<1% PY	
73.53 M	SHEAR	-PALE	C	CX TUFF OF ABOVE	?45?			
		WH-GREEN		SANDY CLAY -SER ± CHL		M-S SER ± CHL ± CLAY		
				GOUGE AS PLANES	SHEARS	IN GOUGE/SHEARS		
					30, 60°			
73.53 TO	RHYO DAC	MED GREY	APH-VF	W-M FOLIATED MASSIVE	FOL'N	- VW SER ± CHL	<1-2% DISS PY	PSEUD IGNEOUS Ø TEXTURE
78.33 M	CX TUFF	-SL	MX	REL HOMOGENEOUS LOOKING	25-40°	- MX SILICIFIED ?		
		GREEN		DAC-Rhyodac CX TUFF				WITHO: BCD # 6253
			F-M	GRADATIONAL TO DAC QTZ				74.50 - 77.50m
			CX	EYE CX T. BELOW				
				DISTINCT MOTTLED MX				V SIM TO TOP OF MTS-37
				CX INCLUDE 10-15%				
				GREENISH CLOTS/PHENDS,				
				TR QTZ EYES				
78.33 TO	Rhyo DAC QTZ	LT GREY	APH MX	WEAKLY FOLIATED, MASSIVE	BOT CTC	VW SER²	<1-1% PY	POSS RHYODAC comp'n TOWARD
81.18 M	EYE CX	- BIEGE		DAC QTZ EYE CX TUFF.	40-45°			END OF INTERVAL
	TUFF	± MED	F-M CX	V. HOMOGENEOUS	SHARP	LOCAL CHL ON FRAC		
		GREY						LITHO: BCD # 6254
				5-15% <1-2mm (<1-1 AVE)	FOL'N			78.50 - 81.00m
				QTZ EYES. ROUND - IRREG				
				LENSE SHAPE				
				SIM TO ABOVE UNIT.				

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
81.18 To	DIORITE,	DK-MED	F-M	MASSIVE, EQUIGRANULAR HEMATITIC	BOT CTC	W-M CALC ± QTZ ± HEM VEINS	NVS	LEUCOXENE CONSPICUOUS
85.68 M	(F-MG,	GREEN		M-FG DIORITE.	70-75°			<1mm TAN-ORANGE
	HEMATITIC)	± WHITE		40-50% PLAG	SHARP	HEM TH-O AFTER		GRAINS
				15% LEUCOXENE		MAFICS, ALSO ALONG		
				15% HEMATITE		FRACTURE COATINGS.		HEM ON FRACT'S BRIGHT
				30-40% MAFICS		-VW CHL TH-O.		REDDY BROWN COLOR
				BOTTOM 10cm APPEARS TO				REL. HOMOGENEOUS LOOKING
				BE A VFG CHILLED MARGIN				DIORITE
								LITHO: BCD # 6255
								82.00-85.00
85.68 To	CONGLOMERATE	VARIOUS	VF-	CONGLOMERATE C̄ INTERLAYERED	BOT CTC	VARIABL ALT'N OF INDIVID.	NVS	NOTE LEUCOXENE
104.12 M	- HETEROLITHIC,	GREENS	COBBLE	SANDY SILTSTONE & CARBONACEOUS	?90?	CLASTS IS PRIOR TO		
	WITH MINOR	& GREYS,		SILTSTONE/SANDSTONE. CONG		EMPLACEMENT INTO THIS		
	SANDSTONE	SOME		IS MULTILITHIC C̄ JASPER FRAGS		UNIT		
	& CARBONACEOUS	WH CLASTS		:. FROM CRETACEOUS COMOX FM.	LAYERING	- VW-W 1-5mm CALC		PROBABLY NANAIMO GP
	SILTSTONE			ROUND-ANG, AVE ROUND,	VARIES	VEINS @/A 50°		SEDIMENTS
				MYRA FELSIC-MAFICS +				
				ARGILLITE.	(25-60)			NO FOLIATION BUT
				85.68-87.5: CONG &				SHEAR PLANES NOTED TH-O
				INTERLAYERED SST BEDS				
				87.5-90.7: CONG ~~SST~~ / GRIT				LITHO: BCD # 6256
				/ MINOR PEBBLES				96.00-99.00m
				90.7-91.8m: CONGL.				
				91.8-92.0m: FAULT GOUGE				
				92.0-103.4m: CONGL, C̄				
				MINOR PEBBLY LAYERS				
				103.4-104.12m: COARSE SST				
				C̄ PEBBLE SST LAYERS.				

