85-1200-14411

DIAMOND DRILLING ASSESSMENT REPORT 10/86

on the

OAK CLAIM GROUP

(Brent 1, Oak 1, Oak 2, Oak 3 Claims)

situated 8 km southwest of Chemainus, B.C.
in the Victoria Mining Division

52.5' 49.5'
48° [redacted] N, 123° [redacted] W
NTS 92B/13W

Owned by: Esso Resources Canada Limited
1600 - 409 Granville Street
Vancouver, B.C. V6C 1T2

Work done by: Kidd Creek Mines Ltd.
Operator: 701- 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

May 5, 1986 Vancouver, B.C.

By: S.G. Enns

TABLE OF CONTENTS

APPENDICES

LIST OF ILLUSTRATIONS

SUMMARY

This report presents drill results of 1985 fieldwork on the Chemainus project in southwestern British Columbia. Exploration targets in the Sicker Group rocks are volcanic-hosted polymetallic massive sulphide deposits. Examples of such deposits in this belt include Westin's Buttle Lake deposit (20 million tons averaging 2% Cu, 6% Zn, 2.5 oz/T Ag, 0.06 oz/T Au), and the Twin J deposit at Mount Sicker (1 million tons).

The project area consists of 16 claims (140 units) in two separate claim blocks located on southeast Vancouver Island, about 65 km northwest of Victoria, B.C. Kidd Creek Mines earned a 50% undivided interest in the claims (wholly owned by Esso Resources Canada) by completing a two-stage work program which consisted of an airborne Questor Mark VI electromagnetic survey and a minimum of 1,500 m of diamond drilling. Effective date of completion of this work was October 22, 1985.

Fieldwork, conducted between April 15 and September 30, 1985, consisted of ground follow-up (geology, geophysics and geochemistry) of airborne anomalies and diamond drilling. The drilling was conducted on the Oak Group comprised of the Brent 1 and Oak 1 to 3 claims. Seven holes were drilled for a total of 1534 m.

The claims are underlain by a northwest trending belt of steeply dipping felsic to intermediate volcanic and volcaniclastic rocks of the Myra Formation

flanked on both sides by younger pelitic and cherty sediments of the Sediment-Sill Unit. Both these assemblages belong to the Sicker Group. Myra Formation felsic rocks host significant polymetallic sulphide deposits; these include Abermin's Coronation zone on their claims adjacent to the Chemainus project, and the nearby Twin J deposit at Mount Sicker.

Three of the five target areas were tested by drilling. One of these the Sharon area, is still of interest. An intersected true width of 4.6 m of 0.55% Cu demonstrates 300 m of strike to the Sharon mineralization. The mineralization at Silver Creek (where 6.3 m of 1.0% Zn was intersected) did not have significant along-strike potential.

CONCLUSIONS

Localized zones of sulphides (pyrite and chalcopyrite) are present within a large sulphide system defined by I.P. work in the Sharon area on the Brent 1 claim. Drilling has shown that copper mineralization extends at least 300 m northwest along strike from the old Sharon adit. The strongest copper mineralization intersected in hole Chem 7-85 is hosted in intermediate volcaniclastics which appear to mark a transition from mafic to felsic volcanics intersected by this hole. Widespread but weak copper mineralization is also present in mafic volcanics. Disappointingly low zinc and precious metals values accompany the copper mineralization. The controls for mineralization at the Sharon area are unclear at present and the potential for economic mineralization has not yet been fully tested.

Drilling in the Humbird Creek area intersected a succession of steeply north-dipping Sediment Sill Unit. The intersection of some pyritic disseminated zones, combined with abundant graphite plus several graphitic faults and shears, explains the cause of the VLF and IP anomalies.

At Silver Creek, drill results from 4 holes indicate that the zinc mineralization is of local extent. Features such as the sulphide's replacement texture, increasing pyrrhotite content at depth as the gabbro is approached, suggest the gabbro's importance in localizing mineralization. The stratigraphic position of this mineralization is believed to be different from that of Abermin's nearby Coronation zone. At present, this area is of no further interest.

INTRODUCTION

1. Location, Access, Terrain

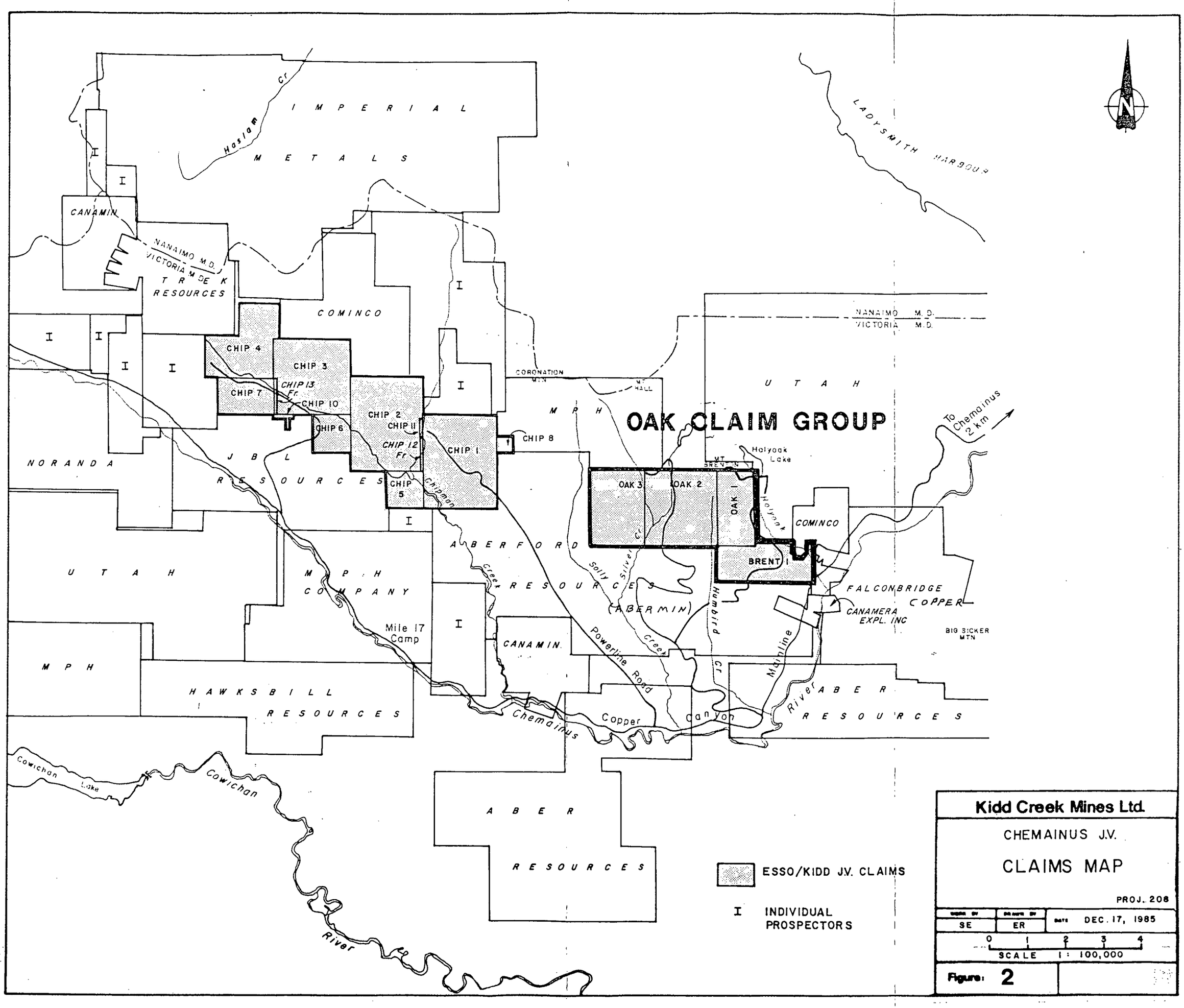
The Chemainus project area is located on southeast Vancouver Island, about 8 km west of Chemainus, in southwestern British Columbia (Figure 1). Chemainus lies just off the Trans-Canada Highway about 60 km north of Victoria. Established port facilities and related infrastructure in Chemainus and vicinity would enhance the economics of an orebody.

Access to the claims is by MacMillan Bloedel's main haul road known as the Copper Canyon road leading west from Chemainus. From this road three secondary 4-wheel drive roads provide access to various parts of the claims (Figure 2). Property access within the claim area is good due to numerous logging roads and old railway grades.

Rolling topography with incised canyons characterizes the terrain. All of the property has been logged and is in various stages of regrowth with cedar and fir. The bush varies from dense second growth to clear cut areas. Undergrowth of salal is widespread and in places this can be very thick. Elevations on the property vary between 500 and 1,100 m.

A mild climate prevails with warm, dry summers and autumns, and short winters. Spring is usually wet. The higher elevations (above 1000 m) tend to be clear of snow by the end of May. Elevations below 500 m may be snow-free throughout the entire year making extended fieldwork possible. Dry, forest conditions usually occur from mid-July to the end of August and must be taken into account in planning field work to avoid interruptions due to closures.

Figure 1
LOCATION MAP
BRITISH COLUMBIA



Kidd Creek Mines Ltd.

CHEMAINUS J.V.

CLAIMS MAP

PROJ. 208

DRAWN BY	DRAWN BY	DATE
SE	ER	DEC. 17, 1985

0 1 2 3 4

SCALE 1 : 100,000

Figure: 2

2. Property History

Early property history on the Brent-Oak claims has been described by Britten (1984):

> "The Brent 1 mineral claim overlies what is believed to have been the Pauper C.G. claim (L31G) crown granted in 1903. The B.C.M.M. Annual Reports for 1924 and 1927 report underground development of a pyritized schist belt, 60 ft. wide. An undated map by Sharon Copper Mines Ltd. shows three parallel adits 150 ft., 5 ft. and 35 ft. long, driven northwesterly into the east facing slope at an elevation of 2,375 ft . . .
>
> In 1966 and 1967 Cominco Ltd. carried out geological mapping, a geochemical soils survey and in induced polarization survey (Tikkanan 1967) on the Tot and Rum claims, for which base metal rights were optioned from the Canadian Pacific Oil and Gas Limited, who controlled the E & N Railway land grant.
>
> Imperial Oil Limited staked the Mons 4 mineral claim in 1976 and upon surrender of the E & N mineral rights to the Crown in 1978 this claim was abandoned and restaked as Brent 1. The Oak 1, 2 and 3 claims were staked at the same time to cover anomalies outlined by a Scintrex airborne EM and magnetic survey. Imperial Oil carried out minor geological mapping, a self potential survey and drilled four holes on this block of claims now known as the Oak Group. Traces of copper in pyritic quartz-sericite schists were noted in one

drill hole (78 Chem 1) sited on the Brent 1 claim (Somerville 1979). A section of the Brent 1 claim was grid mapped as part of this work (Holbek 1980). In 1982 parts of the claim group were reconnaissance mapped by Esso and HLEM and magnetometer surveys were done on the Brent 1 claim (Cooper 1983)."

Esso conducted geologic mapping in 1984 on the Oak Group and applied this work as assessment for one year.

Kidd Creek Mines optioned this property from Esso in late 1984 and conducted exploration that same year by completing a Questor airborne EM survey. This was followed by a ground evaluation of anomalies and geology in 1985 which led to drilling.

DRILLING

1. Introduction

The purpose of diamond drilling was to test geophysical anomalies thought to reflect base metal mineralization in Myra felsic volcanic rocks.

Three areas were drilled on the Oak claim group; they are the Sharon area, upper Humbird Creek area, and the Silver Creek area. Individual drill hole locations are shown in Figure 3 and given on Table I. For 1985 drilling, hole numbers start at hole 7 and continue on to hole 13 using the following convention: Chem 7-85. Table I summarizes drill data and results. Drill logs and analytical results are given in Appendices A and B respectively. Drill sections are shown in Figures 4a and 4c. The drill core is stored in a barn owned by H. Knight on Knight Road, approximately 3 km north of Chemainus, B.C. The barn is opposite the Saltair Pub.

TABLE I
SUMMARY OF DRILLING AND RESULTS

HOLE	LOCATION	DIP	BEARING	DEPTH	MINERALIZATION		
					INTERVAL DEPTH (m)	WIDTH (m)	RESULTS
CHEM-7-85	BRENT 1 claim Line 1+50W at 11+00S *UTM: E 439,390; N 5,414,050 Elev: 865 m	-55°	180°	NQ 0252.0 BQ 82.1 334.1 m	94.5-97.5 100.6-103.6 122.1-125.0 136.2-145.4 169.8-172.3	0.75 (true) 0.75 " 0.70 " 4.6 " 0.6 "	0.58% Cu 0.34% Cu 0.31% Cu 0.55% Cu 0.80% Cu
CHEM-8-85	BRENT 1 claim Line 1+50W at 12+70S 5 m east of line *UTM: E 440,405; N 5,413,835 Elev: 855 m	-60°	183°	NQ 163.6 BQ 155.2 318.8 m			
CHEM-9-85	HOLYOAK 1 claim Line 15+50W at 2+50N 15 m west of line *UTM: E 438,130; N 5,415,305 Elev: 960 m	-50°	183°	NQ 211.5 m			
CHEM-10-85	HOLYOAK 2 claim Line 31+00 W at 1+90S *UTM: E 436,395; N 5,414,825 Elev: 800 m	-45°	179°	NQ 159.7 m	43.3-50.8	6.3 (true)	1.01% Zn
CHEM-11-85	HOLYOAK 2 claim Line 29+50W at 1+40S 20 m east of line *UTM: E 436,575; N 5,414,880 Elev: 840 m	-50°	181°	NQ 176.1 m			
CHEM-12-85 abandoned	HOLYOAK 2 claim Line 29+50W at 2+20S 10 m west of line *UTM: E 436,545; N 5,414,800 Elev: 820 m	-50°	180°	NQ 28.3 m			
CHEM-12A-85	HOLYOAK 2 claim Line 29+50W at 2+20S 10 m west of line *UTM: E 436,545; N 5,414,800 Elev: 820 m	-50°	180°	NQ 171.9 m	120.0-122.0 122.0-124.0	2.0 2.0	1600 ppm As 4600 ppm As
CHEM-13-85	HOLYOAK 3 claim 75 m west of Line 31+00W at 1+50S *UTM: E 436,330; N 5,414,855 Elev: 780 m	-50°	180°	NQ 134.1 m	81.4-81.7	0.3	2.82% Cu
	*UTM Zone 10		TOTAL	1,534.5 m			

The contractor for the job was F. Boisvenu Drilling Ltd., Richmond B.C. who used a crew of four working in two 10 hour shifts from June 27 to September 24. A total of 1,534 m (mostly NQ) was drilled in 7 holes at an overall average drilling rate of 22 m per shift. The job duration was 59 days of which 35 days comprised the drilling itself. The remaining time included moving, travel and breakdown. Core recovery was better than 98%. Planned earlier completion of the drilling was prevented by two forest closures. These closures occurred during the periods of July 25 to August 8 and August 16 to September 8.

2. Drilling Results

Sharon Area

The pyritic felsic and mafic volcanic rocks hosting the Sharon copper prospect (including the Sharon copper mineralization) is referred to as the Sharon area. Drill holes Chem 7-85 and Chem 8-85 were collared to complete a north-south section along Line 1+50W (Figure 4a) to test stronger east-west IP anomalies within a much broader chargeability anomaly underlain by pyritic, felsic volcaniclastic lithology. Hole Chem 7-85 was collared to test two strong chargeability anomalies (one with coincident VLF) and to intersect the strike projection of the Sharon copper mineralization. Hole Chem 8-85 tested the broad chargeability anomaly and lithology in an area 85 m south of Chem 7-85.

As illustrated in Figure 4a, the holes intersected a sequence of quartz-sericite and minor chlorite schists interpreted to represent predominantly dacitic to rhyolitic crystal tuffs and local lithic tuffs (with minor mafic volcanics). This sequence of Myra Formation is underlain by younger gabbro intrusions which

produce crackled and bleached zones near the contacts. Quartz and feldspar phenocrysts are present in varying proportions throughout the tuffs. Variation in chlorite content is strongly reflected in the darker colour of the rock. Minor mafic volcanic rocks occur near the top of both holes but are more abundant in hole Chem 7-85 which is also more strongly mineralized. A yellowish-white, sericite schist with variable quartz-eye content was intersected in hole Chem 8-85 and identified as the Tyee Rhyolite by P. Wilton, of the Ministry of Energy, Mines and Petroleum Resources (personal communication).

The drilling did not help to resolve the structural geology in this area. Holbek (1980) interpreted isoclinal folding slightly overturned to the south, in the vicinity of the drill section 1+50E. No diagnostic marker was intersected in either hole to determine stratigraphic sense. For the most part, bedding plane cleavage accounts for the pronounced foliation (40 to 60° to core-axis) noted in the core. This indicates a steep north-dipping succession. Primary bedding in ash and crystal tuffs was noted only at 140 m in hole Chem 7-85. There, the foliation cleavage (defined by pyrite) was at 120° to primary bedding, suggesting possible proximity to a fold hinge.

Three distinct types of mineralization were encountered in drilling. All were intersected in hole Chem 7-85; hole Chem 8-85 did not intersect significant mineralization. Mineralized intercepts are shown in Figure 4a.

Type 1

The most significant mineralization was intersected between 131 and 150 m of hole Chem 7-85. Mineralization is mainly copper although weak geochemical

silver values generally show a harmonic relationship with copper values. A 9.2 m intercept (4.6 m true width) of 0.55% Cu contained up to 1.14% Cu across 2 m. Strong sulphide stringers of chalcopyrite and pyrite up to 1 cm wide, locally comprising 5 to 20% combined, cross-cut an intermediate fine-grained tuff. Black chlorite accompanies the sulphides. Very fine grained chalcopyrite (up to 10%) is present in certain beds of a finely bedded fine-grained dark tuff. Locally, pyrite cubes and grains rim angular lithic clasts 5 to 10 cm in size. The larger pyrite crystals often display evidence of recrystallization and chalcopyrite is common in pressure shadows. This mineralized zone is on strike with the Sharon copper showings in the adit 300 m to the southeast. The mineralization encountered in drilling adequately explains the 40 millisecond chargeability anomaly. Sufficient pyrite disseminations are present throughout the entire succession (particularly in the proportionally more felsic volcaniclastics in hole Chem 8-85) to account for the broad 30 millisecond chargeability anomaly indicated by the IP survey.

Type 2

The second type of mineralization is comprised of pyrite and chalcopyrite-filled fractures and similar sulphides in quartz stringers in chlorite schist encountered in the intercept 94 to 105 m of hole Chem 7-85. Its significance is unknown.

Type 3

The third type of mineralization is coarse chalcopyrite and pyrite in white quartz veins hosted in gabbro. One such intercept is located between 169 and 175 m. Although not economically significant this type of

mineralization is "splashy" with local intercepts of greater than 1.0% Cu across 1.5 m.

Humbird Creek Area

Drill hole Chem 9-85 was collared at 2+50N on Line 15+50W to test nearly coincident IP and V.L.F. anomalies for mineralization in a heavily overburden-covered area. No mineralization was intersected. Figure 4b shows the geology of the drill section which is comprised of a steep, north-dipping Sediment-Sill Unit succession of black graphitic argillite, buff-coloured siliceous sediments and chloritic phyllite underlain by gabbro. Narrow graphite-rich zones, some with pyritic disseminations, and several faults and shears explain the geophysical anomalies.

Silver Creek Area

Drill holes Chem 10-85 to Chem 13-85 were collared in the Silver Creek area. This area was selected for two reasons. The geophysical survey showed laterally continuous IP, V.L.F. and magnetic anomalies extending from Line 29+50W to Line 32+50W. The second reason was the discovery of encouraging surface mineralization uncovered in a trench on Line 31+00W across this anomaly. Geologic cross-sections are illustrated in Figures 4b and 4c.

The best mineralization was 6.3 m (true width) of 1.0% Zn intersected in hole Chem 10-85 (Figure 4b). This hole encountered predominantly felsic volcaniclastic rocks but the mineralized section from about 40 to 54 m is hosted in a dark, chloritic, intermediate volcaniclastic unit with lithic clasts 2 to 4 cm in size. The mineralization is comprised of 5 to 40% sulphides which include pyrrhotite and sphalerite stringers in the

strongest part of the mineralized zone and disseminated pyrrhotite, sphalerite and chalcopyrite throughout the entire 13.7 m section of mineralization. The mineralization appears to widen at depth (based on the section) but contains disappointing Cu, Ba and precious metals in drill core. The pyrrhotite is magnetic and easily accounts for a weak magnetic anomaly indicated by the geophysical survey. The pyrrhotite-pyrite ratio appears to increase with depth. The texture of sulphides (ragged stringers) and the changing pyrrhotite-pyrite ratio could be indicative of mobilized sulphides due to nearby gabbro intrusions.

