BALL CREEK

800627
104G

SHEET No. 1

J. R. WOODCOCK CONSULTANTS LTD.

PROPERTY: BALL CREEK
CLAIM No.:
COORDINATES:
ELEVATION: 807.0m (2648 ft.)

HOLE No.: 80-2
BEARING:
DIP:
LENGTH: 551.7m (1810')
DIAMETER: NQ to 268.2m (880'); BQ to 551.7m

DRILLED BY: Lyons Diamond Drilling
STARTED: Aug 27, 1980
TERMINATED: Oct. 19, 1980
LOGGED BY: D. Gorc

abbreviations - py. - pyrite; qtz. - quartz, chalco. - chalcopyrite, gal. - galena, sphal. - sphalerite, diss. - disseminated; sphal. - sphalerite; adj. - adjacent

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
0	5.5m			Over burden - casing							
5.5m	>95% unless noted		4.5m 7.7m 10.0m 14.7m 19.1m 20.2m 26.0m 27.1m 28.6m 36.1m 40.9m 41.7m	Andesitic Pyroclastics - unit variable in colour predominately dark in colour; darker brown sections are hornfelsed; hornfelsing is localized and variable; fairly abundant foreign clasts; clasts are volcanic and intrusive porphyry?; clasts often have blurred edges; py-epidote veinlets with or without magnetite are very common and often abundant; py content is med(+) to high(-); small amounts of very thin whitish bleaching (.2cm) adjacent to some veinlets; small rounded concentrations of white quartz?? present; Note: bleaching is later than hornfelsing; in addition to the bleaching short sections are altered to medium greyish colour (dolomite-diopside alteration); a few sections of core almost black in colour; core is slightly magnetic; 10.4m. alteration zones adjacent to veins getting thicker (~1cm) and more abundant.	B2-1	6.0	9.0m				
	Cont'd			11.3-12.0m - thickest zone of greyish alteration so far; contains 2cm wide carb vein with small amounts of galena @ 11.6m							

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Hole No. 80-2 Logged By D. Gorec Date Sept. 8, 1980 Sheet No. 2

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd.				14.6-14.9 breccia containing volcanic clasts with high(f) py.; lower contact sharp @ 18°, bounded on each side by greyish bleaching. 13.9 to 14.6m and 14.9m to 15.2m.							
				12.7m - mdy in qtz. vein.							
				15.7m - unit becomes as a whole darker.							
				18.6m - carb vein (.5cm) with small amounts of chalco.; start of zone of ~~bleaching~~ alteration; not completely altered with fragments of dark brown hornfels occassionally present; altered rock med. grey in ~~co~~ colour with a slight brownish tinge at times; py. content is high; both diss. and along fractures; unit as whole is quite hard; epidote often associated with py.;	22-2	18.6m	21.6m				
				19.0m - 3cm wide carb. vein @ 18° minor sphal.							
				19.2m - 1cm qtz vein between hornfel and thin feldspar porphyry ~~dikelet~~ dikelet (19.0-19.2m); carbonate vein adjacent to qtz vein							
				NOTE: many veinlets are compound veinlets with alternating layers of ~~with~~ carbonate and qtz.; so far core has been quite broken up with numerous 1cm to 3cm thick carbonate veins, a pinkish tinge in some carbonate veins; many of the carbonate veins are vuggy with qtz. crystals having grown in the vugs.							
	cont'd										

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Hole No. 80-2 Logged By D.Gorc. Date Sept. 9, 1980 Sheet No. 3

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				moly. in qtz veins @ 21.4m, 22.8m, 23.0m.							
				22.0-22.6m strong structure with carb.-qtz infilling.							
				zone of alteration ends at 23.5m.							
				23.5m - rock returns to appearance ~~before alter~~ before alteration zone; dark coloured pyroclastics with some sections blackish; many veinlets have thin zone of light brown to whitish bleaching along side; py.-epidote veinlets present; unit only slightly magnetic; pyrite content is moderate(+)							
				24.3 m to 24.8 m - core badly broken up; core all in small pieces to 2cm.							
				23.5-26.0 - notice more abundant foreign clasts including a few intrusive porphyry clasts; clasts to (.5cm)							
				26.8-27.6 - intensely altered zone; med. grey in colour; high(+) diss. py.; (contains altered dikelet (at 26.8 m??)							
				27.6-28.2 m - thin zones of greyish alteration to 3cm adjacent to some veinlets.							
				28.2-32.2 - pyroclastic conglomerate; matrix is dark brown to near black, fine to med. textured; unit is characterized by numerous rounded to subangular clasts; clasts							
	cont'd										

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Hole No. 80-2 Logged By D. Gore Date Sept. 9, 1980 Sheet No. 4

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				to 2cm; some clasts appear to be partially altered to epidote; epidote-py veinlets are common; 28.2-31.3 - core almost black with significant amounts of magnetite; core very magnetic; pyrite content seemingly diminished to low (+); no evidence of alteration							
				31.3 - unit has hornfelsed appearance; py content returns to moderate (+); core only occasionally magnetic; thin zones of alteration begin reappearing; zones very thin though (< 1cm)							
				32.2m-44.9 - ~~clasts~~ foreign clasts still present but very much reduced in number; thin zones of greyish alteration to 2cm adj. to creamy veinlets; py content is moderate (+) rising to high in altered zones; rock predominately dark brown in colour; core is quite magnetic; texture is fine grained to med. grained; pyrite-chlorite veinlets present.; altered zones 32.2m to 33m, 35.4m to 37. mod.; ~~pyrite-chlor~~							
				32.7 m - 3 cm carb vein @ 35°; 3 cm alteration zone adjacent.							
	cont'd			35.5m 3 cm carb vein @ 35° near start of ≈ 2m. zone of alteration							

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Hole No. 80-2 Logged By D. Gore Date Sept. 9, 1980 Sheet No. 5

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				37.0-39.0m - patchy irregular alteration; most of core is med.-grey with 10cm. patches light greenish; such patches contain more abundant epidote;	B-2-4	41	44				
				39.2-41.7m - zone of more abundant clasts of foriegn rock							
				44.2-44.9 - strongly altered. & ~~pale~~ pale greenish to light brownish.							
	44.9										
44.9	~~48.4~~		45.1	Feldspar Porphyry (barren). sharp upper contact @ 50°; matrix med. grey in coloured; ~~aphanitic~~; abundant large white feldspar phenos.; abundant small black hornblende phenos.; py content is moderate; ~~very small~~ core only occasionally magnetic; epidote-pyrite and chorite py veinlets are noted;							
	48.4										
~~48.4~~											
48.4	53.3			Altered ~~Reworked~~ Pyroclastic - rock altered to dolomite - diopside; med. grey in colour; ~~characterized by abundant fractures with abundant irregular white carbonate infillings - such veining~~ extends to edges of clasts very blurred and indistinct, most of original texture is lost; epidote-pyrite and ~~calcite~~ veinlets noted; 48.8m and 50.1m - fault gouge.							