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ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
104.12 To	FAULT/	LT-MED	VF-M	M-S SHEARED, M FOLIATED	BOT CTC	W-M SER²	1% DISS PY TR-0	
105.97 M	SHEAR	GREY-		DAC-~~AND~~ RHYODAC COARSE TUFF, MINOR	GRAD			
	IN	GREEN		GOUGE.		W-S BLEACHED		
	DAC-~~AND~~ RHYODAC			MINOR LAP SIZE	SHEARS			
	COARSE ASH			FRAGS	60, 20			
	TUFF							
105.97 To	DAC-~~AND~~ RHYODAC	MED-DK	APH MX	W-M FOLIATED MASSIVE	FOL	W SER ± CHL	TR - <1% PY	LITHO: BCD # 6257
108.81 M	OR CX TUFF	GREY -		DAC-~~AND~~ RHYODAC QTZ EYE CX T.	10-15°			106.00-108.50
		SL. GREEN		2-5% <1-1mm GLASSY QTZ EYES,		MINOR 2mm QTZ VEINLETS		
			F-m CX	ROUND	BOT CTC			
					?	- SILICIFIED(?), MOC NETWORK		
						OF VEINLETS		
108.81 To	SAND/CLAY	TAN	CLAY	SANDY CLAY SEAM	-	-	-	
109.01 M	SEAM	BROWN	-SAND					
109.01 To	RHYODAC	LT.	APH VF MX	W-M FOLIATED, REL	BOT CTC	VW ± W SER²	TR PY	
110.53 m	QTZ EYE	GREY		HOMOGENEOUS RHYODAC FINE	?20?			
	CX T./ASH	+	F CX	QTZ EYE CX T.				
	TUFF.	LT-MED		1-2%, <1mm ROUND PINHEAD	FOL'N			
		GREY		QTZ EYES	10-15°			
				POSS DYKE?, THOUGH W-M	(10-30)			
				FOLIATED				

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
110.53 TO	DIORITE -	DK GREEN	VF -	~~MASSIVE~~ WEAKLY FOLIATED	BOT CTC	W CHL	NVS	LOOKS LIKE A LAYERED
111.71 M	DIORITE	$\bar{c}$ PALE	M	CRUDELY BANDED DIORITE/	?15°?			CX TUFF
	BX	GREEN		DIORITE BX. GOOD EQUIGRAN		HEM TH-O		
	(POSS AND	PATCHES		TEX LOCALLY	SHEAR/			STREAK IS WH - RED TH-O.
	CX T)				PSEUDO LAYERING			
					35-40°			
111.71 TO	QUARTZ	MILKY	VF	MASSIVE MILKY WH. QTZ	BOT CTC	QUARTZ VEIN $\bar{c}$	NVS	
112.16 M	VEIN	WHITE		VEIN. IRREG FRAGS +	?	BLK CHL ON FRAC.		
				FRACTURES $\bar{c}$ BLK CHLORITE.				
112.16 TO	SANDY	TAN	F	SANDY CLAY SEAM		—	—	
112.41 M	CLAY SEAM	BROWN						
112.41 TO	FAULT IN	LT GREY-	VF-MX	M FOLIATED, CRUDELY	FOL'N	- W-M SER	NVS	
115.8 M	RHYODAC	GREEN		LAYERED DAC - RHYODAC	35°	- S CHL² OF DYKES		
	QFP F. CX		F-CX	F CX TUFF $\bar{c}$ 20%	LAYERING	- W-M 1-2mm CALC VEINS		
	T.			CHLORITIC CROSSCUTTING	?30°?			
	$\bar{c}$			MAFIC DYKES.				
	MAFIC DYKES			PHENOCRYSTS INCLUDE 2-5%				
	CROSSCUTTING			<1mm QTZ EYES, 10-20%				
				<1mm FP. MINOR (<5%) FELSIC				
				FRAGS (?)				
				MAFIC DYKES 2-10cm THICK,				
				10-30° C/A				