Holes Chem 11-85 and Chem 12A-85 (Chem 12-85 was abandoned) were drilled 150 m east of hole Chem 10-85, along the strike of the IP anomaly which splits into two anomalies in going from Line 31+00W to Line 29+50W. No significant mineralization was intersected in these two holes. The IP anomalies appear to be caused by local, high pyrite and pyrrhotite concentrations. The drill holes encountered a steep, north-dipping sequence of felsic and intermediate volcaniclastic rocks comprised mainly of crystal and lithic tuffs. Gabbro underlies much of the volcaniclastic unit at this locality. Some evidence of reworking of tuffs was noted by such features as channel and scour structures and possible rip-up tuff clasts. Anomalous As (1600 to 4600 ppm) was intersected between 120 to 124 m in hole Chem 12A-85. Its significance is unknown.

Drill hole Chem 13-85 was drilled 75 m west of hole Chem 10-85, also along the strike of the same IP anomaly. The entire hole intersected various gabbroic phases. Gabbro is much more extensive in the Silver Creek area than was initially realized. A chalcopyrite-

pyrrhotite mineralized quartz vein (2.82% Cu across 0.3 m) as indicated in Figure 4c was the cause of the IP anomaly at this locality.

3. Technical and Logistic Discussion

Equipment used by the contractor included a BB25 wireline drill powered by a 4 cylinder air cooled Deutz diesel and a Komatsu D 41A tractor (equivalent to a Cat D-5). After the second forest closure and in anticipation of a lengthy delay, this drill was replaced at contractor cost by a BB56 wireline drill.

Time distribution on the drill job is as follows:

Drilling	35 days
Moving	13 days
Travel	6 days
Breakdown	5 days
	59 days

The moving figure was excessive by about 4 days. Extra moves resulted from an initial lack of available BQ rods for reducing the hole (Chem 7-85) which prevented drilling the holes in planned sequence. This required a premature move to a shorter hole (hole 9) and then back again to complete the original deeper hole. The travel figure was excessive by 4 days and was caused by the two forest closures.

The BB25 drill was under-powered for depths greater than 240 m for the two deepest holes (Chem 7-85 and Chem 8-85). A Longyear Super 38 wireline drill powered with a diesel "Jimmy" would be preferable for drilling 350 m NQ inclined holes. For inclined holes of less than 300 m NQ the BB25 rig is more than adequate. It

is quick on breakdown and moves. The BB56 was overkill for short holes and too cumbersome to move around easily.

Most of the breakdown time occurred near the end of the job with the larger, BB56 replacement drill. Before the second forest closure the contractor suffered little significant downtime on equipment.

Two important considerations for future drilling are the lack of water which can be anticipated by mid-July (especially on the Brent 1, Oak 1 claims) and the likelihood of forest closure due to the dry bush during July and August. Although last summer was unusually dry, forest closure in late July and August must be taken into account in planning future drill programs.

Hole inclination of -45° should be avoided where possible. This is because core retrieval is slow; the overshot tends to go down the hole with difficulty. Increasing the collar inclination to -50° solves this problem without greatly sacrificing the desired horizontal reach.

S. Enns.

S. G. Enns

REFERENCES

BRITTEN, R. M. 1984: Geological and Geochemical Report on the Oak Group, Victoria Mining Division, Vancouver Island; Esso Resources, Canada Limited. 37 p.

COOPER, W.G. 1983: HLEM and magnetometer survey of Brent 1 Mineral Claim, Victoria Mining Division, Vancouver Island; Esso Resources Canada Limited, 10 p.

HOLBEK, P.M., 1980: Geology and geochronometry of the Sharon Area, southwestern B.C.. Unpublished B.Sc. Thesis, University of British Columbia, 53 p.

SOMERVILLE, R. 1979: Diamond drill hole report for holes Chem No. 1 to 6 on the Brent 1, QQ1, Oak 2 and 3 and VV claims in the Nanaimo and Victoria Mining Division; Esso Resources Canada Limited, 6. p.

TIKKANAN, G.D. 1967: I.P. and resistivity survey CPOG property, Grid no. 1, Duncan Area, B.C.; Assessment Report #936, 6 p.

APPENDIX A

DIAMOND DRILL LOGS

KIDD CREEK MINES LTD

HOLE No. 85 CHEM - 7 PAGE No 1 of 18

DRILL HOLE LOG

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION 11 + 00S Line 1 + 50W

AZIM 180° DIP -55°

ELEV 865 m
LENGTH 334.1 m
CORE SIZE: NQ 5.5 - 252.0
BQ 252 - 334.1

STARTED: June 28, 1985
COMPLETED: July 12, 1985
PURPOSE: Test large, I.P. anomaly at depth, and test geology on Sharon trend.
CORE RECOVERY: 97%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
60.9	-	-54°			
121.9		-54.5			
82.9		-52.0			
243.8		-54			
304.8		-53			

CLAIM No: BRENT 1
SECTION: Line 1 + 50W
LOGGED BY: K. Rye
DATE LOGGED: June 29 - July 12, 1985
DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.
ASSAYED BY: CDN RESOURCE LAB., DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		Casing 0-5.5 m						
3.0								
6.1		5.5 - 26.2 GREEN-GRAY CHL SCHIST	5.5	4.3	100			
		very badly broken ground - blocky 8.8 - 21.9						
		GC 7.3, 11.0, 14.0, 17.1, 18.9	7.3	8.8	100			
		Grey mottled rock with variably silicified patches						
		and chloritic zones 2 - 10 cm in size						
9.1		Pyritized clasts (?) at 12.8	8.8	11.0	71			
		Generally strongly pyritic, variable up to 9%						
		locally but averages 3 to 4 as disseminations 2 to 4 mm						
		Small 1 to 3 mm chl. wisps parallel fol'n 23.8 to	16.0	14.0	70			
		26.2 pumice (altd) clasts (?)						
12.2		Irregular clasts outlined by white qtz 25.9 - 26.2						
		Strong shear 25.6 - 26.0						
			14.0	17.1	60			

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 7 | PAGE No. 2 of 18

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		26.2 - 33.5 GREEN - GRAY MOTTLED CHLORITIC SCHIST						
15.2		Clastic texture 99 - 102: 5 mm quartz clasts (?) and lithic clasts with moderate mylonitic appearance						
			17.1	18.9	100			
18.3		Pyritic throughout average 5 - 6% as 2-3 mm diss crystals	18.9	21.9	50			
		Local strongly pyritic zones 5 cm wide here and there average 20%. Examples at 26.5, 27.7, 29.0, 29.3						
21.3		Strongly foliated with chlorite sericite on surface of cleavage. CA averages 50°	21.9	24.4	87			
24.4			24.4	26.2	100			
			26.2	28.7	100			
27.4								
			28.7	31.7	100			

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 7 — PAGE No. 3 of 18

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
30.5								
		Ground core at 31.7	31.7	33.5	100			
33.5		33.5 - 38.7 MASSIVE DARK GREEN CHLORITE SCHIST	33.5	36.6	80			
		Unit contains diffuse bands of med. grained feldspars about 1 cm wide here and there. Also chlorite pseudomorphs after hornblende.						
		Pyrite dissemination content varies averaging 6 to 7%,						
36.6		locally rises to 10% over 5 cm.	36.6	39.6	80			
		Chalcopyrite seam with Py at 33.8, on fracture						
39.6		38.7 - 49.8 PALE GREEN QUARTZ EYE SCHIST	39.6	41.4	100			
		Quartz eyes 3 - 4 mm. Approx. 10%						
		Sheared near upper contact with Quartz + Calcite						
		Sericite alteration 38.7 - 41.1	41.4	44.2	100			
42.7		Chalcopyrite specks 41.4 - 42.7						
		Shear zone 43.6 - 43.9 45° CA Clay Gouge						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 4 of 18

PROPERTY:

HOLE LOCATION:

DRILL HOLE LOG

AZIM: | ELEV:
DIP: | LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		Quartz - carbonate stringers 45°-CA						
		Chpy. specks at 45.6, 47.4, 47.8, 48, assoc. with	44.2m	61.6m	100			
		1.2% dull, fine grained pyrite and dark chloritic						
		lenses 1 x 3 cm. at 45° CA (primary bedding?)						
		quartz eye content decreases, becomes sporadic,	61.6	64	80			
		and develops weak banding beyond 45.4 m						
		foliations: 45° to CA at 45.6, 48m	64	86.6	100			
		49.8 - 53.5 DARK GREEN QUARTZ EYE SCHIST	86.6	88.4	60			
		- similar to previous unit, gradual contact						
		- Med-dark green, 8 - 10% 1-4 mm oblate qtz eyes	88.4	90.2	90			
		aligned in foliation						
		- chlorite and sericite matrix, higher chlorite content	90.2	91.1	100			
		than previous unit						
		- 1% euhedral and elongate pyrite	91.1	92.7	90			
		- streaky chalcopyrite 51.0 m	92.7	106.1	100			
		- 51.5 2x5 cm chloritic fragment						
		- foliation 40° CA						
		- Quartz-carbonate stringer 20° CA at 53.0 m	106.1	107.6	90			
		- Lower contact gradational	107.6	168.9	100			

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 7 | PAGE No 5 of 18

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.

SECTION:

LOGGED BY

DATE LOGGED

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		53.5 - 56.1 QUARTZ - SERICITE SCHIST						
		- pale green unit dominated by 5-8% 1-4 mm qtz eyes						
		- quartz - sericite matrix, minor blebby chlorite						
		- 1% pyrite in fine disseminations along foliation and as 3 mm euhedral cubes	168.9	169.5	75%			
		- also occurs in irregular, rare, chloritic patches 1 cm thick, possibly altered clasts	169.5	176.2	100			
		- foliation 45° CA at 54 55° CA at 54.4	176.2	178.0	90			
		- random hairline carbonate fractures - 15 cm apart	178.0	202.4	100			
		54.3 - 56.1 - increasing patchy chlorite	202.4	211.5	90			
		54.4 - crosscutting chlorite - pyrite wisps 15° to CA, also along foliation	211.5	334.1	100			
		55.2 - 58 blocky ground possible fault						
		56.1 - 56.7 MAFIC FLOW						
		Olive green fine grained aphanitic, chloritic rock						
		- abundant, irregular, random qtz-carbonate						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No 6 of 18

HOLE LOCATION

DRILL HOLE LOG

AZIM: ELEV

DIP: LENGTH

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		stringers						
		- 5% fine disseminated pyrite						
		- Cp in quartz-rich lens 56.5						
		- local weak silicification eg. 56.5						
		56.7 - 57.6 SERICITE - QUARTZ SCHIST						
		- similar to unit 53.5 - 56.1 except quartz eyes 5% are minor						
		- groundmass dominated by sericite						
		- 1% med grained pyrite in small chloritic patches						
		- foliation 45° CA						
		57.6 - 85.0 QUARTZ-SERICITE-CHLORITE SCHIST						
		- sharp upper contact in blocky core						
		- dark green, approx. equal chlorite and sericite						
		- 5% 3 mm qtz eyes						
		- increasingly sericitic past 61.6 probable alteration, chlorite becomes patchy						
		- Approx. 82.3 appearance of 1% fine (1mm) euhedral feldspars						
		- weak silicification begins 83.5						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 7 of 18

HOLE LOCATION

DRILL HOLE LOG

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- 1% pyrite, along foliation and dissem						
		- occasional coarse Py aggregates eg 59.4 - 60.0						
		- specks Cp 59.9, 62.8, 62.9						
		- Py in quartz eye, fractures & rimming qtz eye at 59.0						
		- kink plane 30° CA at 70.1 m (foliation 45° CA)						
		- shear zone at 73.4 - 73.9 with abundant carbonate other shears at 75.7, 85.0 (55° to CA)						
		- streaky green chloritic clasts indicate bedding 40° CA at 64.°m						
		85.0 - 86.6 GREY-GREEN SCHIST						
		- dull grey-green, hard, dominantly sericite and chlorite plus minor quartz & feldspar						
		- quartz eyes 3%, 2 mm in size						
		- feldspar 2% euhedral grains						
		- occasional (3 mm chlorite patches						
		- 1-2 cm feldspar-rich (10%) bands beyond 86.0						
		- feldspars sausseritized						
		- bleaching and silicification begin 85.9 m						
		- wavy/kinked foliation 55° to CA						
		86.6 - 88.4 QUARTZ-CHLORITE-SERICITE SCHIST						
		- ground core at sharp contact						
		- mod. green 8% 1-4 mm quartz eyes						
		- dominantly chloritic matrix, weakly silicified						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 8 of 18

PROPERTY:

HOLE LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

DRILL HOLE LOG

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		- 1-2% dull disseminated euhedral pyrite						
		- foliation 50° CA						
		88.4 - 91.1 CHLORITE SCHIST						
		- soft, dark green rock with sharp upper contact						
		- abundant carbonate patches and stringers (1 mm)						
		- very dark chlorite similar to Sharon zone						
		- minor feldspar sausseritized eg. 89.9						
		- 2-3% coarse dissem py + cpy, aggregates up to 15 mm						
		- cpy at 88.8, 89.3, 90.8						
		- ground core, possible shear at 90.2, 91.0						
		91.1 - 94.5 CHLORITE-FELDSPAR SCHIST						
		- light green rock with gradual upper contact						
		- similar to above unit but marked by 3-5 cm wide feldspar-rich bands						
		- feldspars sausseritized, 1 mm, euhedral						
		- possibly a feldspar crystal tuff						
		- silicification and epidotization pronounced 93.0 - 94.5						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 9 of 18

HOLE LOCATION

DRILL HOLE LOG

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No
SECTION:
LOGGED BY
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No	ASSAYS
		94.5 - 116.1 CHLORITE SCHIST						
		- largely ground and broken core						
		- mafic unit with numerous shears, deformed foliation visible throughout section						
		- shearing generally parallel to foliation						
		- shears at 99.1 (65° CA) 105.5, 106.7, 110.3, 111.3, 112.2 (60° & 10° to CA)						
		- 1-2% py in 1-3 mm disseminations						
		- cp with py 94.8, 98.1, 98.8						
		- cp in fractures and qtz stringers 95.3, 96.0						
		- sporadic, weak sericite alteration or banding						
		- 99.7 - 116.1 in bands up to 60 cm						
		116.1 - 129.5 CHLORITE-(SERICITE) SCHIST						
		- mod to dark green chloritic rock with 1% feldspar crystals						
		- 117-122.1 mottled appearance due to patchy silicification, becomes very hard						
		- chlorite also becomes patchy						
		- pervasive sericite minor slowly increases						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 7 | PAGE No. 10 of 18

PROPERTY:

HOLE LOCATION:

AZIM: | ELEV:

DIP: | LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		117.5-118.1 - 5-7% coarse diss py up to 10 mm flattened along foliation (50° CA)						
		possible feldspar - rich fragments 119.9 m						
		121.6 - 15 cm of 10% pyrite						
		122.1 - 122.4 - intermediate dyke						
		- contacts 60° CA, sharp & irregular						
		massive light green, 1% diss py						
		123.6-124.4 - 16-15% pyrite & 1% cpy in coarse aggregates						
		- rest of unit continues 1-2% py with cpy at 125.8, 126.2						
		129.5-130.4 CHLORITE-QUARTZ EYE SCHIST						
		- thin dark green unit marked by presence of 3% 2-3 mm qtz eyes						
		- similar to above unit except for presence of qtz eyes						
		- foliation 40° to CA						
		- 2% diss pyrite						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 7 | PAGE No. 11 of 48

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:

STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		130.4-156.2 CHLORITE-(SERICITE) SCHIST (FRAGMENTAL)						
		- dark green chloritic rock, indistinct upper contact						
		- minor sericite in matrix, no quartz eyes.						
		- fragments up to 5 cm thick, usually rimmed by 1-5 mm euhedral pyrite						
		- fragments slightly darker, finer grained than host, barren of sulphides						
		- fragments increase to 10-15% of rock down the unit						
		- specks cpy: 132.6 in qtz-carbonate stringer 133.8 with strong silicification						
		- 132.9 - 10 cm fault gouge 35° CA						
		134.7-145.4 SULPHIDE HORIZON						
		- zone of 5-20% disseminated pyrite + chalcopyrite						
		- 137.2 lithic clast chlorite+sericite+feldspar						
		139.7 - Distinct bedding at 43° CA shown by 3 to 20 cm alternating chlorite and chlorite+sericite+feldspar						
		- foliation at this point nearly perpendicular to bedding (40° CA opposite dir).						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 PAGE No. 12 of 18

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

DRILL HOLE LOG

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM.	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- pyrite here is (1) elongate, fine gr along foliation						
		(2) coarse grained, outlining fragments						
		146.3-146.6 - banding & foliation again perpendicular						
		(32^{o} CA) and (45^{o} CA) respectively.						
		147.2-147.8 - patchy bleaching and silicification						
		147.8-148.1 - ground core						
		146.9-150.0 - Sulphide Horizon						
		- 10% disseminated sulphides (pyrite plus 1% cpy)						
		152.1 - banding and foliation parallel 35^{o} CA						
		- epidote patches 154.5						
		156.2-156.7 FAULT GOUGE						
		156.7-162.9 SILICEOUS QUARTZ EYE-SERICITE SCHIST -(MYLONITE)						
		- pale yellow-green, very hard siliceous schist, sericitic matrix						
		- 10 - 15% elongate quartz eyes						
		- strongly mylonitic						
		- silica alteration patches 1-3 cm wide,						
		- increases in strength and extent to 162 m						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. S5 CHEM 7 | PAGE No. 13 of 18

DRILL HOLE LOG

HOLE LOCATION:

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No
SECTION
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		- epidote alteration 160-161.1, patchy wispy						
		- epidote and silica alteration strongest 161.8-162.9						
		- 1% diss pyrite, cpy specks at 156.7						
		- foliation 45° CA						
		162.8 - complex 8cm qtz-carbonate veinlet network						
		162.9-168.9 GABBRO						
		- sharp irregular contact 55° CA						
		- sheared contact zone approx. 30 cm						
		- light green, fine grained ground mass, 5-8%						
		- feldspar phenocrysts 3mm, subhedral						
		- numerous qtz-carbonate stringers 5-30 mm 165 to 168.5						
		- weakly magnetic locally						
		168.9-182.6 QUARTZ VEIN NETWORK						
		- upper contact in broken core, lower contact sharp						
		- white densely fractured quartz with numerous *gabbroic inclusions, strongly magnetic*						
		- 1-5% sulphides, pyrite and chalcopyrite						
		- occurs preferentially near gabbro inclusions and exclusively associated with fractures.						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 14 of 18

DRILL HOLE LOG

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:

DIP: LENGTH:

CORE SIZE:

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		182.6-210.8 GABBRO						
		- contact 35° CA						
		- weakly magnetic						
		- 10% 5 x 15 mm qtz-carbonate patches						
		- quartz vein 184.9-185.6						
		- feldspar increases to 30-40% in massive section beginning at 187 m						
		- patchy epidote and epidotized feldspar become abundant with increasing depth						
		- cpy in qtz-carbonate bands 191.1, 199.3 m						
		- marginal shear zone develops 204.5, increasing in intensity to 210.8						
		- shearing 35° CA						
		- epidote and silica - alteration pronounced						
		- in marginal shear						
		- 1-2% fine pyrite in fractures						
		- 210.8-210.9 FAULT						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 7 PAGE No. 15 of 18

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:

STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		210.9-217.6 MYLONITE						
		- yellow - white, very hard, siliceous rock						
		- quartz - sericite matrix						
		- strongly granulated quartz and gabbroic inclusions (2 cm)						
		- random qtz - carbonate stringers						
		- intense silicification, pervasive						
		- first recognisable quartz eyes 213.1						
		217.6-220.5 - SILICEOUS QUARTZ EYE SCHIST						
		indistinct contact as mylonitization weakens						
		- yellow, sericite-quartz matrix with 5-8% 1-3 mm oblate quartz eyes						
		- intensely silicified, minor wispy chlorite						
		- densely fractured but not markedly mylonitic						
		220.5-222.2 QUARTZ-FELDSPAR SCHIST						
		- light green, probably a qtz-feld crystal tuff						
		- coarse grained, chlorite & sericite & quartz matrix with 8% 3-5 mm qtz eyes, 5% 1-3 mm euhedral feldspars						
		- strong silicification						
		- foliation 60° CA, weakly developed						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 16 of 18

HOLE LOCATION:

DRILL HOLE LOG

AZIM | ELEV
DIP: | LENGTH:
CORE SIZE:
STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		221.7-222 - unusual 1-4 mm brown stringers weakly reactive - iron carbonate ?						
		222.2-230.3 GREEN SILICEOUS QUARTZ EYE SCHIST medium green, siliceous rock, sericite & (chlorite) & quartz matrix						
		- 3-5% 1-4 mm qtz eyes						
		- weak foliation, generally more massive than earlier schists						
		- 222.8-223.7 - 5% patchy brown spots as seen in stringers above, v. weakly reactive						
		226-230 patchy epidote alteration						
		227-227.2 - possible mafic dyke - dark green, soft chloritic with quartz - carbonate stringers, minor feldspar						
		- cpy at 227.5, specks						
		230.3-232.3 SILICEOUS CHLORITE QUARTZ EYE SCHIST						
		- upper contact diffuse, marked by broad band of epidote alteration						
		- dark green, chloritic matrix, very hard due to weak to moderate silicification						
		- 5% 1-3 mm qtz eyes						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 7 | PAGE No. 17 of 18

PROPERTY:

HOLE LOCATION:

AZIM: | ELEV:
DIP | LENGTH
CORE SIZE:

STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No	ASSAYS
		patchy epidote alteration 231.9, 232.1, 232.6-232.7						
		232.7-235						
		- shear at 230.9						
		232.3-236.5 MARGINAL SHEAR ZONE						
		- highly deformed contact zone of gabbro						
		- chloritic, contact distinct with previous unit						
		- foliation 50° CA						
		- numerous qtz-carb patches & stringers						
		- abundant patches & wisps of epidote, eventually forming continuous anastomosing network						
		236.5-334.1 GABBRO						
		- contact, marked by appearance of feldspar as phenocryst phase, 1-3 mm						
		- epidote alteration continues as before, though it is less dense						
		- minor chlorite after hornblende						
		- 6 cm qtz veins at 256.1, 257.9 258.6, 263.7, minor cpy in qtz.						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 7 | PAGE No. 18 of 18

HOLE LOCATION

DRILL HOLE LOG

AZIM. | ELEV.
DIP. | LENGTH
CORE SIZE

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

STARTED.
COMPLETED.
PURPOSE.
CORE RECOVERY

CLAIM No.
SECTION.
LOGGED BY.
DATE LOGGED.
DRILLING CO.
ASSAYED BY.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		foliations:						
		35° CA at 266.4 30° CA at 278						
		55° CA at 283.8 50° CA at 292.7						
		25° CA at 296 55° CA at 302						
		35° CA at 310.3 60° CA at 323.1						
		Shear zones: 283.2-283.8, 296.6-303.3, 305.7-307.1, 312-313, 314.9-315.9, 321.3-325.2, 330.4-331, 333.4-334.1						
		Bornite specks in qtz-carb veinlets or disseminated at 304.3						
		- bn + cpy at 312.1, 315.2, 330.9						
		334.1 END OF HOLE						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No.	PAGE No
85 CHEM 8	1 of 21

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION: 1 + 45W 12 + 70S

AZIM 192° | ELEV 855 m

DIP -60 | LENGTH 318.8 m

CORE SIZE NQ3.4-163.6

STARTED: July 12, 1985 | BQ 163-318.8

COMPLETED: July 20, 1985

PURPOSE: 1) Test IP anomaly at depth and Sharon geology.

CORE RECOVERY: +93%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
18.3	-	-59.5	309.7		-49.5
57.9		-59			
119.8		-59			
182.9		-59			
243.8		-56			

CLAIM No: BRENT 1

SECTION: 1 + 50W

LOGGED BY: K. Rye

DATE LOGGED: JULY 12 - JULY 20, 1985

DRILLING CO: BOISVENUE DRILLING, RICHMOND, B.C.

ASSAYED BY: CDN RESOURCE LAB, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		0 - 3.4 m CASING						
		3.4 - 5.6 Pale Green Sericite-Chlorite Schist						
		-Fragmental ?						
		- deeply weathered, pale green-white very soft rock						
		- fine grained matrix of chlorite, sericite and talc						
		- abundant 1 - 2 mm dark chlorite spot (also chlorite & quartz) elongated 30° to CA along foliation						
		- slightly mottled appearance - may be fragmental						
		- fine, wispy appearance due to bleaching						
		- 3% fine grained euhedral pyrite dissem and in chlorite and chlorite and quartz patches						
		4.6 - 4.9 - 30 cm 15% coarse pyrite up to 6 mm						
		5.6 - [illegible].6 Mafic Flow						
		- dark green, fairly distinct contacts, very soft						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 2 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		- dark chloritic matrix with 3 - 5% fine to medium grained disseminated pyrite						
		5.8 - 5.9 pyrite bands, 5-8 mm wide along foliation						
		foliation 50° CA						
		- 5% sausseritized feldspars 2-3 mm						
		6.6 - 8.4 Pale Green Sericite-Chlorite Schist						
		- fragmental ?						
		- similar to previous schist						
		- wispy alteration and/or deformation more pronounced, especially 7.6 - 8.2						
		- 3 - 5% altered feldspars 2 - 4 mm						
		- possible fragments 2 x 5 cm e.g., 6.8, 7.3						
		8.4 - 10.8 Mafic Flow						
		- sharp, irregular upper contact approx. 35° CA						
		- sharp lower contact 60° CA						
		- 5 - 8% feldspars less than 1-3 mm, sausseritized						
		- weathered chlorite matrix						
		- 5 - 8% medium grained diss py						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 8 | PAGE No 3 of 21

PROPERTY:

HOLE LOCATION:

DRILL HOLE LOG

AZIM | ELEV
DIP | LENGTH
CORE SIZE

STARTED:
COMPLETED:
PURPOSE:
CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		10.6 - 13.6 Intermediate Fragmental						
		- similar to earlier fragmental (?) units, except fragments clearly visible here						
		- badly weathered and broken core 39 - 44						
		- fragments up to 5 cm usually flattened best seen 11.3 - 11.9						
		- angular clast 11.1						
		- fragments generally pale green, fine grained aphyric						
		- matrix sericite-chlorite-talc with locally 10% 1 - 2 mm feldspars						
		- 1 - 2% finely diss pyrite						
		- foliation 50° CA						
		- some fragments appear usually bleached						
		13.6 - approx. 17.7 Quartz-Feldspar Lapilli Tuff						
		- deeply weathered						
		- upper contact sharp irregular						
		0 - 15 (variable) 2-5 cm quartz eyes in pale green						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 8 | PAGE No. 4 of 21

PROPERTY:

HOLE LOCATION:

AZIM: ELEV

DIP: LENGTH

CORE SIZE

STARTED:

COMPLETED:

PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO:

ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		sericite-chlorite-talc matrix						
		- 5-8% 1 mm sausseritized feldspars						
		- 3-5% fine dissem pyrite aligned with foliation						
		- Chalcopyrite at 17.1 foliation 55° CA						
		- chalcopyrite specks 14.3						
		- possible sulphide clasts 14.3						
		- possible weak, hazy bleaching, patchy						
		17.7 - approx. 39.0 Quartz Lapilli Tuff (Tyee Rhyolite)						
		- coarse grained white-grey unit						
		- indistinct upper contact						
		- variable 10-20% 1-4 mm rounded to oblate quartz eyes						
		in a quartz-sericite matrix						
		- 1-3% pyrite (I) fine disseminations						
		(5% locally) (II) 1-3 mm discontinuous seams within foliation						
		(III) 1-3 mm vug filling						
		(IV) - also 1-5 mm crosscutting pyrite						
		stringers						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No: 85 CHEM 8 | PAGE No: 5 of 21

PROPERTY:

HOLE LOCATION:

AZIM: ELEV:
DIP: LENGTH:
CORE SIZE:

STARTED:
COMPLETED:
PURPOSE:

CORE RECOVERY:

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No:
SECTION:
LOGGED BY:
DATE LOGGED:
DRILLING CO:
ASSAYED BY:

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		chalcopyrite at 20.4, 21.0, 21.9, 23.8, 24.4, 27.1, 30.5						
		Foliations 55° CA at 18.3						
		40° CA at 21.9						
		40° CA at 25.9						
		40° CA at 30.2						
		43° CA at 34.6						
		29.3 - 29.6 - thin mafic dyke or fragment, sharp, irregular contacts						
		30.6 - 32.0 - badly fractured and weathered core, possible shear						
		37.6 - 38.1 - 5-8% pyrite in bands in foliation						
		- possible sulphide clasts (?)						
		- at 37.6						
		Foliation 60° CA 38.4						
		Approx. 39.0 - 64.0 Lvee Rhyolite, Chloritic Quartz Crystal Tuff						
		- very gradual contact, similar to above unit, with the exception of significant amounts of chlorite yielding a light green colour.						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 8 | PAGE No 6 of 21

DRILL HOLE LOG

HOLE LOCATION

AZIM | ELEV

DIP | LENGTH

CORE SIZE

STARTED

COMPLETED

PURPOSE

CORE RECOVERY

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No.

SECTION

LOGGED BY

DATE LOGGED

DRILLING CO

ASSAYED BY

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		- foliations: 35° CA at 41.4 43.6						
		1 - 3% fine disseminated pyrite, largely along foliation						
		- specks chalcopyrite 42.4						
		- unusual blue-black mineral 3 mm (Supergene Bornite?)						
		- subhedral in silicified patch 39.3						
		- hazy bleaching in patches and around quartz eyes						
		- very minor silicification						
		- 1 x 3 cm fragments 41.0 and at 51.2-55.2 very common						
		deeply weathered zones 45.1-46.0, 49.2-49.4						
		- foliations 40° CA at 46.3 45° CA at 49.7 50° CA at 55.2						
		- feldspar crystals occasionally, e.g. 51.2 1 mm euhedral crystals						

PROPERTY:

KIDD CREEK MINES LTD

HOLE No: 85 CHEM 6 | PAGE No: 7 of 21

HOLE LOCATION

DRILL HOLE LOG

AZIM | ELEV

DIP | LENGTH

CORE SIZE

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

STARTED

COMPLETED

PURPOSE

CORE RECOVERY

CLAIM No:

SECTION:

LOGGED BY:

DATE LOGGED:

DRILLING CO

ASSAYED BY

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE %	SAM No	ASSAYS
		fault gouge 56.0-56.9						
		foliations 25° CA at 57.3						
		40° CA at 60.5						
		50° CA at 65.5	65.8	68.9	90%			
		47° CA at 87.8						
		patchy bleaching and silicification 57.9-65.5						
		becoming weakly pervasive 65.5 - on						
		64.0-82.8 Type Rhyolites Fragmental						
		15-20% 1-2 mm euhedral						
		* epidotized feldspars w/10% 1-4 mm quartz eyes						
		- grades to 66.4 to 5% feldspar						
		- feldspars also noted at 67.7-71.9						
foliation 74.7 /35° CA		- coarse, elongate fragments at 223						
78.9 /45° CA		- minor sericite alteration in this section						
		ground core 64.6						
		- chalcopyrite specks 77.4-79.2, less than 1						
		- fragments up to 10% of core 1-4 cm angular to elongate						
		- sulphide-rich fragments at 78.6, 79.5, 80.2						
		- 10% fresh-looking white feldspar (79.6-82.6)						
		- 1-3 disc /m throughout						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 83 CHEM 8 — PAGE No. 8 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- weathered zone 82.0-82.8						
		- graphitic, pyritic fault gouge 82.8						
		- 82.8-92.5 Type Quartz Feldspar Crystal Lapilli Tuff						
		- Fragmental ?						
		- mottled pale blue, possible 5-10% fragments dark green						
		- foliation 83.5, 37° CA						
		- 1-3% diss py						
		- 1 cm pyrite stringers 0-20° to CA (perpendicular to foliation) 83.2, 83.8						
		- possible weak bleaching (?) around fragments(?)						
		- silicification in patches 89.0-89.6						
		- foliations 40° CA at 87.5 45° CA at 92.0						
		- graphitic slips, shears 86.6-87.0						
		- sulphide clasts, e.g., 89.0						
		92.5 - approx. 95.4 Mafic-Int Tuff (Flow?)						
		- massive, dark green, sharp, irregular upper contact						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 9 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- lapilli tuff inclusion 92.6						
		- grades into feldspar & quartz phyric unit resembling crystal tuff						
		- indistinct lower contact						
		- 3-5% V. fine grained diss sulphides, minor chalcopyrite, mostly py.						
		95.4-96.5 - Quartz Felds Crystal Tuff						
		96.5- approx. 108.5 FINE GRAINED GABBRO						
		- dark green, fine grained						
		- 3% 1 mm feldspar crystals usually - elongate, some starting to show glomerophyric intergrowth						
		- chloritic ground ms						
		- very minor sulphides						
		- occasional "fragments" (?) e.g., 98.4, 105.2 up to 2 cm						
		- rare qtz-carb stringers						
		- quartz vein 105.9 15 cm wide						
		- distinct upper contact, gradual lower contact						
		- epidote patches, webs and "spheres" common (e.g., 100.3)						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 10 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		foliation 28° CA at 100.3 50° CA at 103.0						
		108.5-120.7 Quartz-Feldspar Crystal Lapilli Tuff - gradual contact into previous unit - variable white - lt green - med green depending on variable chlorite content - up to 10- locally (5% arc) 1-2 mm euhedral feldspar - up to 5% 1-4 mm rounded quartz eyes - quartz-sericite+ (chlorite) matrix, vuggy - streaky chloritic appearance ~70° CA primary bedding (?) - strongly silicified approx. 108.5-113.4, bleaching gives white colour 116.7-118.3 - increasingly chloritic, 10% feldspar, still silicified 119.2-119.5 barren quartz vein						
		120.7-122.0 - Chloritic Schist (Possibly Fine Grained Gabbro) - dark green chloritic + sericitic schist possible shear highly deformed, with foliation 20-25° CA						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 5 — PAGE No. 11 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		- 5% fine-med grained pyrite						
		- 10% pyrite at 399, 122.2-122.8, pyritic bands 10 - 15° CA						
		- 15 cm quartz vein 121.6						
		123.0-138.4 Feldspar-Quartz Crystal Tuff						
		- pale green						
		- 30% 1-2 mm euhedral epidotized feldspar						
		- 5-8% 2-3 mm oblate quartz eyes						
		- feldspar content variable in broad bands						
		- strong pervasive silicification						
		- 5% pyrite at 164.3 overall less than 1% pyrite foliation 70° to CA at 130.7						
		- 70° to CA at 134.7						
		- shear zone, broken core 137.5-138.4 appearance - primary tuff bands (?)						
		138.4-153.1 Sericite-Chlorite Schist						
		- pale green, indistinct contact (at shear zone), may be part of previous unit						
		- quartz-sericite matrix with mottled appearance due to 1-6 mm chlorite blebs which give streaky appearance - primary tuff bedding?						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 12 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- strong pervasive silicification						
		- occasional feldspar bearing band e.g., 134.0						
		- less than 1% sulphides						
		- specks chalcopyrite at 134.0						
		- 10 cm 40-50% pyrite in quartz-carbonate alteration patch 139.9						
		- 140.8-148.0 - intense silicification						
		- feldspar - rich band greater than 143.3-144.2						
		- chalcopyrite specks 144.9						
		- 152.1 becomes slightly darker green, very strong silicification						
		- becomes 1-8% feldspar phyric 153.3						
		- 164.6-168.9 20% feldspar						
		155.3-168.9 Feldspar-Quartz Crystal Tuff						
		- 5-10% 1-3 mm euhedral felds + 3-5% rounded 1-4 mm quartz eyes in						
		med. - dark green mottled chlorite-quartz-sericite matrix						
		- v. strong silicification, epidotized feldspar						
		- 1% diss pyrite						
		- foliation 37° CA at 164.6 m						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No: 85 CHEM 8 | PAGE No: 13 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No.	ASSAYS
		168.9 - 174.6 Mixed Felsic to Intermediate Tuff(Fragmental)						
		- sharp upper contact, gradual lower contact, medium to light green felsic appearance						
		- 168.9-169.2 - 50% less mafic lapilli						
		- interlayered with minor feldspar crystal lapilli						
		- layers give mottled streaky appearance						
		- 170.7-174.6 - largely chlorite-sericite schist						
		5% 1 cm clasts						
		- 3-5% fine to med. gr. diss py						
		- quartz vein 171.3						
		- occasional quartz eye 5 mm						
		- foliation 50° CA at 173.7						
		174.6-178.6 Feldspar-Quartz Crystal Lapilli Tuff						
		- similar to previous feld-quartz unit						
		- 25-40% feldspar phenocrysts, 5% quartz eyes						
		- intense pervasive silicification						
		- 1-2% fg Diss pyrite, specks chalcopyrite at 178.0	185.0 Core-	187.5 75 cm 24 m	30%			
		178.6-183.0 - Chloritic Quartz Eye Tuff						
		- 5-10% 1-3 mm quartz eyes + minor feldspar in dark green chlorite sericite matrix						
		- 3% disseminated pyrite						
		- strong pervasive silicification, increasing down hole						
		- foliation 28° CA at 181.4						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85 CHEM S — PAGE No. 14 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		183.0-196.6 Quartz-Chlorite-Sericite Schist						
		- variable pale to dark green, very hard tuff with Tyee rhyolite sills (?)						
		- variable chlorite and sericite content						
		- rare visible 1-3 mm quartz eyes						
		- highly fractured						
		- intensely silicified						
		- less than 1% disseminated pyrite						
		- 50° CA foliation at 189.3						
		196.6-213.1 Gabbro - Marginal Phase						
		- upper contact in broken core						
		- medium to dark green chloritic unit quite soft						
		- 1960 - approx. 200.3 - very coarse fragmental with up to 20% epidotized lithic clasts (up to 10 cm ?) are 1-3 cm						
		- excellent roll and flow textures around many clasts, e.g., 201.2-203.0						
		- larger fragments cut by 2 mm quartz						
		- veins, granulated around margins						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 65 CHEM 8 — PAGE No. 15 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		- grades past approx. 182.9 to a finer lapilli						
		- fragmental 10-20% lithic clast, some epidotized, most chloritic						
		- fractured and offset epidote and quartz-epidote						
		- veinlets e.g., 205.6						
		foliation 0-10° CA at 199.3						
		25° CA at 200.0						
		40° CA at 203.0						
		* fragments strongly elongated parallel to CA						
		205.1-15 cm quartz + epidote section						
		- overall approx. 1% disseminated pyrite usually along foliation						
		204.2-204.8 approx. 5% very find grained pyrite						
		- occurs also in epidotized fragments, e.g. 204.5 up to 15% of fragment						
		- also in late quartz veinlets and tension gashes e.g. 205.9 (photo)						
		210.9-213.0 - 5-8% dull pyrite, largely in wispy chloritic fragments + epidote knots						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 16 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		213.0-236.7 SILICEOUS DACITIC ROCK						
		- light green, very siliceous quartz-sericite+ (chlorite) schist						
		- distinct upper contact						
		- no particularly obvious quartz eyes or feldspars						
		- possible fragments 213.0-218.8						
		- past 218.8 rock is uniform, very fine grained, looks bleached						
		- shear/brecciated 50° CA 214.0-214.8						
		- chalcopyrite at 214.1, 214.7						
		- 1% py diss overall						
		- wispy, whitish alteration mineral common over-printed by intense silica alteration						
		- pyritic stringers 3 mm wide 219.1, 220.7						
		- increasingly chloritic (fragments?)						
		- shear zone 45° CA, 224.6-224.9						
		- fault 1.5', 224.9-225.4						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 17 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		minor quartz eyes 225.6, 230.1						
		possible clasts and or brecciation 231.9-236.2						
		- 5% pyrite concentration 15 cm at 227.1						
		foliation 40° CA at 227.1						
		60° CA at 233.8						
		- possible small patches of sphene (?) with epidote 233.2-236.7						
		- contact with gabbro sharp, marked by 15 cm quartz-epidote-chlorite vein						
		236.7-248. Gabbro						
		- medium grained gabbro 15-20% 2 mm euhedral feldspar phenocrysts						
		- epidote patches up to 5 cm e.g., 240.2						
		- quartz veins less than 8 cm at 240.5, 240.8, 241.1						
		- chalcopyrite in shear 246.1						
		- approx. 1% pyrite local bands 2 mm wide						
		- chalcopyrite 240.2, 240.9						
		- 10% pyrite 245.6-248.7 at contact						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No 85 CHEM 8 | PAGE No. 18 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		foliation 15° CA at 243.2						
		248.7-305.9 SILCEOUS DACITIC ROCK						
		- white, very hard, looks bleached						
		- extreme silicification probably due to gabbro						
		- 5-15% 2 mm feldspars + albitized veinlets?						
		- 5% chloritic wisps up to 2 cm long						
		- 3% pyrite in small rounded spots less than 3 mm						
		- distinct foliation 47° CA 249.9						
		40° CA 252.4						
		35° CA 256.9						
		- 251.4-253.3 - 2-5% pyrite in foliation & diss						
		- 256.0-263.5 - First Sulphide Zone						
		- 5% total sulphides						
		- 2% py, 2% pyrrhotite						
		1% chalcopyrite						
		- cp + po occur intergrown in 5 mm						
		aggregates and along foliation						
		- po in epidote veinlet 258.5						
		- thin po + cp lenses 257.6-263.6						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 8 | PAGE No. 19 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- rock seems slightly more sericitic and talcose in high sulphide zones						
		- sulphides drop to 1% from 263.5						
		- foliations 25° CA at 259.4						
		25° CA at 262.7						
		30° CA at 269.1						
		25° CA at 271.0						
		- barren zone approx. 265.2-270.1, fine grained (mylonitic?) quartz-ser schist strongly silicified						
		270.1-272.8 Second Sulphide Zone						
		- 3% total sulphide						
		- 2% brownish pyrite in aggregate and cubes up to 5 mm						
		- 1% fine pyrrhotite						
		- specks chalcopyrite						
		- 271.3 - py + po in shear and lining carbonate veinlets.						
		- possible fractured and rolled 2 mm quartz eyes, up to 3-5%, from 249.9 - on.						
		* transition from barren to sulphide zone very abrupt						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 8 — PAGE No. 20 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		272.8-278.9 massive siliceous barren zone						
		occasionally talcy/sericitic						
		- broken core 274.0-278.6						
		- faults at 274.3, 277.7, 281.9						
		shear 279.2 28° CA						
		chalcopyrite 279.5 specks						
		- foliation 30° CA at 285.6						
		285.0 albite? veinlet						
		hazy white mineral in intensely silicified zones						
		as small 1 mm spots and as 2 mm wide continuous						
		bands (see photo)						
		- weakly to moderately mylonitized irregularly						
		through section						
		1% pyrite 289.9-139.0 fracture filling and diss.						
		- banding of sericitic and quartz-rich bands						
		1-2 cm 295.6-298.7						
		- chloritic-carbonated shear 15 cm + 3% pyrite						
		297.5						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 8 | PAGE No. 21 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- becomes weakly chloritic 300.5						
		- possible fragments 288.9-292.6						
		foliations 20° CA 287.7						
		34° CA 294.1						
		40° CA 296.3						
		30° CA 301.1						
		25° CA 304.8						
		35° CA 307.8 (gabbro)						
		305.9-318.8 GABBRO						
		- sharp irregular contact						
		- 305.9-307.5 - marginal carbonated shear 35° CA						
		- increasing feldspar phenocrysts (307.5-318.8)						
		- 315.5-318.8 - medium grained 10% feldspar						
		foliation 20° CA						
		1048 318.8 m END OF HOLE						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No. 85 CHEM 9 | PAGE No. 1 of 21

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION: 15 + 65 W 2 + 50 N

AZIM 183° | ELEV 960 m
DIP -50° | LENGTH 211.5 m
CORE SIZE NQ 10'-211.5

STARTED: JULY 5, 1985
COMPLETED: JULY 8, 1985
PURPOSE: Test I.P. - V.L.F. conductor

CORE RECOVERY: 99%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
56		-48 1/2			
200		-49			
400		-48			
600		-51			

CLAIM No: Oak 1
SECTION: Line 15+50W
LOGGED BY: K. RYE, S. ERNS (152.0-EOH)
DATE LOGGED: JULY 6-9, 1985
DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.
ASSAYED BY: CDN RESOURCE LABS, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		0-10 m CASING						
		10-48.6 GABBRO (?)						
		- fine grained "gabbro" probably						
		2 or more phases						
		1) homogeneous, fine grained light green with						
		0.5 - 1 mm chlorite blebs						
		- contains 1% euhedral diss pyrite						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 9 — PAGE No. 2 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		2) coarse grained green-pink phase with 1-3 mm chlorite after hornblende (?) and approx. 25% light pink mineral, probably result of potassium (K spars), strong epidote alteration						
		- contacts between the phases generally sharp and irregular						
		- phase 2 also bears 1% fine diss py						
		- both phases, but especially the pink phase are densely fractured and cut by quartz-carbonate veinlets and fractures						
		- in phase 2 the carbonate fills large patches 5 cm wide after bearing gabbro fragments (e.g., 12.5, 14.3, 15.2, 16.2)						
		- phases change rapidly back and forth						
		- pyrolusite dendrites 11.6						
		- chlorite occasionally rims the carbonate patches (1-2 mm rims and fracture fillings) e.g., 18.1						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 9 | PAGE No. 3 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		18.7 - sharp contact phase 1-2						
		19.8 good example/fracture controlled alteration - 1 cm envelop of epidote + chlorite in "pinkish" phase						
		- colour difference between fine and coarse phases probably not real - more a function of textural differences						
		Coarse phases: 10.2-10.4, 11.6-11.9, 14.0-16.3, 18.3-18.6, 19.2-20.7 (very approximate)						
		- many minor offsets can be found throughout this section 1 (up to 1 cm) best seen by offset carbonate stringers						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 9 | PAGE No. 4 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		fine grained intrusive (?) phases found at:						
		23.5-23.9 m						
		25.1-25.9 m sharp to very sharp contacts						
		29.9-30.2 m						
		30.3-30.4 m contacts 70° CA (lower)						
		30.8-31.4 m						
		32.2-32.6 m lower contact 30° CA						
		- these fine grained "mafic" segments contain 5% rounded 1-2 mm carbonate spots						
		- carbonate stringers crosscut all contacts						
		- possible haematite in carbonate 21.9 m						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No 85 CHEM 9 | PAGE No. 5 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		- diss py along chloritic fracture 23.5, 26.3						
		- unit is pervasively carbonated although the 2nd intrusive phase is not as strong. The coarse gabbro is consistently reactive.						
		more fine grained phases: 32.9-33.2 - sharp contacts - upper irreg. 0.5° CA 1 cm - lower 35.2-35.3 - upper contact 60° CA - lower contact not seen						
		38.4 small kink in chlorite stringer 40.2 10 cm band fine mafic with 20 coarse calcite and pink carbonate (?) sharp lower contact 35° CA						
		42.0 weak phase change 70° CA						
		- carbonate veinlets coarsen to 1 cm 44.2-48.5						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. [illegible] CHEM 6 — Sh. No. 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		- large, diffuse carbonate patch 5 cm at 45.7 m						
		48.5 - 51.7 GRAPHITIC ARGILLITE						
		- upper contact sharp, 20° CA						
		- contact graphitic						
		- graphite on slip surfaces						
		- black, moderately soft, highly deformed						
		- numerous vuggy carbonate veinlets, 2 orientations						
		1) 20° to CA, parallel to bedding						
		- usually less than 2 mm						
		2) coarse (up to 1 cm) at 30-40° CA opposite direction						
		- abundant 1 cm offsets						
		- bedding clearly visible, finely banded 1-5 mm, deformed						
		- 10% coarse, angular inclusions up to 5 cm						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 9 | PAGE No. 7 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		- 2 foot contact zone is strong tectonic breccia with "gabbro" inclusions which were later offset and cut by quartz carbonate stringers (Photo 1)						
		49.4-51.5 - 1-3% 1-2 mm spots visible in argillite - contact effect?.						
		- strongly brecciated						
		51.7-56.8 "BUFF UNIT"	10	68.3	100			
		- upper contact is zone of strong brecciation of both intrusive and argillite	68.3	71.3	100			
		- many 1-8 cm intrusive inclusions within argillite						
		- contact zone 45 cm (51.2-51.7)						
		- lower contact has very few inclusions within argillite						
		- generally light green, becoming distinctly buff coloured at margins						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 8 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- weak pervasive carbonate with abundant quartz - carbonate veinlets up to 1 cm						
		- veinlets are random (up to 1-2%)						
		- no particular schistosity						
		- slight pinkish colour similar to earlier intrusive						
		- generally med-fine grained, no phenocrysts visible						
		- numerous 1 cm offsets on veinlets						
		56.8-63.85 ARGILLITE BRECCIA						
		- upper contact sharp						
		- hard, black argillite probably hard due to contact effect with intrusive						
		- strongly deformed, brecciated fragments of intrusive rock appear beginning 57.6 account for up to 50% of rock locally						
		- dense quartz-carbonate veining usually 1-1.5 cm						
		- most common orientation 30° CA						
		- qtz-carbonate veins offset, many are continuous through argillite and fragments						
		58.2-58.5 - argillite bleached						
		60.6 - rock appears cataclastic						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 9 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- coarse qtz-carb patch 5 cm						
		61.0-63.1 - large inclusion on small "buff-coloured" dike, as previously described.						
		60.6 - appearance of red & yellow minerals (??) on fracture surfaces - poorly formed, no visible clearage						
		63.1-63.4 - dyke material						
		63.8-64.9 "Buff Unit" (intermediate dyke ??)						
		- as described before						
		contacts well preserved, sharp						
		upper - 58° CA						
		lower - 75° CA						
		- appear to be narrow (less than 2 cm) chill margins						
		- again, fracture and pervasive carbonate						
		- 1-2 mm spots of qtz-carb 10%						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 10 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	RECY	EST. GRADE	SAM. No.	ASSAYS
		64.9-79.8 Argillite Breccia						
		- as before						
		- graphitic contact 64.9						
		- coarse angular inclusions of intermediate material up to 10 cm e.g., 65.2-65.5						
		- rock has been intensely ground e.g., 65.6 - matrix of finely ground argillite fragments less than 2 mm						
		66.1 fragment of fine, bedded psammite bedding 1-5 mm, 6 cm						
		- graphitic on broken surfaces, still quite hard						
		67.0-67.4 - dyke material 5-8% qtz-cer+qtz spots less than 2 mm, rounded						
		68.0 - 3 fragment types 1) dyke 2) psammite 3) bedded argillite						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85 CIEM 9 — PAGE No 11 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		- occasional v. fine pyrite on slips ..]						
		- 70.9-71.5 psammitic layer (?)						
		bedding 20° CA						
		71.5-72.5 - dominantly dyke material						
		10% argillite *						
		section 72.5-79.8 - fine, hard argillite graphitic						
		slips with yellow and red minerals						
		- 10% qtz carbonate veinlets 1-2 cm						
		- dyke or fragments at 74.4-74.7						
		78.6-79.2						
		10% 1-5 cm dyke clasts						
		bleached clasts 76.5						
		minor psammite 79.2						
		75.6 - 15 cm graphite/gr argillite						
		79.9-80.3 - Buff Coloured (int. Intrusive ?)						
		- as before						
		- vague upper contact						
		- no evidence of cooking or chill margin						
		- 10% random 1-3 mm qtz-carb veinlets						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 12 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		83.8 patchy silicification and quartz veining						
		85.0 - 15 cm argillite						
		83.2 - 85.3 - highly sheared appearance						
		84.7 approx. 20° CA)						
		84.4 - redbrown iron carbonate (?) with carbonate stringer						
		85.3-103.9 Argillite Breccia						
		- as before						
		- upper contact sharp 30° CA						
		- highly ground rock, at approx. 50° CA						
		- thin psammitic lenses						
		- ever present red-yellow minerals						
		85.6 and onward, on surfaces						
		5% carbonate (fracture) veinlets, 10% locally (e.g., 87.5)						
		87.5 - qtz-Carb, psammite and argillite fragments, strongly sheared						
		- overall, 50% 1-6 cm fragments of various types, angular						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 13 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No.	ASSAYS
		graphite 86.4, 92.4-92.9 (very graphitic zone)						
			to	309	100			
		92.4 graphite zone badly ground core,	301	309	90			
		abundant red mineral (hematite-clay ?)						
			309	320	100			
		92.7 1-2% red mineral in fractures and brown						
		space filling in calcite weakly reactive - iron						
		carbonate (?)						
		- increasingly soft, ground and graphitic						
		past 95.1						
		96.3-97.2 graphitic/gr argillite						
		97.8 - bleached argillite						
		98.4-98.9 - finely and strongly brecciated						
		intermediate dyke (?)						
		100.6 - "banding" of breccia at 35° CA						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 14 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		103.9-123.1 Buff Coloured Intermediate						
		- 3 foot upper brecciated contact zone						
		pale green moderately siliceous						
		- pyrolusite on fractures						
		- possible 5% 1 mm qtz eyes						
		- 5% random qtz-carbonate stringers						
		- fault at 105.8						
		- strongly brecciated 106.1-108.2						
		angular fragments < 4 cm						
		- broken core 106.4-107.0						
		- first 3 m greenish coloured						
		- strong breccia all the way down, similar to earlier description						
		- no visible foliation, sulphides						
		109.4 broken core possible gouge						
		- weak, patchy silicification at 113.4, 114.6, 117.6						
		- slickensides at 25° CA at 115.8						
		119.5 < 1% fine diss pyrite associated with quartz-carbonate veining						
		121.6-123.1 - "marginal" rocks become green again as at the start of this unit.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85 CHEM 9 — PAGE No. 15 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		123.1-134.6 Graphitic Argillite Breccia						
		- upper contact in broken core (404-407)						
		- similar to earlier argillite breccia, but higher graphite content						
		- occasional graphite layers						
		- unknown red mineral occurs with graphite on fracture surfaces throughout section						
		- finely laminated bedding 25° CA, 124.4, 129.8						
		- 124.8-125.7 Buff-coloured dyke, highly brecciated						
		128.0 - strong cleavage parallel to CA						
		130.0-131.5 Buff Coloured Dyke						
		132.6 - Bedding 35° CA						
		134.6-140.5 Buff Coloured Dyke						
		- as before						
		- becoming chloritic with 1% fracture pyrite approx. 136.2-140.5						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 16 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No	ASSAYS
		138.4-140.5 increasingly strong shear foliation develops 35° CA						
		- 139.6-140.5 shear zone						
		140.5-141.3 - Fault, Fault gauge on argillite						
		141.3-145.1 Buff Intermediate						
		- highly sheared at approx. 50° CA						
		- bleached argillite section (inclusion?) 142.5-143.0						
		145.1-145.8 Fault Gouge						
		- shear at 25° CA in contact with buff unit						
		- sharp contact						
		145.8 - 8 cm of flour, cut with knife						
		146.0-152.4 Chloritic Schist						
		- rough, very soft, light green						
		- chlorite + sericite matrix highly and completely deformed						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85-CHEM-9 — PAGE No. 17 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- approx. 5-8% 1-4 mm feldspar crystals some of which appear saussoritized						
		general foliations - 60° CA at 147.8 50° CA at 150.0 60° CA at 151.0						
		- possibly a sheared gabbro						
152.4		Chlorite Schist 152.4-165.4						
		- strongly foliated at 155.9 at 158.5 at 164.0						
		- dark green above 153.3 and compositionally						
165.4		more consistent with strung out white feldspars						
		- below 153.3 chloritic schist is strongly banded by numerous dark green phyllitic bands 1-5 mm wide which define foliation; locally the unit becomes phyllitic throughout						
158.5		- white calcite veinlets are very common; they parallel foliation and in several places cut normal to it.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 18 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- in more phyllitic zones crenulation cleavage						
		has developed with common occurrences of minor						
		hematite on foliation planes.						
161.5								
		- narrow fault zones at 15[illegible].9-154.5 - 40° with						
		minbr clay gouge						
		162.4-163.1 - 40° 3 cm gouge						
		- kinks at 158.2, contorted foliation at 162.4						
164.6		near more massive green interbed						
		- 4 cm sandy bed at 163.1 - greenish, massive						
		- 2 cm green sandy bed parallels foliation at						
		164.7						
		note 3 to 4% qtz grains; rounded 1-2 mm						
167.6								
		Fine Grained Gabbro 165.2-167.0						
		- Qtz-calcite-epidote veins here and there						
		- Hematite on fractures						
170.7		Green Chlorite Schist 167.0-172.2						
		- as 163.3-165.2, with marked compositional						
		lamination displaying a strong foliation	171.9	174.6	60%			
		- pale brown-buff laminations present and						
		hematitic slips are more abundant						
73.7								
		Fault Zone 172.2-175.3						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 19 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- strong foliation 30° to 40°	174.8	177.4	90%			
		- gouge 173.4-174.0, 174.0-175.3	177.4	179.2	82%			
		- lost core 1.2 m washed out gouge?						
176.9		- py plane parallel foliation seams up to 1 cm wide						
		est 20% total sulphide. No other sulp noted.						
		Very talcy, sericitic						
		calcite rich. Occasional mariposite streaks.						
		Green Chlorite Schist 175.3-185.0						
179.2		- as above fault zone						
		- lost core 30 cm at 177.4 and at 179.2						
		- sheared quartz-calcite veins at 177.4, 179.2 (unmin'zd)						
		- becomes gradually darker in colour from 180.7 and laminations take on appearance of distinct bedding units.						
182.9		- note bedding at 182.0 is 40°						
		- cpy seams 1 to 2 mm plane parallel are present 182.7						
		- 184.3 rare pyrite present as specks here and there and with thicker chalcopyrite seams.						
185.0		Mottled Green Epidote - Chlorite Breccia 185.0-190.8						
		- mixture of clasts and bands of strongly epidote pervasive altered rock. Intermediate (andesite)						
		and buff coloured sedimentary clasts recognizable.						
		Distinct banding (bedding) near top of unit						
		(30° at 611)						
		- unit becomes gradually lighter green in colour						
		toward lower contact with						
189.0		increasing amount of salmon coloured albite?						
		accompanying pale epidote.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 9 — PAGE No. 20 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
189.0		Gray Feldspar Phyric Andesite (?) Diabase (?) 190.8-204.8						
		- 2 to 3 mm milky white plagioclase phenocrysts 25% in gry matrix. Sausseritized phenocryst edges.. Snowflake textured in places.						
		- 1 to 2% hematite (1 mm) specks here and there						
192.6		- chlorite and sericite rich matrix						
		- stringers of epidote and buff coloured albite (?) or clinozoisite (?) here and there						
		- mylonitic zone 193.5-195.1						
195.1		- crude banding of 195.1-1-6.3 of dark green and pale green phyric material, grey feldspar phyric unit and parallel epidote, chlorite salmonclinozoisite (?) or albite (?) This section has pyroclastic appearance. Banding 30°						
		- similar 198.1-199.3 but with more gray feldspar phyric andesite component						
198.1		Mottled Pale Green Epidote Chlorite Breccia 204.8-208.5						
		- as 185.0-190.8 but with more distinct gray feldspar phyric unit component						
		- mylonitic zone 204.5-204.8						
		- crude compositional banding 25°to30°						
201.2								

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 9 | PAGE No. 21 of 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
204.2		Gray Feldspar Phyric Unit 208.5-211.5						
		- as 190.8-204.8						
		- minor pyrite disseminations (less than 1%)						
207.3		Gray Unit is Probably a Phase of Common Gabbro						
		Which Suffered Extensive Sausseritization						
		END OF HOLE 211.5 m						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No.	PAGE No.
85 CHEM 10	1 of 7

PROPERTY: CHEMAINUS - J.V.

HOLE LOCATION: 31+00W; 1+90S

AZIM: 179° ELEV: 800 m

DIP: -45° LENGTH: 159.7 m

CORE SIZE: NQ

STARTED: July 23, 1985

COMPLETED: August 10, 1985

PURPOSE: Test geophysical anomalies and surface showings at depth.

CORE RECOVERY: +99% very good

ETCH SURVEY

DEPTH	XXXX	DIP	DEPTH	AZIM	DIP
61.0	52	45			
122.0	52	45			
156.8	51.5	44			

CLAIM No: OAK 2

SECTION: Line 31+00W

LOGGED BY: K. Rye

DATE LOGGED: July 25 - Aug. 10, 1985

DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.

ASSAYED BY: CDN RESOURCE LABS, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		0-9.4 casing						
		9.4-34.3 Quartz-Feldspar Crystal Tuff						
		- light grey intermediate to felsic rock						
		- 8% stretched quartz eyes up to 1 cm long						
		- 6-10% locally epidotized feldspar crystals 1-4 mm						
		- aphanitic groundmass grey in colour, quite soft, sericite and quartz						
		- quartz eyes rolled and fractured						
		- chloritic rich lenses and bands parallel foliation. 50° CA at 15 to 20 m	Bedding (?)					
		- 3% dull red hematite diss along foliations strongly magnetic, also in Co_3-filled fractures						
		- 1% medium grained euhedral pyrite	44.2	50.6	95%			
		- quartz and quartz-carbonate stringers up to 5 mm at 12.5, 12.6						
		- fault with 10% pyrrholite (po) and sphalerite (sp) in carbonate 17.0 m 70° CA						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 10 — PAGE No. 2 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		foliation 60° CA at 12.0, 40° at 22.5, 50° at 28 m						
		- becomes weakly chloritic past 14 m						
		- 5 cm fragments (?) 14.6 as more chlorite-rich rock						
		- brecciated strongly 16.4						
		- primary bedding (?) at 29.5						
		- distinctly banded with 3 cm chloritic bands chalcopyrite (cpy) at 18 - 25'						
		- pyrrhotite+sphalerite concentrated in chloritic bands						
		- weak, patchy bleaching begins at approx. 24 m good example 27 m						
		- chloritic fragments 29.5 4-5 cm						
		- possible specularite 25.8, ZnS						
		34.3 - 52 m Fault Zone (Shear Zone?)						
		- sharp irregular upper contact						
		- highly deformed chloritic rock, brecciated and tightly folded (?)						
		- numerous 5 mm quartz-carbonate stringers 20° to CA e.g., 40.5 m						
		- patchy spots of salmon coloured mineral (clinozoisite?) 5 to 10 mm occurs in bands associated with dark green chlorite. Bands are 1/2 to 1 cm wide. Looks like contact alteration effect 35 to 36 m.						
		- conspicuous, quartz eyes visible in rock; crystal tuff.						
		Rock in places is locally highly siliceous and displays moderate mylonitization.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 55 CHEM 10 — PAGE No. 3 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No.	ASSAYS
		- stringers bear up to 10% "po + sph", 1% chalcopyrite, 2% pyrite						
		chalcopyrite at 34.8, 40.5 m, 41.0 m, 41.3 m						
		chalcopyrite restricted to carbonate stringers						
		po + sp coarse in stringers and fine						
		disseminations up to 8% sulphides.						
		43 - 53 - Semi Massive Stringers Mineralization						
		- up to 40% red mixture comprised of pyrrhotite (po) and sphalerite (sp) and up to 2% cp in carbonate stringers,						
		stockwork stringers and coarse chalcopyrite aggregates 1-2 cm wide						
		45.6-45.7 m - excellent stringer zone						
		46.5 to 49.0 - coarse breccia composed of 1-2 cm epidotized feldspar-rich						
		clasts in a dark, fine-grained chlorite-rich matrix with abundant "po+sp" stringers						
		- rest of zone is variably sheared and carbonated						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 10 — PAGE No. 4 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- most intensely sheared areas are rich in a very dark chlorite similar to that at the Sharon area.						
		foliations 49.5 m greater than 10-20° CA 52.5 m greater than 40° CA						
		52-64 Quartz-Feldspar Crystal Tuff - similar to previous tuff unit - 8-10% 1-5 mm elongate rolled, fractured quartz eyes - 5-8% epidotized feldspars 1-3 mm - strongly sheared locally with 3-8 mm quartz-carbonate veinlets e.g., 58-59 m						
		- locally up to 10% of the po+sp mix (?), particularly in sheared zones e.g., 57, 61.5						
		foliation 30° + CA at 59, 61.5						
		- occasional coarse lithic fragments up to 5 cm x 2 cm e.g., 53.5, 61, altered rims with "red" mineral.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 10 — PAGE No. 5 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		*Depth Correction at this point. Box 10. 57.9 m						
		- to 59 crystal tuff						
		64 - 80 Sheared Gabbro (Marginal Shear)						
		- dark green strongly sheared unit with 5% quartz - carbonate veinlets 3-10 mm random						
		- 3% altered feldspars up to 4 mm						
		- abrupt contact, inclusions of tuff unit near contact						
		- weak epidote stringers & irregular patches						
		- shearing generally approx. 35° CA						
		- specks Cp at 59.7						
		- less than 1% py overall, fine diss						
		- weak patchy silicification 62 m, 64 m						
		80 - 159 Massive Coarse Grained Gabbro						
		- non-magnetic						
		- occasional shears 10-20 cm						
		- feldspars up to 10 mm						
		- mafic minerals up to 2 mm						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 10 — PAGE No. 6 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- unusual red mineral hem (?) 1% 88-89 m						
		- to 100.9 m no change						
		fewer quartz-carbonate veinlets						
		- monotonous e.g., gabbro						
		- sheared - 100.7-101.8						
		- 106.5-107.5						
		- 131-132						
		- 135-137.5						
		foliation - 25° CA at 131.3						
		20° CA at 136						
		60° CA at 156.5						
		- silicified bands 5 cm at 143.3, 148.7						
		- 140-149 very massive 40% euhedral feldspars, 1% carbonate in patches & stringers with quartz.						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 10 — PAGE No. 7 of 7

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		151-155 moderately, finely brecciated with 28% quartz-carbonate interstices occasionally reaching 5-8 cm (e.g., 152 m)						
		- usually occurs as abundant quartz-carb stringers 5 mm wide						
		- weakly sheared 155-159.7 foliation 60° CA, less abundant qtz-carb						
		159.7 END OF HOLE						

KIDD CREEK MINES LTD

DRILL HOLE LOG

HOLE No.	PAGE No.
85 CHEM 11	1 of 12

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION: 29+30W; 1+40S
West of Silver Creek road.

AZIM: 181° ELEV: 835 m
DIP: 50° LENGTH: 176.1 m
CORE SIZE: NQ

STARTED: Aug. 12/85, Suspended Aug. 15/85
COMPLETED: Sept. 16, 1985
PURPOSE: Test small IP anomaly on strike with Hole 85 Chem 10
CORE RECOVERY: Very good: +99%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
61.0	180	50 1/2			

CLAIM No.: OAK 2
SECTION: Line 29+50W
LOGGED BY: K. RYE, S. Enns 135.5 to E.O.H.
DATE LOGGED: August 13 - 16, Sept. 16-17, 1985
DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.
ASSAYED BY: CDN RESOURCE LAB, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		0 - 18.6 CASING						
		18.6 - 19.4 QUARTZ CRYSTAL TUFF						
		- pale lime green unit 40% rounded to subangular 2-4 mm qtz crystal						
		- sericitic groundmass with minor chlorite						
		- foliated 60° to CA						
		- no mineralization						
		19.4-20.4 Sericitic-Chlorite Schist						
		- pale grey green schist, very fine grained quartz-sericite-chlorite matrix						
		- strongly foliated 60° CA						
		- no visible mineralization						
		- 1-3 mm bedding visible e.g., 20.3 m, somewhat distorted and/or broken; parallels foliation						
		20.4-23.2 Mixed Sedimentary Unit						
		- interbedded argillite and buff coloured sediment (?)						
		- argillites are 2 mm to 15 cm, black, hard and thinly bedded						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 11 — PAGE No. 2 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No	ASSAYS
		- weak, pervasive and stringer carbonate						
		- contacts will buff sediment usually brecciated						
		- flames and other load structures evident, especially 21.5 to 22.0 m						
		- abundant 1-3 cm microfaulting						
		- "buff" sediment is fine grained, pale green, and mottled in places						
		- pervasive carbonate						
		- largely composed of qtz+sericite						
		- 1% pyrite in buff unit, generally 1-5 mm occurring near argillite beds.						
		- 21.7 m - buff lens entirely enclosed by sandy argillite						
		23.2-28.9 Quartz-Sericite (Feldspar) Schist						
		- (probably a feldspar phyric tuff)						
		- pale grey-green schist with quartz-sericite matrix						
		- 1-3% euhedral feldspar crystals						
		- highly deformed in places e.g., 26.0						
		- foliation 70° CA						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 11 — PAGE No. 3 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		25.7-26.0 5-8% epidotized feldspars						
		- weak pervasive carbonate, plus CO_3 stringers both parallel to and crosscutting foliation						
		- silicified band 26.8-27.0						
		- bedding (?) seen, 1-3 mm highly deformed 28.5-28.9						
		- less than 1% pyrite along foliation						
		28.9-35.4 Green Qtz-Ser-Chl. Schist						
		- deformed upper contact, sharp						
		- green, sericitic matrix, minor chlorite, especially in blebs						
		- 1% euhedral pyrite up to 1 cm						
		- foliation 70° CA						
		- non-carbonated						
		- well defined bedding 1-5 mm						
		- 3% pyrite along foliation 33-35						
		- kink folding 33-34	31	33	76			
		- numerous 2 cm (3 mm) chloritic fragments locally reaching 10%						
		- weak patchy epidote alteration 34-35						
		- 1 cm by 2 cm lenses of med to coarse quartz feldspar tuff in "fine" silty well bedded argillite at 35.2; evidence of reworking of tuffs.						
		- suggestion of thermal bleaching of this unit in places from 26.5.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 11 — PAGE No. 4 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		35.4-36.1 Felsic Fragmental						
		- coarse felsic fragment with 10% angular lithic and quartz crystal fragments 1-6 cm, larger fragments rounded.						
		- 1% feldspar crystals 2 mm						
		- grey-green quartz-sericite matrix						
		- 5% disseminated pyrite and along foliation						
		- weakly bleached.						
		36.1-46.6 Gabbro						
		- mafic-intermediate rock with a medium green fine grained chloritic matrix						
		- 5% feldspar as euhedral 3-5 mm crystals						
		- minor brecciation e.g., 37.8 m associated with quartz-carbonate patches						
		- has similar appearance to a gabbro						
		40-41 - feldspar rock pods appear to be large fragments in an aphanitic matrix						
		- 1% pyrite, speck chalcopyrite 38.6						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 11 | PAGE No. 5 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- foliation 40° to CA						
		- patchy epidote, locally strong e.g., 41.5						
		- cp at 44.5						
		- becomes poor in feldspar in last 4 metres						
		- 5% quartz-carbonate veinlets parallel to foliation 1-5 mm						
		46.8-54 Mineralized Lithic Tuff						
		- very sharp upper contact 35° CA						
		- buff coloured, highly altered unit with 8-15% pyrite+pyrrhotite+sphalerite (bleached) disseminated and in 3 mm stringers						
		- galena (?) less than 1% in quartz vein at 48.2-48.3 m						
		- unit consists of quartz+sericite, buff brown and strongly breccicated locally						
		- appears to be a lithic fragmental						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 11 — PAGE No. 6 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		54 - 63.5 - Feldspar Crystal Tuff						
		- very gradual contact marked by						
		1) appearance of bedding						
		2) abundance of quartz veins (barren)						
		3) change in alteration style to dominantly sericitic						
		- light creamy green unit with 5-20% feldspar crystals 1-4 mm in bands up to 60 cm thick						
		- matrix dominantly sericite, very soft and waxy						
		- 3-5% disseminated pyrite						
		- highly deformed, complex foliation, kink folding etc. e.g., 59-61						
		- foliations approx. 50° to CA						
		- some pyrite stringers (1 to 3 mm wide) cut obliquely across foliation, as at 62.0 .						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 11 | PAGE No. 7 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		63.5-68.5 Quartz-Feldspar Crystal Tuff						
		- gradual contact with unit above						
		- up to 10% 1-3 mm round quartz eyes, with 1-3% 1-2 mm euhedral feldspars in quartz-sericite matrix						
		- pale green						
		- well foliated at 70° CA						
		- 1-3 cm slightly chloritic patches, possible fragments						
		67.5-68.5 - slightly more massive, few phenocrysts, silicified						
		- fragments 68.3-68.5						
		68.5-76.5 Quartz Eye Schist						
		- pale green quartz-sericite matrix with 5-15% variable 1-4 mm quartz eyes						
		- 1% pyrite disseminated						
		- upper contact sharp, 60° CA						
		- 1% py, 5% locally approx. 16-20 cm silicified patches						
		- patchy epidote alteration						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 11 — PAGE No. 8 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		76.5-89.2 Quartz-Feldspar Crystal Tuff						
		- similar to above unit except 10-15% euhedral feldspars						
		upper usually quite fresh						
		- locally epidotized						
		- 1-3% fine grained disseminated pyrite						
		- bleaching and silicification; in places unit is white, 76.5						
		89.2-93.5 Intermediate Flow						
		- sharp upper and lower contacts, but do not appear to be intrusive contacts						
		(i.e., no grain size variation at contacts, no horn felsing of rock)						
		- 10-20% coarse euhedral to subhedral feldspars up to 1 cm, cream coloured, occasionally epidotized						
		- chlorite-sericite matrix is grey in colour and quite massive						
		- 1% fine grained diss py						
		- presence of black flattened chlorite "wisps" define subtle foliation.						
		- this could be a coarse crystal tuff flow unit deposited as a hot ash flow.						
		- some subtle banding - crude bedding(?)						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 11 — PAGE No. 9 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- highly deformed, esp towards lower contact						
		- foliation generally 60° to CA						
		93.5-135.6 Quartz-Feldspar Schist (Tuff)						
		- probably a banded crystal tuff						
		- pale grey-green unit with quartz-sericite matrix						
		- 15-20% rounded to ribbony quartz eyes						
		- 5-10% feldspar, occurring in 1 to 4 cm bands defining the tuffaceous layering 65° to CA						
		- weak epidote alteration in patches throughout the unit						
		- weak silicification 95-97						
		- good fragments 1x3 cm with pyritic rims 100.3-100.6						
		- less than 1% pyrite overall						
		100.7-104 slightly more chloritic and silicified section, moderately brecciated						
		113-135.6 patchy silica and epidote alteration, 3% fine stringer pyri						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85 CHEM 11 — PAGE No. 10 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- weakly brecciated locally						
		- feldspar pervasively epidotized						
		- strong silicification 124-125.0						
		- po from 121 m						
		- po + Cp 123, 130-131 in Carbonate veinlets						
		foliation 60° CA at 130						
		- intense bleaching & silicification 130-135.6						
		- salmon coloured zone 133-135 possible K_2O						
		alteration						
		- py + cp + sp (?) 133.5-133.9, 8% total						
		135.6 - FOREST CLOSURE						
		in good looking rock						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 11 — PAGE No. 11 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No.	ASSAYS
		135.5-139.0 QUARTZ FELDSPAR CRYSTAL TUFF						
		- pale grey-greenish unit, weakly foliated, shows subtle banding; overall quite massive.						
		- conspicuous grey quartz eyes 2 to 7 mm 12 to 15% about 10% epidote altered feldspars 5 to 15%; quite variable in quantity thus giving rise to crude banding.						
		- brown biotite rich zones variable in amount here and there. Greenish colour produced by epidote and sericite and variable amount of minor chlorite.						
		- total sulphides pyrite plus pyrrhotite 2 to 3% as coarse disseminations						
		- this interval gradually transitional to the next.						
		139-151° QUARTZ FELDSPAR CRYSTAL-LITHIC TUFF						
		- medium green colour with short intervals of dark green due to higher chlorite content						
		- 10% to 15% 2 to 7 mm grey quartz eyes						
		- very conspicuous olive green epidote patches comprise 15 to 40% of core as alteration of individual feldspar crystals and lithic clasts? several cm across. Individual 2 to 5 mm feldspar crystals 15 to 25%						
		- 0.1 to 0.2 m intervals of light brown very fine biotite as alteration (?) associated with higher silica content.						
		- crude bedding (?) 140.4 70° CA						
		- 2 to 3% total sulphides pyrrhotite + pyrite; minor chalcopyrite. Highest incidence at chalcopyrite with chloritic sections.						
		- 142°-143° quartz-calcite veinlets in weakly sheared section 30° CA. Hematite on a few fractures and 12 to 13% black chloritic replacement of (?) crystals.						
		- large epidote patches become more common below 146.° to 150° with local pyrrhotite-trace chalcopyrite						
		- shear zone and faulting 150 to 151 with chlorite and clay						
		151.° - 161.° ANDESITIC FLOW						
		- massive gray greenish rock with medium grained crystalline, creamy white feldspar rich sections alternating with darker massive chloritic fine grained sections. Overall mottled appearance.						
		- quartz eyes absent except for two or three 0.1 m wide tuffaceous looking sections near lower end of unit, as at 159.4, 160.°						
		- occasional pyrrhotite veinlet and quartz pyrite segregations						
		- pale brown fine biotite present here and there - probably thermal alteration due to nearby gabbro intrusion.						
		- becoming increasing mylonitic toward lower end.						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85-CHEM 11 | PAGE No. 12 of 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		161.°-162.^{4} BANDED TUFFS						
		- distinctly banded displaying bedding 45° to 50° CA. Comprised of 1 to 3 cm grey cherty and ash tuff layers.						
		- silicified and conspicuously mylonitized-extreme especially 161.^{5} to 162.^{4} near gabbro contact						
		162.^{4}-176.^{1} GABBRO						
		- white creamy feldspar glomerophyric and phyric contact phase. Dark green rock.						
		- 162.^{4}-167.^{9} contact phase sheared. Hematite on fractures and epidote veined.						
		- 167.^{9}- End. 25 to 30% creamy white feldspars 2 to 8 mm. Many glomerophyric.						
		- several mottled quartz-chlorite sections 0.2 to 0.5 m wide						
		- strong shear 172.^{8}						
		176.^{1} END OF HOLE						

KIDD CREEK MINES LTD

DRILL HOLE LOG

Not plotted on section - duplicated by hole 12A

HOLE No.	PAGE No
85 CHEM 12	1 of 2

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION: 10 m West of Station 2 + 20S on Line 29 + 50W West of Silver Creek Road

AZIM: 180° ELEV: 820 m

DIP: 50° LENGTH: 28.3 m

CORE SIZE: NQ

STARTED: September 10, 1985

COMPLETED: September 11, 1985

PURPOSE: Test main I.P. anomaly on strike with hole Chem 10. Hole abandoned.

CORE RECOVERY: Good 95%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP

CLAIM No: OAK 2

SECTION: Line 29 + 50W

LOGGED BY: S. ENNS

DATE LOGGED: September 11, 1985

DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.

ASSAYED BY: CDN RESOURCE LAB, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No.	ASSAYS
		0 - 3.4 CASING						
		3.4 - 8.0 WEATHERED BEDRK.	4.9	7.9	50%			
		- Limonitic fractures						
		8.0 - 12.8 QUARTZ CRYSTAL TUFF						
		- Banded 40° CA 0.5-1 cm wide bands of pale sericite rich material; dark 2-3 mm chl rich bands comprise and define foliation.						
		- 25% 1 to 2 mm subrounded quartz eyes						
		- becomes more strongly schistose 11.5 to 13.0 and darker with 1% po streaks parallel foliation.						
		- irregular patchy quartz-salmon coloured feldspar ? 8.2 to 9.5						
		- 4 to 5% total sulphide 7.9 - 8.5 m comprised of py, po, very f. gr. sph. in foliation parallel stringer mode. 1-2 mm wide						
		12.8 - 15.5 GREEN CHLORITIC SCHIST (SILTY TUFF)						
		- epidote altered sections up to 10% for 0.3 m here and there, otherwise mainly schistose with kinks occasionally.						
		- foliation 40° CA defined by chlorite content and local 1 cm wide dark silty bands which indicate bedding - esp. around 15 m.						
		- local pyrite disseminations 1-2 m up to 1/2% and trace chalcopyrite						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 12 | PAGE No. 2 of 2

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		15.5 - 18.0 FELDSPAR-PHYRIC UNIT (CRYSTAL TUFF)						
		- submassive but displays weak foliation of chlorite wisps at 40° CA						
		- 25 to 30% 1 to 10 mm feldspar crystals, some glomerophyric. (To give light coloured gabbroic appearance!)						
		- occasional greenish silty lenses parallel foliation. Also narrow irregularly shaped dark chloritic patches parallel foliation (pumice or glass frag ?) Latter occasionally displays biconcave shape around feldspar.						
		- shows some similarity of appearance to Gabbro but is not.						
		- lower end of this unit at 16.8 grades abruptly into pale olive green bleached unit with abund. epidote along veinlets associated with fine pyrite. Some epidote knots 1 cm.						
		18.0-22.2 LAMINATED-GREEN TUFF						
		- strong foliation 40° CA						
		- 1-2 mm chloritic patches define foliation; they are discontinuous, less than 1 or 2 cm long in third dimension (squashed glass or pumice ?)						
		- kinks present here and there; weak.						
		- a few epidote-calcite knots here and there up to 1 and 2 cm wide with foliation flowing around them.						
		- sulphide content increases markedly at 21.3 e.g., laminae paralleling foliation pyrrhotite dominant sulphide 21.3 to 22.2 5 to 7% total sulphides. Pyrite comprises about 1/4 of total. Lithology appears a bit more altered with higher sericite content in sulphide section.						
		- gradual increase in quartz eyes below 22.0						
		22.2 - 28.3 QUARTZ FELDSPAR CRYSTAL TUFF						
		- 7 to 10% 2 to 8 mm quartz eyes in sericite foliation matrix						
		- 15 to 20% 2 to 8 mm epidote (pervasive) altered feldspar crystals - euhedral.						
		- grey sulphide rich (10 to 15% fine pyrite plus pyrrhotite) siliceous lenses 0.5 to 1.0 cm wide as bedding - 40° CA. Minor fine grained sphalerite ? here and there.						
		- variable quartz-feldspar proportions. Feldspars sometimes crowded in wide bands						
		- greenish colour due to high sericite matrix						
		END OF HOLE 28.3 m						
		Abandoned - lost 60 ft. of drill string in hole. bit crown broke off. Rods pulled apart above tap.						

KIDD CREEK MINES LTD

HOLE No. 85 CHEM 12A | PAGE No. 1 of 6

DRILL HOLE LOG

PROPERTY: CHEMAINUS J.V.

HOLE LOCATION 10 m West of Station 2 + 20S on Line 29 + 50W West of Silver Creek Road.

AZIM 180° | ELEV 820 m

DIP -50° | LENGTH 171.9

CORE SIZE NQ

STARTED September 12, 1985

COMPLETED September 15, 1985

PURPOSE Test main I.P. anomaly on strike with Zn zone of hole Chem 10.

CORE RECOVERY Good 96%

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
122 m	180°	46°			

CLAIM No OAK 2

SECTION Line 29 + 50W

LOGGED BY S. ENNS

DATE LOGGED September 12 - 17, 1985

DRILLING CO: BOISVENU DRILLING, RICHMOND, B.C.

ASSAYED BY: CDN RESOURCE LAB, DELTA, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM No	ASSAYS
		0 - 4.9 CASING						
		4.9 - 7.9 WEATHERED BEDROCK						
		- limonitic fractures and vugs. Occasional 1 cm pyrite cubes.						
		- green intermediate tuff. Streaky chloritic appearance						
		7.9 - 12.3 QUARTZ CRYSTAL TUFF						
		- sericitic, greenish appearance with 25 to 30% 2 to 12 mm quartz eyes						
		- streaky with paler sericite rich bands, (bedding) 30 to 40° CA. Also as 5 to 10 mm lenses.						
		- stronger schistocity near lower end. Irregular quartz masses at 10.5 and 11.0 as short 0.2 m sections						
		- pyrite streaky disseminations 1 to 2% variable. Minor sphalerite from 8 to 10 m in irregular cross-cutting veinlets.						
		12.3 - 16.5 GREEN CHLORITIC SCHIST						
		- streaky laminations of silty calcite bands 1 to 2 mm wide and chlorite dark clay material						
		- local pyrite disseminations and along fractures up to 1% over 0.2 m widths						
		- grades into paler colour at bottom						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No: 85 CHEM 12A | PAGE No: 2 of 6

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No.	ASSAYS
		16.5 - 17.5 FELSPAR PHYRIC UNIT. CRYSTAL TUFF						
		- as described in abandoned nearby hole 12 at 15.5 to 18.0 m						
		- lower end gradational with laminated green tuff unit but shows conspicuous bleached olive green epidote zone 0.4 m wide before grading into streaky tuff unit below.						
		17.5 - 22.0 LAMINATED GREEN TUFF						
		- as described in abandoned nearby hole 12 (18.0 - 22.2) 40° CA						
		- sulphide content increases from 21.2 e.g., foliation parallel lamellae which are pyrrhotite dominant 4 to 5% total sulphides.						
		- lithology gradually takes on a more bleached appearance below 21.8 m.						
		22.0 - 34.5 QUARTZ FELDSPAR CRYSTAL TUFF.						
		- gradual increase of quartz eyes. 22.0 to 23.0; below 23.0 quartz eyes are very conspicuous 10 to 12% to maximum size of 8 to 9 mm						
		- grey siliceous lenses many with 20 to 25% finely disseminated pyrite display bedding 45° CA from 22.0 to 25.0. Matrix to these lenses contains foliation parallel pyrrhotite-pyrite lamellae 5 to 15 mm long averaging 7% total sulphides						
		- feldspar content gradually increases below 25.0. Most feldspars display pervasive epidote alteration. Feldspars occur in crystal rich bands 15 to 25% 3 to 5 mm size.						
		- minor mariposite (?) at 22.6						
		- 28.0 to 29.0 quartz-sericite-pyrite altered section with gray siliceous lenses here and there. 40° CA. Pyrite very fine grained, disseminated estimated average 3 to 4%. Some pyrite bearing fractures with trace chalcopyrite and minor pyrrhotite.						
		- white rims to quartz eyes here and there.						
		- blocky core 30.8 to 40.2						
		- 32.0 to 34.5 variably sericite altered zone with weak brown sphalerite and pyrrhotite mineralization as lamellae wisps and foliation parallel fractures.	30.8	33.8	73%			
		and foliation parallel concentration as 1 to 2 cm bands. Example at 34.2	33.8	37.8	60%			
			37.8	40.2	60%			

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 12A — PAGE No. 3 of 6

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		34.5 - 49.0 ALTERED QUARTZ FELDSPAR CRYSTAL TUFF						
		- strongly quartz-sericite-pyrite altered and variably sheared with commensurate stretching of quartz crystals						
		- 25 to 30% 2 to 4 mm epidote altered feldspars and 8 to 10% 3 to 7 mm quartz eyes						
		- proportion of quartz and feldspar is variable. Matrix is predominantly fine grained greenish sericite.						
		- pyrite content as fine dissemination is variable with average 2 to 3% but locally much higher.						
		- local concentration of sulphides noted: 34.5 to 35.5 total sulphides 4 to 5%						
		38.0 to 40.2 7 to 10%						
		(lost core 39.0 to 40.0 where pyrite is 35 to 40%)						
		40.2 to 42.0 total sulphides 10 to 12%						
		- latter intercept strongly sheared 30° CA. 45.0 to 48.0 total sulphides 10 to 12%						
		- mariposite specks here and there with high pyrite sections.						
		- numerous 2 mm to 10 mm gray siliceous-pyritic lenses present. 35 to 40° CA						
		- some of these look like sheared sulphide clasts comprised of 30 to 40% pyrite						
		- 43.0 to 46.3 strong by sheared zone.						
		- pyritic quartz veined section 44.0 to 45.0. Pyrite is coarsely crystalline.						
		49.0 - 87.0 FELDSPAR QUARTZ CRYSTAL-LAPILLI TUFF						
		- spotted massive unit with conspicuous epidote altered subangular feldspar patches (crystals ? and glomerophyric crystals) 2 mm to 15 mm average. Maximum 20 to 30 mm. 25 to 30% crystals in darker green matrix. Medium green overall colour.						
		- 8 to 10% quartz eyes. 2 to 10 mm.						
		- crude banding of epidote altered patches in places 35° CA; also overall weak foliation exhibited. In places epidote patches are exhibit pale coloured overgrowths. Some quartz eyes also show overgrowth of epidote. Large patches have irregular shape and are comprised of buff-coloured granular epidote which are cut by quartz filled micro veinlets. Also calcite microveinlets						
		- variable chlorite content darkens overall rock appearance - overall it is low in chlorite content.						
		- matrix is sericite dominant						
		- disseminated pyrite 1/2 to locally 2% as fine grained specks to 2 to 3 mm crystals. Maximum of 8 to 10% pyrite over 0.2 m sections where accompanied by shearing 30° CA as at 57.8.						
		- gray siliceous-pyrite lenses are present here and there; they are most common near the upper contact of this unit which has a gradational transition.						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 85 CHEM 12 A — PAGE No. 4 of 6

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	RECY	EST GRADE	SAM. No	ASSAYS
		- blocky core 68.0 - 70.0	68.0	69.2	42%			
		73.0 - 76.0	69.2	73.8	100%			
		- fault gouge at 68.5 - ground core	75.6	77.1	93%			
		- epidote patches become larger up to 2 or 3 cm wide as aggregates						
		- irregular pyrite seams interstitial to patches at 72.0 to 75.5						
		- local epidote patch rich bands here and there as at 78.3 which is 3 cm wide -bedding ?)						
		- large, white quartz-calcite vein	77.1	78.0	100%			
		parallels core axis 86.0 to 87.4. Mineralized with nonmagnetic pyrrhotite, minor pyrite and trace chalcopyrite.						
		87.0 - 93.3 STRONGLY ALTERED TUFF						
		- strongly foliated gray rock displays broken (sheared) clasts and foliation 40° to 50° CA.						
		- pink conspicuous zones associated with alteration (?) pink epidote (?) Has appearance of rhodonite, fine grained.						
		- pyrite content as disseminations average 12 to 15%						
		- pale green mariposite associated with this zone						
		- mylonite zone 92.0 to 93.0 with high clay content.						
		93.3 - 97.6 DARK GREEN ANDESITIC CRYSTAL TUFF						
		- 20 to 25% 2 to 4 mm epidotized feldspar subhedral crystals in dark green matrix of epidote and minor chlorite.						
		- 10 to 12% 2 to 8 mm gray quartz eyes - some deformed to lenticular shape.						
		This unit could be classed as intermediate flow except for its quartz eye content.						
		- massive, though displays crude weak foliation 35° CA.						
		- very conspicuous hematite filled fractures.						
		- common quartz-calcite veins 2 mm to 8 mm wide.						
		- fault with clay gouge 96.3 to 96.5: mylonitized zone	96.0	to 97.6.				

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. 85 CHEM 12A — PAGE No. 5 of 6

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		97.6 - 109.0 FELDSPAR QUARTZ CRYSTAL LAPILLI TUFF						
		- medium green colour						
		- similar to 49.0 to 87.0 with conspicuous gray quartz eyes, feldspar (epidote) crystals and lithic (?) epidote patches.						
		- narrow white 1 to 3 mm quartz-calcite veinlets throughout						
		- slightly mylonitic texture.						
		- 0.1 narrow darker zone of chlorite-quartz-calcite veinlets associated with pyrite and minor chalcopyrite						
		- epidote patches coalesce into larger irregular patches 3 to 5 cm across - suggesting diagenetic alteration by fluids from cooling debris (?) flows?						
		- strong foliation and banding of patches suggestive of crude bedding 105.0 to 107.0						
		- Narrow dark green zones 0.2 to 0.5 m wide here and there: Pyrite 1/2% dissemination 2 to 3 mm.						
		- Fault 107.7 to 108.0 with clay gouge.						
		- Polymictic clasts in the interval 108.0 to 111.0. Several sub angular tan coloured lithic clasts 4 to 6 mm 10%; dark green 3 to 5 mm subangular crystals of chloritic altered mafic mineral 10%; 12% grey quartz eyes. Darker overall green colour due to increased chlorite content in matrix.						
		109.0 - 116.0 DARK FELDSPAR QUARTZ LAPILLI CRYSTALL TUFF						
		- Polymictic dark green crystal - lapilli clasts as described above, mixed with 0.2 to 0.5 m wide zones of epidote patchy feldspar quartz crystal - lapilli tuff.						
		- coarser than above unit, but with 0.2 to 0.5 m wide feldspar (epidotized) crystal zones.						
		- Transitional contact.						
		- Cross cut with numerous white quartz-calcite 1 to 2 mm veinlets.						
		- Minor pyrite stringers here and there 1/2%.						
		116.0 - 122.0 FELDSPAR CRYSTAL-LAPILLI TUFF						
		- Medium olive green feldspar phyric and patchy unit with feldspars pervasively altered to epidote.						
		- Quartz presence is variable from nil to 10%.						
		- Massive in places with lava flow - like appearance but in other places shows crude bedding as would be expected of pyroclastic flows - example 121 m 40° CA						
		- Becomes conspicuously mylonitic below 120 m.						
		- Fractures of pyrite and pyrrhotite 3 to 4% total sulphides.						
		122.0 - 124.4 GRAY QUARTZ CALCITE MYLONITIC ZONE						
		- Probably crushed lithology similar to that above but this section has darker colour.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No. — PAGE No. 6 of 6

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- 3 to 5% pyrite in fractures with trace chalcopyrite.						
		- In places black graphite is very abundant 122.0 to 123.0 in slips which parallel the CA.						
		- 124.0 - 132.0 GREEN FELDSPAR QUARTZ CRYSTAL - LAPILLI TUFF						
		- Medium olive gray colour, massive sections and banded becoming increasingly mylonitic and silicified toward lower contact.						
		- Epidote patches locally conspicuous.						
		- Quartz eyes become more abundant toward lower contact.						
		- 128 to 132 very silicified						
		- badly broken and blocky core 127.5 to 129.3.						
		- Fault zone 128.7 to 129.1.						
		132.0 - 171.9 GABBRO						
		- Chilled feldspar phyric marginal phase. Development of glomerophyric feldspar.						
		- Red earthy hematite on fractures 134.0 - 145.0, 162.0 - 165.0.						
		- Varying phases present but by 145.0m matrix has become medium grained to produce an overall less inequigranular texture. White creamy feldspars 2 to 5 mm, 15 to 25%.						
		- Presence of gray transluscent crystals 15 to 20% in contrast to creamy white feldspars. See thin section analysis for identification. It also has glomerophyric texture and probably is high calcium plagioclase.	148'	15/2	26%	18/3.1		
		- Glomerophyric feldspar phase predominates, but approx. 25% of core is comprised of fine to medium gray equigranular phase.						
		- 159.7 epidote patch with quartz eyes - about 0.1 m: This very possibly represents an inclusion of altered tuff.						
		- Chlorite filled fractures present throughout 2 to 5 mm wide.						
		- Shear zone - fault at 163.1 to 163.4 gouge.						
		171.9 END OF HOLE						

KIDD CREEK MINES LTD

HOLE No 85 CHEM 13 | PAGE No 1 of 3

PROPERTY: CHEMAINUS J.V.

DRILL HOLE LOG

HOLE LOCATION 75 m West of Station 1+50S on Line 31+00W. Below Silver Creek Road
AZIM 180° ELEV 780 m
DIP -50° LENGTH 134.1
CORE SIZE NQ
STARTED September 17, 1985
COMPLETED September 23, 1985
PURPOSE Test main I.P. anomaly on strike with zone of hole Chem 10
CORE RECOVERY Very good 100%.

SURVEY

DEPTH	AZIM	DIP	DEPTH	AZIM	DIP
61.0 m	180°	48 1/2°			
122.0 m	180°	48°			

CLAIM No. OAK 2
SECTION 31 + 75W
LOGGED BY S. Enns
DATE LOGGED September 18 - 23, 1985
DRILLING CO Boisvenu Drilling, Richmond, B.C.
ASSAYED BY CDN Resource Lab, Delta, B.C.

TEXTURE, ALTER'N, MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM No	ASSAYS
		0-4.6 CASING						
		4.6 - 134.1 GABBRO						
		- 15 to 20% 2 to 5 mm white creamy felspar phenocrysts in dark green matrix. Many conspicuously glomerophyric. 10% 4 to 6 mm gray translucent feldspars and 4 to 5 mm chloritic amphibole clots 10 to 12%.						
		- Dark green finer grained sections here and there to produce on elements of heterogeniety						
		- White pegmatitic quartz-calcite intergrowths 0.1 to 0.4 m wide at 5.2, 5.8, 9.0, and 15.4 - 16.3 The Latter at 23° CA						
		- Blocky core 8.0 to 10.0, 16.7 to 17.0, 19.0 to 20.0						
		- Epidote stringers and patches here and there.						
		- Interval 20° to 40° m. Three gabbro phases predominate:						
		a) Creamy feldspar phyric gabbro						
		b) Dark medium to coarse grained hornblende gabbro with translucent gray feldspars. 29.0 to 32.0 to 34.0 to 35.5.						
		c) Very coarse ophitic gabbro with large blades of chloritized amphibole 36° - 40°						
		- Coarse white quartz-calcite-chlorite vein-like masses here and there: 15.7, 30.0 to 30.8 Often these intervals contain minor chalcopyrite disseminations						
		- Blocky core 35° to 28°						
		- Possible small fault or shear at 27.6.						

KIDD CREEK MINES LTD — DRILL HOLE LOG — HOLE No 85 CHEM 13 — PAGE No 2 of 3

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST GRADE	SAM. No	ASSAYS
		- Blocky core 42.0 to 48.0 69.0 to 20.0 76.0 to 79.0						
		- Medium grained gabbro with calcite-white quartz veins common 30° CA, several subparallel CA.						
		- Chlorite slips very common on fractures.						
		- Quartz-calcite healed mylonite zone 53.1 - 51.3						
		- 1 cm pyrite vein at 49.7 55° CA.						
		- 0.1 m shear to faulted zone (gouge) at 52.6						
		- Conspicuous feldspar (?) alteration to tan brown colour 15 to 20% throughout interval 45.0 - 55.5.						
		- Altered feldspars (?) at 50.6 are 2 cm long needles. Possibly these are deuterically altered amphiboles.						
		- Interval 55.0 to 96.0 variably textured gabbro with 3% metallic moderately magnetic hematite as deuteric alteration progresses to very coarse phase 62 to 93 with creamy white plagioclase 5 to 12 mm, 15 to 20%. This is the dominant gabbro phase with subpegmatitic segregations.						
		- Shear zones 69.3, 35-40° CA, 70.7, 79.0-82.7 10°, 86.2 20°, 86.4 to 86.6 10°						
		- Trace disseminated specks of calcopyrite present throughout gabbro.						
		- Hematite is weakly magnetic in large clots 3 to 8 mm, 5 to 7 %						
		- White quartz vein with 2 to 3% chalcopyrite and minor pyrrhotite 80.0 to 80.6 81.4 to 81.7. Mineralization is an irregular filling of fractures within quartz-chlorite-calcite massive vein material 35 to 40° CA. This is probably the chargeability anomaly.						
		- Hematitic slips common 10° to 30° CA						
		Interval 96.0 to 108.0 Coarse grained white plagioclase porphyritic gabbro 20 to 25% 3 to 10 mm plagioclase phenocrysts. 15% 3 to 8 mm phenocrysts of amphibole largely altered to weakly magnetic metallic mineral.						
		- Less than 1/2% fine chalcopyrite disseminations throughout as magmatic accessory?						
		- Irregular fracture controlled sulphides chalcopyrite and pyrrhotite 3% 102.2 to 102.5 associated with irregular white quartz-calcite-chlorite vein material.						
		- Blocky core 98.0 to 101.0, 104.0 to 110.0.						
		- Occasional pyrrhotite on fractures 93.0 to 110.0. They indicate movement by slicken sides.						
		- Locally the feldspar crystals are surrounded by fuzzy white feldspar material as an alteration overgrowth e.g., 105.						
		- Gradational contacts.						

KIDD CREEK MINES LTD — DRILL HOLE LOG

HOLE No. 65 CHEM 13 | PAGE No 3 of 3

TEXTURE, ALTER'N MINERALIZATION, ETC	GRAPH GEOL.	DESCRIPTION	INTERVAL FROM	INTERVAL TO	REC'Y	EST. GRADE	SAM. No.	ASSAYS
		- Internal 108.0 to 110.0 is more equigranular textured gabbro.						
		- 109.0 to 110.5 pyrite veinlets and edge of quartz-calcite vein 109.6 45° CA						
		- Local patches of pale green epidote altered zones.						
		Interval 110.0 to 126.0						
		- Blocky core similar to 108.0 to 110.0 interval and moderately magnetic.						
		Interval 126 to 134.1						
		- Gabbro is fine to medium grained equigranular in places showing preferred foliation 40° CA						
		- Conspicuous fractures with ocherous sericite 128° to End of Hole						
		- Distinctly unmagnetic.						
		- Possibly hole is approaching the contact zone of the gabbro body.						
		134.1 End of Hole						

APPENDIX B

DRILL CORE ANALYSIS

DRILL HOGE
85 CHEM 7

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-82

DATE: July 12, 1985

ATTENTION: P.R. Delancey cc. S. Enns

PROJECT: 952

Sample Description	SAMPLE LENGTH (METERS)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB 18001	13.7-16.8	5	.3	540	10	250	10	720
18002	16.8-19.8	5	.2	178	7	270	9	660
18003	21.3-24.4	5	.2	350	15	350	12	710
18004	24.4-27.4	5	.3	240	11	190	10	590
18005	27.4-30.5	5	.1	136	7	166	10	580
18006	30.5-33.5	10	.1	138	5	180	10	330
18007	33.5-36.6	5	.1	134	1	300	6	60
18008	39.6-42.7	5	.1	610	14	50	7	830
18009	42.7-45.7	5	.1	290	12	72	5	950
18010	53.3-56.4	5	.1	850	2	16	6	1020
18011	56.4-59.4	5	.1	390	1	22	5	1010
18012	59.4-62.5	5	.1	230	1	22	12	1160
18013	62.5-65.5	5	.1	490	1	28	7	1350
18014	65.5-68.6	5	.1	156	1	26	3	1220
18015	68.6-71.6	5	.1	80	1	28	3	1170
18016	71.6-74.7	5	.1	390	1	22	3	1460
18017	74.7-77.7	5	.1	134	1	20	3	1180
18018	77.7-80.8	5	.1	14	1	16	2	850
18019	80.8-82.9	5	.1	74	1	14	1	710
18020	82.9-85.0	5	.1	94	1	20	1	370
18021	85.0-88.1	5	.1	22	1	30	2	600
18022	88.1-91.3	10	.8	1240	1	40	1	220
18023	91.3-94.5	10	.1	240	1	32	1	170
18024	94.5-97.5	30	1.1	>5000	1	52	3	540
18025	97.5-100.6	15	.3	660	1	40	2	360
18026	100.6-103.6	60	.7	3600	1	50	3	410
18027	103.6-106.7	45	.5	1450	1	54	2	550
18028	106.7-109.7	20	.5	560	1	52	2	410
18029	109.7-112.8	30	.6	980	1	52	3	690
18030	112.8-116.1	10	.6	490	1	76	3	510
18031	116.1-119.2	15	.2	860	2	98	7	600
18032	119.2-122.1	20	.2	320	1	82	2	520
18033	122.1-125.0	75	.8	3600	1	104	8	290
18034	125.0-128.0	20	.5	910	1	104	1	620
18035	128.0-131.4	15	.5	960	1	122	2	570
18036	131.4-134.7	10	.4	1340	1	136	3	510
18038	136.2-137.8	25	.7	3400	1	270	3	360
18039	137.8-139.3	20	2.1	>5000	18	370	2	640
18040	139.3-140.8	15	3.2	>5000	1	310	3	480
18041	140.8-142.3	5	.7	4400	1	200	4	430

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

FILE NO.: 85-82

GEOCHEMICAL REPORT

PAGE NO.: 2

Sample Description		SAMPLE LENGTH (METERS)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB	18042	-STANDARD-	5	.3	24	9	124	1	10
	18043	142.3-143.9	10	1.2	>5000	1	182	6	160
	18044	143.9-145.4	5	.9	4500	1	114	7	720
	18045	145.4-146.9	5	.4	1560	1	84	2	390
	18046	146.9-150.0	10	.6	2300	1	146	4	190
	18047	150.0-153.0	5	.2	960	1	112	1	350
	18048	153.0-156.1	5	.3	1380	1	80	3	310
	18049	156.7-159.7	5	.1	810	1	28	3	730
	18050	-STANDARD-	5	.3	22	10	126	1	10
	18051	159.7-162.9	10	.1	280	1	30	1	490
	18052	167.3-168.9	5	.1	260	1	94	1	80
	18053	168.9-169.8	10	1.0	1980	1	58	17	130
	18054	169.8-171.3	65	4.8	>5000	3	196	40	50
	18055	171.3-172.3	180	2.5	5000	1	76	42	40
	18056	172.5-174.7	35	.9	1700	2	44	19	40
	18057	176.2-177.2	5	.1	30	1	46	8	30
	18058	177.7-178.6	5	.1	42	1	48	12	70
	18059	180.7-182.6	30	1.6	4500	1	62	24	20
	18060	182.6-185.3	70	.2	240	1	96	9	90
	18061	210.3-213.4	5	.1	380	1	30	6	180
	18062	213.4-216.4	5	.1	8	1	32	1	200
	18063	216.4-219.4	5	.1	6	1	20	1	300
	18064	219.4-222.5	5	.1	4	1	16	1	380
	18065	222.5-225.6	5	.1	16	1	26	1	280
	18066	225.6-228.6	5	.1	16	1	28	1	320
	18067	231.6-231.6	5	.1	186	7	42	1	250
	18068	14.3-14.9	5	.2	50	3	120	1	190
	18069	81.7-82.6	5	.4	136	8	90	3	140
	18070	97.2-97.5	95	.4	98	12	90	10	830
	18071	-STANDARD-	5	.4	22	10	124	1	10

Results are geochemical determinations:
Au: fire assay, AA.
Ag,Cu,Pb,Zn,As: aqua regia digestion, AA.
Ba: lithium metaborate fusion, AA.

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

ASSAY REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.

FILE NO.: 85-107A

DATE: July 29, 1985

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

Sample Description	SAMPLE LENGH (METERS)	Ag g/tonne	Cu %
AB 18024	94.5- 97.5	1.5	0.58
18026	100.6 - 103.6	1.5	0.34
18033	122.1 - 125.0	1.0	0.31
18038	136.2 - 137.8	1.0	0.31
18039	137.8 - 139.3	2.5	1.14
18040	139.3 - 140.8	1.5	0.46
18041	140.8 - 142.3	1.5	0.37
18043	142.3 - 143.9	2.0	0.61
18044	143.9 - 145.4	2.0	0.40
18054	169.8 - 171.3	5.5	1.04
18055	171.3 - 172.3	2.5	0.43
18059	180.7 - 182.6	1.5	0.41

Results of file 85-107A are assays:
Ag,Cu: aqua regia digestion, AA.

Rejects retained one month, pulps one year, unless specific arrangements made.

Duncan Sanderson
Certified Assayer of British Columbia

DRILL HOLE
85 CHEM 8
(47)

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-107

DATE: July 29, 1985

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

Sample Description		Sample Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB 85CHEM-7	18073	256.0 - 257.4	35	.4	1340	1	120	2	150
	18074	257.4 - 258.8	5	.1	184	1	94	10	130
	18075	301.1 - 302.7	5	.1	200	1	124	2	110
	18077*	KRA	5	.2	12	15	116	2	360
85CHEM-8	18078	5.8 - 8.8	5	.1	58	1	146	5	470
	18079	8.8 - 10.8	10	.1	188	3	240	3	90
	18080	10.8 - 12.3	10	.1	122	4	92	6	540
	18081	14.0 - 17.7	45	.6	630	10	50	28	930
	18082	17.7 - 20.7	70	1.3	650	27	24	26	1000
	18083	20.7 - 23.8	40	.7	330	22	20	30	830
	18084	23.8 - 26.8	55	.6	610	2	28	15	820
	18085	26.8 - 29.9	45	.3	360	1	54	13	840
	18086	29.9 - 32.9	30	.4	870	1	12	7	700
	18087	32.9 - 36.0	20	.2	194	1	12	9	750
	18088	36.0 - 39.0	30	.1	210	1	6	17	840
	18089	39.0 - 42.1	15	.1	102	1	64	8	710
	18090	42.1 - 45.1	10	.1	164	1	58	6	480
	18091	46.6 - 48.3	10	.1	200	1	40	12	480
	18092	49.9 - 50.6	15	.1	194	1	40	5	490
	18093	57.9 - 61.0	10	.1	158	1	50	4	680
	18094	64.0 - 67.1	15	.1	210	1	64	2	500
	18095	67.1 - 70.1	5	.1	150	1	50	3	430
	18096	70.1 - 73.1	20	.1	280	1	54	3	460
	18097	73.1 - 76.2	15	.1	180	1	54	2	390
	18098	76.2 - 79.2	15	.1	370	1	56	2	440
	18099	79.2 - 82.8	30	.1	82	1	50	6	480
	18100	82.8 - 85.9	85	.1	44	1	42	2	390
	18101	85.9 - 89.0	20	.1	360	1	42	2	430
	18102	89.0 - 92.5	20	.1	118	1	32	1	350
	18103	92.5 - 95.3	25	.2	220	1	90	5	340
	18104	97.5 - 99.1	10	.1	126	1	144	6	1040
	18105	103.6 - 105.2	10	.1	160	1	84	9	960
	18106	116.4 - 117.9	45	.1	30	4	30	2	350
	18107	123.1 - 126.2	10	.1	36	43	26	1	410
	18108	126.2 - 129.2	25	.1	220	4	22	1	330
	18109	129.2 - 132.3	5	.1	240	5	16	1	470
	18110	132.3 - 135.3	10	.1	132	12	24	1	460
	18111	135.3 - 138.4	10	.1	148	3	18	3	420
	18112	138.4 - 141.4	15	.1	138	1	12	2	590
	18113	141.4 - 144.5	5	.1	122	2	10	1	470

* Internal Standard

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

FILE NO.: 85-107

GEOCHEMICAL REPORT

Sample Description		Sample Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB	18114	144.5 - 147.5	5	.1	112	1	20	1	560
	18115	147.5 - 150.6	5	.1	10	1	14	1	530
	18116	150.6 - 153.3	5	.1	4	1	14	1	490
	18117	153.3 - 156.4	5	.1	18	1	16	8	510
	18118	156.9 - 159.9	5	.1	46	1	14	4	520
	18119	159.9 - 162.5	5	.1	520	6	20	2	580
	18120	162.5 - 165.5	5	.1	14	1	22	1	400
	18121	165.5 - 168.9	5	.1	6	1	22	1	310
	18122	168.9 - 171.9	5	.1	10	1	24	1	860
	18123	171.9 - 174.6	35	.1	16	1	20	1	820
	18124	174.6 - 177.7	15	.1	44	1	16	1	430
	18125 *	KRA	5	.1	10	16	118	2	420
	18126	177.7 - 180.7	5	.1	86	1	20	1	440
	18127	181.4 - 182.0	15	.1	76	1	62	8	440
	18129	182.0 - 182.9	10	.1	52	1	42	2	650
	18130	185.6 - 188.7	5	.1	38	1	30	1	660
	18131	188.7 - 191.7	5	.1	24	1	20	1	800
	18132	191.7 - 194.8	5	.1	50	1	16	1	840
	18133	196.3 - 199.3	25	.1	4	1	32	1	390
	18134	202.4 - 205.4	10	.1	6	1	28	1	390
	18135	208.5 - 211.5	5	.1	4	1	24	1	580
	18136	211.5 - 213.0	5	.1	6	1	12	1	780
	18137	213.0 - 216.1	5	.1	28	1	12	1	460
	18139	219.8 - 222.8	10	.1	118	1	24	6	810
	18140	228.0 - 228.6	5	.1	20	3	14	1	460
	18141	240.2 - 243.0	5	.1	310	3	196	5	40
	18142	247.8 - 248.7	5	.1	320	3	220	5	30
	18144	248.7 - 250.4	5	.1	4	3	12	1	520
	18145	250.8 - 253.9	5	.1	102	1	12	1	650
	18146	253.9 - 256.0	10	.1	16	1	10	1	460
	18147	256.0 - 257.6	15	.1	410	1	18	3	700
	18149	257.6 - 259.1	5	.1	250	1	20	1	610
	18150 *	DSA	5	.3	20	11	132	1	20
	18151	259.1 - 260.6	5	.1	90	1	22	6	670
	18152	260.6 - 262.1	5	.1	66	1	20	2	840
	18153	262.1 - 263.6	5	.1	62	1	14	1	770
	18154	263.6 - 266.7	5	.1	8	1	10	1	640
	18155	270.1 - 271.6	5	.1	96	1	16	1	530
	18156	271.6 - 273.1	5	.1	86	1	14	1	750
	18157	273.1 - 274.6	5	.1	70	1	10	1	690

Results of file 85-107 are geochemical determinations:
Au: fire assay, AA.
Ag,Cu,Pb,Zn,As: aqua regia digestion, AA.
Be: lithium metaborate fusion, AA.

* Internal Standard

Duncan Sanderson

SILVER CREEK TRENCH

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

ASSAY REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.:

DATE: July 12, 1985

ATTENTION: P.R. Delancey cc. S. Enns

PROJECT: 952

Sample Description	Au g/tonne	Ag g/tonne	Cu %	Pb %	Zn %	As %	Ba %
AB 18072 TRENCH -SILVER CREEK AREA	0.50	19.5 (0.57oz/t)	1.01	0.89	2.40	0.01	0.17

CHIP SAMPLE

Results on this page are assays:
Au,Ag: fire assay, gravimetric finish.
Cu,Pb,Zn,As: aqua regia digestion, AA.
Ba: lithium metaborate fusion, AA.

Rejects retained one month, pulps one year, unless specific arrangements made.

Certified Assayer of British Columbia

DRILL HOLE
85 CHEM 10

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-126
DATE: August 12, 1985

ATTENTION: P. Delancey cc. S. Enns
PROJECT: 952

Sample Description	Sample Length (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Assays	As ppm	Ba ppm	
AB 18072	314.7-315.9	5	.1	390	1	102		6	100	(Hole 85 CHEM-7)
18158	9.9 - 12.5	5	.1	56	1	30		20	770	
18159	12.5 - 15.5	5	.1	62	2	36		16	880	
18160	15.5 - 18.5	5	.1	42	2	42		42	1090	
18161	18.5 - 21.5	5	.1	50	30	72		30	1120	
18162	21.5 - 24.5	5	.1	58	18	68		430	980	
18163	24.5 - 27.5	5	.1	70	188	290		490	1080	
18164	27.5 - 30.5	5	.1	62	48	118		270	1040	
18165	30.5 - 32.5	10	.1	54	100	152		480	1060	
18166	32.5 - 34.3	5	.1	70	22	66		32	1060	
18167	34.3 - 37.3	5	.1	84	38	450		60	980	
18168	37.3 - 40.3	5	.1	140	20	770		14	1000	
18169	40.3 - 41.8	5	.6	760	146	3300		16	1380	
18170	41.8 - 43.3	10	.3	280	92	2800		12	1140	
18171	43.3 - 44.8	5	2.4	3900	14	>5000	1.10%	8	1590	
18172	44.8 - 46.3	5	.7	1100	26	>5000	1.41%	6	1520	
18173	46.3 - 47.8	5	.2	192	94	3600		10	740	
18174	47.8 - 49.3	5	1.0	720	122	>5000	1.66%	18	720	
18175*		5	.2	20	10	138		2	20	
18176	49.3 - 50.8	10	2.0	2800	32	5000		110	1200	
18177	50.8 - 52.3	10	1.6	2600	48	1590		390	980	
18178	52.3 - 54.0	5	.1	340	22	2700		32	1220	
18180	54.0 - 57.0	5	.1	68	48	590		56	930	
18181	57.0 - 60.0	90	.1	72	12	300		48	570	
18182	60.0 - 63.0	25	.1	52	14	810		92	820	
18198	172.2 - 174.6	70	.1	22	1	210		12	210	(Hole 85 CHEM-9)
18199	182.7 - 184.2	40	.1	360	3	104		2	90	(" " ")

3m of 1.26 Zn
6m of 1.13 Zn
7.5m of 1.01 Zn
Mineralized Zone 13.7m

Results of file 85-126 are geochemical determinations:
Au: fire assay, AA.
Ag,Cu,Pb,Zn,As: aqua regia digestion, AA.
Ba: lithium metaborate fusion, AA.
* Internal standard

Duncan Sanderson

DRILL HOLE
85 CHEM 10

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

ASSAY REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-126A

DATE: August 12, 1985

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

Sample Description	Sample Length (m)	Zn %
AB 18171	43.3 - 44.8	1.10
18172	44.8 - 46.3	1.41
18174	47.8 - 49.3	1.66

Results of file 85-126A are assays:
Zn: aqua regia digestion, AA.

Rejects retained one month,
pulps one year, unless
specific arrangements made.

Duncan Sanderson
Certified Assayer of British Columbia

DRILL HOLE
85 CHEM 11

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-149

DATE: August 22, 1985

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

Sample Description	Sample Interval (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB 18179	59.0 - 60.5	5	.1	64	2	130	16	260
18184	128.5 - 131.5	5	.1	176	1	112	16	110
18185	35.5 - 36.2	10	.1	60	1	78	18	720
18188	46.8 - 48.3	10	.1	40	2	74	52	380
18189	48.3 - 49.8	5	.1	82	1	84	6	180
18190	49.8 - 51.3	5	.1	88	1	76	6	180
18191	51.3 - 52.8	5	.1	38	1	122	4	290
18192	52.8 - 54.3	10	.1	26	5	96	16	470
18193	54.3 - 57.3	10	.1	10	3	58	12	710
18194	57.3 - 60.3	10	.1	6	50	54	6	270
18195	60.3 - 63.3	5	.1	6	4	54	8	270
18197	99.0 - 101.0	15	.4	142	4	36	28	730
18200 * DSA		<15	.4	22	12	126	2	10
18201	130.0 - 131.5	5	.1	56	4	72	10	580
18202	133.0 - 134.5	10	.2	126	142	1480	6	680

Results of file 85-149 are geochemical determinations:
Au: fire assay, AA.
Ag,Cu,Pb,Zn,As: aqua regia digestion, AA.
Ba: lithium metaborate fusion, AA.
* Internal Standard.

Duncan Sandilands

DRILL HOLES:
85 CHEM-12
-12A
-13
-11 (partial)

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

GEOCHEMICAL REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-186

DATE: Sept. 26/85

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

	Sample Description	Sample Interval (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB	18203	5.0 - 8.0	5	.1	58	330	290	250	650
	18204	8.0 - 9.5	5	.1	14	34	840	42	480
	18205	9.5 - 11.0	5	.1	18	14	80	22	920
	18206	11.0 - 13.0	5	.4	90	6	98	24	1160
85 CHEM 12	18207	13.0 - 16.0	5	.1	22	1	112	7	560
	18208	18.0 - 21.0	5	.2	134	1	98	12	480
	18209	21.0 - 23.0	10	.1	106	3	54	55	1300
	18210	23.0 - 25.0	5	.1	56	1	52	18	960
	18211	25.0 - 27.0	5	.1	58	1	62	22	760
	18212	22.0 - 24.0	5	.2	98	1	40	28	1300
	18213	24.0 - 26.0	5	.1	60	1	48	160	1000
	18214	27.5 - 29.8	5	.1	42	1	36	24	880
	18215	32.0 - 34.0	5	.1	68	5	610	160	740
	18216	34.0 - 36.0	10	.3	98	3	480	380	1300
	18217	38.0 - 40.2	60	2.7	82	760	1750	150	1860
	18218	40.2 - 42.0	25	.9	52	520	720	50	2200
	18219	42.0 - 44.0	15	.4	44	104	270	50	2350
85 CHEM	18220	44.0 - 46.0	70	.6	66	90	180	145	2550
	18221	46.0 - 49.0	15	.3	52	160	290	42	2080
	18222	49.0 - 53.0	5	.2	68	3	270	20	1420
	18223	53.0 - 56.0	5	.1	62	30	64	12	1560
	18224	56.0 - 59.0	5	.1	66	5	68	16	980
	18226 *	[illegible]	5	.1	22	14	136	2	20
	18227	71.0 - 73.0	5	.1	172	6	1000	18	560
	18229	118.0 - 120.0	5	.1	126	12	240	60	420
	18230	120.0 - 122.0	5	.1	290	8	220	1600	300
	18231	122.0 - 124.0	5	.1	240	7	66	4600	410
	18232	124.0 - 126.0	5	.1	170	12	56	260	430
	18233	134.5 - 136.5	5	.1	62	1	44	20	1280
85 CHEM 12A	18234	136.5 - 140.0	5	.1	54	1	60	7	990
	18235	140.0 - 142.0	5	.1	36	8	72	14	800
	18236	144.0 - 146.0	5	.1	40	4	126	16	590
	18237	146.0 - 148.0	5	.1	86	3	70	7	590
	18238	148.0 - 150.0	5	.1	110	3	74	6	380
	18239	152.0 - 154.0	5	.1	86	12	290	20	270
	18241	86.0 - 89.0	25	.2	128	4	760	75	1380
	18242	89.0 - 91.0	15	.1	72	32	174	60	1270
	18243	91.0 - 93.0	15	.1	24	24	32	65	1280
85 CHEM 11	18244	80.0 - 80.6	95	.5	3500	1	120	6	60
	18245	81.9 - 81.7	160	7.2	>5000	1	510	55	80

* Internal Standard.

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL (604) 946-4448

FILE NO.: 85-186

PAGE NO.: 2 of 2

GEOCHEMICAL REPORT

Sample Description	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Ba ppm
AB 18246 * DSA	5	.1	24	11	116	1	10

Results of file 85-186 are geochemical determinations:
Au: fire assay, AA.
Ag,Cu,Pb,Zn,As: aqua regia digestion, AA.
Ba: lithium metaborate fusion, AA.

* Internal Standard.

DRILL HOLE

85 CHEM 13

CDN RESOURCE LABORATORIES LTD.
#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

ASSAY REPORT

TO: Kidd Creek Mines Ltd.
701 - 1281 West Georgia
Vancouver, B.C.
V6E 3J7

FILE NO.: 85-186A

DATE: Sept. 26/85

ATTENTION: P. Delancey cc. S. Enns

PROJECT: 952

Sample Description	Sample Length (m)	Cu %
AB 18245	81.4-81.7	2.82

Results of file 85-186A are assays:
Cu: aqua regia digestion, AA.

Rejects retained one month, pulps one year, unless specific arrangements made.

Certified Assayer of British Columbia

APPENDIX C

STATEMENT OF EXPENDITURES

1. Diamond Drilling:

Frank Boisvenu Diamond Drilling Ltd.
#110 - 5910 No 6 Road
Richmond, B.C. V6V 1Z1

Invoice charges for drilling June 27 to September 24, 1985: survey, core boxes supplies and equipment, moving time etc. applicable to holes covered by this report. $92,820.38

2. Analytical Costs of Core Samples:

CDN Resources Laboratories
#8 - 7550 River Road
Delta, B.C. V4G 1C8

Invoice charges for geochemical analysis of approximately 200 core samples analysed geochemically for Cu, Pb, Zn, Ag, Au, As, Ba. This includes re-analysis by assay methods, several elements on selected intervals. Analysis conducted July 1 to 4,448.25

$97,268.63

$92,000 of this to be applied to each claim as follows:

BRENT 1	163 (5)	10 units	10 years at 2000	$20,000
OAK 1	169 (5)	8 units	10 years at 1600	16,000
OAK 2	170 (5)	16 units	10 years at 3200	32,000
OAK 3	171 (5)	12 units	10 years at 2400	24,000

The balance to be credited to PAC.

APPENDIX D

STATEMENT OF QUALIFICATIONS

I, S. G. Enns of Falconbridge Limited, 701 - 1281 West Georgia Street, Vancouver, B.C. V6E 3J7, state that I have worked continuously in the mining and exploration industry since May 1971. My positions and responsibilities in exploration have been mainly geological in nature with ancillary duties in standard geochemical and geophysical surveys. In capacities of increasing responsibility I have been permanently employed within the industry by the following companies:

1971	Cerro Mining of Canada
1972	Hudson's Bay Oil and Gas
1973-1975	BP Minerals of Canada
1975-1979	BP Alaska Exploration
1979-1981	Amax of Canada
1982-1986	Kidd Creek Mines Ltd.
1986-present	Falconbridge Limited

My formal education is as follows:

BSc (Honours Geology) University of Manitoba 1967
MSc (Economic Geology) University of Manitoba 1971

S. G. Enns

LEGEND

- Gabbroic intrusions
- Nanaimo sedimentary cover
- Sediment - Sill Unit: cherty argillite and siltstone
- Iron Formation: jasper - magnetite
- Andesitic volcanic flows and breccias
- Myra Formation: felsic to intermediate volcaniclastics and flows, includes small gabbroic bodies
- ▲ Showing and mineral occurrence
- Cu Soil — Soil anomalies as indicated
- IP anomaly
- VLF anomaly
- Drillholes — 78 Chem series: ESSO; Chem -85 series: KIDD
- Trench
- I= Alteration index

OAK CLAIM GROUP

Kidd Creek Mines Ltd.		
CHEMAINUS, VANCOUVER ISLAND		
1985 SUMMARY MAP		
WORK BY: S.E.	DRAWN BY: E.H./V.G.	DATE: January 1986
100 0 200 400 600 800 1000 m SCALE IN METRES 1 : 20 000		
Figure: 3		

OAK 1
OAK 2
OAK 3
ALSO
I=85
I=92
SOLLY
UGLY
CORONATION ZONE
19 feet
0.65 % Cu
0.79 % Pb
3.20 % Zn
2.04 oz Ag
0.09 oz Au
CORONATION EXTENSION
12 feet of Massive Sulphide
1.16 % Cu
2.53 % Pb
9.22 % Zn
8.60 oz Ag
0.213 oz Au
Cpy
Cpy, Bar, Sph
Zn Soil
Cu Soil
SHARON
Py Cpy
BRENT 1
Cu, Zn, Mn Soil
Chem 1-85
Chem 3-85
Chem 6-85
Chem 7-85
Chem 10-85
Chem 11-85
Chem 12, 12A-85
78 Chem-1
78 Chem-2
78 Chem-3
78 Chem-4
78 Chem-5
TO COPPER CANYON MAINLINE ROAD
TO POWER LINE
TO COPPER CANYON MAINLINE ROAD
Silver Creek
Holyoak Creek
Humbird Creek
Copper Canyon
Mainline
10S

SECTION 1+50W

SOUTH

NORTH

14+00S

13+00S

12+00S

11+00S

(>30)

(>40)

(>30)

CHEM-7-85
El. 865m

CHEM-8-85
El. 855m

800

700

Tyee Rhyolite

0.58% Cu
3.0m

0.34% Cu
3.0m

0.31% Cu
2.9m

0.55% Cu
4.6m true
(includes 0.64% Cu)
3.0m true

0.80% Cu
2.5m

AB18128

AB18138

AB18143

AB18148

100

200

300

E.O.H.
318.8m

E.O.H.
334.1m

LEGEND

G Gabbro

3 Felsic Volcaniclastics: Quartz-sericite schist, quartz-eye schist (Tyee Rhyolite), quartz-sericite-chlorite schist, quartz-feldspar-sericite schist. Generally a light coloured rock, commonly contains pyrite seams and disseminations. Crystal and some lapilli tuffs.

2 Intermediate Volcaniclastics: Medium to dark grey-green chlorite schist, chlorite-sericite shcist, chlorite-feldspar schist. Quartz eyes largely absent. Commonly contains pyrite seams and disseminations. Crystal and some lithic tuffs.

1 Massive to semi-massive dark grey-green chlorite schist. Mafic volcanic rock.

Qv Quartz vein

Lithic fragmental texture

Mylonitic texture

Bedding

Shear zone

Fault zone with gouge

Sulphide mineralized zone

0.55% Cu / 4.6m Mineralized zone with indicated assay width

IP anomaly (m-sec chargeability)

VLF anomaly

Sample	Interval (m)	Cu%	Ag g/tonne
18024	94.5- 97.5	0.58	1.5
18026	100.6-103.6	0.24	1.5
18033	122.1-125.0	0.31	1.0
18038	136.2-137.8	0.31	1.0
13039	137.0-139.5	1.14	2.5
18040	139.3-140.8	0.46	1.5
18041	140.8-142.3	0.37	1.5
18043	142.3-143.9	0.61	2.0
18044	143.9-145.4	0.40	2.0
18054	169.8-171.3	1.04	5.6

Kidd Creek Mines Ltd.

CHEMAINUS, VANCOUVER IS.

SECTION 1+50W
DDH CHEM 7-85 & CHEM 8-85

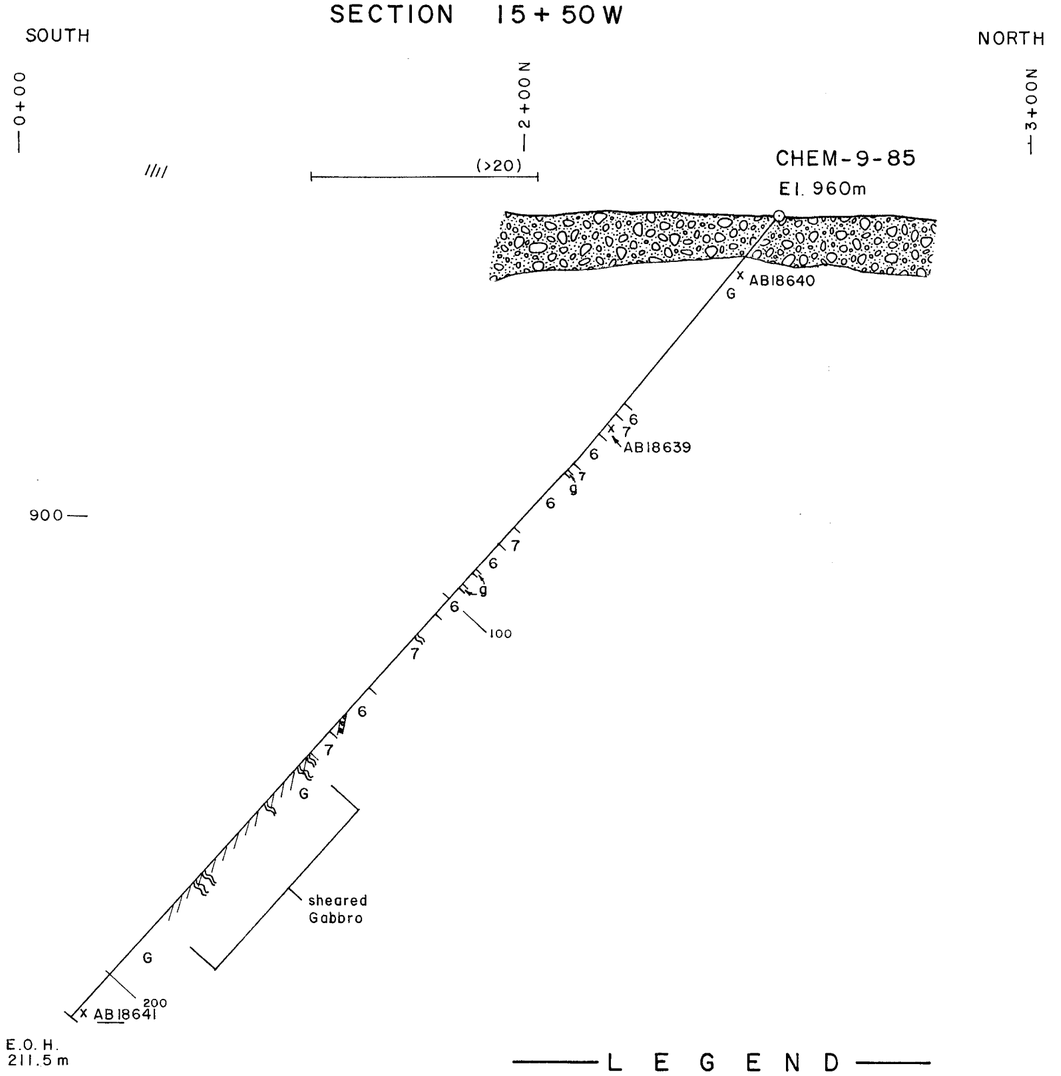
PROJ. 952

WORK BY	DRAWN BY	DATE: NOV. 29, 1985
SE	ER	

10 0 10 20 30 40 50
SCALE IN METRES 1 : 1000

Figure: 4a

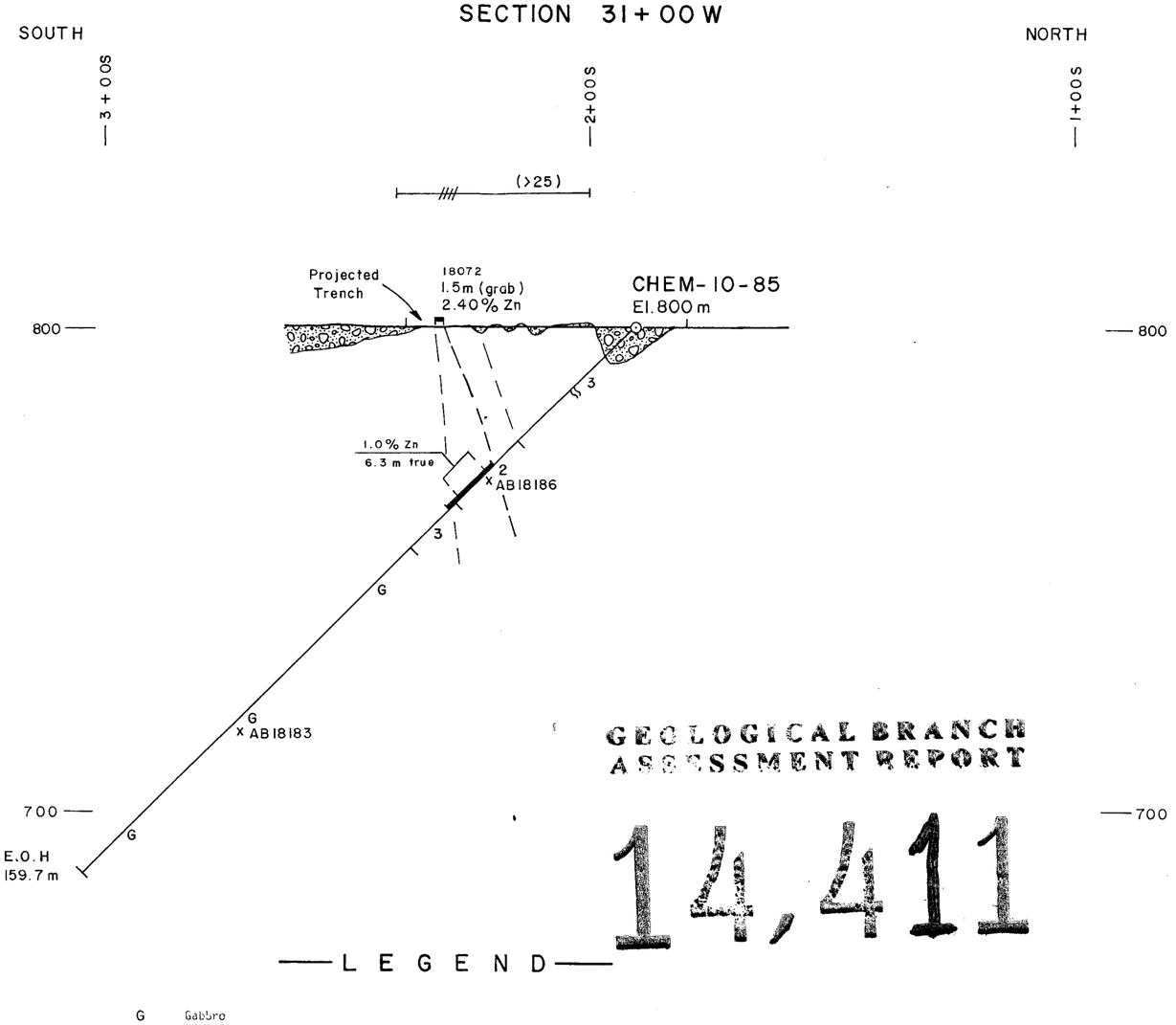
SECTION 15+50W



LEGEND

- G — Gabbro
- 7 — Buff Unit: Pinkish to pale greenish aphanitic rock with abundant quartz-calcite veinlets. Sharp contacts commonly brecciated
- 6 — Black graphitic argillite, in places cherty and very hard. Locally highly graphitic.
- g — Graphite-rich sections
- //// — Strong foliation due to shearing
- Bedding
- Shear zone
- Fault zone with gouge
- IP anomaly (m-sec chargeability)
- //// — VLF anomaly

SECTION 31+00W



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,411

LEGEND

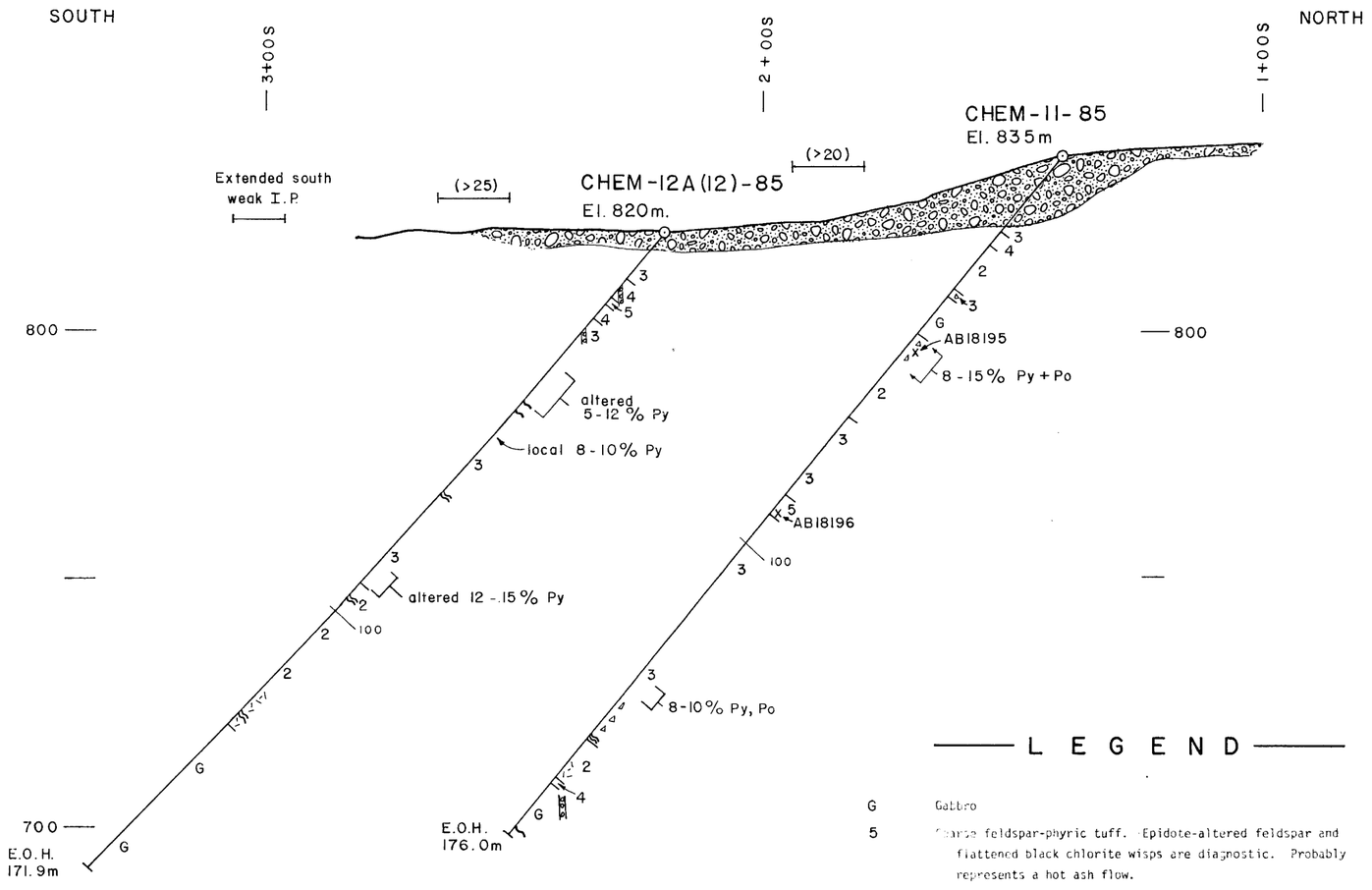
- G — Gabbro
- 3 — Felsic Volcaniclastics: Quartz-sericite-chlorite schist, light coloured and strongly foliated. Crystal tuff with some lithic lapilli clasts.
- 2 — Intermediate Volcaniclastics: Chlorite feldspar ± quartz schist, strongly foliated and medium to dark green in colour. Sulphide stringers common.
- Fault zone with gouge
- 1.0 % Zn / 6.3 m — Mineralization Po, Sph, Py stringers with indicated assay width

Sample	Interval (m)	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Zn Assays	Ba ppm
18169	40.3-41.8	0.6	760	146	3300		1380
18170	41.8-43.3	0.3	230	92	2600		1140
18171	43.3-44.8	2.4	3900	14	>5000	1.10%	1590
18172	44.8-46.3	0.7	1100	26	>5000	1.41%	1520
18173	46.3-47.8	0.2	192	94	3600		740
18174	47.8-49.3	1.0	720	122	>5000	1.66%	720
18176	49.3-50.8	2.0	2800	32	5000		1200
18177	50.8-52.3	1.6	2600	48	1590		980
18178	52.3-54.0	0.1	340	22	2700		1220
18072	GRAB	1.95g/t	1.01%	0.89%		2.40%	0.17%

3m of 1.26 Zn
6m of 1.13 Zn
7.5m of 1.01 Zn
Mineralized Zone 40.3-54.0
13.7 m

Kidd Creek Mines Ltd.	
CHEMAINUS, VANCOUVER IS.	
Section 15+50W	DDH Chem 9-85
Section 31+00W	DDH Chem 10-85
	PROJ.
WORK BY: SE	DRAWN BY: ER
DATE: NOV. 29, 1985	
SCALE IN METRES 10 0 10 20 30 40 50 — 1 : 1000	
Figure: 4b	

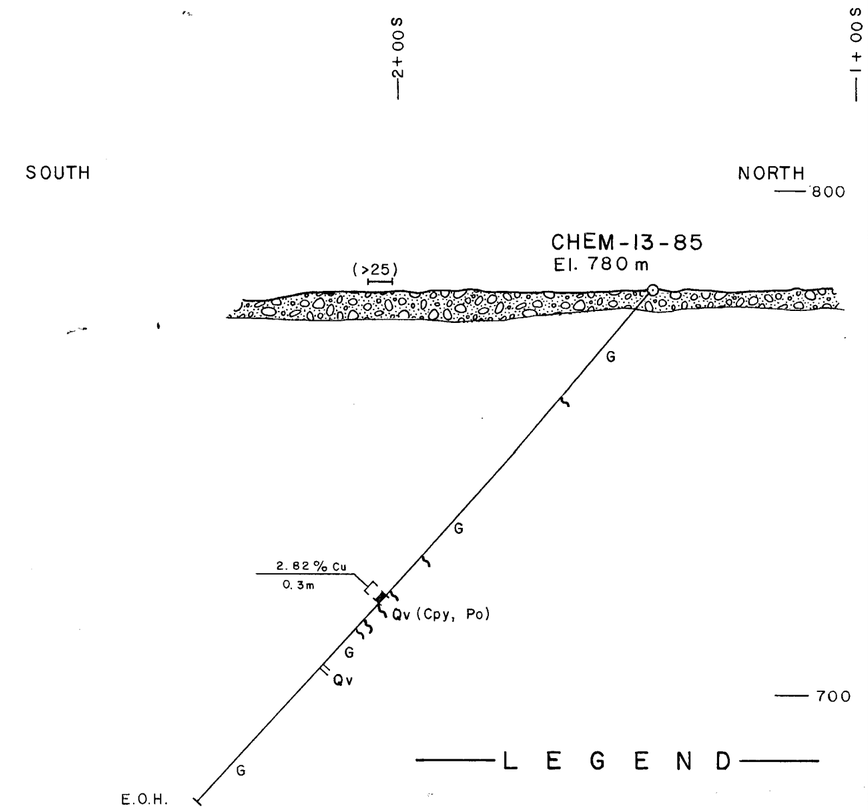
SECTION 29+50 W



LEGEND

G	Gabbro
5	Coarse feldspar-phyric tuff. Epidote-altered feldspar and flattened black chlorite wisps are diagnostic. Probably represents a hot ash flow.
4	Dark green and grey chloritic phyllite. 1 to 3 cm laminated silty beds mixed with tuffaceous material.
3	Felsic Volcaniclastics: Quartz-sericite schist, quartz-feldspar-sericite-chlorite schist, generally light coloured. Crystal and lithic tuffs. Quartz eyes more than 15%.
2	Intermediate Volcaniclastics: Medium to dark grey-green feldspar-chlorite-sericite schist. Quartz eyes generally less than 10%. Crystal and lithic tuffs.
△	Lithic fragmental texture
	Mylonitic texture
	Bedding
	Sulphide section
	Shear zone
	Fault zone with gouge
	IP anomaly (m-sec chargeability)

SECTION 31+75 W



LEGEND

G	Gabbro
Qv	White quartz vein
	Mineralized zone
	Shear zone
	IP anomaly (m-sec chargeability)

Sample	Interval (m)	Cu (ppm)	Cu (assay)	Ag (ppm)
18244	80.0-80.6	3500		0.5
18245	81.4-81.7	>5000	2.82	7.2

Kidd Creek Mines Ltd.

CHEMAINUS, VANCOUVER IS.

Section 29+50W DDH Chem 11,12,12A-85
Section 31+75W DDH Chem 13-85

PROJ.

WORK BY	DRAWN BY	DATE: NOV. 29, 1985
SE	ER	

10 0 10 20 30 40 50
SCALE IN METRES 1 : 1000

Figure: 4c