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Hole No. 80-2 Logged By D. Gore Date Sept. 9, 1980 Sheet No. 6

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
53.3	56.1			Andesitic Pyroclastic - ~~characteri~~ dark brown in colour; very brown up from 53.3 to 53.8.				
56.1	65.6			Andesitic Pyroclastic and Altered Pyroclastic. 56.1 - 60.9 m - at least partially altered; med grey predominates; much of original texture is lost; to 57.5 m core is very fractured with abundant irregular white carbonate veins; pyrite-epidote present but diminishing; may perhaps be small patches of ~~silifica~~ silification. 60.9 - 65.6 m - contains zones which appear hornfelsed; fairly well fractured with numerous carbonate veins some of which are ruggy; epidote-pyrite veinlets present some with magnetite; py. content is high(-); a blackish, metallic, non-magnetic mineral along some carb. veins (ex. 64.1 m)	B-25	55.0	58.0 m	
65.6			69.1 m 70.4 m 67.1 m 67.7 m	Altered Feldspar Porphyry, light grey to medium grey; completely altered but original texture still visible; pyrite content is high(-) in fractures and diss.; a few sections to 1 metre are more intensely altered with original texture obliterated; qtz. veining	B-26 B-27	65.6 72	68.0 m 75 m	3.00 4.48 6.25
	Cont'd							

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Hole No. 80-2 Logged By D. Gore Date Sept. 9, 1980 Sheet No. 7

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				becoming more abundant; ~~many~~ several veins with small amounts of moly.; some chalco. seen diss. throughout rock, not abundant but commonly seen; some moly. paint along some fractures. 67.4 m - light green translucent mineral (fluorite)							
				moly in qtz. veins - 69.4, 71.5, 72.0 m							
				From 72.0 to 76.1 approximately 37 veinlets with moly.							
				moly paint or diss. moly ?? @ 67.1, 67.7, 66.8 m							
				a few carbonate veins have pinkish tinge							
				note: no longer see epidote							
				~~Sphalerit~~ Sphalerite with chalco. and pyrite in veins (ex. 71.8m)							
				Note: many veinlets are compound veinlets with a carbonate vein bounded by silica veinlets, with seperate sulphide horizons within the silica veinlets; 72.5 to 76.1 m could be classed as qtz stockwork; stockwork very regular with all veinlets subparaleled @ 45° to 50°							
	76.1m										

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Hole No. 80-2 Logged By D. Gore Date Sept. 10, 1980 Sheet No. 8

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
76.1.	~~84.0~~		77.0	Altered Pyroclastic; seemingly intensely altered; predominately light to med. grey. with significant sections having a light brown tinge; important to note that quartz veining is dramitically reduced from that of above unit; abundant quartz veining ends abruptly at intrusive contact; epidote again appearing mainly with py.; epidote present only in very small amounts and not nearly as abundant as first part of 80-2; py. content is high, diss. and along veinlets; veinlets @ 45° to 50							
			78.8	78.0m - noticing a few blush qtz veins with moly; some moly ~~along~~ paint along fractures to 80.4m.	B-2-8	78.0	81.0m				
				Note: most of original texture lost but one can often see outlines of former clasts;							
	84.0			a few horizons (10-20cm) of new conglomerate							
~~84.~~											
84.0			86.2	Andesitic Pyroclastic: predominately med. brown in colour with many horizons having hornfelsed appearance; significant amounts (10%??) is altered to med. grey; ~~not~~ alteration							
	cont'd										

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Hole No. 80-2 Logged By D. Gore Date Sept. 11, 1980 Sheet No. 9

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	~~DELTA~~ ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				of dolomite-diopside type; epidote-py present but not commonly; qtz veinlets but not abundant; occasionally magnetic; py content high(-) to high; less, and in fractures. Number of py. veinlets reduced but still abundant; moly in qtz vein @ 87.4m.							
			90.4	Some thin zones of alteration along some veinlets (ex 90.4m); bleached to very light brown to grey.							
			94.1	By 88.6 m alteration zones very much reduced and limited to above thin zones (1cm) adjacent to veinlets and a very few zones of alteration to 1 metre thick. more of rock now has hornfelsed appearance; original feature becomes much more distinct with many foreign clasts; some horizons (to 1 metre) have abundant clasts; aphanitic and porphyritic clasts noted; pyrite veinlets noticeably reduced from first part of unit; py content also noticeably reduced; at best mod(-).	B2-9	89	90.5				
	Cont'd			90.5-93.8 - several qtz-carb. veins with localized alteration adjacent.							

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Hole No. 80-2 Logged By D. Gore Date Sept. 11, 1980 Sheet No. 10

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd			~~93.7~~	~~92.5~~ 92.1 m - 20cm wide qtz vein (adj. silicified zone?)							
	95.1		93.7	some dark veinlets. @ 93.7							
95.1			95.4	Altered Pyroclastic - intensely altered by dolomite-diopside alteration; py content is low (1) to moderate ~~to 1~~ (average of 1 out); very few pyrite veinlets; very small amounts of pyrite-epidote; few qtz. veins; few clasts seen; most of original texture obliterated.	B-2-10	95.1	97.1				
	99.0 m										
99.0 m				Andesitic Pyroclastic predominately dark to med. brown with lesser much thinner zones altered to ~~by dolomite-diopside alteration~~ to med. grey; a subtle greyish to greyish-green tinge to the unaltered rock; foreign clasts (aphantic and porphyritic) are common and often abundant along short horizons; clasts subrounded to 2cm; short horizons may be hornfelsed; py. content Low(1); diss. and along fractures; py. veinlets present but not ~~abundant~~ common; epidote-py is present but not common; qtz. veins							
	cont'd										

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Hole No. B-2 Logged By D. Gore Date Sept. 11, 1980 Sheet No. 11

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				are present but very few in number; core is slightly magnetic; some minor greyish bleaching alongside some fractures; a few ~~short~~ thicker sections to 10cm are altered to med. grey and contain mod(+) pyrite; some silification adjacent to some qtz veinlets?							
	104.4										
104.4m			110.1	Altered Pyroclastic light to med. grey in colour; veining @ 30° to 45°, 107.4 - 109.4 m - rock strongly fractured; abundant jagged irregular carbonate veins; some minor amounts of galena, a few white qtz veins; a few py. veinlets.	B-2-11	105	108				
	110.4										
110.4			113.6	Silicated Pyroclastic unit is ~~110.4m - unit changes appearance somewhat; becomes~~ multicoloured; irregular colouration with light greens; dark browns and med. greys; unit is slightly silicated; also note ~~very~~ small amounts of garnet and some po pyrrhotite; ~~locally abundant~~ po; ~~and garnet~~; occasional small amounts of galena and sphalerite; 115.2m - 1cm thick py-po. vein 111.6m small amounts of sphalerite in vein							
116.0	116.0			113.2 - 114.5 m - pyroclastic breccia conglomerate; abundant clasts to 3cm.	B-2-12	113	116				

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Hole No. 80-2 Logged By D. Gore. Date Sept. 12, 1980 Sheet No. 12