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ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
115.8 TO	RHYODAC	LT GREY	APH-Gm	W FOLIATED, MASSIVE	FOL'N	-TR SER	<1% PY THOUGH	
125.5 M	QP FLOW	-WH.		QFP RHYODAC FLOW E	15°	- VW 1-5mm QTZ	LOCALLY 1-2% PY AS	
	(OR CX T)		F CX	FLOW-TOP BX. V HOMOGEN LOOKING	BOT CTC ?	VEINS	VVFG STRINGERS	
				5-10% QTZ EYES <1-2mm,	80°	- VW CALCITE 1mm	ie) 122.8m: 1mm, PY, C/A 10°	NOTE PY STR CROSSCUTS
				AVE 1mm.		VEINS	123.3m: 2mm, PY-QTZ, C/A 80°	1 GEN^N OF QTZ VEINING
				TR-1% FP, <1mm, NOT DISTINCT			125.7m: 1mm, PY, C/A 15°	
				115.8-120.5: BLOCKY				
				RHYODAC FLOW-TOP BX.				
				SUBANG FRAGS.				
				120.5-126.5: RHYODAC QP				
				FLOW				
126.5 TO	RHYODAC	LT-M	APH-VF	VW FOLIATED, REL HOMOG	BOT CTC	-TR SER	- NVS - TR PY	
134.9 M	QFP CX	GREY	MX	LOOKING RHYODAC QFP	60° IRREG	- SILICIFIED (?)		
	T.		F-m	CX TUFF.	FOL'N			
			CX	QTZ EYES 10-15% (AVE 10%)				
				<1-2mm, (AVE 1mm ROUND)	LAYERING			
				FP PHENOS 10-15% (AVE 10%)	? 50°			
				<1-1mm SUBHEDRAL-EUHEDRAL				
				MINOR <1% FRAGMENTS				
				2mm - 8mm				
				NOTE 5cm THICK CX RICH				

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50% "BED" AT BASE OF INTERVAL.

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
146.36 TO	AND-BASALT	DK	VFG	VW-M FOLIATED, MASSIVE	TOP CTC	M CHL	TR PY	
147.00 M	DYKE	GREEN		AND-BASALTIC DYKE	5°			
					BOT CTC			
					5-10°			
					FOL'N			
					5-10°			
147.06 TO	RHYODAC	LT GREY	AH-MX	MASSIVE, VW-W FOLIATED RHYODAC	BOT CTC	TR-VW SER	NVS-TR PY	
158.66 M	QTZ-EYE	-BIEGE		QTZ EYE CX TUFF. SIM TO	?			
	CX TUFF		F-M CX	ABOVE.		(POSS PATCHY DEVITN SILF)		
	(OR QP FLOW?)				FOL'N			
					5-15			
					(5-40)			

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
158.66 TO	DAC AND	LT-MED	VF-MX	CRUDELY LAMINATED CX-RICH	BOTCTC	W SER ± CHL	NVS	DISTINCT CX-RICH/
160.54 M	CX ± LAP	GREEN		DAC-AND CX TUFF,				CHARGED TUFF INTERVAL
	TUFF		F-C CX	W-MOD FOLIATED	LAYERING			
			± LAP		40			
					(35-50)			
					FOL'N			
160.54 TO							NVS - < 1% PY	
171.13 M								