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
116.0			122.2	Altered Pyroclastic - 115.8 to 122.9m - core. very fractured and broken up; cut by abundant, jagged irregular carb veins; rock is somewhat softer than usual; rock is predominantly light grey with some localized tinges of light brown; thin zones (to .5cm) of more intensive bleaching adjacent to some veinlets							
				126.1-126.4 m - qtz-carb-py vein including 5 cm. of massive py.							
				very minor amounts of epidote.							
			132.4	127.1 m - rock changes to distinctive very	B-2-B	127.7	128.2				
			132.6	light grey colour; rock is quite hard;	2-214	129.8	131.				
				clasts slightly smaller than usual; no porphyrytic clasts noted; clastic nature of rock easily seen on a fresh surface; a few quartz ~~phenocrysts~~ crystals present?; some sections are medium grey with brownish tinge; epidote seen but not that common; pyrite generally low to low(+) with very few py veinlets; instead several thin zones (10-20cm) containing high(+) class py + pyrrhotite are common; such zones range from 2% to 15% sulphide; sulphide zones (127.7-128.2m ≈ 10% py+po), (131.6-131.9 ≈ 2% py+po; 132.5-132.6 ≈ 2% py+po							
cont'd											
133.6											

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Hole No. 80-2 Logged By D. Gac Date Sept. 12, 1980 Sheet No. 13

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
133.6			~~141.9~~ 135.4 136.8 141.9	Andesitic Pyroclastic; dark brown fine grained matrix; abundant aphanitic and porphyritic clasts; some sections hornfelsed; a few short sections (to 1m) altered to light grey; note that pyrrhotite often found within in altered sections and not in unaltered sections; pyrite content low to low(+) with very few py veinlets. 139-145.3m - unit becomes more multicoloured; predominately grey; clasts are larger (some intrusive clasts?); irregular blotchy colouration; py content about moderate but still few py. veinlets; pyrrhotite very common; some chalco. noted but not common (ex. 142.6m); short horizons (to 10cm) with high(+) py + po. (ex. 142.3-142.4); over short sections unit is finely laminated (Spec 141.9).	B2-15	138	139				
	145.3										
145.3			148.5 160 162.5	Transition Zone - Andesitic Pyroclastics and Silicated Pyroclastics ~~145.3-148.5~~ predominately dark to med. brown andesitic pyroclastics with short horizons altered light grey; clasts are abundant aphanitic and porphyritic; altered sections characterized by concentrations of pyrrhotite.							
	cont'd										

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Hole No. 80-2 Logged By D.G.C. Date Sept. 12, 1980 Sheet No. 14

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd	~~168.3~~			Sulphide content is low (+) to mod.(-).	B-2-16	152.0	155.0m				
				154.5m number of clasts and size of clasts seem to be increasing slightly							
				151.5 - 157 alternating thin zones (to 20cm) of andesitic and altered pyroclastics							
				160.0 m - pinkish tinge within some carb. veins.							
				162.6m - unit very dark grey in colour; most of core slightly magnetic; number of clasts still abundant; Number and size of clasts again have increased slightly; very small amounts of epidote; small amounts of chlorite							
	~~169.3~~			168.0 - number of clasts diminishes greatly	B-2-17	162.0	165.0m				
				168.2-168.6 - altered section - light grey							
				168.8-169.5 - altered section - light grey; brecciated appearance with abundant angular clasts							
		168.3-175.3		Silicated Pyroclastic - multicoloured with intermixed light greens and greys; number of clasts greatly diminished from above; ~~168.2-168.6 brecciated with abundant angular clasts~~							
~~168.3~~				168.8-169.5 - brecciated with abundant angular clasts							
	cont'd										

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Hole No. 80-2 Logged By D. Gove Date Sept 12, 1980 Sheet No. 15

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				169.4-169.5 - abundant angular clasts							
				170.3-172.8 - slightly brecciated							
				171.7-172.3 - abundant pyrrhotite along fractures; large po. concentration @ 171.3m.							
				173.7 m - 2cm of massive po.							
	175.3			175.1-175.3 - 25% po.							
175.3			177.3	Andesite Porphyry - matrix med. grey; fine grained; abundant white feldspar phenos. to 1cm.; most phenos are .5cm or less; slight alignment of phenos.; unaltered; low pyrite content; upper contact sharp @ 25° core angle; a few dark coloured foreign clasts; core slightly magnetic; no epidote seen; some hornblende phenos chloritized; lower contact sharp @ 80°	B-2-18	176	179.				
	179.5										
179.5			188.0	Silicated Pyroclastics and lesser silicated Crystal Tuffs multicoloured with intermixed greys and greens; green probably due to diopside; unit differs from other silicated units in that no garnet was noted; numerous short sections to 20 cm. contain 2% po; pyrrhotite much more abundant than py.; low(+) to perhaps moderate py + po	B-2-19	185.0	188.0				
	cont'd										

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Hole No. 80-2 Logged By D. Gorc Date Sept. 12, 1980 Sheet No. 16

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd			192.8	no epidote seen; minor amounts of chlorite veinlets,							
			202.2	a few gypsum veinlets ??; contains	B2-20	198	201				
				several horizons of silicated crystal							
				tuff to 30 cm; crystal tuffs are porphyritic							
				with abundant white feldspar and lesser							
				hornblende? phenos.; phenos. are very small (<.5 cm)							
				a few foreign clasts but not many; no							
				epidote seen; no py veinlets a few pyrrhotite							
				veinlets.							
				By 195.8 m - very little andesitic pyroclastic remaining							
				198.5-198.7 m - 5% pyrrhotite							
				199.1-199.3 m - massive pyrrhotite with minor							
			204.6 m	pyrite; slightly vaggy							
				199.3-199.5 m - 1% pyrrhotite							
				200 m - blacklish colouration along fracture							
				200.3-200.5 m - massive po with minor carb. tpy							
				200.7 m = 2 cm pyrrhotite vein. minor chalco.							
				201.3-201.6 m - 5% pyrrhotite							
				204.4-204.6 m - massive po. vein. @ 30°	B-2-21	210	213				
				Note: Still seeing occasional black colouration							
				along some fractures							
				202.8 m - matrix becomes finer grained; occasional							
	cont'd			greyish bleaching along some py. veinlets.							

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Hole No. 80-2 Logged By D. Gorc Date Sept. 12, 1980 Sheet No. 17

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd			208.0	207.5 m - clasts become much more abundant							
			213.0	with clasts subrounded to 4cm with							
				most less than 2cm.; unit becomes paler in							
				colour; matrix ~~less fine~~ more coarsely							
				grained; see a few py. veinlets most of							
				which a thin zone of greyish alteration							
				along side; py veinlets becoming more							
				common but po. still the ~~dominant~~ primary sulphide;							
	217.8			notice minor amounts of epidote and chlorite.							
217.8	222			Feldspar Porphyry (barren) - light grey ~~aphanitic~~	B-222	219	222				
				fine grained matrix with small white							
				feldspar and hornblende phenocrysts; py. content							
				is moderate (-); sharp upper and lower							
				contacts; lower contact @ 90°; few py.							
				veinlets; minor epidote; many hornblende							
	222.4			phenos. chloritized.							
222.4			223.8	Silicated Pyroclastic - similar to previous							
				sections of silicated pyroclastics; multicoloured							
				with pale greens predominating; abundant							
				clasts to 5cm; aphanitic + porphyritic clasts;							
				py + po. content varies but generally mod(+)							
				with again short sections with high(++)							
	cont'd			sulphide; a few py veinlets.							

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Hole No. B1-2 Logged By D. Gore Date Sept. 12, 1980 Sheet No. 18

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				224.6-225.2 m 2% po. and py (pred. po.)							
				226.7-227 m - 25% po. and py.							
	230.4			227.4-227.6 25% po. and py.							
230.4				Crystal Tuff - sharp contacts with underlying and overlying units; light grey colouration; abundant small feldspar and hornblende phenos.; moderate(+) py. diss. and along fractures; few py. veinlets; ~~an~~ a few ~~horizons~~ foreign clasts in first 1 to 2 metres; some thin zones of greyish bleaching along some veinlets; a few black qtz. veinlets; seemingly only slightly silicated.	B-2-23	232	235				
	235.1										
235.1			237.3	Andesitic Pyroclastic - predominately dark brown in colour, with small amounts of greyish altered pyroclastic; some horizons have hornfelsed appearance; clasts quite numerous but smaller than usual (to 1cm); clasts aphanitic and porphyritic; no epidote; minor chlorite veinlets; pyrite content is low(-); core is slightly magnetic							
	241.4 ~~235.5~~										
241.4				Silicated Pyroclastic - not strongly silicated; multicoloured with ~~black~~ colours predominating; no epidote seen; minor chlorite							
	241.4										

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Hole No. 80-2 Logged By D. Gorc Date Sept. 12, 1980 Sheet No. 19

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
241.4				Crystal tuff. - light greens predominant with some sections)				
				Silicated Pyroclastic - dark coloured, not strongly silicated; contains some short horizons of crystal tuffs; clasts of crystal tuff also present; pyrite content mod(4) to high(6); small occasional concentrations of brown garnet (ex 243.1m); 246.0m - some epidote along veinlet.				
				241.0 m - py. veinlets becoming slightly more numerous				
				248.5 m - 22cm qtz. vein with 5% po.				
				Note: by 247.0 m noting a few more qtz. veins but still few in number; some thin zones of greyish bleaching (<1cm adjacent to many veinlets				
	250.0							
250.0			257.6	Silicated Pyroclastic - much more strongly silicated; unit is much lighter coloured; again multicoloured with light pale greens and greys predominating; wider zones of greyish bleaching adjacent to veinlets; all types of clasts fine gr. pyroclastic clasts to porphyritic clasts; very minor epidote; some chlorite veinlets	B-2-25	258.0	261.0m	
	cont'd							

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Hole No. 80-2 Logged By D. Gore Date Sept. 20, 1980 Sheet No. 20

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd			260.3	252.4 m - silication seeming increases; short sections (to 20 cm) contain 1%-5% po with occasional magnetite also associated (ex. 257.4 m); several massive po veins to 15 cm also noted; sections of core have slight brownish tinge; some foreign clasts noted; unit as a whole is quite hard; most of core is slightly magnetic; only minor bleaching adjacent to some veinlets; pyrrhotite seems to be predominant sulphide but py. also present; sulphide content Low (+) except for short horizons of high (++); number of fractures more abundant than usual but noticeably reduce in number after 259.0 m.							
				259.0 m - still see a few qtz veinlets ~~with py or po~~ and py. or po. veinlets but few in number.							
				264.0 core very broken up; small structure??							
				264.5 - 3 cm zone of po. ~~py~~ and py. with minor chalco.							
				264.5 - 266.0 - unit is dark coloured	B-2-26	270	273				
				* 268.2 - end of NQ core, beginning of B.Q. core							
	cont'd			268.5 - 269.2 m - small amounts of light brown garnet.							

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Hole No. 80-2 Logged By D. Gorec Date Sept. 20, 1980 Sheet No. 21

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
cont'd				268.5 - amount of greenish tint increases; small amounts of brownish garnet to 274.8m; significant widely scattered concentrations of pyrrhotite.				
	274.8							
274.8			275.0	~~Lamp~~ Basic Dyke - could be lamprophyre??;	8-2-27	277	278.5 m	
			276.1	matrix is fine textured; very dark coloured with very dark browns and dark greens; unit quite soft easily cut by knife; sharp upper contact; ~~274.8-275.9m~~ 274.8-275.9m - very dark brown, fine grained matrix with numerous blebs to .5cm of white calcite; 275.9m - unit becomes dark green and more coarsely grained; py content is low(-) to trace.				
	~~274.7~~ 274.7			274.3m - unit again becomes fine grained sharp lower contact.				
~~274.7~~ 274.7			280.6	Silicated Pyroclastic - strongly silicated;	8-2-28	282	285 m	
			283.3	core has predominately shades of pale green (diopside?); small widely scattered concentrations of very pale brown to yellow brown garnets short sections (to 20cm) with high (+) po.; no epidote seen; abundant				
	cont'd							

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Hole No. B-2 Logged By D. Gove Date Sept. 20, 1980 Sheet No. 22

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				clasts present both fine grained pyroclastic and porphyritic; unit quite hard; light brown alteration, mineral ~~auth~~ often associated with high po. zones;							
				283.4 - 283.7m - 5% po.; black oxidation mineral present on fracture surfaces							
				283.7 - 284.4m 1% po							
				285 - 285.6m - 5% po							
			290.4	290.1 - first appearance of med. dark ~~chocolate~~ chocolate brown hornfel; much of hornfel altered light gray; strongest hornfel continues to 291.6m. but smaller zone continue to end of unit.	B-2-29	293	296				
	296.9			292.0 m 2cm po. vein @ 70							
296.9			297.1	Andesite Porphyry - abundant small white feldspar phenos to 1cm; definite alignment of phenos @ 65°; matrix fine textured, medgrey; small black hornblende? phenos; dark coloured fine grained foreign clasts of volcanic common but not abundant; core is quite magnetic; py content is trace to low(-); no py or po veinlets							
	cont'd										

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Hole No. 80-2 Logged By D. Gore Date Sept. 20, 1986 Sheet No. 23

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				Seemingly unaltered;	B230	300	303				
				299.0m - interesting alignment of feldspar phenos. around clast.							
				300.0 - occasional larger phenos to 2 cm begin appearing; locally, some hornblende phenos. chloritized.							
				Sharp upper and lower contacts; lower contact @ 45°; 1 cm reaction ~~zone~~ edge on either contact!							
	303.2										
303.2			307.6 305.0	Silicated Pyroclastic - intermixed pale green and light grey; short zones of brown hornfel to 306.6 m; again characterized by many short zones of high (++) po + py; most of core quite magnetic; foreign clasts to 3 cm quite common; sulphide content (py + po.) averages L(+) but locally high (+A)	B231	306	309				
				309.5 - 311m - 5% po + py (pred. po.)							
				309.0m. - 3cm horizon of mudstone?? dark brown; extremely fine textured							
	cont'd			311.5m - small amounts of pale brown garnet begins appearing							

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Hole No. 80-2 Logged By DiGorc Date Sept. 20, 1980 Sheet No. 24

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				316.3-316.9 m - 2% po; abundant po veinlets	B-2-32	318	321				
				316.9-317.9 m - 1% po							
				318.1 m - small amount of epidote?							
				318.6-319.1 m - 5% po; also pale brown garnet.							
				319.6 m - 6 cm zone of dark brown mudstone.							
				322.-322.5 - small structure?? - core very fractured and vuggy; abundant carbonate							
	323.2			infilling and 5% po.							
323.2			325.7	Feldspar Porphyry (barren) - matrix light grey, ~~cont~~ fine grained with abundant white feldspar phenos; slight alignment to phenos; far fewer hornblende phenos most of which chloritized; Low(+) to moderate(-) py + po; a few po veinlets; seemingly unaltered; a few thin zones of ~~horizons~~ breccia (ex 325.7 m)??; sharp upper and							
	327			lower contacts							
327			332	Silicated Pyroclastics - intensity of silication	B-2-33	330	333				
			334.9	varies; where intensely silicated light greens							
			358.3	and lightgreys predominate otherwise							
				darker greys to browns dominate.							
				327-339.9 m - not intensely silicated many							
	cont'd			sections have darkish brown appearance; clasts							

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Hole No. 80-2 Logged By D. Gore Date Sept. 20, 1980 Sheet No. 25

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd.				fairly abundant; only small amounts of pyrrhotite; core is magnetic; locally short horizons are hornfelsed (ex 339.9m); widely scattered small concentrations of brown garnet (2 1 per metre); very minor amounts of epidote, ~~small amou~~ a few chlorite veinlets; sulphides seem to be primarily py. with lesser po.; sulphide content moderate (3); some veinlets have thin zones of greyish bleaching along side;							
				338.9 - 339.4m - more intensely silicated; predominately light pale green to light grey; not many thin horizons of high (4) po+py; very few sulphide veinlets;							
				335.9m - number of clasts increasing							
				337.9 - 339.6m - much lighter coloured; ~~predominately~~ with moderate po+py.							
	339.9										
339.9			341.4	Dark Brown Siltstone to Mudstone - very fine grained; uppermost part of unit contains abundant clasts to .5cm which grades quickly to fine grained siltstone or mudstone with depth; unaltered; only trace py.							
	341.4										

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Hole No. 80-2 Logged By D. Gorc Date Sept. 20, 1980 Sheet No. 26

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
341.4				Silicated Pyroclastic - matrix fine grained; intermixed light gray and pale green; abundant foreign clasts (~~cp hemat~~ fine-grained pyroclastic and porphyritic); moderate py+po pred. po.; short horizons of high (++) potpyquith minor chalcop; occasional concentrations of light brown garnet; core quite magnetic; some greyish bleaching along some veinlets.	B2-34	342	345				
	344.5										
344.5			345.4	~~344.5 - 345.5~~ Mudstone - dark brown to very dark grey very fine gr. siltstone to mudstone; some horizons finely laminated; a few thin horizons 1-2cm of altered pyroclastic? sharp upper and lower contacts @ 75°.							
	345.5										
345.5				Silicated Pyroclastic - identical to 341.4 - 344.5m section; 356.2 - 356.5 m - 10% po + black magnetite + carb.	B2-35	354	357				
				357.1 - 357.6m - porphyritic crystal tuff; abundant small (<<.5m) feldspar phenos, lesser and smaller stiff black phenos (hornblende?) sharp upper contact @ 70° ; silicated							
				359.4 - 359.6 - 3% po							
				360.9 - light brown garnet concentration; high (++) po							
				361.9 - light brown garnet							

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Hole No. 80-2 Logged By D Gore Date Sept. 20, 1980 Sheet No. 27

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				364.3 - vuggy cavities lined with py. crystals	B-2-36	366	369				
				367.6-367.8 m - chocolate brown hornfel.							
				369.8 - 10cm of laminated mudstone; dark brown							
				Note: some minor bluish bleaching along a few veinlets; a few py veinlets, some minor amounts of epidote.	B-2-37	377	380				
			377.0	377.0, 377.5, 378.2 m - steel blue metallic mineral in qtz veins.							
				381.7 m - 3cm of finely laminated dark brown mudstone							
			382.1	382-383 - concentrations of light brown garnet and high(H) py+po							
	383.1										
383.1				Siltstone to mudstone - dark brown to very dark brown; minor epidote							
	384.5										
384.5			384.3	Basic Dyke? very dark brown, near black; fine grained matrix; numerous but not abundant white feldspar phenos; slightly magnetic; py content low(L) to moderate(M)							
	389.1			Sharp upper contact; indistinct lower contact							

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Hole No. 80-2 Logged By D. Gove Date Sept. 20, 1986 Sheet No. 28

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
389.7				Silicated Pyroclastic (lesser silicated crystal tuff) ~~with short horizons of~~ ~~Sil~~ identical to unit 341.4-349.5m;	B2-38	393.2	396.2m	
				392.1-393.2 ~~cryp~~ porphyritic crystal tuff; abundant very small ~~feld~~ white feldspar phenos (<0.5cm), lesser hornblende phenos, some of which are chloritized.				
			395	393.4-396.7 - patchy sections of dark brown hornfel.				
	394			398.1-398.8 - silicated crystal tuff; abundant very small white feldspar phenos.				
			400.3					
			414.0 421.9m	393.-425.7 - abundant clasts; several short horizons to 20cm of breccia conglomerate containing abundant angular clasts; locally some short horizons of brown hornfel				
				400.3-400.8m - 3% po+py; pred. po.				
				400.8-404.2 - silicated crystal tuff; a few qtz veinlets with moly?	B2-39	401	404	
				404.2 - beginning to notice more epidote; most clasts < 1cm; pyrite content is low(+); very few py veinlets; few chlorite veinlets				
	cont'd			409.7m - bluish qtz vein				

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Hole No. BO-2 Logged By D. Gorc Date Sept. 20, 1980 Sheet No. 29

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				some localized 10-20 cm zones of whitish bleaching associated with high po. zones (ex. 417.0, 418.7m) but few in number	B-240	414	417				
			416.6	416.6 - thin 1mm veinlet of moly							
			421.6 424.1 426.9	420.7-424.5 - silicated crystal tuff; abundant very small white feldspar phenos to 2mm (most ≤ 1mm); mature fine grained (light gray to light green); some thin zones of bleaching along some veinlets; epidote present; only very small amounts of brownish garnet; note more qtz. veins; py generally low; diss. and along fractures with a few short (to 20cm) of high (++) po + py (ex 420.8-421.1m - 25% sulphide) some hairline py-chlorite veinlets							
				422.4m - unit becomes darker shade of green.							
	424.5			423.5 - zone of hornfels; dark brown							

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Hole No. 80-2 Logged By D. Gorc Date Sept. 20, 1980 Sheet No. 30

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
424.5			429.0 427.4	Feldspar Porphyry (barren). - abundant white feldspar phenos; light brown to grey fine grained matrix; sharp upper contact; cut by numerous bluish qtz. veins; fairly well developed qtz. stockwork; some moly. in a few qtz veins; unit essentially unaltered except for qtz. veins; only occasional wispy pale green alteration along some veinlets (ex. 427.4m); sulphide content is low(1) with significant amounts of po. and minor chalco (ex 428.7m). moly in qtz veins - 424.5m, 426.8m, 427.1m most of qtz veins @ 45°-50°	B-241	426	429.0m	
	431.2			430.5 - 430.8m - three 1cm po. veins				
431.2				Silicated Pyroclastic and Lesser Sikated Crystal Tuff. 431.2 - 437.0m - unit is multicoloured with intermixed light green, dark green, light brown, dark brown and light grey; med. to dark greens are dominant colours; light grey bleaching adjacent to many veinlets; such zones quite thin (1cm to 10cm) but a few of such zones to 1metre				
	cont'd							

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Hole No. BO-2 Logged By D. Gore Date Oct. 10, 1980 Sheet No. 31

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				some moly? @ 433.1m }							
				qtz veining reduced but still present.							
			437.2	437 - 446.5m Silicated pyroclastic; light	B-2-42	438	441				
			441.8	to dark greens predominate, with lesser							
				amounts of light to dark brown;							
				remnants of dark brown ~~horn~~ unaltered							
				pyroclastic quite common; remnants of							
				dark brown hornfel also noted; short sections							
				to 20cm contain high(H) po+py (pred. po) with							
				minor chalco; some light brown garnet							
				also noted; a few py-po veinlets seen							
				in high sulphide zones; occasional							
				very thin zones of greyish bleaching							
				adjacent to some veinlets; rock as	B-2-43	450	453				
			455.2	whole is quite hard; average sulphide							
				content is only Low(L); a few py-chalco							
				veinlets seen but not abundant; only							
				very minor amounts of epidote seen; foreign							
				clasts numerous but not overly abundant,							
				boundaries to clasts quite ~~indistinct~~ blurred,							
				only a few porphyritic clasts.							
				~~451.0m - moly~~ 438.7 - moly along qtz veins							
				451.0 - Some moly in qtz. vein.							
				451.0. number of clasts noticeably diminish							
	Cont'd										

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Hole No. 80-2 Logged By D. Gorc Date Oct. 14, 1980 Sheet No. 32

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
Cont'd				452.8 - 453.5 10% py+po . minor chalco.; nearby small amounts of garnet	B-244	462	465				
				461.3 - 461.5 small stockwork of qtz veins							
				463.0 m - until predominately darker green							
				467.0 m - more abundant small concentrations of garnet begin appearing							
			468.9	468.9 m - epidote appearing with garnet							
				471.5 m - zone of brownish garnet ends							
				moly in qtz veins 471.3 m, 471.7 m	B-245	474	477				
			474.4	474.2 - 474.7 m - bleached to dirty white; cream coloured alteration mineral present; small amounts of galena?							
				474.4 - qtz vein with moly?							
	481.6				~~B-246~~	~~481~~	~~483.1~~				
481.6				Feldspar Porphyry (barren) ; sharp contacts; slight chilled zone with smaller phenos on upper contact; contacts @ 30°; cut by many qtz veins; almost qtz stockwork; a few with moly; some minor whitish ~~[illegible]~~ bleaching alongside;	B-246	481	483.1				
	cont'd			matrix light grey to light greenish grey;							

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Hole No. BO-2 Logged By D Gove Date Oct. 11, 1980 Sheet No. 33

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				abundant white feldspar phenos; lesser hornblende phenos.; ~~moly in qtz veins @ 483.3, 483.7m, 484.2m.~~							
	483.1										
	486										
483.1				Silicated Pyroclastic - indentical to rock before above dyke; very few clasts							
	486.5			moly in qtz veins @ 483.3, 483.7, 484.2							
				lesser altered feldspar Porphyry							
486.5			487.7	Feldspar Porphyry (Lourier) light grey to	B2-48	487	490				
			490.2	light brownish grey matrix; ~~abunde~~ abundant white feldspar phenocrysts, and lesser hornblende phenos.; partially altered with many sections having blurred, obscure texture; pyrite content is low to low(-); most of core is slightly magnetic; unit cut by many qtz veinlets (bluish and white); a few veinlets contain moly; some sections ~~are jam~~ have fractured appearance; short sections to 1 metre are badly broken up							
					B2-49	498	501				
				moly in qtz veins 489.0, 490.5 m, 491.8, 493.0.							
				494.2 - 501 - altered feldspar porphyry, med grey colour; obscure texture							
	Cont'd										

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Hole No. 80-2 Logged By D. Gorc Date Oct. 11, 1980 Sheet No. 34

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
cont'd				moly in qtz veins 494.8, 495.6, 499.5							
				494.9 - 495.8 - core badly broken up, much core lost,							
				510.9 - fault - 5 cm of ~~fault gouge~~ clay	B-249	511	514				
			511.5	510.9 - 515.1 - fault gouge; unit is soft, seemingly altered to kaolinite; multicoloured with dirty white to pale green predominating with lesser dark green, some sections quite clayey; sulphide content is low, unit is slightly magnetic							
			529.8	515.1 - 530.1 silicated pyroclastics - very							
			518.4	few clasts; ~~intens~~ strongly silicated with pale to med. greens predominating (diopside?); some horizons have ~~very~~ a finer grained matrix than usual; locally such horizons are finely banded; locally a few hornfel remnants are present to 30 cm (ex 519.2m) but not many of these zones; core is slightly magnetic; sulphide content is low(-) to low; only a few ~~locally~~ scattered small concentrations of pyrrhotite; no garnet noted							
	cont'd										

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Hole No. 80-2 Logged By D. Gove Date Oct. 11, 1980 Sheet No. 35

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
contd				515.1-517.9 - interwinged breccia and quite fine grained silicated pyroclastic; sections of breccia no longer than 20cm; none such sections; some whitish zones of bleaching adjacent to some veinlets; a few concentrations of po.							
			52°A	517.9 - 530.1 - silicated pyroclastics with lesser silicated crystal tuffs; pyroclastics finer grained than usual; crystal tuff horizons < 2mm; generally such horizons are dark brown with abundant very small phenos of white feldspar (<<.5mm) (ex 522.7-524.3m; 526.5-528.1m); py content of tuffs is still low but may be slightly higher than surrounding pyroclastics	B-2-50	518	521				
				528.8m - increased number of po. bleb							
	530.1			529.9m - some thin banding for 5cm; some chorite veinlets							
530.1				~~Altered~~ Altered basic Dyke - 5cm of fine grained chilled contact zone with few phenos on upper and lower contact; no adjacent reaction in surrounding rock except for 2cm of bleaching next to lower contact							
	contd										

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Hole No. 80-2 Logged By D. Gorc Date Oct. 16, 1980 Sheet No. 36

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY
cont'd				Seeming altered; cement is soft; matrix is med grey and fine textured; feldspar phenocrysts are light apple green (epidote ??); pyrite content is low; no po. seen	~~B-2-51~~	~~534~~	~~537~~	
	531.1			upper contact @ 800; lower contact @ 55°				
531.1			533.5	Silicated Pyroclastic - matrix very fine grained;				
			533.9	could almost be classed as fine grained tuff; very few large clasts; however some horizons contain noticeable numbers of very small clasts (<<.5cm); dark to light greens dominate with lesser light to dark brown; sulphide content low; with few sulphide veinlets; core is slightly magnetic	B-2-51	534	537	
				539.2 - 539.8 - very brecciated containing abundant calcite and qtz in filling (539.4 - 539.5), 539.6m - 1cm thick po veins				
	540.4							
540.4			540.4	Basic Dyke - very dark brown in colour with peculiar and distinctive small, feathery white crystals; no chill zone on upper contact; 20 cm chill zone on lower contact				
	541.9							

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Hole No. BD-2 Logged By D. Gore Date Oct. 21, 1980 Sheet No. 37

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	SAMPLE NO.	SAMPLE FROM	SAMPLE TO	ASSAY			
541.4				Silicified Pyroclastic - predominately light green to med. grey; intermixed colouration; matrix still quite fine grained but more numerous clasts; clasts to 1cm; no garnet or epidote seen; after 543.2 m unit is somewhat fractured but not intensely so; slightly more greyish bleaching in more fractured zones; py content is low.	BD-2-52	543	546				
	547.3										
547.3				Feldspar Porphyry (barren) - matrix light grey with abundant large white feldspar phenos; low pyrite; essentially unaltered; core is magnetic; few veinlets of any kind, many hornblende phenos are chloritized	BD-2-53	548	550				
				End of Hole 551.7 m (1810')							

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PROPERTY BALL CREEK

HOLE No. 80-2 LOGGED BY D. GORC DATE SEPT. 8, 1980 SHEET No. 1

INTERSECTION ~~ft. (m.)~~ metre FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
0	5.5m	over burden	/	/	/	/	/	/	
5.5	18.6	Andesitic Pyroclastic	5.5	/	.1	11.9	.1	M(+) to H(-)	essentially unalltered with ~~very~~ small ~~amounts~~ zones of greyish alltteration to 0.7m but generally much ~~smal~~ thiner; also very thin zones of greyish ~~bleaching~~ to light greenish bleaching alongside many veinlets; rock is quite hard; 10.4m alteration envelopes to veinlets getting thicker (to 1cm) and more numerous
18.6	23.5	Andesitic Pyroclastic	8.6	/	2.2	95	8	H	quite intensely altered with many unaltered remnants
23.5	28.2m	Andesitic Pyroclastic	4.0	/	0.4	25	2	M+ locally H	again a few zone of greyish alteration to .8 m ~~with~~ in addition to thin 1cm zones of greyish bleaching adjacent to veinlets; altered zones separated by unaltered rock

J. R. WOODCOCK CONSULTANTS LTD. PROPERTY Bull Creek

HOLE No. 80-2 LOGGED BY D. Gore DATE Sept. 9, 1980 SHEET No. 2

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
28.2	32.2	Andesitic Pyroclastic	3.0	/	.5	.5	/	M(+) locally low(+)	unaltered except for thin (.5cm) greyish bleaching along some veinlets
32.2	44.9	Andesitic Pyroclastic	3.0	/	4	40	2	M(+) locally H in altered zones	some very thin zones of bleaching (.1cm) adjacent to some veinlets; also a few thicker zones to 10cm; a few veinlets have 2cm of greyish alteration adjacent.
44.9	48.4	Feldspar Porphyry (burven)	4.5	/	/	/	/	M	unaltered
48.4	56.1	Altered Pyroclastic (53.3-56.1m)	5.3	/	.3	100	5	H	most of rock altered but alteration seeming not intense; much original texture still decipherable
		Andesitic pyroclastic				/	/	H	essentially unaltered with minor bleaching along veinlets
56.1	60.9	Altered pyroclastic ~~Andesitic pyroclastic~~	10.2	/	/	100	9	H.	complete greyish alteration (diopside - diopsidite?); rock very fractured with abundant carbonate veining; epidote-py still present but in lesser amounts
60.9	65.6	Andesitic pyroclastic and Altered pyroclastic	12.6	/	/	?	1	H(-)	seemingly not altered; some thin zones likely slightly altered; some short horizons of dark brown hornfels

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PROPERTY BALL CREEK

HOLE No. 80-2 LOGGED BY D. Gore DATE Sept 9, ~~1980~~ 10, 1980 SHEET No. 3

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
65.6	76.1	Altered Feldspar Porphyry	6.5	/	11.4	100	9	H(-)	strongly altered; ~~much~~ some of original texture visible but very blurred; alteration generally so intense that original texture obliterated; unit is relatively soft; abundant quartz veining; sericite ?? alteration
76.1	84.0	Altered Pyroclastic	9.1	0.3	1.5	100	9	H	strongly altered; greyish (dolomite-diopside ??) alteration
84.0	95.1	Andesitic Pyroclastic	6.0	0.4	1.4	10	.1	M(-)	To 88.6m - many thin zones of alteration; patchy irregular alteration; some thin zones (.5cm) of alteration adjacent to some veinlets after 88.6m - minimal alteration consisting of very thin bleached zones next to some veinlets and a few sections to 1 metre with partial alteration.
95.1	99.0	Altered Pyroclastic	7.7	/	/	100	9	L(+)	intensely altered by dolomite-diopside ? alteration; unit is fairly soft.

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HOLE No. 80-2 LOGGED BY D. GORC DATE SEPT. 11, 1980 SHEET No. 4

INTERSECTION, ~~ft.~~ (m) metres FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
99.0	127.1	(99.0 - 104.4m) Andesitic Pyroclastic	9.2	0.25	/	12.4	.1	L(+)	(99.0 - 104.4m) seemingly unaltered except for some occasional very thin bleaching adjacent to some veinlets; unit may be ever so slightly altered; some silification adjacent to some veinlets
Silicated		(104.4m - 110A) ~~altered~~ Pyroclastic				100	8	M+	~~quite intensely altered~~ somewhat silicated, small amounts of garnet and pyrrhotite; multicoloured - greens + browns; seemingly not intensely silicated
		(110A - 127.1m) Altered pyroclastic				100	8		strongly altered
127.1	133.6	Altered Pyroclastic	2.0	/	/	100	9.5	L(+) locally high(++)	alteration intensifies; characterized by many short (10-20cm) zones of hight sulphide (pyrrhotite and pyrite). up to 15% sulphide
133.6	139.3	Andesitic Pyroclastic	4.9	0.5	.2	/	/	L(+)	unaltered with some very minor bleaching along some veinlets.

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HOLE No. 80-2 LOGGED BY D. Gorc DATE Sept 12 1980 SHEET No. 5

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
139.3	145.3	Andesitic Pyroclastic	0.8	0.3	/	/	/	M(-) to M	unaltered with minor bleaching along some veinlets; slightly increased py content; slightly more greyish colouration suggest perhaps slight alteration
145.3	175.3	Andesitic Pyroclastic and Silicated Pyroclastic	2.4	0.3	/	28.3	3	L(+) to M(-)	~~unaltered to~~ To 168.3m - only short zones of silicated rock to .7m; altered zones separated by essentially unaltered rock. After 168.3m - ~~much~~ essentially completely silicated; abundant diopside-type green; local concentration (to 25%) of pyrrhotite; generally slightly brecciated.
175.3	179.5	Andesite Porphyry	0.2	/	/	/	/	L(+) to M(-)	unaltered
179.5	188.4	Silicated pyroclastic (lesser silicated crystal tuff)	.2	/	/	100	9	L(+) Locally high(++)	strongly silicated; much of rock has diopside green colour; ~~very little to~~ no garnet noted; many short horizons (to 20cm) of abundant pyrrhotite (10%) and lesser pyrite

J. R. WOODCOCK CONSULTANTS LTD. PROPERTY Ball Creek

HOLE No. 80-2 LOGGED BY D. Gove DATE Sept. 12, 1980 SHEET No. 6

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
188.4	189.5	Silicated Crystal Tuff.	1.6	0.3	/	100	9	L(+) to L	strongly silicated; greenish tint to rocks; continued local concentrations of pyrrhotite and lesser pyrite; thin zones of greyish bleaching adj. to some veinlets
189.5	217.8	Silicated Pyroclastic (lesser silicated crystal tuff)	0.8	0.5	/	100	9	M(-)	same as 188.4-189.5m
217.8	222.4	Feldspar Porphyry (barren)	~~0.8~~	0.2	/	/	/	M(-)	unaltered
222.4	230.4	Silicated Pyroclastic	0.3	0.4	/	/	/	m(+)	strongly silicated; pred. greenish tints; local pyrrhotite concentrations
230.4	235.1	Crystal Tuff.	0.6	0.6	0.4	/	/	m(+)	only very slightly silicated;
235.1	241.4	Andesitic Pyroclastic	1.4	0.2	/	/	/	m(+)	essentially unaltered;
241.4	252.4	Silicated Pyroclastic and Crystal Tuff.	2.0	1.0	/	100			strongly silicated, ~~with~~ multicoloured with greens main colour; some greyish bleaching adjacent to some veinlets

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PROPERTY Ball Creek

HOLE No. 80-2 LOGGED BY D. Gore DATE Sept 12, 1980 SHEET No. 7

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
252.4	274.8	Silicated Pyroclastic	1.1	0.4	/	100.	9	Lt locally high(tt)	silication intensifies; more widely scattered pale diopside greens; ~~localized~~ small concentrations of (scattered brown garnet; many short horizons of abundant pyrrhotite; rock is hard
274.8	279.7	Basic Dyke	4.3	/	/	/	/	L(-) to tr.	unaltered ?; rock quite soft
279.7	296.9	Silicated Pyroclastic	1.1	0.2	/	100	9.~~8~~	L(t) locally high(tt)	similiar to unit 252.4 - 274.8m lighter brown garnet, found in addition darker brown garnet.
296.9	303.2	Andesite Porphyry	0.6	/	/	/	/	tr. to L(-)	unaltered; little pyrite; no pyrrhotite.
303.2	323.2	Silicated Pyroclastic	0.4	0.4	/	100	9	L(t) locally high(tt)	strongly silicated; abundant diopside green; widely scattered brown garnet; local concentrations of pyrrhotite; some greyish bleaching along veinlets
323.2	327.	Feldspar Porphyry (barren)	/	/	/	/	/	L(t) to M(-)	unaltered

J. R. WOODCOCK CONSULTANTS LTD. PROPERTY Ball Creek

HOLE No. 80-2 LOGGED BY D. Gore DATE Sept 20, 1980 SHEET No. 8

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
327.0	339.9	Silicated Pyroclastic	0.8	/	/	100	8	M(-)	not that intensely silicated; many unaltered remnants; local concentrations of brown garnet; few short zones of high (+) sulphide; pyrite predominant sulphide.
339.9	341.4	Mudstone	0.7	/	/	/	/	Tr	unaltered
341.4	404.2	Silicated Pyroclastic (minor mudstone)	0.6	0.2	/	100	9	M	strongly silicated; some minor greyish bleaching adjacent to some veinlets; garnet and pyrrhotite concentrations common
404.2	420.7	Silicated Pyroclastic (minor mudstone)	2.9	1.4	0.5	100	9	L(+)	~~mudstone unaltered~~ mudstone unaltered; 389.7m silication becoming patchy with many unaltered remnants strongly silicated; noticing more epidote; some minor bleaching along veinlets
420.7	424.5	Silicated Crystal Tuff	1.8	3.2	/	100	9	L locally H.	strongly silicated; only very small amounts of garnet; a few high pyrrhotite zones; a few unaltered remnants after 423.5 m.

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PROPERTY Ball Creek

HOLE No. 80-2 LOGGED BY D. Gore DATE Sept. 20, 1980 SHEET No. 9

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
424.5	431.2	Feldspar Porphyry (barren)	/	0.6	15.0	/	/	L(+)	essentially unaltered; some wispy thin zones of pale green alteration along some veinlets
431.2	437.0	Silicated ~~pyroclastic~~ crystal tuff	3.4	1.8	0.2	100	7	L(+)	strongly but not intensely silicated; dark greens and browns; some light grey bleaching to 1 cm; most bleached zones (1 cm to 10 cm)
437.0	486.5	Silicated pyroclastic and silicated crystal tuff (481.6–483.1)	0.5	1.7	1.5	90.0	6	L(+)	~~many~~ remnants of essentially unaltered pyroclastic quite common; most of unit quite strongly silicated; small amounts of garnet; a few short horizons of abundant pyrrhotite; feldspar porphyry dyke is unaltered.
~~486.5~~	~~494.2~~	Feldspar Porphyry (barren)							
486.5	494.2	Feldspar Porphyry (barren)	1.9	0.4	3.4	/	/	L(-) to L	essentially unaltered; a few short sections (to .5 m) fractured; such zones could be slightly altered
494.2	501	Altered Feldspar Porphyry	2.9	0.4	3.4	100	2	L(-) to L	seemingly slightly altered; most of texture blurred and obscure; rock is ~~relatively~~ softer than usual.

J. R. WOODCOCK CONSULTANTS LTD. PROPERTY Ball Creek

HOLE No. 80-2 LOGGED BY D. Gorc DATE Oct. 10, 1980 SHEET No. 10

INTERSECTION, ft. (m.) FROM	TO	ROCK TYPE	CARB. VEINLETS No./m	QUARTZ VEINLETS WHITE No./m	BLUISH No./m	ALTERATION BANDS cm/m	INTENSITY OF ALTERATION (1 to 10)	PYRITE (Low to High)	COMMENTS
501.0	510.9	Feldspar-Porphyry (barren)	5.1	/	3.1	/	/	L(-)	essentially unaltered
510.9	515.1	Fault Gouge	3.0?	/	2.9	100	10	L(-)	chlorite clay alteration; very soft
515.1	517.9	Intermixed Breccia and silicated pyroclastic	1.0	2.1	/	100	9	L	strongly silicated; no garnet, a few small concentrations of ~~garnet~~ pyrrhotite
517.9	530.1	Silicated pyroclastic and silicated crystal tuff	1.2	0.2	/	90	7	L	not strongly silicated; many horizons unaltered to only slightly silicated
530.1	531.1	Basic Dyke	/	/	/	?	?	L	altered?; soft.
531.1	547.3	Silicated Pyroclastic	0.9	0.7	/	100	9	L	strongly silicated; no garnet noted, somewhat fractured, some minor greyish bleaching adjacent to some veinlets;
		Basic Dyke (540.9-541.4 m)							basic dyke is altered??
547.3	End of Hole 551.7	Feldspar Porphyry (barren)	1.7	0.3	/	/	/	L	unaltered; some chontizal hornblende phenos.