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ZIPPY PRINT® — BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	Ba ~~P_2O_5~~	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Sr % ~~Alt~~ Zr %	~~Min~~ As ppm	Grid Sb ppm	Total
6251	53.53	56.53	66.48	16.59	1.81	2.27	4.76	1.72	3.99	0.18	0.34	.067	34	34	87	0.7	5	.02	.005	1	1	98.21
AND			SILICIFIED - EP ALTERED																			
6252	58.00	61.00	48.72	15.46	9.82	7.43	3.23	0.27	11.29	0.28	1.26	.024	99	42	21	1.3	10	.03	.005	1	1	97.81
DIORITE																						
6253	74.50	77.50	66.84	17.78	0.47	1.09	3.37	3.57	4.42	0.04	0.39	.111	4	21	11	0.4	3	.02	.007	4	2	98.09
* DAC - AND T.																						
6254	78.50	81.00	70.12	16.58	0.71	0.74	3.74	3.21	2.57	0.02	0.36	.114	7	11	7	0.3	3	.02	.005	3	1	98.18
RHYODAC QTZ-EYE			CX TUFF.																			
6255	82.00	85.00	49.76	16.26	4.92	4.30	2.03	1.62	14.43	0.22	2.58	.027	75	82	27	1.1	5	.02	.009	1	10	96.17
DIORITE																						
6256	96.00	99.00	60.18	14.63	4.74	3.19	0.92	2.26	9.96	0.23	1.60	.050	86	78	30	1.0	10	.02	.005	1	7	97.78
*Sst - CONG																						
6257	106.00	108.50	70.61	15.86	0.21	0.85	2.59	3.50	3.88	0.04	0.40	.077	16	33	5	0.4	3	.02	.005	4	2	98.02
DAC - AND CX TUFF																						
6258	132.00	135.00	66.00	18.01	1.14	2.40	3.21	3.49	3.30	0.08	0.38	.075	20	49	7	0.8	3	.02	.009	1	1	98.10
6259	160.60	163.60	69.44	15.19	0.53	2.04	3.15	3.96	3.26	0.04	0.35	.075	6	29	5	0.4	5	.02	.005	1	1	98.07
6260	188.00	191.00	69.85	14.80	1.27	1.00	3.20	4.80	2.80	0.06	0.34	.079	18	21	4	0.5	5	.02	.005	1	1	98.22

Hole No. 86-5 Entered by _____ Logged by M.J. GRAY Page No. 1 of 2

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM (m)	TO (m)	SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	~~P_2O_5~~ Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	~~Rock Type~~ Sr %	~~Alt~~ Zr %	Min As ppm	Grid Sb ppm	Total
6261	215.5	218.5	66.87	15.35	2.79	1.27	3.92	3.65	3.68	0.13	0.38	.076	11	36	6	0.8	3	.03	.005	1	1	98.14

Hole No. 86-5 Entered by _____ Logged by M.J. GRAY Page No. 2 of 2

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2 / 55	Ba ~~P_2O_5~~	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	~~Rock Type~~ As	~~Alt~~ Sb	~~Min~~ B	Grid	Zr %
6251	53.53	56.53	66.40	16.59	1.81	2.27	4.76	1.72	3.99	.18	.34/.02	.067	34	34	87	.7	5	1	1	10		.005
AND- SILICIFIED																						
6252	58.00	61.00	50.59	16.05	10.20	7.71	3.36	.28	11.72	.29	1.31/.03	.025	99	42	21	1.3	10	1	1	21		.005
6253	74.50	77.50	60.84	17.78	.47	1.09	3.37	3.57	4.42	.04	.39/.02	.111	4	21	11	.4	3	4	2	7		.007
6254	78.50	81.00	70.12	16.58	.71	.74	3.74	3.21	2.57	.02	.36/.02	.114	7	11	7	.3	3	3	1	7		.005
6255	82.00	85.00	49.76	16.26	4.92	4.30	2.03	1.62	14.43	.22	2.58/.02	.027	75	82	27	1.1	5	1	10	29		.009
6256	96.00	99.00	60.18	14.63	4.74	3.19	.92	2.26	9.96	.23	1.60/.02	.050	86	78	30	1.0	10	1	7	25		.005
6257	106.00	108.50	70.61	15.86	.21	.85	2.59	3.50	3.88	.04	.40/.02	.077	16	33	5	.4	3	4	2	6		.005
6258	132.00	135.00	66.00	18.01	1.14	2.40	3.21	3.49	3.30	.08	.38/.02	.075	20	49	7	.8	3	1	1	8		.009
6259	160.60	163.60	69.44	15.19	.53	2.04	3.15	3.96	3.26	.04	.35/.02	.075	6	29	5	.4	5	1	1	6		.005
6260	188.00	191.00	69.85	14.80	1.27	1.00	3.20	4.80	2.80	.06	.34/.02	.079	18	21	4	.5	5	1	1	3		.005

Hole No. 85-5 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM (m)	TO (m)	SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	~~P_2O_5~~ BaO	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	~~Rock Type~~ As	~~Alt~~ Sb	~~Min~~ B	Grid	Zr %
			MAJOR OXIDES										TRACE ELEMENTS									
6261	215.50	218.50	66.87	15.35	2.79	1.27	3.92	3.65	3.68	.13	.38/.03	.076	11	36	6	.8	3	1	1	3		.005

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND