Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

BC

FAME PROGRAM

(FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION)

Grant Identification No. 10962 - ~~E33~~ E34

FORM 3

APPLICATION FOR PAYMENT

INSTRUCTIONS:

- Please type or print
- Please submit completed forms, **with two copies of the final technical report,** to:

Mailing address: Manager, FAME, Mineral Resources Division. Ministry of Energy, Mines and Petroleum Resources, Parliament Buildings, Victoria, B.C. V8V 1X4

Office location: Manager, FAME, Mineral Resources Division, 300, 756 Fort Street, Victoria, B.C.

Date of this Application
February 26, 1988

Applicant: CATHEDRAL GOLD CORPORATION

Address: 800 - 601 West Hastings Street
Telephone: (604) 669-8959

City: Vancouver
Province: B.C.
Postal Code: V6B 5A6

Mailing Address (if different from above)

Name: same

Address:

City:
Province:
Postal Code:

British Columbia Free Miner Certificate No.
299198

I/We, Cathedral Gold Corporation, hereby apply for payment of a grant under the FAME (Financial Assistance for Mineral Exploration) Program and declare the information given above to be true and accurate.

[signature]
Signature of Applicant or Signing Officer

Peter R. Delancey P. Eng.
Name (please print)

Senior Geologist
Title/Occupation (please print)

CUNNINGHAM CREEK
Project Name (please print)

CATHEDRAL GOLD CORPORATION
Company (please print)

February 26, 1988
Date

EXPENDITURES (N.B. Please provide actual all-inclusive costs, including salaries and wages, equipment and machinery rental, supplies, services, transportation and accommodation directly attributable to the field program.)

(a) For the following, the full cost (100% of expenditures) are eligible:

			Total Eligible Expenses
Geological Surveys, Map and Report Preparation and Related Costs			$ 35,730.00
Geophysical Surveys (line-kilometres)			
Ground			
Magnetic	9.1 km (10m spacings)	$ 910.00	
Electromagnetic		$	
Induced Polarization		$	
Radiometric		$	
Seismic		$	
Other		$	
Airborne		$	
		$ 910.00	$ 910.00
Geochemical Surveys (No. of samples analysed for ____)			
Soil	940 for 30 element ICP + Au by AA	$ 20,340.00	
Silt		$	
Rock	356 for 30 element ICP + Au by AA	$ 8,717.00	
Other		$	
		$ 29,057.00	$ 29,057.00
Drilling			
Surface	1098.4 m @ $ 123.79 / m =	$135,967.00	
Underground	m @ $ =	$	
		$	$ 135,967.00
Related Technical Surveys			
Sampling/~~Assaying~~	Core - 128 analyses	$ 3,696.00	
Petrographic		$	
Mineralogic		$	
Metallurgic		$	
		$ 3,696,00	$ 3,696.00
Preparatory/Physical			
Line/Grid (kilometres)	28 km	$ 4,500.00	
Trenching (metres)		$	
		$	$ 4,500.00
Other Exploration Costs (attach detailed schedules)			
		$	
		$	
		$	
		$	$
Total Eligible Expenses			$ 209,860.00

(b) For the following activities only 25% of total costs are eligible:

Tunneling, Drifting, Other Lateral Excavation, Shaft Sinking (25% of total expenses are eligible)			
	m @ $ = $ × 25% =	$	
	m @ $ = $ × 25% =	$	
		$	$

(c) TOTAL ELIGIBLE EXPENDITURES: $ $209,860.00

Goods and Services

Description	Expenditure	
	B.C.	Outside
Meals, Groceries, etc.	$ 6,960.00	$
Camping Supplies, Equipment, etc.	3,640.00	
Accommodation	1,000.00	
Transportations — Scheduled Air	2,000.00	
— Air Charter		
— Vehicle Rentals	4,000.00	
— Vehicle O and M Costs	1,000.00	
— Other (specify)		
Equipment Rentals —		
Equipment Rentals — Trenching, etc.		
— Geophysical, etc.		
— Other (specify)		
Contract Drilling	130,967.00	
Consultant Services		
Assays and Analyses	16,753.00	
Communications	500.00	
Other (specify)		
TOTALS:	$166,820.00	$

IPACT OF **FAME** GRANT

(a) Please indicate what level of **expansion** of your project was attributable to receiving a FAME grant.

$ $20,000.00

70 person/days employment.

(b) Please indicate what you feel to be the main achievement of this FAME funded program.

Gave additional incentive to drill test deserving targets

SUPPLEMENTARY INFORMATION: The following information is required in order to help us determine the contribution which mineral exploration activity makes to the economy, and relates to the utilization of B.C. vs. outside labour and services. Only figures directly attributable to the funded program should be included (approximate figures acceptable, but please be as accurate as possible).

(a) Employment, wages and salaries

Type	No. Employed		No. Person-days		Salaries/Wages Paid	
	B.C.	Outside	B.C.	Outside	B.C.	Outside
Prospectors					$	$
Linecutters						
Technicians						
General Labourers						
Drillers/Helpers						
Equipment Operators						
Geologists	4		232		$ 41,455.00	
Geophysicists	1		3		909.00	
Geochemists						
Engineers						
Supervisory	1		3		1,200.00	
Consulting						
Secretarial						
Managerial						
Legal						
Accounting						
Others (specify)						
Others (specify)						
TOTALS:					$ 43,564.00	$

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)			
Ground	1:1,000 Lease 32		$ 37,504
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	9.1 km		910.00
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ....)			
Soil	940	Mineral Lease M32	
Silt			29,057.00
Rock	356	Mineral Lease M32	
Other			
DRILLING (total metres; number of holes, size)			
Core	12 holes totalling 1098.4 m	Mineral Lease M32	135,967.00
Non-core			
RELATED TECHNICAL			
Sampling/~~Assaying~~ core	128		3,696.00
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)	28 km		4,500
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			
		TOTAL COST	211,634.00

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted .... Date	Rept. No.			Information Class

Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
DRILLING, GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL	$211,634.00

AUTHOR(S) PETER R. DELANCEY, P. ENG. SIGNATURE(S) P.R. Delancey

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED February 1988 YEAR OF WORK 1987

PROPERTY NAME(S) CUNNINGHAM CREEK

COMMODITIES PRESENT Gold

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Cariboo NTS 93 A 14

LATITUDE 52°55' N LONGITUDE 121°21' W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Mineral Lease M32, Black Martin 1 & 2, 3 & Fr., Side Winder 1-3, Jim (3 units), Louise (20 units), Donna (12 units)

OWNER(S)

(1) Cathedral Gold Corporation (2)

MAILING ADDRESS

Suite 800-601 West Hastings Street
Vancouver, B.C. V6B 5A6

OPERATOR(S) (that is, Company paying for the work)

(1) Cathedral Gold Corporation (2)

MAILING ADDRESS

Suite 800-601 West Hastings Street
Vancouver, B.C. V6B 5A6

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The Cunningham property is located within the same deformed belt of metasedimentary rocks (Downey Creek FM. - Mississippian?) hosting the gold deposits at Wells, B.C. - Interbedded quartzites, sericite schists limestones and chlorite schists strike NW and dip 70-80° NE. Several systems of quartz veins cut these rocks; some veins are gold bearing. Roughly parallel trending veins-Shasta, Hudson and 605 occupy steeply dipping faults. Gold mineralization is associated with sulphides, mostly pyrite, and is concentrated along steeply plunging ore shoots. Preliminary indications suggest that massive pyritic "replacement" deposits similar to those at Wells, may occur along a limestone horizon.

REFERENCES TO PREVIOUS WORK: Assessment Report - Geochemical Report on Cunningham Creek Claims, December 1983 by S. Quin.
Assessment Report - Drilling, Geochemical Report July 1987.

(over)

1987 CUNNINGHAM CREEK PROPERTY REPORT

(NTS 93 A,H)

for

IMPERIAL METALS CORPORATION

PETER R. DELANCEY, P. Eng.
FEBRUARY 1988
VANCOUVER, BRITISH COLUMBIA

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APPENDICES

1.0 INTRODUCTION

Cathedral Gold Corporation has a 100% interest in the Cunningham Creek gold property situated 25 km southeast of the towns of Wells and Barkerville, in east-central British Columbia. The property consists of 15 claims and fractions under Mining Lease M32, 7 reverted Crown Granted Claims and 35 MGS units.

The property lies within the Cariboo Gold Belt, one of the major gold producing areas in North America. Placer gold, discovered here in 1859, sparked the great Cariboo gold rush, some 2.5 million ounces of placer gold were recovered. Although extensive exploration for the source of the placer gold was undertaken, it was not until the 1930's that lode production commenced from the Cariboo Gold Quartz and Island Mountain Mines at Wells. Gold bearing quartz veins were discovered on the Cunningham Creek property in the early 1920's but serious work did not commence until 1937. Extensive underground development was carried out on several parallel veins, however, only the Hudson Vein saw production, with 13,000 tons grading 0.40 oz/ton mined and milled. The mine was closed at the outbreak of the World War II.

The Cunningham claims are located within the same belt of rocks hosting the gold deposits at Wells. The Cariboo Gold Quartz, Island Mountain and Mosquito Creek deposits occur along a favourable horizon in highly deformed metasedimentary rocks. The mines have a recorded production of approximately 3 million tons grading 0.40 oz/t. Ore occurs as two distinct types, shallowly plunging sulphide "replacement" bodies and steeply dipping quartz veins. Mosquito Creek Gold Mines is presently carrying out limited mining of replacement ore, to be stockpiled and treated at their 100 tons per day cyanide plant.

Recent exploration of the Cunningham property has focused on drill testing and underground sampling of the Shasta Vein; some 37,000 tons of 0.36 oz/ton gold has been outlined above the 200' level.

The purpose of the 1987 program was to upgrade our understanding of the property prior to drill testing selected targets. Particular emphasis was placed on areas favourable for "replacement" mineralization. Property mapping, fill-in and extension soil surveys, local magnetometer surveys and extensive rock sampling was carried out.

Twelve holes, totalling 1,098m, were drilled to test replacement targets and gold bearing quartz veins (ie 605 Vein).

1.1 Location and Access

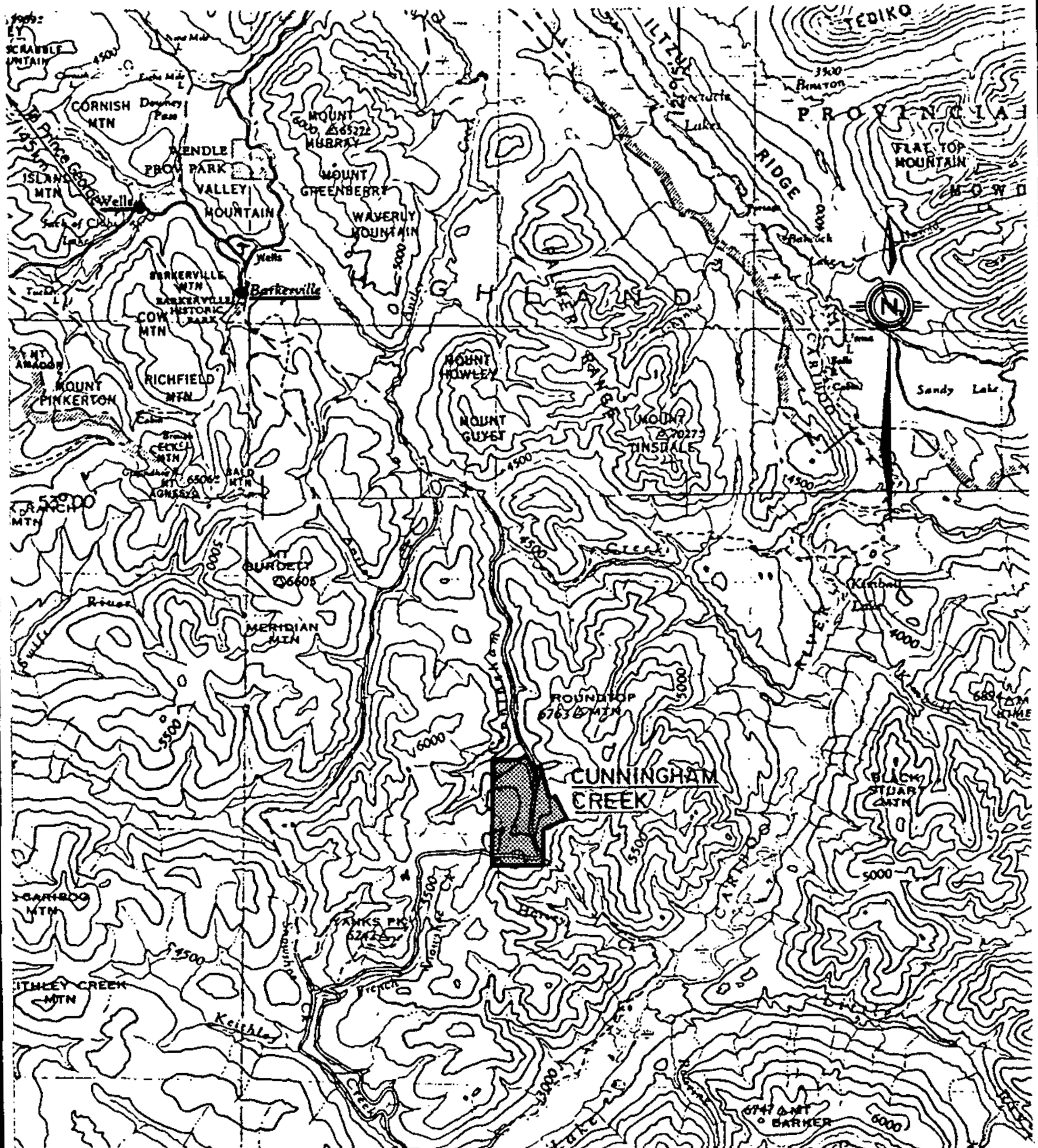
The Cunningham property is located 25 km southeast of the towns of Wells and Barkerville in east-central British Columbia. The approximate geographic center of the claims is Lat. 52° 55'N, Long. 121° 21'W on NTS Map Sheet 93 A/14 (Figure 1).

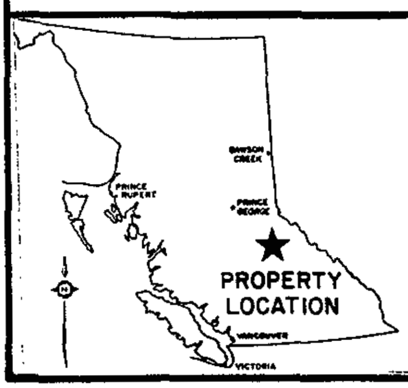
The property is easily accessible by 4-wheel drive vehicle. A well maintained forestry road (Line 3,100) branches off the Wells-Barkerville highway at the Bowron Lake turnoff; at km 17 a secondary road leads up Cunningham Creek past several placer operations to the old Hudson mine workings near the height of land. Further south the road is in poor repair; it eventually links up with logging roads near the town of Likely.

Base camp is located at the junction of Pearce and Peter Creek. Three sturdy wooden buildings provide adequate shelter. Creeks have an ample year round supply of water. All drill core is stored in camp. Although fuel, food and general supplies are available in Wells, a much better selection can be obtained in Quesnel, some 80 km to the west. The Quesnel airport has scheduled flights daily from Vancouver.

1.2 Physiography and Climate

The property lies within the transition zone between the rugged Cariboo Mountains to the east and the wooded Fraser Plateau to the west. The claims are centred on the Snowshoe Plateau at an average elevation of 1,370 m. Narrow stream valleys of Peter and Pearce Creeks flow north into Cunningham Creek. The headwaters of Harvey and Sinlock Creeks drain the southern portion of the claim and flow south into Cariboo Lake.





CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

FIGURE I | N.T.S. 93A, H

LOCATION MAP

CARIBOO MINING DIVISION, BRITISH COLUMBIA

km 5 0 5 10 km

SCALE: 1: 250,000	GEOLOGIST: P. DELANCEY
DATE: FEBRUARY, 1988	DRAWN BY: S. HAWORTH

The claims are near timberline, with open park-like meadows occuring at higher elevations. Outcrop is scarce except along creek gullies. Glacial till is common in valleys at lower elevations.

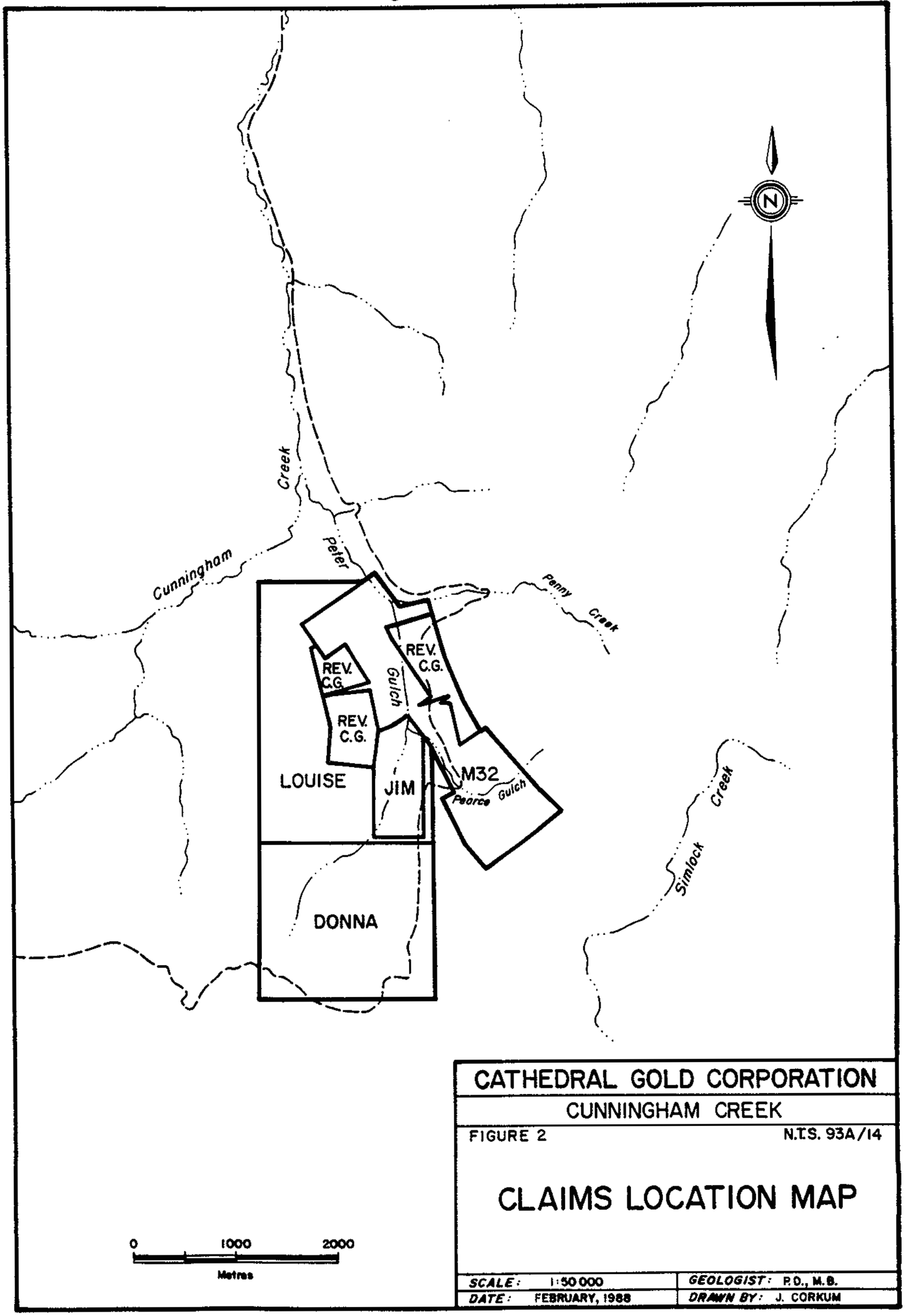
The climate is typically alpine with mild summers and cold winters. Snow accumulation is heavy; most areas are clear of snow by mid June.

1.3 Claim Status

The property is owned 100% by Cathedral Gold Corporation. The mineral claims and mineral lease comprising the Cunningham Creek property in the Cariboo Mining District are as follows:

Claim Name	Record No.	Record Date	Expiry
Mineral Lease M32	M32	Jan. 10, 1982	Jan. 10, 1989
Black Martin No. 1 & 2	1129	Aug. 14, 1979	Aug. 14, 1998
Black Martin No. 3 and Black Martin Fraction	1128	Aug. 14, 1979	Aug. 14, 1998
Sidewinder 1	4955	July 11, 1983	July 11, 1998
Sidewinder 2	4956	July 11, 1983	July 11, 1998
Sidewinder 3	4957	July 11, 1983	July 11, 1998
JIM (3 units)	251	Sept. 7, 1976	Sept. 7, 1998
Louise (20 units)	7871	Aug. 19, 1986	Aug. 19, 1998
Donna (12 units)	7955	Sept.18, 1986	Sept.18, 1998

The total area of the property is approximately 800 hectares (2,000 acres). Mineral Lease M32, comprised of 15 Crown Granted claims and fractions, require an annual rental payment of $952.00. The Black Martin and Sidewinder Claims are reverted Crown Grants and require annual assessment of $200 per claim. The Jim, Louise and Donna MGS claims, totalling 35 units, require annual assessment work of $100 to $200 per unit. All claims are grouped as the Cunningham Creek Group (Figure 2).



CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

FIGURE 2 N.T.S. 93A/14

CLAIMS LOCATION MAP

SCALE:	1:50 000	GEOLOGIST:	P.D., M.B.
DATE:	FEBRUARY, 1988	DRAWN BY:	J. CORKUM

1.4 History of Property

Placer mining has been carried out intermittantly on Cunningham Creek and its tributaries since the famous 1860's Cariboo Gold Rush. The close association of placer gold with seams of detrital pyrite and the presence of quartz crystals with some of the nuggets indicated a nearby source. However, it was not until the 1920's that lode gold was discovered at the head of Pearce Creek. Short adits were driven to explore the gold-bearing Hudson Vein. Full scale development did not commence until 1937 when Cariboo-Hudson Mines Ltd. acquired the property. The following year, 2,440 m of drifting and cross cutting was carried out on 6 levels, with most development on the 200' and 600' levels which were accessed from portals on the hillside. Much of this development work was done to investigate two adjacent veins - the Shasta and 605 Veins. Stoping was carried out on the Hudson Vein between the 250' level and surface. Some 12,938 tons of ore were mined from which 6,186 ounces of gold were recovered using a 100 tpd cyanide mill. The mine was closed in 1939, and in 1948 the mill was dismantled and sold. During the 1940's and 50's, intermittant exploration, including extensive bulldozer trenching, was carried out in the area of the Hudson, Shasta and 605 Veins. Tungsten mineralization was discovered near the junction of Peter and Pearce Creeks in the early 50's. Two adits were driven to test the extent of the tungsten mineralization. To facilitate this exploration several of the remaining Cariboo-Hudson buildings were moved to the junction of Peter and Pearce Creeks (present camp location).

In 1971, the claims reverted to the Crown and were acquired by Resoursex and TVI Mines Ltd. These companies carried out geological, geophysical and geochemical surveys in 1973 and 1976. Five holes were drilled in 1977 to test geochemical anomalies and exposed structures. Invex Resources, a predecessor company of Imperial Metals, acquired the property the following year and in 1979 tested the Shasta Vein with 3 diamond drill holes. Imperial Metals carried out a soil geochemical program in 1983 and continued testing of the Shasta Vein with 12 short holes. In 1984 a fairly major program of drilling, trenching, mine rehabilitation (200' level) and sampling was carried out. Drilling concentrated on the Shasta Vein; 32,000 tons of ore grading 0.36 oz/t were outlined. The 1986 drilling program indicated continuity of the Shasta Vein to a depth of at least 600' below surface. Two encouraging intersections were obtained along the southern extension of 605 Vein and newly discovered "replacement" sulphide body was tested with several short holes. Figure 3 summarizes the recent programs. On July 1, 1987 Imperial Metals Corporation assigned its interest in Cunningham Creek to Cathedral Gold Corporation.

FIGURE 3 - SUMMARY OF RECENT PROGRAMS

YEAR - COMPANY	SUMMARY OF ACTIVITIES	SUMMARY OF RESULTS	REFERENCE
1973 - RESOURSEX	Property reconnaissance including soil sampling (310 samples), mag. and altimeter readings on 400' spacing, VLF on 100' interval	5 north - trending anomalous zones through central portion of lease: A - Pearce Creek, B - Hudson, C - Copper Creek, D - Southwest, E - Northeast	Allen, March 1974
1976 - RESOURSEX	Detailed soil geochemical surveys (1,306 samples) and prospecting over the 5 anomalous areas outlined in 1973; VLF over grids A and B. Line spacing 100', station intervals 50'	Anomalous zones A, B, C and D confirmed. Co-incident high soils and EM on grid A Drill targets outlined	Allen, May 1977
1977 - RESOURSEX	Drilling - 5 holes (totalling 1,512') on principal targets	#77-4 into Shasta Vein was encouraging 12.5' averaging 0.89 oz/t gold	Allen, October 1977
1979 - INIVEX	Drilling - 5 holes (totalling 741') tested the Shasta Vein, geological mapping, some trenching	Encouraging results from Shasta Vein 79-1 1.70 m of 0.35 oz/t Au 79-2 0.75 m of 0.06 oz/t Au 79-5 1.50 m of 0.59 oz/t Au	Quinn, B. Sc. Thesis 1980
1983 - IMPERIAL	Detail soil geochemical surveys (2,500 samples) covering main mineral occurrence areas. Drilling - 12 holes (totalling 510 m) Shasta Vein	Geochem results indicate drill targets. Drilling Shasta Vein outlined 33,000 tons of 0.39 oz/t Au.	Quinn, December 1983 February 1984
1984 - IMPERIAL	Drilling - 16 holes Shasta Vein, 5 holes 605 Vein, 3 holes IP target (totalling 1,132 m) Underground Rehabilitation and sampling 200' level, soil surveys (fill-in and extensions, 711 samples) Extensive trenching showing areas IP over south grid area	Drilling and underground sampling of Shasta Vein generally confirms indicated tonnage and grade, shows erratic nature of mineralization (i.e., ore shoots)	Quinn, August 1984
1986 - IMPERIAL	Drilling (totalling 2,327 m) 5 holes to test Shasta Vein below 200' level 5 holes to test IP target area 6 holes to test newly discovered "replacement" zone 2 holes to test S. extension of 605 Vein	Shasta Vein - 7 of 9 holes intersect vein, 2 of these holes intersected ore shoots. I.P. target probably due to graphite "Replacement" body - drilling intersects massive sulphide mineralization, low gold values. Extension of 605 - 0.8 oz/t Au over 2.5m.	Delancey, July 1987
1987 - CATHEDRAL	Property Mapping, mag survey soil extensions, rock sampling. Drilling (totalling 1,098 m) 4 holes to test south extension of 605 Vein 2 holes to test anomalous chlorite schist 4 holes to test mag indicated "replacement" targets 1 hole to test Moneta Showing 1 hole to test N extension of Cariboo-Hudson	Several new gold bearing veins discovered, one with visible gold, copper etc. assayed 20 oz/t Au. Drilling indicates the zones are lensey. Detailed mag indicates sulphide or magnetite bodies in limestone, but drilling failed to intersect these bodies. 605 vein extension appears to pinch and swell with erattic gold values.	Delancey, Feb. 1988

1.5 Regional Geology

Recent work by Struik of the G.S.C. indicates the geology of south central British Columbia to be composed of four fault separated terranes; from west to east they are, Quesnel, Slide Mtn., Barkerville and Cariboo. The general Wells - Barkerville map area lies within Barkerville terrane and is underlain by a thick package of highly deformed metasedimentary rocks generally referred to as the Snowshoe Group. Age and correlation of rock units within this package is uncertain.

The Wells-Barkerville-Cunningham Creek area is underlain by a north west trending belt of clastic rocks (Snowshoe Group) of the Barkerville Terrane. Further to the east, these rocks are in fault contact with black clastic rocks of the Cariboo Terrane. The immediate Wells - Barkerville - Cunningham Creek mineral properties lie within the Downey Creek formation (Mississippian age?) of phyllites, slates, micaceous quartzites, limestones, marble and green meta-tuffs.

Regionally, the Snowshoe Group rocks have been folded into the Lightening Creek anticlinorium which trends northwest and plunges about 20 degrees north west.

1.6 Geology Of The Wells' Gold Deposits

The Mosquito Creek, Island Mountain and Cariboo Gold Quartz deposits at Wells have a recorded production of some 3 million tons grading 0.40 oz/t gold. The gold occurs with pyrite as "replacement" ore bodies and as quartz vein ore bodies, they occur near the contact between sericitic phyllites/limestones (Baker Member) and micaceous quartzites (Rainbow Member). The "replacement" deposits are shallowly plunging pencil shaped bodies in folded limestone. The vein deposits occur as steeply dipping quartz/pyrite filled faults in micaceous quartzites and argillites (Figure 4).

Several theories have been advanced as to the origin of the deposits. One theory suggests that gold-bearing hydrothermal fluids penetrated fractured and folded strata, precipitating quartz and pyrite in the fractures (quartz vein feeders) and "replacing" chemically reactive limestone beds. Some geologists question the "replacement" origin of the massive pyrite bodies, alternatively suggesting them to be of syngenetic origin.

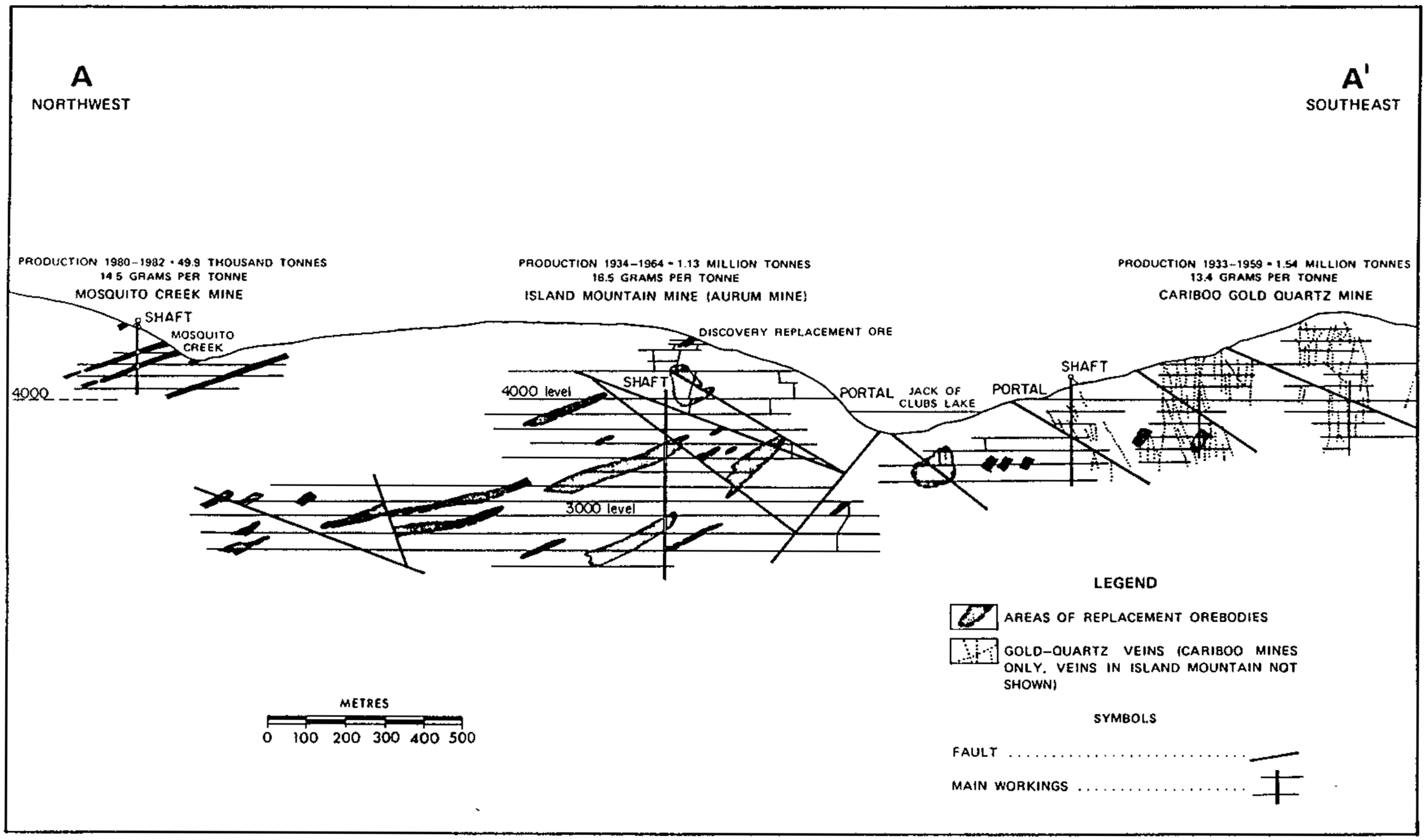


Figure 4. Longitudinal section. Projections of Mosquito Creek, Island Mountain, and Cariboo Gold Quartz mines (From D.J. Alldrick, Paper 1983-1, Ministry of Mines, B.C.)

Mosquito Creek Gold Mining Company is presently mining a limited tonnage of "replacement" type ore and stockpiling it for processing in their 100 ton per day cyanide plant. Geological exploration of the property is continuing and old data is being reevaluated to try to get a better understanding of the geological framework for the location of the ore bodies.

1.7 Summary of Work Done in 1987

The first phase of the 1987 program included:

1. Property mapping of a scale of 1:1,000.
2. Fill-in and extension of soil grids (940 samples).
3. Prospecting and sampling areas of old workings, anomalously high soil samples, geophysical anomalies, or quartz vein/float occurrences, total 356 rock samples.
4. Detailed mag surveys over limestone stratigraphy favourable for "replacement" targets.

The second phase of exploration included twelve NQ drill holes totalling 1098 m. Four holes totalling 487 m tested the southern extension of the 605 Vein; four short holes totalling 176 m tested mag anomalies within the limestone sequence; two holes tested a gold bearing chlorite schist immediately west of the Shata Vein; one hole tested an auriferous galena/quartz vein along the north extension of the Cariboo-Hudson Vein and one hole tested the Moneta Showing (Figure 6). Most exploration was within the M32 Mining Lease.

2.0 PROPERTY GEOLOGY

2.1 Introduction

Property mapping was mostly carried out at a scale of 1:1000, using grid lines for control (Figures 9, 10, 11, 12). The data was transferred to a 1:5000 scale for presentation purposes (Figure 5).

2.2 Lithology

The claim area is underlain by a northwest tending belt of quartzites, sericitic quartzites, sericitic schists, limestones and chlorite schists of the Snowshoe Group. The rock units are frequently intercalated and contacts are often gradational.

Quartzites, sericitic quartzites, sericitic schists: The quartzites are generally massive, light to medium tan grey in colour. The size of the grains is generally less than 2mm; local beds may have grains up to "pea" size. Opalescent pale blue grains are noted locally. Graded bedding or cross bedding is generally indistinct, if present at all. Sericitic quartzite is most common and is frequently gradational to quartzite and sericitic schist. The rocks frequently contain sufficient amounts of ankerite and disseminated pyrite to impart a reddish brown colouration. These rocks are most prominent on the east half of the property and are host to the gold bearing quartz veins.

Limestones, argillites, phyllites, chlorite schists: These lithologies are frequently intercalated. The limestones vary from light grey to black; locally the limestones have sufficient ankerite to weather a buff reddish brown. The unit is relatively continuous and is approximately 400m thick. The argillites are frequently graphitic, particularly where disrupted by faulting. Locally the limestone contains lenses or pods of massive pyrite, pyrrhotite, galena and sphalerite; gold and/or silver accompanies these sulphides locally. Poddy quartz veins, locally containing high gold/silver values cut this limestone sequence.

Chlorite Schists-Meta Tuffs: These rocks are exposed on the west side of the property. Locally these rocks contain disseminations of magnetite. They are probably of volcanic origin. There relation to the chlorite schists interbedded within the limestone sequence is uncertain.

Diorites: These are the only intrusive rocks in the area. Because of their ankerite content, they weather a buff brown and are sometimes difficult to discern from quartzite outcrops. Their massive, locally cross-cutting nature is evident in creek exposures.

2.3 Structure

The rocks have a northwest strike of approximately Az. 320° and a dip of 70° to 80° northeast. Regional mapping by government geologists indicates the rocks are isoclinally folded. Foliation, crenulations, and local "kink" or isoclinal folding, and lensing of units, attest to strong structural deformation. Foliation is generally at a slight angle to bedding. Faulting is common. Previous mapping indicated a major fault (Copper Creek fault) cutting across the property. Although no direct evidence was seen for this fault, rock units appear to be slightly offset along this presumed structure. Quartz veins occupy various fracture systems, several veins show evidence of movement along the walls.

3. MINERALIZATION

3.1 Introduction

The Cunningham Creek property is well mineralized. The most promising showings occur within a belt of quartzite, limestone and argillites trending NNW through the centre of the mining lease. Several types of mineralization are recognized, gold bearing quartz veins are the most prominent. "Replacement" type mineralization is less recognized to date, but is the most important type in the gold mines at Wells. Significant amounts of tungsten mineralization (scheelite) occurs in quartz veins near the junction of Pearce & Peter Creeks.

A 1987 Summary Map showing the location of the more significant gold mineralization, is presented on the following page (Figure 6).

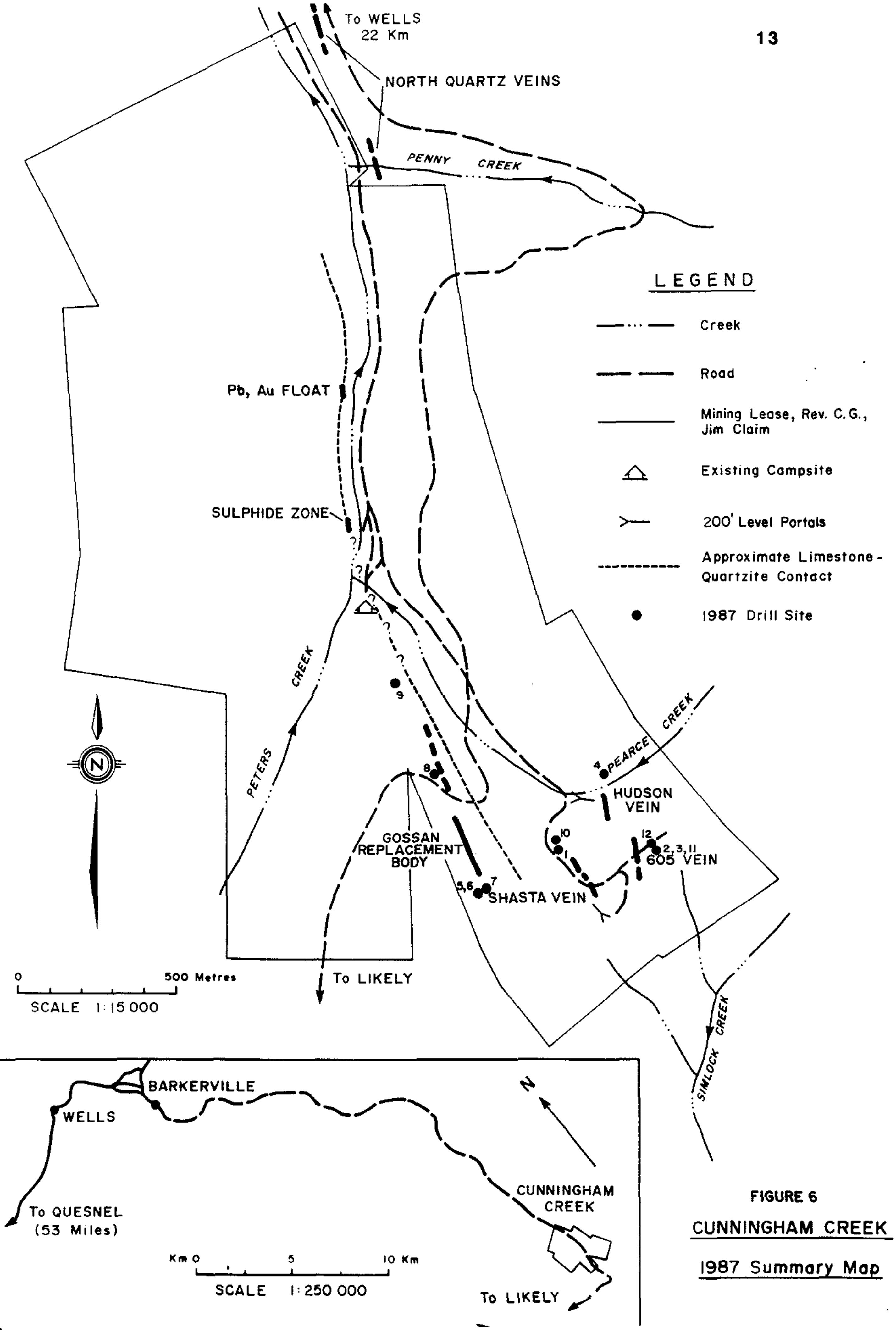


FIGURE 6

CUNNINGHAM CREEK

1987 Summary Map

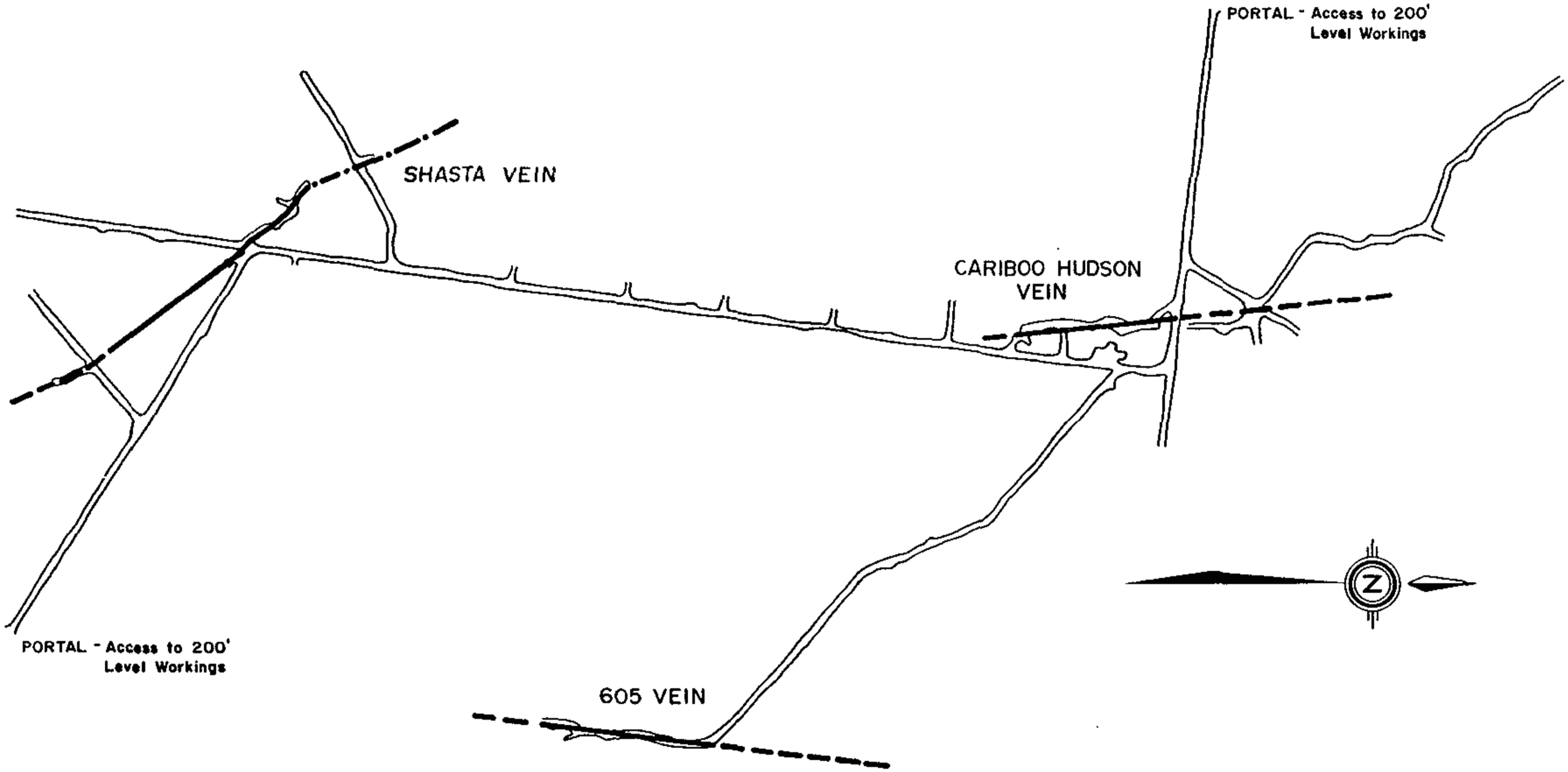
3.2 Quartz Veins

Quartz veins are most conspicuous and have been the principal target for gold exploration. The veins range from a few centimeters to few meters wide and from a few meters to several hundreds of meters long. The strike of the veins fall in three main classes - north, northeast and east; veins striking northwesterly along foliation are generally less persistent. The north trending veins are most productive for gold mineralization. These veins, including the Shasta, Hudson and 605 Vein, occupy faults or shears which dip steeply to the east. Branching, splaying, pinching & swelling of the veins are common. These quartz veins are best developed in the more brittle quartzites.

The vein quartz is massive, milky white. Crystal-lined vugs and comb texture indicate relatively open fracture deposition. Ankerite is a common gangue mineral, frequently occuring along the vein walls. Sulphide content of the vein is variable. Pyrite, and less commonly sphalerite, galena and chalcopyrite, occur as irregular masses, bands and disseminations. Pyrite is usually coarsely crystalline and is frequently leached out on surface exposures. Gold mineralization appears to be intimately associated with the sulphides, and a general correlation is noted between the sulphide content and gold content of the vein. Gold bearing ore shoots are associated with concentrations of sulphides within the vein system. The geometry of these steeply plunging shoots is often controlled by the intersection of structures.

3.3 Shasta Vein

In 1938 underground exploration workings on the Cariboo Hudson mine were carried through to Simlock Creek to investigate the Shasta Vein, some 150 meters to the west (Figure 7). Interest in the potential of the Shasta Vein was renewed in 1978 when an exploration hole intersected 13 feet averaging 0.89 oz/t Au. Subsequent exploration drilling in 1979, 1983, 1984 and 1986 focused on this vein (see Summary, Figure 3). Approximately 32,000 tons of 0.37 oz/t gold were outlined above the 200' level (S. Quinn 1984); and continuity of the vein was established to 600' below surface. The vein is exposed discontinuously over a strike length of 250 m and dips steeply to the east. The width is extremely variable from less than 0.5 meters to 4.0 meters. The grade of mineralization is equally erratic with the best values accompanying concentrations of sulphide along steeply plunging ore shoots. Trench S-2 exposes a wide lense of quartz with good gold values accompanying concentrations of galena and pyrite. The zone probably extends to the 200 foot level where the workings expose a sulphide-quartz lense. A portion of this ore lens has been displaced some 10 meters by a steeply dipping fault. Some of the better drill intersections appear to have penetrated this shoot.



LEGEND

- Intersected Vein: Drilling and Workings
- Projected Vein: Partially Drilled

CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

FIGURE 7 N.T.S. 93A/14

200' LEVEL PLAN

Cariboo Mining Division, British Columbia

25 0 25 50 75 100 125
Metres

SCALE: 1:2000	*GEOLOGIST:* P. DELANCEY
DATE: FEBRUARY, 1988	*DRAWN BY:* S. HAWORTH

3.4 Hudson Vein

The Hudson Vein strikes approximately N-S and dips approximately 85° to the east. The vein averages 2 to 2.5 m wide and is continuous for approximately 75m before it horsetails, with veins running parallel to foliation. Ore shoots and pods are characterized by irregular masses and bands of sulphides, chiefly pyrite, pyrrhotite and locally sphalerite and galena. In 1938 the vein was extensively explored on four levels down to 600'. Mining was carried out from the 250' level to surface; 12,938 tons of ore were extracted, from which 5,186 oz of gold were recovered before the mine closed in 1939.

3.5 605 Vein

The 605 vein lies east of the Hudson and Shasta Veins. The Vein was explored in 1938 by extending the 200' & 600' levels from the Carriboo - Hudson workings. Sampling on the 200' level, at that time, averaged 0.25oz/t Au over 150' drift length. Five drill holes tested the 605 vein during the 1983-84 programs and another two holes, in 1986, tested the south extension. Results are particularly encouraging along the southern extension; DDH 86-20 cut 2.5 meters of quartz/sulphide vein grading 0.8 oz/t Au. 1987 drill testing of this southern extension indicates the vein pinches and swells (two intersections of 5m); best intersection was 0.1 oz/t over 0.4m.

3.6 Other Quartz Veins

Numerous other quartz veins transect the area. In the past sampling of veins has been somewhat random and less than thorough. Most veins are barren of mineralization. Anomalously high gold valves were obtained from several "newly discovered" veins and other gold bearing veins are suspected in areas of high gold soil anomalies.

A local concentration of pyrite and chalcopyrite was found in lensy quartz veins cutting chlorite schist immediately west of the north end of the Shasta Vein. Assays returned high grade gold values up to 20 oz/t. Subsequent examination indicated considerable visible gold, and some native copper. Drill testing (holes 87-1, 87-10) of this anomalous zone of chlorite schists indicated several sections of ± 0 .1 oz/t Au. (see Figures 19 and 25).

A ± 1m wide quartz vein is exposed in Peters Creek between lines 12+00W and 12+50W. The quartz vein contains banded quartz and pyrite. A grab sample ran 40,900ppb Au (1.2 oz/t). Other grab samples in the same general area are also anomalous. Host rocks are limestones and sericite schists. A drill site was prepared to test this vein but winter conditions prevented completion of the program.

An extensive quartz vein system (Hill Vein) is exposed along the eastern boundary of the claims. The vein is poorly exposed but is well outlined by a soil anomaly. Values up to 3750 ppb Au have been obtained from grab samples. Although a drilling site was spotted, no drill testing of the vein was carried out during the 1987 program.

A quartz vein with local pyrite is exposed in a tributary of Simlock Creek immediately southeast of the 605 Vein; highest gold value is 3485 ppb. Steep topography prevents easy drill testing of this target.

A system of north trending quartz veins with local concentrations of fine banded pyrite are exposed along the north boundary of the property. These veins include two veins previously explored by short adits. Selective samples have values averaging 1.8 oz/t Au.

3.7 "Replacement" Type Mineralization"

It was not until 1983 that the potential for discovery of "replacement" type gold deposits on the property was recognized. This is the most important type of mineralization at the Island Mt. and Mosquito Creek Mines near Wells. This "replacement" mineralization tends to be high grade (0.7 oz/t Au) and occurs as shallowly plunging pencil-shaped masses of pyrite in limestone (Figure 4). The so-called "sulphide and "IP" showings on the Cunningham property occur within a limestone/argillite unit just north of the junction of Pearce and Peter Creeks. These mineral occurrences are characterized by small pods and irregular masses of pyrrhotite, pyrite and/or galena. High but erratic gold and/or silver values accompany the sulphides. Results suggested the IP anomaly to be due to graphite. North of the Cunningham Claims, similar silver-bearing galena pods have been the target of extensive trenching and drilling (Chaput's Claims).

During the 1986 program, massive gossanous, iron oxide float and outcrop was discovered adjacent to a limestone unit in a narrow north-trending valley west of the Shasta Vein. Samples gave anomalously high gold values up to 4,700 ppb; results from further detail rock sampling in 1987 also were highly anomalous. Drill testing with short holes, (86-14 to 19), proved difficult because the body apparently plunges shallowly northward along topography. However, DDH 86-15 and 16, intersected several feet of semi-massive, weakly banded pyrite and lesser pyrrhotite. Assays results were discouraging. The similarity of this "replacement" body to those of the Wells deposits is striking, and although the lack of gold in this occurrence is disconcerting, the discovery highlights the potential for significant sized replacement bodies on the limestone horizon.

In 1987 detailed magnetometer survey over this body gave a very distinct mag anomaly. Expansion of the survey in other areas where mapping indicated favourable host rocks and alteration, indicated similar anomalies. Several of these targets were tested by shallow drilling; the holes failed to intersect the desired target.

4.0 DRILLING

Drilling programs were conducted in 1977, 1979, 1983, 1984 and 1986 and 1987 totalled 461 m, 726 m, 510 m, 1,132 m, 7,632' and 1,098.4m respectively. Previous drilling focused on exploration of the Shasta Vein. A 1987 drilling summary is presented in Figure 8.

The 1987 drilling was contracted to Paragon Drilling of Kamloops. A Longyear 38 was mobilized to the property on October 14 and demobilized on December 2, 1987.

All core (NQ) for the 1987 program was photographed and logged (Appendix A). Selected intervals, usually with visible sulphides, were split or sawed and sent to Acme Analytical Labs in Vancouver or geochemical analyses. The geochemical certificates are presented in Appendix B. The 1987 drill core is stored in core racks at camp; core from previous drilling is organized and stored in a shelter at camp.

FIGURE 8 - 1987 CUNNINGHAM CREEK DRILLING SUMMARY

HOLE #	COORDINATES	ELEVATION	ATTITUDE	LENGTH	OBJECTIVE	RESULTS			
						From	To	Length	Au ppb
01	2+10E, 1+80S	1715	-45°/261°	175.9	To test at shallow depth quartz veins and pods (up to 20 oz/t Au) in anomalous schists. To intersect source of high mag anomaly in limestones.	16.2 53.6 60.4	18.3 60.9	2.1 0.5	5,390 8,610 1,680
02	4+40E, 1+45N	1740	-43°/271°	93.6	To test 605 vein close to 200' level.	56.3 57.2	61.3 57.6	5.0 0.4	Quartz vein +/- sulphides 3,420
03	4+40E, 0+45N	1740	-60°/225°	149.0	To test 605 vein close to 400' level.	127.8	128.1	0.3	1,440
04	1+45E, 1+30N	1710	-45°/274°	81.4	To test a a shallow depth gold bearing galena quartz vein at north extension of Cariboo Hudson.	No significant values			
05	1+90E, 3+88S	1715	-45°/088°	96.6	To intersect mag anomaly in limestones at a shallow depth.	No significant values			
06	1+90E, 3+88S	1715	-45°/203°	31.1	To test depth extent of sphalerite bands exposed in limestone.	No significant values			
07	2+27E, 3+46S	1715	-45°/273°	32.6	To test mag anomaly in limestone at shallow depth.	No significant values			
08	2+35W, 2+35S	1700?	-45°/190°	16.0	To test mag anomaly in limestone at shallow depth.	No significant values			
09	5+05W, 1+75S	1600	-44°/042°	81.4	To test favourable stratigraphy and galena showing in Moneto area.	Intersected galena but no significant Au values.			
10	1+87E, 1+442S	1715	-45°/285°	96.6	To test chlorite schist which hosts high-grade gold on surface.	34.65	35.15	0.50	4,450
11	4+40E, 0+45N	1740	-53°/241°	131.4	To test 605 vein.	108.5	110.3	1.8	620
12	4+00E, 0+38N	1745	-45°/270°	112.8	To test 605 vein.	26.1 26.1	31.8 27.7	5.7 1.6	Quartz vein +/- sulphides 535

Cross-sections (1:500) for each hole are presented in Figures 19 to 25 (in pocket). Correlation of geology with surface and other holes on the same section is difficult. Major quartz vein intersections, such as the 605 Vein, could generally be correlated from hole to hole but correlation of narrower veins is difficult, if not impossible.

Coordinates of drill holes were measured by chain and compass from grid stations. The position of grid lines and stations is approximate. Elevations of drill collars were approximated from the orthophoto base. A survey tieing in all drill hole collars is recommended - particularly if one is attempting to test the projection of specific targets such as plunging ore shoots. A single-shot Sperry-Sun survey was taken at the bottom of each hole. Holes flatten an average of 1° per 100 feet. Core recovery was generally good; drill bit consumption was high.

5.0 GEOCHEMISTRY

Several generations of geochemical soil surveys have been carried out over different grids, using various line spacings and sample interval spacings. Samples from the initial programs were not analyzed for gold.

The 1987 program included fill-in line sampling and extension of some grids. Samples were collected at 10m spacing with lines ranging between 25 and 100 meters apart. Some 940 soil samples were collected and analyzed in 1987. Samples of the B horizon were taken, where possible, at a depth of approximately 20-30cm. They were then shipped to Acme Analytical Labs in Vancouver for 30 element ICP and Au by A.A. analyses. Results of the 1984, 1986 and 1987 sampling program for the various grids are presented in Figures 13 to 16. The 1987 geochemical analyses are presented in Appendix B.

Previous sample and line spacing was too large, given the lack of significant lateral dispersion and the width of the target sought (approximately 1m). A minimum sample spacing of 10m and line spacing no greater than 25m is recommended. Although other metals such as lead, zinc and silver can locally be good indicator elements; gold analysis is by far the best indicator for gold mineralization.

Soil geochemistry appears to be a reliable and useful exploration tool in the Cunningham Creek area. Superficial cover is generally less than 2m. Soil development is moderate and dispersion restricted. Contamination from previous exploration and mining activities is recognized and is especially a problem in creek valleys that were worked for placer gold.

Prospecting and rock sampling was particularly successful in discovery of new showings. A total of 356 rock samples were collected, their location is indicated on the 1:1,000 Geology and Geochemistry Maps; anomalous values are indicated. Geological analyses are included in Appendix B.

6.0 GEOPHYSICS

Significant amounts of pyrrhotite and magnetite were noted in the "replacement target" sulphide intersections in 1986. In 1987 a limited magnetometer survey over the immediate gossanous sulphide body indicate a descrete, elongate mag anomaly reflecting the sulphides and magnetite. Further surveys were carried out on specific grid lines within the favourable limestone package. The work was contracted to a geophysical operator Brian Mullion, using a Scintrex MP 2 instrument. Approximately 9.2 line km were surveyed at a 10 meter station spacing. Although diurnal corrections were made for each survey, no corrections were made between individual surveys. Individual survey results are contoured and presented in Figures 18a to 18f. A summary map showing mag high and lows is presented in Figure 17. Several of the mag anomalies were tested by shallow drilling; results were negative in that no explanation for the anomalies could be seen in the drill core.

7.0 DISCUSSION

Several points not apparent or sufficiently emphasized in previous reports are:

(a) The Cunningham Creek property shows such striking similarities to the deposits at Wells that these better-studied deposits can be used as a "model" to guide exploration at Cunningham Creek.

(b) None of the veins or "replacement" deposits at Wells would be economic, except for their close spacial distribution. The average cross section of a replacement deposit is 10 square meters; the average dimension of a quartz vein ore shoot is 1.5m x 40m x 30m. Basically, these 2 to 7 thousand ton bodies, are the exploration targets. Exploration at Cunningham Creek must be directed at the discovery and general verification of several mineralized vein/ replacement bodies. Encouragingly enough there appears to be several potential quartz veins in the Shasta-Hudson area which have not been adequately tested, or previously recognized. Those that show considerable potential are the 605 Vein(s) and the 635 Vein encountered in the old underground workings, and the Hill and Simlock Creek veins recently recognized on surface. Other, poorly explored veins at the north end of the property show high gold values, (averaging better than .5 oz/t) associated with finely banded pyrite.

(c) Replacement deposits at Wells are a more attractive target than the vein deposits. There is good reason to believe that the Cunningham property has gold bearing replacement deposits yet to be discovered. The stratigraphy, lithology and setting is very similar to that hosting the Wells "replacement" deposits. Several massive "replacement" deposits containing variable amounts of galena, pyrite, pyrrhotite and magnetite, have been found along the favourable stratigraphy, however no significant "replacement" type gold mineralization has been discovered to date. The sulphides intersected in drilling the auriferous gossanous replacement body discovered in 1986, are typical of the barren bottom on fringes of "replacement deposits. The geometry suggests that this was a large pencil-shaped pyrite-pyrrhotite replacement body which has been mostly eroded. Other indications of yet undiscovered "replacement" mineralization are the presence of typical "halo" signatures such as galena and sphalerite mineralization, mariposite, silicification and ankeritization, together with local elongate magnetite highs presumably reflecting pyrrhotite or magnetite mineralization at depth.

(d) Where as most of the gold mineralization at Wells is associated with fine grained pyrite, gold mineralization at Cunningham Creek is frequently associated with galena. Active placer workings down drainage show a close association of gold and galena and interestingly enough a spacial association with limestone gravel lenses. Unfortunately, the galena-gold association is erratic with some galena-quartz veins containing high amount of gold while others are barren; others have high silver values. The relationship between mineralized quartz veins and adjacent "replacement" mineralization is uncertain.

The difficulty in locating quartz-vein ore shoots and/or replacement deposits cannot be overstressed. Detail mapping of the showing areas (including underground) is lacking. Without detailed structural measurement and knowledge of the character of the mineralization, projections and correlation of ore intercepts is difficult and uncertain. Some geological data and assay results is available from old reports; this data must be examined, compiled and integrated with recent exploration data.

Although significant tonnage has been outlined in previous drilling, evaluation of the potential of all gold bearing veins and "replacement" bodies in the immediate area is required before any serious mining developments are considered.

8.0 CONCLUSION

The Cunningham Creek property is located along the same belt of rocks hosting the gold deposits at Wells. The immediate geological setting and character of the mineralization is strikingly similar. The overall potential of the Hudson, Shasta and 605 Vein systems is not unlike that of the Cariboo Gold Quartz Mine at Wells, where some 1.5 million tons of 0.4 oz/t gold was mined. The discovery of a "replacement" type sulphides along a favourable limestone unit underlines the potential for "replacement" mineralization similar to that of the Island Mountain and Mosquito Creek deposits where some 1.13 million tons of 0.5 oz/t gold was mined.

9.0 RECOMMENDATIONS

The property warrants further exploration. Work should include compilation of all data, a survey of old workings, drill holes, etc., underground rehabilitation and sampling of veins on the 600' level and a minimum of 2000m of drilling to test gold bearing quartz/sulphide veins and "replacement" targets.

10.0 ITEMIZED COST STATEMENT FOR 1987

DATES	August 20 through December 2, 1987.		
WAGES	Senior Geologist 82 days at $265.00/day	= $21,730.00	
	Geologist 83 days at $125.00/day	= $10,375.00	
	Geologist 13 days at $200.00/day	= $ 2,600.00	
	Field Assistant 54 days at $125.00/day	= $ 6,750.00	
			$ 41,455.00
MEALS	147 man days at $30.00/man day	=	$ 4,410.00
TRANSPORTATION	4 months truck rental at $1,000.00/month	= $ 4,000.00	
	Airfare	= $ 2,000.00	
			$ 6,000.00
GEOCHEM AND ASSAY	128 core samples 30 element ICP + Au at $13.25	= $ 1,696.00	
	356 rock samples 30 element ICP + Au at $13.00	= $ 4,717.00	
	940 soil samples 30 element ICP + Au at $10.00	$10,340.00	
			$ 16,753.00
EQUIPMENT		=	$ 3,640.00
GEOPHYSICS	9.1 km of proton mag	=	$ 909.00
DRILLING	1098.4 m NQ drilling (includes: Total direct and indirect charges camp construction, maintenance and 85 man days meals for geological personnel).		$135,967.00
REPORT PREPARATION	Drafting 200 hours at $15.00/hour	= $ 1,500.00	
	Reports	= $ 1,000.00	
			$ 2,500.00
		TOTAL:	$211,634.00

11.0 STATEMENT OF QUALIFICATIONS

I, PETER ROSS DELANCEY, of 1748 Dunbar Street, Vancouver, B.C. do hereby certify that:

1. I am a Senior Geologist employed by Imperial Metals Corporation Suite 800 - 601 West Hastings Street, Vancouver, B.C.

2. I have been practising my profession as an exploration geologist since 1967, and have been involved in mining exploration in British Columbia for 17 years.

3. I am a Professional Engineer registered with the Professional Engineering Association of British Columbia.

4. I am a Fellow of The Geological Association of Canada.

5. I obtained my Master of Science Degree from The University of Manitoba, Winnipeg, Manitoba in 1967.

Peter R. Delancey

FEBRUARY 1988

12.0 BIBLIOGRAPHY - List of Reports on Cunningham Property

MARCH 1987 — Summary Report of the Cunningham Creek Gold Property
by P. Delancey

OCTOBER 1986 — Cunningham Creek 1986 Activities and Results
by P. Delancey

JANUARY 1985 — The Geology and Exploration of the Cunningham Creek Property
by S. Quin

AUGUST 1984 — Drilling Report on the Cunningham Creek Claim
by S. Quin

AUGUST 1984 — Logistics Report on Induced Polarization Surveys
by J. Hawkins (Geoterrex)

FEBRUARY 1984 — Drilling Report on the Cunningham Creek
by S. Quin

DECEMBER 1983 — Geochemical Report on the Cunningham Creek Claim
by S. Quin

SEPTEMBER 1983 — A Summary and Evaluation of the Cunningham Creek Property with Proposed Exploration for Fall 1983
by S. Quin

AUGUST 1980 — Geological Report Black Martin Mineral Claim
by S. Quin

AUGUST 1980 — Prospecting Report Black Martin Mineral Claim
by S. Quin

MAY 1979 — Report on the Cunningham Creek Property
by J. Elwell

OCTOBER 1977 — Report on the Cunningham Creek Drilling Project
by G. Allen

MAY 1977 — Report on Mineral Lease M32 and the Jim Claim
by G. Allen

JANUARY 1977 — Report of the 1976 Detailed Exploration Program conducted on the Cunningham Creek Property
by G. Allen

MARCH 1974 — Geochemical and Geophysical Report on the Cunningham Creek Property
by G. Allen

APPENDIX A

DIAMOND DRILL LOGS

DRILL RECORD — IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-1
COMMENCED: October 21, 1987
COMPLETED: October 26, 1987
OBJECTIVE: 1) To intersect gold bearing quartz veins (up to 20 oz/t Au) in ser-chl schist.
2) To intersect source of high mag anomaly in limestones.

LOCATION : SE Grid
LOC. : 2 + 10E, 1 + 80S
ELEV. : 1715m approx.
CORE SIZE: NQ

ATTITUDE COLLAR: -45°/265°
ATTITUDE BOTTOM: -45°/257°
% RECOVERY : 100%
LENGTH : 175.9m

LOGGED BY : P. Delancey
DATE : Oct. 26, 1987
CORE STORED : Camp
UNUSUAL FEAT.:

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	9.10		*Casing (soft and altered ser-chl schist).*										
9.10	15.90		Sericite-Chlorite Schist Light greyish green, very finely "laminated" or foliated. Laminations show typical "kinking" and local quartz-ankerite segregations. Several zones of shearing and crushing noted. Also local black magnetite specks noted. Rock appears to be highly deformed, mudstone. Local pyrite concentrations (cubes?) noted.										
15.90	18.30		Sericite-Chlorite-Argillite Schist Mixture of greenish grey ser-chl schist with darker more argillaceous and finely pyritic bands. Quartz-ankerite segregations and knots are common. Banding shows contortions, local shearing and crushing. Pyrite content is locally up to 20% with pyrite occuring as fine bands (laminae) and as small disseminated bands, particularly adjacent and within the quartz-ankerite segregations.	56352	16.2	18.3	2.1	280	5390				
18.30	21.90		Sericite-Chlorite Schist Similar to 9.10 to 15.90 but banding or laminations are coaser and whispy and kinking is not prominent. Quartz/sulphide? (pyrite) bands are common and quartz-ankerite veinlets with pyrite cubes. The v.f. grained pyrite laminations show deformation typical of plastic or soft sediment deformation.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			18.30 - 19.30 approx. 30% quartz-ankerite with local pyrite.	353	18.3	19.3	1.0	90%					
			19.30 - 21.90 approx. 3% fig pyrite as whispy bands.	354	19.3	21.9	2.6	90%					
21.90	38.40		**Chlorite-Sericite Schist**										
			Above grades into more greenish rock which locally shows "plastic" type										
			deformation and local quartz-ankerite segregations locally with some pyrite.										
			Local fine pyrite bands up to 1cm wide noted especially near top of section.										
			Lower section more sericitic.										
			21.90 - 22.00 - piece contains 1cm band of fine pyrite.	355	21.9	22.0	.1	100					
38.40	41.70		**Chloritic Quartzite**										
			Above interbands gradually with a greyish fine grained micaceous quartzite.										
			Minor pyrite noted as well as v.f. disseminated dark specks. Minor mari-										
			posite noted and broken rock at 39.70.										
41.70	49.70		**Sericite-Chlorite Schist**										
			Similar to 9.10 to 15.90. Lower part shows tiny clay altered grains and										
			rock becomes more quartzitic.										
49.70	54.60		**Quartz Vein**										
			Coarsely crystalline white quartz vein with local micaceous portions.	356	49.70	50.70							
			Ankerite is locally common. Pyrite appears to "replace" a few of the	357	50.70	53.10							
			micaceous "inclusions" locally. Pyrite noted at 53.50, 53.60, 52.20. At	358	53.10	54.60							
			53.60 6cm quartz with 10% pyrite.	351	53.60				8610				

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
54.60	58.30		**Sericite-Chlorite-Quartz Schist**										
			Similar to previous but with bands and segregations of quartz, local areas	359	54.60	56.80	2.2						
			with darker bands containing f.g. pyrite.										
58.30	60.40		**Sericite-Chlorite-Quartzite**										
			Variable quartzitic to schistose rock grading into above and below.										
60.40	61.20		**Sericite-Chlorite-Quartz Schist**	360	60.40	60.90	0.5		1680				
			As above - local mariposite.										
61.20	63.20		**Sericitic-Chloritic-Quartzite**										
			Greyish green to light greenish tan. Quartz grains are visible, minor dis-										
			seminated pyrite.										
63.20	74.40		**Sericite-Chlorite Schist**										
			Variably coloured between lightish green tan to greyish. Fine laminae are	361	63.60	65.50	1.9						
			contorted. Quartz-ankerite veinlets and segregations noted locally. Mari-										
			posite noted locally throughout, minor pyrite concentrations (69.90) noted	362	69.40	69.80	0.4						
			locally. Badly sheared and altered from 63.60 to 65.50 and from 66.10 to										
			68.00, poor recovery. Quartz eyes noted locally in sericite schist										
			(mudstone).										
74.40	81.40		**Phyllite**										
			Dark grey laminated phyllite. Laminae are kinked and contorted with quartz										
			ankerite segregations, bands and laminae. No sulphides are visible, ser-chl										
			schist at 80.90.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
81.40	85.80		**Phyllite and Sericite-Chlorite Schist**										
			Sections of phyllite grading in and out of sericite-chlorite schist. Local										
			quartz-ankerite segregations. Sections of heavily sheared rock at 81.40 -										
			81.60, 82.50 - 83.20 and 84.60 - 85.00.										
85.80	88.90		**Sericite-Chlorite Schist**										
			Light greenish finely laminated and locally kinked schist with local quartz										
			segregations. From 85.80 to 87.20 - 2% disseminated specks of magnetite.										
			At 88.10 shear zone, minor pyrite at contact with limestone at 88.90.	363	88.90								
88.90	91.70		**Interbanded Limestone Sericite-Chlorite Schist**										
			Interbanded sericite-schist and white limestone. No visible sulphides.										
91.70	102.50		**Interbanded Phyllite and Limestone**										
			Dark grey to black phyllite and grey to white limestone with irregular seg-										
			regations of quartz. Bands are irregular and lensey. Some sections are										
			heavily shistose while others are mostly limestone. Small local pyrite										
			concentrations.										
102.50	113.20		**Limestone**										
			Grey to white crystalline limestone with narrow local schistose beds.										
			Minor, partially oxidized ankerite noted locally.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
113.20	116.80		**Mixed Sericite-Chlorite, Phyllite, Ser-Quartzite**										
			Variably laminated phyllite and schist with sections of more massive										
			sericitic quartzite. Mariposite noted locally in quartzite. Local quartz										
			segregations in quartzitic sections - small altered knots (quartz grains).										
			Minor pyrite noted locally.										
116.80	125.20		**Interbanded Limestone and Phyllite**										
			As in 91.70 to 102.50. Grey to black irregularly banded limestone and										
			phyllite. Minor local pyrite cubes.										
125.20	130.20		**Interbanded Limestone, Ser-Chl-Phyllite Schist**										
			Variable sections of above, local pyrite cubes, quartz										
			segregations.										
130.20	136.80		**Limestone**										
			Grey to white limestone with local phyllitic partings and sections. Local										
			pyrite and magnetite lenses and local pyrite cubes.										
136.80	150.30		**Mixed Limestone, Phyllite, Ser-Chl-Schist**										
			As from 113.20 to 116.80. Local quartz segregations. Minor local pyrite.										
150.30	114.50		**Limestone**										
			Grey to light grey crystalline limestone with dark phyllitic partings.										
			Local sections of sericitic quartzite and phyllite. Minor pyrite cubes and										
			very local whispy pyrite lenses.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
164.50	169.50		**Phyllite**										
			Variably laminated to banded phyllite with whitish f.g. quartzitic bands										
			and local limestone sections and bands. Whitish to grey quartzitic bands										
			show v.f. grained magnetite "laminae". Minor pyrite cubes locally. Quartz-										
			ankerite vein at 169.30.										
169.50	175.90		**Sericitic Quartzite**										
			Medium grey, quartz grains are locally prominent in massive sections. White										
			quartz veins noted locally. In schistose sections irregular quartzite bands										
			are separated by ser-chl-schist bands.										
			End of hole.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-2
COMMENCED: October 28, 1987
COMPLETED: October 31, 1987
LOCATION : SE Grid
LOC. : 4 + 40E, 1 + 45N
ELEV. : 1740m approx.
CORE SIZE: NQ
ATTITUDE COLLAR: -42/261°
ATTITUDE BOTTOM: -45.5/271°
% RECOVERY : 85% (approx.)
LENGTH : 93.6m

LOGGED BY : P. Delancey
DATE : October 30/87
CORE STORED : Lower camp
OBJECTIVE: To intersect 605 vein at right angles and close the 200' level.

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	3.00		Casing.										
3.00	8.00		**Sericitic Quartzite**										
			Grey colour, fine grained detrital quartz in a massive to foliated sericitic matrix. Grading appears to be tops up hole. Narrow quartz veinlets and segregations. Foliation to CA at 6.00m - 70°.										
8.00	16.10		**Interbedded Sericitic Quartz and Ser-Chl Schist**										
			Similar to above but with sections and bands that are predominantly miceaceous. Quartz is generally fine grained. Miceaceous sections are frequently broken. Crushed 5cm section at 18.00. Rock becomes finer grained and more micaceous with local phyllite (argillaceous) bands from 19.50m. Banding of clay rich and quartz rich rock is lensey and locally shows "fragments" of quartzitic rock surrounded by micaceous rock. This looks similar to soft sediment deformation of fine sands and mud layers. Pyrite is noted locally as disseminations and is particularly noted in argillaceous sections. Minor pyrrhotite irregular lenses and pyrite disseminated noted in miceaceous section from 28.00-39.00m. Minor quartz segregations with local ankerite.										
			At 22.50m banding 60° to CA.										
			At 38.50m banding 45° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			At 45.20m banding 50° to CA.										
			From approx. 41.00m light greenish sericitic whispy bands alternate with grey quartzitic bands.										
			At 53.60m banding 45° to CA.										
			White quartz vein, local pyrite concentrations.	364	50.7	51.4	.7		1				
56.30	61.30		**Quartz Vein** White quartz vein with short sections of interbedded sericitic quartzite and sericitic phyllite. Ankerite occurs locally especially adjacent host rock contacts. Sulphides occur as local patchy massive concentrations particularly adjacent to host rock contacts. Sulphides are pyrite and pyrrhotite. Quartz is locally vuggy.										
			White quartz with minor pyrite concentrations, local sericitic or phyllitic "inclusions", total sulphide <2%.	365	56.30	57.20	.9		310				
			As above but with patchy massive pyrrhotite with pyrite porphyroblast, total sulphide 15%.	366	57.20	57.60	.4		3420				
			As from 56.30 to 57.20m.	367	57.60	60.00	2.4		1				
			Quartz, included schist and concentration of pyrite, pyrrhotite and lesser chalcopyrite. Total sulphides approx. 30%.	368	60.00	60.20	0.2		19				
			Quartz with local schist inclusion, pyrite approx. 2%.	369	60.20	61.30	1.1		1				

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
61.30	69.00		**Interbanded Ser-Quartzite and Ser-Chl Schist**										
			As from 8.00 to 66.10m - ser-quartzite becomes more prominent towards end of section.										
			At 65.10m banding is 65° to CA. Sericitic and quartz segregation (long?)	370	61.30	62.40			2				
			grading into sericitic-quartzite. Disseminations of whispy bands of Py and										
			pyrrhotite approx. 5%. Quartz-ankerite minor. Py along "suture".	371	63.80	64.10			1				
			Grading indicates tops to the top of hole from 68.50-68.90m - quartz vein with minor pyrite.										
69.00	79.40		**Sericitic Quartzite**										
			Quartz grains in sericitic matrix. Grading (tops up) is noted locally, with the base locally showing small pebble size clasts.										
			At 72.00m bedding - 43° to CA.										
			From 72.20-72.40m - quartz vein, no sulphide.										
			Very vuggy quartz and lesser ankerite, no sulphides.	372	73.60	74.10			8				
			From 74.60-75.10m - quartz vein-ankerite-pyrite vein segregation.	373	74.60	75.10			116				
			From 76.60-77.10m - quartz vein.	374	76.60	77.10			1				
			From 77.10-77.40m - pebble conglomerate (possible marker unit).										
79.40	93.60		**Interbanded Ser-Quartzite, Chl-Ser, Phyllite**										
			As from 61.30-69.00m - quartz segregations are common.										

From	To Meters	Syb	Description	Smp. No.	From	To Meters	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			At 80.70m banding is 80° to CA.										
			At 83.20m - sharp contact of quartzitic rock and micaceous (muddy) rock -										
			indicative of soft sediment deformation.										
			From 83.40-90.60m - broken and sheared rock, minor gouge, quartz and										
			phyllite zones. Core recovery approx. 40%.										
			End of hole.										

DRILL RECORD — **IMPERIAL METALS CORPORATION**

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-3
COMMENCED: October 31, 1987
COMPLETED: November 5, 1987
LOCATION : SE Grid
LOC. : 4 + 40E, 0 + 45N
ELEV. : 1740m approx.
CORE SIZE: NQ
ATTITUDE COLLAR: -60/225°
ATTITUDE BOTTOM: -60°
% RECOVERY :
LENGTH : 149.0m

LOGGED BY : J. Walker
DATE : November 6/87
CORE STORED : Lower camp
OBJECTIVE: To intersect 605 vein at 400 level Cariboo Hudson Mine.

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.40		Casing.										
6.40	81.50		**Interbedded Sericitic-Quartzite and Chlorite-Sericitic Schist**										
			Light grey-green rock with fine to medium grained detrital quartz and sericitic micas interbanded with darker grey-green micaceous argillite. Unit is massive to well foliated and in general, shows graded bedding coarsening down section. Quartz segregations occur in areas with substantial micaceous components suggesting lateral secretion. May locally contain up to 1% disseminated pyrite, with concentrations occuring usually in argillaceous segments.										
			6.40-11.90m - Mainly ser-quartzite member, argillaceous bands are minor usually <0.5cm in thickness. Core axis angle 46° at 8.40m - foliation.										
			11.90-14.90m - argillaceous bands thicker (<40cm) and more numerous (up to 30% of section).										
			13.0m - Fe stained fault gouge with quartz pebbles in zone 20cm thick.										
			14.90-18.50m - argillaceous component becomes lighter in colour. Fracture density increases.										
			15.10m - quartz veinlet with some ankerite.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			18.50-24.00m - argillaceous component regains dark grey-green colour. Fracture density decreases, soft sediment deformation remnants observed in argillaceous bands.										
			Core axis angle 70° at 19.00m.										
			20.30m - minor vuggy quartz vein 15cm thick.										
			23.90m - fault gouge, 10cm thick.										
			24.90-30.00m - argillaceous component comprises 60-80% of section. Fracture density increases.										
			28.90m - core axis angle - 70°. Foliation.										
			33.20m - core axis angle - 67°. Foliation.										
			30.00-38.20m - section includes about 0.3% pyrrhotite occuring as fine stringer + 0.5% disseminated pyrite.										
			38.20-45.40m - quartz content increases, rock composed almost entirely of quartz segregations and dark micaceous material.										
			40.90m - core axis angle 60°. Foliation.										
			44.00m - quartz veinlet with 15% pyrite.										
			44.70m - core axis angle 60°. Foliation.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			45.40-48.20m - argillaceous component decreases to approx. 10%. Quartzitic component silicified with 0.3% - 0.5% pyrrhotite in addition to normal amounts of pyrite.										
			48.20-52.90m - micaceous component increases, pyrrhotite absent.										
			51.30m - quartz vein 10cm thick with 10% pyrite in envelopes.										
			52.90-67.50m - quartz segregations occur in micaceous components.										
			55.90m - core axis angle 62° bedding.										
			59.80m - quartz pebble meta-conglomerate (possible marker).										
			65.60m - quartz veinlet (barren).										
			67.30m - evidence of soft sediment deformation in dark micaceous bands.										
			67.50-71.80m - micaceous material decreases as grain size increases down section to coarse sand at 69.40m. Recovery poor 70.70-72.20m (53%).										
			71.80-71.90m - silicified envelope to quartz vein.										
			71.90-72.70m (approx.) - sheared quartz vein with pyrite in 0.1-0.5cm blebs comprising 5% of vein.	375	71.90	72.70			1				
			(approx.) 72.70-74.20m - quartz pebble meta-conglomerate sheared from 72.70 - 73.50m. Recovery less than 35%, overall recovery 72.20-75.00m: 64% - most										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			probably same unit as 77.10-77.40m. DDH-87-02.										
			74.20-77.20m - micaceous argillite with quartz segregations grading to										
			coarse grained quartzite. Micaceous sections contain pyrite and pyrrhotite	376	75.90	76.60			1				
			blebs.										
			76.80m - angle core axis 60°.										
			77.20-77.60m - quartz vein with 5% pyrite in coarse grained aggregations	377	77.20	77.60			1				
			up to 0.5cm in diameter.										
			77.60-79.00m - quartzite coarsening downwards.										
			79.00-80.00m - quartz vein with coarse grained aggregations of pyrite com-	378	79.00	80.00			7				
			prising 5% of the vein. No large alteration envelope.										
			80.00-81.20m - quartzite with minor quartz veinlets.										
			80.50m - angle core axis 62°.										
			81.20-81.50m - silicified quartzite breccia with coarse pyrite aggregations	379	81.20	81.50			6				
			comprising 15% of veinlets.										
81.50	86.10		**Interbanded Phyllite and Sericitic Quartzite**										
			Black banded phyllite with quartz segregations up to 2cm thick. Down										
			section, phyllitic component decreases with corresponding increase in										
			quartzitic unit. Quartzitic unit is medium gray green fine grained detri-										
			tal quartz and sericitic micas. Pyrite occurs as fine laminae about 5% by										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			volume in phyllitic bands.										
			83.00m - quartz veinlet with some ankerite, no visible sulphides.										
			83.30-84.40m - fractured quartz and black phyllite.										
			From 84.40m phyllitic bands contain 0.3% disseminated pyrrhotite.										
			Quartzitic unit begins to represent substantial part of section.										
			85.50m - angle core axis 66°.										
86.10	96.80		**Interbanded Ser-Quartzite and Chl-Ser Schist**										
			Similar to 6.40-81.50m.										
			86.10-87.80m - micaceous unit with quartz segregations.										
			87.80-93.30m - dominantly quartzitic unit which coarsens downward.										
			90.40m - barren, vuggy, quartz vein 10cm thick.										
			93.30-93.60m - fractured zone with minor gouge.										
			93.60-96.80m - micaceous units grading to quartzite down section.										
			94.10m - angle core axis 72°.										
			94.30m - fractured zone <10cm thick, gouge.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			96.30m - angle core axis 65°.										
96.80	105.80		**Quartzite and Ser-Quartzite**										
			Light to medium green-gray rock composed mainly of detrital quartz with relatively lesser amounts of micaceous material. Rock is typically massive with relatively poorly developed foliation though grains are often flattened.										
			96.80-98.20m - fracture density high, coarse grained, some quartz segregations.										
			99.10-105.80m - ser-quartzite with quartz segregations coarsening down section.										
			99.6m - angle core axis 65°.										
			103.70m - angle core axis 54°.										
105.80	118.90		**Interbanded Phyllite and Ser-Quartzite**										
			Finely laminated, black phyllite with quartz segregations interbanded with light to medium grey-green micaceous rock with medium to fine grained detrital quartz. Rock is well foliated and pyrite occurs in small <0.5cm blebs throughout. Pyrrhotite is confined to thin laminations in the phyllite where it comprises 0.3% of the rock.										
			105.80-106.00m - phyllitic component.										

From	To (Meters)	Syb	Description	Smp. No.	From	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			106.00-108.80m - quartzitic component, small quartz veinlet at 106.50 with 10% pyrite.										
			108.80-113.30m - phyllitic band.										
			109.50m - angle core axis 62°.										
			111.30-116.70m - ser-quartzitic unit, somewhat silicified. Small veinlets at 111.40, 112.00 and 112.90. Core broken some gouge, recovery poor 112.90 - 114.60.										
			116.70-118.90m - high fracture density, numerous small quartz veins with some ankerite. Fault gouge.										
118.90	*127.30*		*Ankeritized Ser-Quartzite and Ser-Chl Schist* Light grey-green rock with fine to medium grained detrital quartz and ankerite metacrysts interbanded with darker grey green micaceous bands. Well foliated micaceous bands have segregations of quartz and have fewer ankeritic grains.										
			121.50m - angle core axis 70°.										
			123.90-125.90m - highly sheared zone with numerous small, barren quartz veins, and gouge.										
			125.90-127.10m - sericitic section with large segregations of quartz.										
			127.10-127.30m - quartz clasts absent ankeritic metacrysts larger (to 4mm).										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
127.30	128.90		**"605" Quartz Vein**										
			Quartz vein with up to 10% ankerite and inclusions of sericitic wall rock.										
			60% inclusions of ser-quartzite with metacrysts of ankerite. Quartz is barren but wall rock inclusions contain 2% coarse pyrite.	380	127.30	127.80			132				
			Quartz vein with 10% fine grained pyrite occuring as whispy stringers up to 1cm thick.	381	127.80	128.10	0.3		1440				
			Quartz vein with 5% coarse grained pyrite blebs up to 1cm in diameter.	382	128.10	128.50			4				
			Vein contains 50% inclusions of sericitic quartzite wall rock and 10% coarse grained subhedral pyrite blebs.	383	128.50	128.90			510				
128.90	149.00		**Interbanded Phyllite and Ser-Quartzite**										
			Interbanded light grey-green quartzites and ser-quartzites and black phyllite similar to 105.80-118.90. Pyrrhotite is absent.										
			128.90-144.30m - strongly sheared melange including sporadic barren quartz veins. Considerable gouge. Recovery approx. 40%.										
			145.50m - angle core axis 70°. Foliation.										
			146.90m - angle core axis 47°. Foliation.										
			148.20m - angle core axis 55°. Foliation.										
			End of hole.										

DRILL RECORD

I M P E R I A L   M E T A L S   C O R P O R A T I O N

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-4
COMMENCED: November 5, 1987
COMPLETED: November 7, 1987
OBJECTIVE: To test at a shallow depth North Trending, Galena Bearing Quartz Vein.

LOCATION : SE Grid
LOC. : 1 + 45E, 1 + 30N
ELEV. : 1710m
CORE SIZE: NQ

ATTITUDE COLLAR: -46°/278°
ATTITUDE BOTTOM: -45°/270°
% RECOVERY :
LENGTH : 81.4m

LOGGED BY : P. Delancey
DATE : November 7/87
CORE STORED : Camp

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	40.40		**Sericitic Quartzite and Chl-Ser Schist**										
			Sections of interbanded sericitic quartzite and interbanded micaceous schist										
			and ser-quartzite. Short sections are light grey and predominantly fine										
			grained quartz; other sections are darker grey and composed dominantly of										
			chl-ser with local bands of quartz. Other sections are characterized by										
			light greenish chl-ser bands separated by ser-quartzite.										
			Minor Py-Po disseminations occur throughout and occur locally as whispy										
			bands. Several narrow quartz-sulphide veins occur throughout (see below).										
			Locally sheared ground occurs at 11.20m, 12.40m, 13.70m, 16.30m, 17.40m,										
			27.00m.										
			Foliation/banding at: 6.30m - 18° to CA; 11.00m - 40° to CA; 16.50m -										
			45° to CA; 23.50m - 45° to CA; 29.60m - 35° to CA.										
			FeOx noted in some fractured areas.										
			Quartz-ankerite veins at:										
			- irregular quartz-ankerite and ser-quartzite, no sulphides noted.	384	8.20	10.00			1				
			- quartz-ankerite, local concentrations of sphalerite and minor gal.	385	23.20	23.40			1				

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			- quartz-dolomite?, concentration of coarse pyrite.	386	25.90	26.10			103				
			Foliation /banding at: 31.70m - 40° to CA; 33.70m - 60° to CA; 37.40m - 40° to CA; 39.30m - 50° to CA.										
			Narrow quartz-sulphide veins at:										
			- short quartz-ankerite-pyrite veins and segregated (30%) and ser-quartzite	387	32.60	33.20	0.60		10				
			- very narrow quartz-pyrite, lesser sphalerite shearing at 34.70m.	388	37.50	37.60	0.10		260				
40.40	58.20		**Phyllitic Quartzite**										
			Gradational contact with above. Rock is dark grey with black argillaceous zone between 40.80 and 41.30m. Shearing at 44.70, 47.00, 45.00m. Banding/ foliation at 47.40 - 35° to CA. Quartz vein with ankerite at 40.40 to 40.60m. Quartz vein with ankerite at 41.10 to 41.60m. No visible sulphides in quartz veins and segregations. Minor disseminated pyrite in rock.										
			Foliation/banding becomes closer to core axis - at 49.00m - 30° to CA; at 50.00m - 15° to CA; at 53.20m - 10° to CA.										
			From 51.00m short quartz-ankerite veinlets.										
			Phyllitic sections generally show banding/foliation at a more acute angle to the CA then the quartzites. Possibly the phyllites are more suseptible to N-shearing or possibly the phyllites are a result of the North trending shear (evidenced on surface by a North trending galena bearing quartz vein)										
			At 54.80m foliation at 20° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			From 57.80-58.20m - while quartz-ankerite schist with minor pyrite, local vugs.	389	57.80	58.20			6				
58.20	81.40		**Chlorite-Sericite Schist and Ser-Quartzite**										
			Mostly chl-ser schist with short sections of quartzitic rock. Color is medium greenish-grey. Banding of schist and lensey quartzitic bands or segregations is common.										
			At 59.70m foliation at 60° to CA.										
			At 62.20m foliation at 55° to CA.										
			At 68.70m foliation at 60° to CA.										
			At 71.70m foliation at 60° to CA.										
			At 76.30m foliation at 50° to CA.										
			Crushed and broken zones at: 68.70m, 71.60m, 74.00m, 72.60m to 73.20m, 74.70m. At 76.80m band/foliation at 55° to CA. 81.30m band/foliation at 50° to CA.										
			From 79.50-79.70m - quartz-ankerite vein.										
			End of hole.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-5
COMMENCED: November 8, 1987
COMPLETED: November 10, 1987
OBJECTIVE: To intersect mag anomaly at shallow depth.

LOCATION : SE Grid
LOC. : 1 + 90E, 3 + 88S
ELEV. : 1715m
CORE SIZE: NQ

ATTITUDE COLLAR: -45°/091°
ATTITUDE BOTTOM: -44°/085°
% RECOVERY : top of hole-poor
LENGTH : 96.6m

LOGGED BY : P. Delancey
DATE : November 10/87
CORE STORED : Camp

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	9.10		Casing.										
9.10	27.40		**Altered Limestone**										
			Light grey to grey fine, sugary textured limestone, bleaching is common. Oxidation of much of the core suggests a fairly high content of iron carbonate. Whispy partings of mica are common in sections, other sections are relatively massive.										
			At 13.70m hit a cavity? and hit sand and dirt, lost circulation, etc. Put down casing to 15.20. From 15.20 to 17.40m no core. From 17.440 to 20.20m dirt and sand. From 20.20 to 21.30m highly oxidized and broken up alt limestone and mica and sand and gravel.										
			From 23.30m good section of grey to white bleached limestone. Narrow irregular veinlets and segregations of quartz. Some of these quartz veins occur as small "gash" veins. Bleaching occurs over sections and as irregular "fractures" or "stockworking". From 25.20 to 27.40m bleached and altered limestone with local concentrations of ankerite, locally oxidized. Local disseminations of cubic pyrite throughout. Banding/foliation at mica partings at: 11.80m - 30° to CA; 20.50m - 35° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
27.40	63.20		**Argillaceous Limestone**										
			Grey to black rock with irregular bands and lenses of grey limestone separated by partings of black argillaceous phyllite. Local sections of grey limestone. Local sections of iron oxidation of carbonate bands. Pyrite crystals and crystal aggregations are disseminated throughout. From 36.70 - 38.80m zone of bleaching where micaceous partings are light greenish sericite and limestone bands are light grey. In general the argillaceous or micaceous partings account for about 30% of the section.										
			Banding at: 31.60m - 30° to CA; 33.30m - 30° to CA; 36.60m at 40° to CA; 39.70m at 45° to CA.										
			At 29.80m narrow quartz veinlet at 15° to CA contains minor pyrite along contact and minor galena.										
			Above plus argillaceous limestone with disseminated pyrite.	3[illegible]0	29.70	30.50			1				
			At 40.40m last zone of significant oxidization. Banding at 41.20m - 45° to CA; 45.40m - 45° to CA; 50.60m - 45° to CA; at 57.00m - 35° to CA.										
			Pyrite cubes are common throughout, particularly in the argillaceous sections with concentrations up to 5%.										
			Broken and slightly crushed zones at 52.20m and 61.30m. At 61.30m minor quartz-ankerite veins.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
63.20	69.20		**Limestone**										
			Light grey sugary limestone with only local sections showing micaceous										
			partings. Minor local pyrite.										
69.20	88.30		**Limestone and Sericitic Quartzite**										
			Sections of light grey massive limestone as above, some argillaceous										
			sections and sericitic quartzitic sections.										
			Foliation in ser-quartzite at 69.90m - 30° to CA; 70.80m - 35° to CA.										
			From 73.60-73.80m white limestone with whispy to semi-massive bands of	391	73.60	73.80			8				
			f.g. pyrrhotite over 3cm. This narrow section could be the "stratigraphic"										
			extension of a replacement body.										
			Banding/Foliation: 76.90m - 50° to CA; 81.40m - 35° to CA; 85.40m - 35° to										
			CA.										
			Broken ground at 84.10m.										
			From 86.90m local quartz veins.										
			Minor quartz veins and silicification with minor local galena.	392	87.60	88.10			1				
88.30	96.60		**Argillaceous Quartzite**										
			Grey quartzite with irregular darker argillaceous partings, local sections										
			of f.g. quartzite. Banding/foliation is variable from 45° to parallel core										
			axis. Quartz veins with ankerite are common, the ankerite is frequently										
			oxidized. Quartz veining appears to be a quartz vein stockwork.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			Quartz-ankerite with arg-quartzite, no visible sulphides.	393	88.30	89.10			22				
			Quartz-ankerite with arg-quartzite, local semi-massive galena over 5cm, minor pyrite.	394	89.10	90.00			310				
			Argillaceous quartzite, quartz-ankerite veinlets with local galena.	395	90.00	90.90			2				
			Argillaceous quartzite with around 2% disseminated pyrite cubes, narrow quartz-ankerite (oxidized) veins, no sulphides noted.	396	94.30	96.60			1				
			End of hole - 96.60m.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-6
COMMENCED: November 11, 1987
COMPLETED: November 11, 1987
OBJECTIVE: To test sphalerite bands in alt. limestone.

LOCATION : SE Grid
LOC. : 1 + 90E, 3 + 88S
ELEV. : 1715m
CORE SIZE: NQ

ATTITUDE COLLAR: -45°/203°
ATTITUDE BOTTOM:
% RECOVERY :
LENGTH : 31.1m

PAGE : 1 of 1
LOGGED BY : P. Delancey
DATE : November 11/87
CORE STORED : Camp

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	9.10		Casing (cavity at 20' - 3' hole).										
9.10	15.70		Sericitic Quartzite										
			Massive and foliated grey, relatively homogenous sericitic quartzite.										
			Foliation at 11.70m - 50° to CA; 14.80m - 45° to CA.										
			Fracture zone and oxidation at 15.70m.										
15.70	31.10		Limestone										
			White to grey limestone, massive sugary textured, local sericitic bands.										
			Banding at 22.30m - 50° to CA.										
			26.80m - 55° to CA. Bleaching of grey limestone along "incipient" fractures of bands is common from 23.70 to 28.00m. Local ankerite zones. From 28.00 to 31.00m limestone is grey.										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-7
COMMENCED: November 12, 1987
COMPLETED: November 12, 1987
OBJECTIVE: To test mag anomaly at shallow depth.

LOCATION : SE Grid
LOC. : 2 + 27E, 3 + 46S
ELEV. : 1715m
CORE SIZE: NQ

ATTITUDE COLLAR: -46°/273°
ATTITUDE BOTTOM:
% RECOVERY :
LENGTH : 32.6m

LOGGED BY : J. Walker
DATE : November 12/87
CORE STORED : Lower camp

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	13.50		Interbanded Ser-Quartzite and Ser Schist										
			Medium to fine grained medium grey rock with detrital quartz interbanded with light greenish grey, fine grained, well foliated micaceous schist. Approximately 40% of the section is oxidized. Finely disseminated pyrite comprises 0.3% of rock. Micaceous areas often contain segregations of quartz.										
			8.80m - quartz vein 0.1m thick.										
			9.00m - core axis angle 70°. Foliation.										
			9.50m - fault gouge.										
			11.10m - core axis angle 59°. Foliation.										
			11.30-13.50m - sericitic quartzite component increases.										
			12.80m - quartz veinlet 1cm thick with about 3% disseminated pyrite.										
			13.30m - core axis angle 56°.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
13.50	18.30		**Argillaceous Limestone**										
			Black limestone with minor (<1cm) veinlets of white sparry calcite inter-banded with black phyllitic layers and minor micaceous layers with detrital quartz grains and quartz segregations.										
			14.00-14.50m - sericitic quartzite with micaceous laminae and quartz segregations.										
			14.90-15.70m - zone of oxidized sericitic argillite. Recovery is poor, about 60-70%. Contains several 2cm veins of calcite with medium to coarse grained pyrite in envelopes.	397	15.00	15.50			1				
			16.50-16.70m - phyllitic zone.										
			16.60m - core axis angle 46°.										
			Unit gradually becomes composed of greater quantities of sparry veins, calcite in last 2m of section. Vugs occur in some veinlets.										
18.30	22.60		**Black Phyllite**										
			Thinly laminated black micaceous schist showing occasional remnants of soft sediment deformation. Short sections contain segregations of calcite or quartz.										
			18.50m - core axis angle 55°.										
			19.50m - core axis angle 43°.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			19.80-20.10m - oxidized zone with vuggy calcite.										
			22.00m - core axis angle 58°.										
			22.20-22.60m - oxidized zone.										
22.60	32.60		Argillaceous Limestone										
			As 13.50-18.30m with no quartzitic layers. Phyllitic layers are strongly sheared, and have considerable amounts of iron staining.										
			22.90m - core axis angle 50°. Foliation.										
			24.00m - core axis angle 45°. Foliation.										
			25.80-26.50m - well oxidized phyllite, some gouge.										
			26.00m - core axis angle 45°. Foliation.										
			From 26.50m limestone becomes slightly lighter in colour, phyllitic sections are all well oxidized and show Fe staining.										
			27.00m - core axis angle 70°. Foliation.										
			30.20-30.40m - silicified limestone.										
			30.40-30.90m - oxidized phyllite with some silicification.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			31.80-31.90m - oxidized phyllite with some ankerite and silica.										
			32.20m - core axis angle 50°. Composition.										
	32.60		End of hole.										

DRILL RECORD	IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-8
COMMENCED: November 12, 1987
COMPLETED: November 13, 1987
OBJECTIVE: To intersect mag anomaly at shallow depth.

LOCATION : SE Grid
LOC. : 2 + 35S, 2 + 53W
ELEV. :
CORE SIZE: NQ

ATTITUDE COLLAR: -45°/190°
ATTITUDE BOTTOM:
% RECOVERY :
LENGTH : 16.0m

PAGE : 1 of 1
LOGGED BY : P. Delancey
DATE : November 13/87
CORE STORED : Camp
UNUSUAL FEAT : Hole stopped because of cavities.

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	8.40		**Limestone and Sericitic Quartzite**										
			First .1m is sericitic quartzite, the rest of the section is finely crystalline white limestone with sections of sericitic and iron oxidized carbonate.										
			Banding/foliation at 6.40m - 60° to CA.										
8.40	16.00		**Limestone**										
			Grey to white limestone with minor local areas with phyllite. The white limestone appears to be due to bleaching or alteration of grey limestone.										
			From 11.20 to 11.40m quartz-ankerite vein and oxidation.										
			Banding at 8.60m - 70° to CA.										
			Banding at 14.00m - 40° to CA.										
			Banding at 15.70m - 50° to CA.										
			Only minor visible pyrite noted. Locally minor bleb specks (non-magnetic).										
			End of hole (drilling problems - no return - ate up 2 bits).										

DRILL RECORD

I M P E R I A L   M E T A L S   C O R P O R A T I O N

PROPERTY : Cunningham Creek
HOLE NO. : CC-87-9
COMMENCED: November 13, 1987
COMPLETED: November 15, 1987
OBJECTIVE: To test favourable stratigraphy and galena horizon of Moneta showing.

LOCATION : Central Grid
LOC. : 5 + 05W, 1 + 75S
ELEV. : 1600m
CORE SIZE: NQ

ATTITUDE COLLAR: -43.5/043°
ATTITUDE BOTTOM: -44.5/042°
% RECOVERY :
LENGTH : 81.4m

LOGGED BY : P. Delancey
DATE : November 1987
CORE STORED : Camp

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	10.70		**Sericitic Metacryst Quartzite**										
			Characterized by very small light tan metacrysts in a grey sericitic - siliceous matrix. These metacrysts locally form "eyes" or roundish phenocrysts in a grey matrix. Local mariposite is noted especially where rock is sheared. This "metacryst" rock is noted in other localities, particularly near mineralization and is either a hydrothermal alteration product of the sericitic quartzite or possibly they represent altered and deformed dyke rocks.										
			Minor quartz-ankerite veinlets. Oxidation of rock between 10.40 and 10.70m. Foliation is only moderately developed indicating a relatively massive rock.										
			Foliation at 8.80m - 45° to CA.										
10.70	15.50		**Limestone**										
			Contact with above and below is sharp. Limestone is white to grey with white bleaching common. Local quartz-ankerite veinlets.										
15.50	19.80		**Sericitic Metacryst Quartzite**										
			As above, top section is relatively massive, mariposite occurs locally.										
			Disseminations are "partial replacements" of pyrrhotite and pyrite 5%.	398	15.80	16.20			1				

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
19.80	28.50		**Limestone and Mica Schist**										
			Short sections of limestone between poor to moderately banded phyllite and limestone. At 23.40m broken rock with oxidation of Fe carbonates. Towards bottom of section mica is greenish tan sericite. Limestone is generally bleached. Oxidation of micaceous zones is common. Broken ground at 25.20, 25.60, 26.70, 28.3m.										
			Banding at 23.00m - 45° to CA.										
			Banding at 26.30m - 30° to CA.										
			Banding at 27.00m - 20° to CA.										
			Banding at 28.40m - 30° to CA.										
28.50	31.00		**Micaceous "Metacryst" Schist**										
			Similar to sericitic quartzite but is not siliceous but more micaceous (phyllitic) with light tan feldspar? metacrysts and local zones of oxidation. Foliation at 29.40m - 35° CA. Local mariposite.										
31.00	34.30		**Limestone and Mica Schist**										
			Mostly light grey to white limestone with sections of sericitic schist and whispy banding.										
34.30	36.40		**Metacryst Rock**										
			Sections similar to 28.50 to 31.00m but lower section more massive to siliceous. Local mariposite. Pyrite cube disseminations approx. 1% in more massive portion. Broken, sheared and oxidized ground at 35.00m. Quartz-ankerite and oxidation from 35.20-35.40m. Quartz veinlet at 36.10m.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
36.40	44.10		**Limestone and Mica Schist**										
			Mostly light grey to white limestone with short micaceous sections and bands of sericite. Local mariposite.										
			At 39.80m banding at 35° to CA.										
			At 41.40m banding at 25° to CA.										
			At 43.60m banding at 35° to CA.										
44.10	51.40		**Micaceous "Metacryst" Schist**										
			Similar to 28.50-31.00m. Foliation at 45.50m is 35° to CA. Short white limestone with local sericitic banding from 48.40 to 49.10m. Broken zone at 49.20m. Foliation at 50.50m - 30° to CA.										
51.40	52.80		**Argillaceous Schist**										
			Contact with above is on alt. dolomitized? breccia? with local quartz veining. Broken or sheared zone at 52.30m										
52.80	54.20		**Limestone and Mica Schist**										
			Banding at 53.90 - 30° to CA. All contacts above are gradational.										
54.20	74.40		**Argillaceous Mica Schist and Limestone**										
			Sections of predominantly mic schist with argillaceous sections, irregular bands of calcareous to siliceous rock; other sections of grey, locally bleached limestone with local micaceous bands. Local pyrite crystal disseminated banding at 55.70m - 30° to CA; at 61.40m - 30° to CA; 63.10m - 30° to CA; 64.10 - 40° to CA; 66.90 - 45° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			Broken and crushed ground at 54.30m; shearing at 56.30m; broken ground at 63.60m, 64.50m, 65.00.										
			Quartz veinlet with galena (5%) and minor pyrite. It is a zone of broken rock.	399	54.20	54.50			48				
			Limestone with local whispy sphalerite and galena. Breccia "vein" in	400	60.10	60.40			3				
			argillite vein is nearly parallel core and it would appear that hole has only a portion of it. Sulphides locally up to 30% include sphalerite, galena and pyrite. Dolomite sections common. Quartz veinlet at 63.70m, minor quartz veinlet with galena at 67.10m.	401	60.40	61.10			4				
			Crushed and fault gouge at 69.00-71.60m, 73.40-73.70m, 81.40m, while quartz veinlets from 70.30-71.00m at 71.60 (pyrite) and 73.20-73.60m.										
			Minor galena concentrations in rock.	402	69.50	70.10			6				
			Banding/foliation at 71.80m - 50° to CA.										
74.40	81.40		Sericitic Quartzite										
			Grey foliated, local argillaceous or sericitic bands or zones.										
			At 76.00m - 45° to CA; at 81.00m - 45° to CA; white quartz vein from 72.10m to 77.20m.										
			Shearing and crushed rock at 81.40m.										

DRILL RECORD	IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : DDH-87-10
COMMENCED: November 16, 1987
COMPLETED: November 19, 1987
OBJECTIVE: Test chlorite schist unit which hosts high grade gold pods.

LOCATION : SE Grid
LOC. : 1 + 87E, 1 + 42S
ELEV. : 1715
CORE SIZE: NQ

ATTITUDE COLLAR: -45°/260°
ATTITUDE BOTTOM: -45.5/258.5°
SURVEY AT : 84.43m (-45.5°/258.5°)
% RECOVERY : 100%
LENGTH : 96.62m

LOGGED BY : D. Gorc
DATE : November 20/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	21.30		**Argillaceous Limestone, Calcareous Phyllite**										
			Alterating thin bands of medium grey to dark greenish grey (0.1cm to 2cm); well foliated, marked by prominent small scale "kinking" and 10-20cm sections of plastic deformation characterized by an irregular swirling appearance to the core; occasional 10-20cm small scale fault or crush zones with some zones impregnated by white quartz; thin (0.25 to 1cm) bands of segregated white quartz along foliation; occasional ankerite associated with the segregated quartz; majority of unit is highly reactive to acid but occasional 10-50cm horizons are not; very minor pyrite; pyrite is found disseminated along foliation in random 5-10cm horizons; such pyrite horizons contain less than 1% pyrite.										
			8.05-8.60m - brecciated crush zone impregnated by white quartz.	56403	8.00	8.80	0.80	100%*	4				
								*except where noted					
			9.10-10.0m - 1% disseminated pyrite.	56404	9.10	10.00	0.90		5				
			10.0-11.30m - small fault??; only 5% recovery; some gouge.										
			17.20-17.90m - crush zone; very brecciated; some gouge;	56405	17.20	17.90	0.70		1				
			17.50-17.90m - impregnated with white quartz.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
21.30	24.90		**Sericite-Chlorite Schist**										
			Finely foliated and laminated; occasionally "kinked", medium brownish grey to greenish-grey; occasional quartz eyes to 10.50cm; minor thin quartz segregations.										
			23.30-23.50m - small fault; gouge.	56406	23.50	24.20	0.70		1				
				56407	24.20	24.80	0.60		1				
			23.50-23.90m - impregnated with white quartz (breccia zone).										
			24.30-24.90m - 3% disseminated magnetite.										
24.90	32.90		**Chlorite-Sericite Schist**										
			Similar to 21.30-24.90m but only minor sericite; medium greenish grey; finely foliated and laminated; minor quartz-ankerite segregations; minor kinking; only trace pyrite; disseminated magnetite to 28.00m; minor pyrite in quartz segregations.										
			26.00m - foliation at 55° to CA.										
			27.00m - increased number of quartz-ankerite segregations; most quartz layers are less than 0.25cm but occasional layers to 2cm; a few 10-20cm zones of kinking and plastic deformation associated with increased quartz-ankerite segregation and increased sericite.	56408	26.70	27.10	0.4		1				
			29.50-30.10m - sericite-chlorite schist with kinking.	56409	29.50	30.10	0.60		2				
			30.10-30.60m - crush zone; soft weathering; very broken up core.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
32.90	42.50		**Sericite-Chlorite Schist**										
			Similar in appearance to the uppermost unit of DDH87-1; light greyish										
			green; finely foliated and laminated; minor kinking; quartz segregations										
			along foliation from 0.20cm to 2cm; occasionally quartz with ankerite and/or										
			pyrite; occasional crush zones (10-20cm) in which rock is soft, broken and										
			highly weathered; overall very light grey colouration would suggest a high										
			proportion of sericite.										
			32.90-35.80m - 2% disseminated pyrite, generally within wispy (1-2mm) con-	56410	32.90	34.65	1.75		7				
			centrations along foliation.	56411	34.65	35.15	0.50		4450				
				56412	35.15	35.80	0.65		340				
			35.05-35.15m - quartz-ankerite with 5% pyrite.										
			36.50m - foliation at 80° to CA.										
			Beyond 35.80m pyrite is limited to occasional 5cm horizons containing thin										
			wispy pyrite concentrations.										
			38.00-39.10m - abundant quartz segregations with minor pyrite alongside	56413	38.00	39.10	1.1		180				
			quartz; perhaps 40% quartz.										
			39.70-40.20m - medium to dark grey chloritic quartzite.										
			41.50-42.50m - abundant quartz segregations some with pyrite; 2%	56414	41.50	42.50	1.0		32				
			disseminated pyrite and thin wispy pyrite concentrations.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
42.50	46.60		**Chloritic Quartzite**										
			Fine grained chloritic quartzite; evenly textured; not laminated except along very narrow 10cm horizons; minor quartz veining near 46.60m but no quartz segregations; less foliated than previous unit, trace disseminated pyrite.										
46.60	58.40		**Sericite-Chlorite Schist**										
			Similar to 32.90-42.50m; light grey; finely foliated and laminated; characterized by thin 0.25cm to 2cm quartz-ankerite segregations, occasional 10 to 20cm crash zones of broken core; trace pyrite occasional thin wispy concentrations of pyrite along foliation but not abundant.										
			49.60-49.80m - "crush" zone.										
			52.00-52.30m - "crush" zone.										
			53.60-54.00m - white quartz vein with chlorite.	56415	53.50	54.60	1.1		24				
			54.45-54.60m - white quartz vein with chlorite.										
			56.30-56.40m - "crush" zone.										
			56.40m - start of slight increase in amount of plastic deformation.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
58.40	58.90		**Sericite-Chlorite Schist and Quartzite**										
			Variably schistose; generally intermixed thin horizons (0.25cm to 2cm) of schist and quartzite; light grey; relatively minor quartz segregations; minor pyrite disseminated along foliation; predominantly quartzite.										
			60.00m - foliation at 65° to CA.										
58.90	60.20		**Sericite-Chlorite Schist**										
			Contains 25% quartz segregations; minor disseminated pyrite.	56416	58.90	60.20			12				
60.20	64.00		**Sericite-Chlorite Schist and Quartzite**										
			Light grey to greenish grey; fine grained quartzite with abundant very, thin, finely laminated layers of sericite-chlorite schist; gives rock a finely laminated appearance; minor quartz segregations.										
64.00	75.10		**Sericite-Chlorite Schist**										
			Light to medium grey to greenish grey; finely foliated and laminated; minor disseminated pyrite.										
			68.50-75.10m - abundant light brown ankerite with quartz in segregations	56417	73.50	74.40	0.9		6				
			and as thin wispy (0.25m) bands along foliation.										
			69.20-69.70m - small fault??; very broken, weathered core.										
			70.90-71.10m - small fault??										
			73.55-74.40m - 20% quartz segregations; minor pyrite.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
75.10	77.20		**Chloritic Quartzite**										
			Medium greenish grey; fine grained; evenly textured; slightly foliated;										
			slight kinking; trace pyrite.										
77.20	86.00		**Sericite-Chlorite Schist**										
			Light to medium grey; finely laminated and foliated; occasional short										
			sections of darker grey chlorite-sericite schist; some quartz-ankerite										
			segregations but not abundant.										
			77.20-78.45m - abundant white quartz ankerite veins to 20cm; 40% quartz.	56418	77.20	77.70	0.50		1				
				56419	77.70	78.45	0.75						
			80.50m - foliation at 65° to CA.										
			84.00m - start of increased kinking and plastic deformation.										
86.00	87.48		**Phyllite**										
			Dark grey, laminated, highly contorted and kinked; very thin quartz segre-										
			gations (1-5mm) gives unit laminated appearance; no pyrite.										
87.48	96.62		**Sericite Schist**										
			Highly altered schist; very light greenish grey; numerous fault zones;										
			approximately 15% segregated quartz; quartz is generally brecciated;										
			occasional white quartz veins to 40cm; no pyrite.										
			87.48-88.90m - Fault zone - primarily fault gouge; soft plastic clay	56420	87.48	88.30	0.82		1				
			highly weathered rock; some 5cm sections of white quartz but less then 5%.	56421	88.30	88.90	0.60		1				

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			92.50-92.80m and 93.00-93.30m - white quartz veins.	56422	88.90	90.50	1.60		85				
				56423	90.50	92.20	1.70		34				
				56424	92.20	93.30	1.10		99				
			93.30m - unit becomes highly contorted; still abundant quartz segrega-	56425	93.30	94.90	1.60		4				
			tions; quartz is generally brecciated.	56426	94.90	96.62	1.72		1				
			End of hole - 96.62m (317ft).										
			Sperry Sun Tests										
			Depth: *Inclination:* *Direction:*										
			84.43m -45.50° 258.5°										

DRILL RECORD	IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : DDH-87-11
COMMENCED: November 19, 1987
COMPLETED: November 22, 1987
OBJECTIVE: Test "605" vein extension.

LOCATION : SE Grid
LOC. : 4 + 40E, 0 + 45N
ELEV. : 1740m (approx.)
CORE SIZE: NQ

ATTITUDE COLLAR: -55°/247°
ATTITUDE BOTTOM: -50.5°/235.5°
SURVEY AT : 131.4m (-50.5°/235.5°)
% RECOVERY :
LENGTH : 131.4m

LOGGED BY : D. Gorc
DATE : November 23/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	80.20		**Interbedded Sericitic-Quartzite and Chlorite-Sericite Schist**										
			Light grey to medium grey, fine grained, equigranular quartzite, interbedded with lesser chlorite-sericite schist, locally occasional horizons of chlorite-sericite schist are black and have argillaceous appearance, massive to foliated, generally well foliated; crosscutting thin (0.5 to 1cm) quartz veins are common but not abundant; quartz segregations along foliation are common but not abundant; occasional 10-20cm sections appear to be silicified; note that quartz veins and segregations are often brecciated; unit is predominantly quartzite; layers of chlorite-sericite schist vary from 0.25cm to 30cm; overall pyrite content is trace but argillaceous sections can have slightly more pyrite including rare wispy (to 0.25cm) concentrations of pyrite along the foliation horizons of chlorite-sericite schist tend to be broken up.										
			9.90m - small fault, gouge.										
			19.70m - 2cm quartz vein at 20° to CA, minor pyrrhotite	56427	19.60	19.90	0.3	100%	5				
			21.00m - foliation at 70° to CA.										
			23.25m - 2cm quartz along foliation, some mariposite??										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			25.00m - increased pyrite; still very minor pyrite <1%; pyrite limited to occasional wispy concentrations along foliation.										
			32.10-32.20m and 32.50-32.60m - white quartz veins along foliation.	56428	32.00	32.70	0.70		4				
			34.00m - foliation at 65° to CA.										
			37.00m - increase quartz veining and quartz segregations; 1-2 veins per meter; 1-2cm thick; reduced pyrite, only trace.										
			38.70-38.95m - white quartz along core	56429	38.70	39.15	0.45		7				
			40.60-41.20m - white quartz vein along foliation, minor pyrite; vuggy; minor ankerite alongside.	56430	40.60	41.20	0.60		5				
			49.00-49.70m - vuggy quartz vein at 25° to CA; minor pyrite, intermixed with fault gouge??; vuggy.	56431	48.90	50.00	1.10		2				
			50.80-51.40m - irregular quartz stockwork; white quartz, 75% quartz.	56432	50.80	50.90	0.10		3				
				56433	50.90	51.40	0.50		1				
			55.00m - foliation at 60° to CA.										
			54.00-59.00m - interbedded dark grey phyllite and quartzite; predominantly quartzite.										
			61.70-61.90m and 62.20-62.40m - white quartz veins with minor pyrite.	56434	61.70	62.40	0.70		4				
			67.00m - foliation at 55° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			69.30-69.60m - quartz stockwork, 80% quartz.	56435	69.20	69.60	0.40		1				
			75.50m - foliation at 60° to CA.										
			79.50-80.20m - 5-6 quartz veins at 30° to CA; white quartz; minor pyrite; crosscutting foliation.	56436	79.50	80.20	0.70		1				
80.20	101.00		*Interbedded Sericite-Quartzite and Phyllite* Intermixed light to medium grey, fine grained, sericitic quartzite with lesser dark greenishgrey to black; phyllite; unit is more than 75% quartzite; phyllite generally present as thin, wispy bands 0.25cm to 2cm thick; unit is characterized by abundant whitish to bluish quartz segregations and/or crosscutting quartz veinlets; several horizons have stockwork of quartz veinlets; quartz segregations and veins are generally broken up and brecciated; minor pyrite along some but not all quartz; overall pyrite content is trace but short 5cm-10cm sections have 2% disseminated pyrite generally within more argillic horizons.										
			80.50-80.60m - 2% disseminated pyrite with quartz.	56437	80.50	80.90	0.40		1				
			83.70-85.10m - 30% quartz; irregular quartz veins and quartz segregations along foliation.	56438	83.70	85.10	1.40		2				
			86.00m - foliation at 50° to CA.										
			90.20m - start of predominantly phyllite unit; greater than 70% phyllite; abundant quartz segregations approx. 1-2 per meter; quartz segregations vary up to 5cm thick; unit is very broken up.	56439	93.00	93.60	0.60		1				

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			93.00-93.60m - 60% quartz.										
101.00	103.90		Interbedded Sericitic-Quartzite and Sericite-Chlorite Schist	56440	102.40	103.90	1.5		10				
			Light grey; fine grained quartzite with lesser sericit-chlorite schist										
			interbeds; well foliated; no pyrite; minor quartz segregations.										
103.90	110.90		"605" Quartz Vein ??	56441	103.90	104.50	0.60		1				
			Irregular bands of white quartz and bluish quartz intermixed with highly	56442	104.50	105.40	0.90		1				
			altered sericite schist; 70% quartz; 30% schist; minor ankerite.	56443	105.40	105.80	0.40		31				
				56444	105.80	106.30	0.50		5				
			103.90-104.10m - barren.										
			104.10-104.50m - 1% pyrite in wall rock.										
			104.50-105.40m - trace pyrite.										
			105.40-105.80m - contains 1cm seam of sphalerite and galena.										
			105.80-106.80m - spotty pyrite to 2% in isolated small concentrations.										
			106.80-107.60m - trace pyrite	56445	106.30	106.80	0.50		1				
			107.60-108.50m - highly broken, altered rock; minor quartz.	56446	106.80	107.20	0.40		1				
				56447	107.20	107.60	0.40		2				
			108.50-110.30m - mineralized vein; 1% to 8% coarse pyrite and concentrations										
			of fine pyrite to 2cm; 85% quartz; 15% schist contains 2% pyrite.										

From Meters	To	Syb	Description	Smp. No.	From Meters	To	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			110.30-110.90m - highly altered, chlorite-sericite; highly broken up;	56448	107.60	108.50	0.90		260				
			minor quartz.	56449	108.50	110.30	1.80		620				
				56450	110.30	110.90	0.60		590				
110.90	131.40		Interbanded Sericitic Quartzite and Phyllite										
			Laminated appearance with 0.25 to 5cm bands of very dark grey phyllite										
			intermixed with 5cm to 15cm bands of light grey sericitic quartzite; minor										
			segregated quartz, but occasional bands of quartz to 20cm with ankerite;										
			trace pyrite.										
			110.90-114.50m - core is very broken up.										
			116.0m - foliation at 70° to CA.										
			117.90-118.15m - quartz vein with ankerite.	56451	117.90	118.20	0.30		4				
			120.80-120.90m - white quartz vein at 70° to CA.	56452	120.50	121.00	0.50		6				
			125.00m - minor "kinking".										
			130.60-131.40m - minor quartz veining.										
			End of hole - 131.40m (431 feet).										
			Sperry Sun Tests										
			Depth: Inclination: Direction:										
			131.40m -50.50° 235.50°										

DRILL RECORD

IMPERIAL METALS CORPORATION

PROPERTY : Cunningham Creek
HOLE NO. : DDH-87-12
COMMENCED: November 17, 1987
COMPLETED: November 20, 1087
OBJECTIVE: Test "605" vein extension.

LOCATION : SE Grid
LOC. : 4 + 00E, 0 + 38N (DDH-86-20)
ELEV. : 1745m (approx.)
CORE SIZE: NQ

ATTITUDE COLLAR: -45°
ATTITUDE BOTTOM: 270°
SURVEY AT : 112.78 (-44.5°/261.5°)
% RECOVERY :
LENGTH : 112.78m

PAGE : 1 of 6
LOGGED BY : D. Gorc
DATE : November 21/87
CORE STORED : At the camp
UNUSUAL FEAT.:

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
0.00	6.10		Casing.										
6.10	26.10		Interbedded Sericitic Quartzite and Sericite-Chlorite Schist										
			Light grey to light greenish-grey with occasional dark green bands; finely foliated and banded; interbedded quartzite and sericite-chlorite schist; alterating 1m to 2m bands of quartzite and schist; up to 14.00m the unit is predominantly sericite-chlorite schist, after 14.00m there is equal parts sericitic quartzite and sericite-chlorite schist; some quartz segregations but not abundant, perhaps 2-3 per meter; vary from 0.5cm to 5cm in thickness; occasionally ankerite and pyrite with quartz; overall only trace pyrite; occasional 5cm to 15cm horizons with 1-2% pyrite in small concentrations along foliation.										
			6.50m - foliation at 35° to CA.										
			10.00m - foliation at 60° to CA.										
			14.50-14.55m and 14.60-14.65m - quartz along foliation with minor pyrite.	56453	14.4	14.7	0.30	100%*	1				
								*except where noted					
			19.30-20.40m - stockwork of white quartz veins, 20% quartz, 80% rock; most common orientation is 45° to CA; minor small concentrations of pyrite with quartz.	56454	19.3	20.40	6.10		9				

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Analysis Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			20.40-20.75m - mineralized white quartz with 5% pyrite in concentrations to 2cm; 25% rock inclusions.	56455	20.40	20.75	0.35		190				
			20.75-21.30m - barren white quartz; no rock inclusions.	56456	20.75	21.30	0.55		5				
			23.0m - small fault?? - minor gouge.										
26.10	31.80		"605" Quartz Vein ??										
			Intermixed sericite-chlorite quartzite, sericite-chlorite schist and white quartz; 65% quartz, 35% rock; quartz veins at 20° to 40° CA; average 30° to CA; most veins are barren but some veins contain up to 5% pyrite as coarse concentrations to 1cm access.										
			26.10-27.70m - 50% quartz, 50% rock; minor pyrite alongside quartz.	56457	26.10	27.70	1.60		535				
			27.70-28.30 - 65% - 35% rock; quartz veins mineralized with 2-5% coarse pyrite.	56458	27.70	28.30	0.60		205				
			28.30-29.60m - 20% quartz - 80% rock; no pyrite.	56459	28.30	29.6	1.30		25				
			29.20-29.40m - small fault?? highly broken, altered rock.										
			29.60-30.10m - 95% quartz, 5% rock inclusions; no pyrite.	56460	29.60	30.10	0.50		22				
			30.10-30.80m - 30% quartz - 70% rock; minor pyrite within schist.	56461	30.1	30.8	0.70		64				
				56462	30.80	31.80			58				
31.80	47.70		Interbedded Sericitic Quartzite and Sericite-Chlorite Schist										
			Similar to 6.10m to 26.1m.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			31.80-36.80m - abundant quartz-ankerite veins and/or segregations to 20cm thick; minor pyrite; quartz is predominantly along foliation at 45° to CA; occasional crosscutting quartz veins.										
			32.00-32.20m - white quartz, very broken up; minor pyrite.	56463	32.00	32.60	0.60		4				
			32.40-32.50m - white quartz-ankerite.										
			32.60 - 1cm of massive pyrite along foliation.	56464	32.60	33.20	0.60		77				
			32.80-32.90m - white quartz and minor ankerite; no sulphide.										
			33.20-33.40m - white quartz; minor ankerite.										
			33.40-35.70m - some sections of core are very broken; contains 5 quartz-ankerite segregations to 5cm thick; no sulphides.	56465	33.20	35.70	2.50		6				
			36.00-36.80m - 70% quartz, 30% sericite-chlorite schist; quartz segregations to 15cm thick; minor pyrite alongside the quartz.	56466	36.00	36.85	0.85		4				
			37.20-37.30m - white and bluish quartz; minor pyrite at 60° to CA.										
			37.30-38.30m - 5 quartz segregations along foliation up to 8cm thick; minor pyrite with quartz.	56467	37.30	38.30	1.0		1				
47.70	68.80		Interbedded Sericitic-Quartzite and Phyllite										
			Laminated appearance due to alternating bands of dark grey phyllite and light grey sericitic quartzite; bands of phyllite vary from thin wispy bands (.25cm to 5cm thick); some quartz segregations to 2cm thick but not abundant (1-2 per meter); very minor disseminated pyrite along foliation.										

From	To	Syb	Description	Smp. No.	From	To	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
			50.00m - foliation at 45° to CA.										
			55.80-58.20m - small fault??; very soft, weathered, broken core; some clay gouge.	56468	55.80	58.40	2.60	50	6				
			59.20-59.70m - fault; gouge.										
			59.70m - character of unit changes; beginning of abundant quartz segregations; generally less than 1cm thick; occasional white quartz veins to 20cm thick; no pyrite; quartz segregations are often broken up and brecciated.	56469	59.70	60.00	0.30		2				
			65.00-65.80m - quartz vein; 10% chloritic inclusion; inclusions highly	56470	64.20	64.80	0.60		3				
			weathered, soft; some ankerite; vein at 35° to CA; no pyrite.	56471	64.80	65.80	1.00		29				
			66.00m - foliation at 45° to CA.										
68.80	72.70		Interbedded Sericitic Quartzite and Sericite-Chlorite Schist										
			66.80-69.50m - 30% quartz; 70% sericite-chlorite schist; quartz segrega-	56472	66.80	68.30	1.50		7				
			tions to 2cm thick and as crosscutting white quartz veins to 5cm thick; minor pyrite alongside some quartz; quartz veins at 25° to 50° to CA.	56473	68.30	69.50	1.20		1				
			70.80-71.80m - white quartz vein at 40° to CA; 5% ankeritized inclusions; some vugs.	56474	70.80	71.80	1.00		4				
			71.80-72.70m - approx. 10 thin quartz veinlets to 2cm thick.	5	71.80	72.70	0.90		10				

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
72.70	105.80		**Interbedded Sericitic-Quartzite and Phyllite**										
			Similar to 47.70 to 68.80m except for some minor bands of sericite-chlorite schist; laminated appearance due to alternating horizons of light grey, fine grained quartzite and dark grey phyllite; phyllite horizons or bands vary from wispy 0.1cm layers to 50cm horizons; well foliated; no kinking or plastic deformation; no pyrite; only minor quartz segregations to 10cm; approximately 1-2 per meter; ankerite with some quartz segregations; occasional minor pyrite with some quartz segregations; some crosscutting quartz veins but very thin (0.5cm to 1cm) and not abundant; veins at 30° to CA.										
			88.00m - foliation at 45° to CA.										
			98.00m - foliation at 45° to CA.										
			99.60-99.70m - white quartz vein; no pyrite.	56476	99.60	99.80	0.20		6				
			101.70-102.90m - abundant white quartz veins from 0.5cm to 15cm thick; minor pyrite alongside some quartz.	56477	101.70	102.90	1.20		73				
			101.90-102.10m - white quartz.										
			102.40-102.45m - white quartz at 65° to CA.										
			103.60-103.75m - quartz-ankerite vein at 30° to CA.	56478	103.60	104.50	0.90		6				
			103.80-103.85m - white quartz.										
			104.30-104.50m - white quartz-ankerite vein at 50° to CA.										

From (Meters)	To (Meters)	Syb	Description	Smp. No.	From (Meters)	To (Meters)	Lgth.	Rec.	Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm
105.80	110.30		**Sericite-Chlorite Schist**										
			Pale green; well foliated; some contortions; plastic deformation in folia-										
			tion; abundant quartz segregations to 1cm thick; quartz segregations are										
			broken up and contorted; some contain minor ankerite.										
110.30			**Interbedded Sericitic-Quartzite and Phyllite**										
			Identical to unit 72.70-105.80m except for some minor "kinking".										
			112.00m - foliation at 25° to CA.										
			End of hole - 112.78m (370 feet).										
			Sperry Sun Tests										
			Depth: Inclination: Direction:										
			112.78m -44.50° 261.50°										

A P P E N D I X   B

GEOCHEMICAL ANALYSES AND ASSAYS

ROCK ANALYSES

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
PD-87-1	1	9	2	104	.3	7	17	3672	11.94	17	5	ND	1	122	1	2	2	11	15.27	.070	3	1	.75	29	.01	14	.08	.02	.04	1	1
PD-87-69F	1	19	112	7	.6	4	3	246	1.07	6	5	ND	3	21	1	2	2	1	.58	.006	2	2	.20	4	.01	2	.02	.01	.01	2	3
PD-87-70F	1	614	18	99	.7	18	18	16109	23.89	2	5	ND	2	250	1	2	2	7	11.21	.013	3	2	2.01	10	.01	14	.38	.01	.02	1	2
PD-87-71F	1	1731	38	102	.2	68	66	11895	42.61	8	5	ND	8	85	2	2	11	1	2.36	.016	3	10	.88	17	.01	41	.72	.01	.04	1	7
PD-87-72F	1	620	19	104	.5	19	19	17387	25.62	2	5	ND	2	226	2	2	2	7	9.60	.014	4	3	1.84	14	.01	14	.43	.01	.03	1	3
STD C/AU-R	18	58	40	130	7.1	68	27	997	3.90	38	12	7	37	47	17	17	24	54	.47	.081	36	58	.86	170	.08	35	1.96	.06	.13	12	500

Cunningham (OK)

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

(1)

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-ROCK P2 TO P11-SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 5 1987 DATE REPORT MAILED: Sept 17/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-3946 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
PD-87-2	2	15	16	23	.1	18	7	487	4.06	154	5	ND	7	4	1	2	2	3	.04	.024	12	5	.02	24	.01	17	.22	.02	.09	1	53
PD-87-3	1	7	2	13	.1	7	2	360	1.75	10	5	ND	1	2	1	2	2	1	.04	.010	2	5	.01	8	.01	6	.04	.03	.02	1	1
PD-87-3A	1	5	3	23	.2	8	2	680	2.25	10	5	ND	3	3	1	2	2	2	.16	.006	5	8	.02	11	.01	14	.06	.03	.02	1	1
PD-87-4	1	11	2	24	.1	8	3	284	2.39	6	5	ND	2	1	1	2	2	1	.01	.003	3	6	.02	8	.01	10	.04	.01	.02	1	1
PD-87-5	1	7	5	41	.2	12	3	223	1.41	15	5	ND	4	4	1	2	2	2	.09	.010	8	5	.04	13	.01	13	.14	.02	.04	1	780
PD-87-5A	1	6	9	14	.2	14	5	425	2.33	21	5	ND	4	2	1	2	2	2	.01	.008	8	5	.02	20	.01	8	.10	.01	.06	1	1410
PD-87-6	1	8	9	42	.2	25	7	986	5.00	6	5	ND	7	7	1	2	2	11	.05	.035	13	12	.05	13	.01	2	.25	.06	.02	1	5
PD-87-7	1	14	22	34	1.2	16	6	184	3.59	189	5	3	3	5	1	4	2	3	.01	.012	4	5	.02	15	.01	6	.11	.01	.05	1	3570
PD-87-8	1	9	8	12	.9	8	1	145	1.56	32	5	3	1	4	1	2	2	2	.01	.008	2	6	.01	9	.01	8	.07	.01	.03	1	3160
PD-87-9	5	15	11	39	.1	13	5	842	2.51	10	5	ND	3	6	1	2	2	2	.01	.017	6	5	.02	28	.01	2	.09	.01	.04	1	41
PD-87-10	1	4	3	12	.1	4	1	327	1.42	2	5	ND	1	1	1	2	2	1	.01	.004	2	2	.01	10	.01	4	.05	.01	.03	1	21
PD-87-11	1	3	7263	53	13.0	6	3	1192	3.64	22	5	ND	3	571	1	8	15	2	18.46	.013	4	1	1.50	21	.01	5	.10	.01	.06	1	4
PD-87-12	1	72	25	167	.1	19	12	11549	50.44	11	5	ND	7	18	1	2	3	4	.01	.027	4	1	.08	41	.01	6	.31	.02	.06	1	6
PD-87-13	3	67	15232	101	28.1	4	6	12805	12.31	38	5	ND	2	201	4	31	5	3	15.04	.032	3	1	1.56	10	.01	2	.01	.01	.02	2	28
PD-87-14	3	8	2727	2059	14.9	5	3	5373	6.35	12	5	ND	2	188	23	6	32	3	11.04	.026	2	3	2.46	20	.01	2	.06	.01	.04	12	8
PD-87-15	1	672	120	97	.9	37	11	2621	34.35	23	5	ND	3	27	1	2	3	5	4.47	.007	2	1	.20	10	.01	2	.12	.02	.03	1	12
PD-87-16	1	471	88	139	.7	58	28	2221	38.79	9	5	ND	8	11	1	5	5	16	.45	.011	6	9	.88	7	.01	2	2.84	.02	.02	2	38
PD-87-17	1	88	34	22	.5	9	6	1042	5.27	11	5	ND	2	623	1	2	7	1	26.79	.019	3	3	.14	14	.01	2	.07	.01	.03	1	4
PD-87-18	2	1132	52	104	.1	24	8	4305	48.98	29	5	ND	7	10	1	2	2	13	.06	.045	2	2	.11	59	.01	2	.82	.02	.05	11	49
PD-87-19	2	840	41	110	.3	18	74	1070	51.48	77	5	ND	7	14	1	2	2	7	.29	.063	3	15	.10	10	.01	2	.58	.02	.05	8	250
PD-87-20	34	628	102	334	2.4	129	28	178	8.30	67	10	ND	4	91	4	8	2	54	1.56	.499	5	12	.36	10	.01	7	.66	.02	.18	2	33
TE-87-73F	1	1971	14558	37	226.1	58	115	694	28.39	31	5	ND	3	43	29	227	26	2	1.19	.024	2	1	.13	6	.01	6	.05	.02	.02	12	192
TE-87-74R	1	26	269	19	.5	6	3	517	2.50	13	5	ND	3	1321	1	2	6	1	31.64	.013	3	2	.62	13	.01	2	.06	.02	.03	1	21
TE-87-75F	1	812	2306	138	3.6	18	7	2602	54.68	18	5	ND	5	4	1	3	3	17	.01	.011	2	1	.08	12	.01	2	.40	.02	.05	3	42
TE-87-76R	2	37	248	67	.6	10	5	2485	8.88	11	5	ND	2	679	1	2	4	4	20.00	.022	4	2	3.07	7	.01	2	.02	.01	.02	1	1
TE-87-77R	3	21	48	58	.4	15	7	1536	5.90	16	5	ND	3	564	1	3	3	3	18.48	.026	5	3	2.93	14	.01	2	.08	.01	.04	1	1
TE-87-78R	2	11844	93	613	13.3	23	80	1825	9.83	117	5	ND	1	383	2	2	2	15	17.33	.009	4	1	1.81	11	.01	2	.04	.01	.03	2	138
TE-87-79R	1	86	20021	841	206.5	11	4	197	2.86	50	5	2	1	26	14	136	71	1	.33	.012	2	2	.06	7	.01	5	.05	.02	.02	1	3810
TE-87-80R	1	262	18916	1577	48.0	8	5	331	3.93	131	5	6	2	12	16	20	40	2	.34	.013	4	2	.06	11	.01	5	.08	.01	.04	4	6090
TE-87-81R	1	20	1879	29	2.9	14	5	114	2.08	48	5	ND	1	2	1	2	2	1	.02	.004	2	5	.01	3	.01	10	.03	.01	.01	1	59
TE-87-82F	1	18	518	77	1.2	6	2	111	1.92	93	5	ND	5	8	1	3	2	2	.03	.010	11	7	.01	16	.01	11	.16	.05	.04	1	530
TE-87-83F	1	9	102	58	.2	15	4	573	4.71	16	5	ND	1	3	1	2	2	2	.01	.013	2	2	.03	9	.01	6	.05	.01	.01	10	47
TE-87-84F	3	696	45	90	.6	69	51	7699	18.49	14	5	ND	3	126	1	2	2	2	7.33	.039	2	2	1.89	5	.01	2	.08	.03	.03	1	6
TE-87-85R	2	1630	226	761	5.1	76	39	16002	36.55	55	20	ND	5	52	3	2	12	4	.44	.064	5	1	.26	56	.01	2	.34	.04	.11	2	54
TE-87-86R	1	67	29	27	.5	5	3	1270	2.42	10	5	ND	1	1093	1	2	7	1	31.65	.012	3	1	.41	6	.01	2	.02	.02	.01	1	1
STD C/AU-R	18	58	41	133	7.1	67	27	1040	3.98	37	29	7	38	49	18	17	21	56	.47	.087	37	57	.87	175	.08	36	1.83	.08	.14	11	480

ASSAY REQUIRED FOR Pb>10,000 ppm
Ag>35 ppm

EXTRA COPY

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
TE-87-87R	1	15	48	20	.4	9	3	408	1.57	2	5	ND	2	3	1	2	2	3	.20	.016	3	5	.14	16	.01	2	.34	.02	.03	1	7
TE-87-88F	1	17	4608	16	8.8	15	5	390	6.64	5034	5	14	1	21	1	7	2	1	.53	.003	2	3	.20	9	.01	2	.06	.02	.05	1	16470
TE-87-89F	1	24	4661	61	35.1	14	5	21	21.07	26560	5	55	2	4	1	11	8	1	.01	.001	2	1	.03	4	.01	4	.01	.01	.02	1	16400
TE-87-90F	1	6	49	10	1.6	14	8	692	3.78	9579	5	7	1	67	1	2	2	1	1.29	.021	2	2	.43	8	.01	4	.05	.02	.04	1	10450
TE-87-91F	1	5	253	9	2.6	13	3	202	2.60	1074	5	12	2	14	1	3	2	1	.29	.030	2	3	.08	9	.01	4	.07	.02	.05	1	10040
TE-87-92F	1	5	80	34	2.2	38	4	2162	6.32	377	5	6	1	8	1	2	2	1	.12	.009	2	3	.15	14	.01	2	.02	.01	.02	2	23500
PD-87-21	1	49	20767	24	339.8	33	3	391	3.69	246	5	ND	1	24	44	222	150	1	.62	.001	2	1	.05	16	.01	2	.04	.05	.01	1	570
PD-87-22	1	6	870	7	3.1	6	2	122	2.40	8643	5	11	1	4	1	3	2	1	.01	.007	2	3	.01	7	.01	12	.05	.01	.03	1	10400
PD-87-23	1	86	6749	112	10.2	15	28	1326	9.38	101	5	ND	4	77	1	4	2	17	2.50	.079	8	2	1.10	41	.01	2	.40	.05	.18	1	86
PD-87-23A	1	5	104	7	.5	2	1	361	1.07	183	5	ND	1	1020	1	2	3	1	19.94	.003	11	1	.18	6	.01	6	.02	.01	.01	1	145
PD-87-23B	1	9	226	14	.5	2	1	439	.93	18	5	ND	1	1469	1	2	6	1	31.40	.008	3	1	.35	8	.01	2	.02	.01	.02	1	15
PD-87-24	10	29	18906	49418	40.4	13	13	853	3.50	57	5	5	1	55	366	27	14	3	2.08	.014	2	2	.33	14	.01	2	.07	.03	.04	1	7710
PD-87-24A	2	18	294	102	.5	11	9	1431	6.63	18	5	ND	6	154	1	2	2	2	8.50	.023	7	1	.59	22	.01	2	.17	.03	.08	1	9
PD-87-25	2	60	499	568	.8	27	10	2952	14.57	19	9	ND	4	297	4	2	2	3	8.64	.010	5	3	1.35	18	.01	2	.13	.02	.06	1	29
PD-87-26	1	9	12250	29	245.7	29	59	70	22.48	320	5	33	2	23	1	5	450	1	.10	.003	2	1	.04	1	.01	2	.01	.01	.03	4	40900
PD-87-28	15	255	17096	92212	187.7	3	17	6353	6.08	25	5	ND	1	102	830	133	29	1	3.73	.057	2	1	.77	10	.01	5	.02	.02	.02	5	2140
PD-87-29	2	25	3558	1596	18.8	12	6	814	3.79	18	5	ND	7	321	17	5	19	3	13.93	.031	5	4	2.10	110	.01	2	.31	.02	.14	278	1680
PD-87-30	3	1663	3317	1764	8.7	30	11	3201	26.23	17	14	ND	3	162	19	4	2	4	6.67	.010	2	1	1.36	8	.01	2	.12	.02	.01	475	5140
STD C/AU-R	18	57	43	132	7.5	70	27	1032	3.93	38	18	8	37	49	18	18	21	58	.47	.086	38	58	.87	175	.07	36	1.81	.06	.15	12	510

ASSAY REQUIRED FOR Pb, As >10,000 ppm
Zn > 20,000 ppm
Ag > 35 ppm

EXTRA COPY

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW 87-1F	2	24	6	32	.1	19	12	797	2.92	8	5	ND	4	11	1	2	2	2	.16	.043	7	6	.05	42	.01	2	.12	.05	.02	1	3
JW 87-2 F	1	88	13	237	.6	24	13	3756	29.21	13	5	ND	20	13	1	2	2	10	.02	.031	19	20	.16	70	.01	6	1.05	.02	.10	1	10
JW 87-3 F	1	49	3	9	.2	12	2	867	1.50	33	5	ND	1	8	1	9	3	1	.79	.002	2	5	.02	21	.01	2	.09	.02	.06	1	6
JW 87-4 F	2	155	13	116	.7	7	15	2455	44.69	27	16	ND	4	1	1	2	2	23	.01	.011	2	1	.03	8	.01	2	.20	.01	.03	1	27
JW 87-5 F	1	22	6	37	.2	16	11	1308	3.01	2	5	ND	5	10	1	2	2	5	.28	.051	9	7	.05	25	.01	7	.26	.04	.06	1	1
JW 87-6 R	1	9	2	63	.1	23	11	624	4.18	2	5	ND	2	6	1	4	2	2	.05	.022	4	4	.07	24	.01	2	.28	.02	.06	1	2
JW 87-7 F	1	5	9	91	.2	1	6	7573	14.78	17	5	ND	1	329	2	2	2	10	17.73	.024	3	4	1.82	9	.01	6	.01	.01	.02	1	6
JW 87-8 R	1	4	2	20	.5	10	3	518	2.43	8	5	3	1	4	1	2	2	1	.07	.026	2	2	.03	9	.01	2	.04	.01	.01	1	14840
JW 87-9 F	1	2	2	6	.3	4	1	254	.89	2	5	ND	2	5	1	2	2	1	.24	.004	2	2	.03	4	.01	2	.02	.01	.01	1	8
JW 87-10	1	16	5	59	.1	9	13	5021	28.54	8	5	ND	2	5	1	2	2	3	.04	.017	2	3	.03	56	.01	6	.08	.01	.04	1	18
JW 87-11F	1	2	2	7	.1	5	2	236	.77	2	5	ND	1	1	1	2	2	1	.01	.001	2	2	.01	15	.01	4	.01	.01	.01	1	1
JW 87-12R	1	9	3	28	.2	16	6	586	2.23	7	5	ND	2	6	1	3	2	1	.31	.007	4	2	.03	32	.01	2	.10	.02	.04	1	220
JW 87-13F	3	314	16	88	.5	7	15	1967	41.89	21	5	ND	3	2	1	5	2	25	.01	.013	3	3	.02	42	.01	2	.31	.01	.06	1	31
JW 87-14	3	705	27	101	.7	34	19	2760	44.46	39	5	ND	2	7	2	7	2	24	.01	.020	2	1	.06	28	.01	2	.28	.01	.07	1	44
JW 87-15F	2	452	20	114	.6	27	19	3084	41.36	32	5	ND	4	4	1	10	2	17	.01	.035	4	3	.04	39	.01	2	.21	.01	.05	1	33
JW 87-93R	1	8	2	4	.1	3	1	135	.88	2	5	ND	1	2	1	2	3	1	.01	.007	3	2	.01	4	.01	10	.03	.02	.01	1	6
JW 87-94R	1	10	59	5	.6	14	4	106	2.91	135	5	ND	1	1	1	2	2	1	.01	.002	2	1	.01	6	.01	5	.05	.01	.02	1	995
STD C/AU-R	20	63	40	133	7.3	69	29	1037	3.87	40	18	8	39	52	18	17	20	59	.46	.090	39	61	.84	180	.07	30	1.81	.06	.14	13	480

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

EXTRA COPY

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 16 1987 DATE REPORT MAILED: Sept 29/87 ASSAYER. D.Toye. .DEAN TOYE. CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4280

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW-87-16F	1	110	4	101	.1	22	36	1397	9.08	2	5	ND	5	39	1	2	2	75	.25	.088	15	15	.96	58	.01	2	2.47	.06	.05	1	4
JW-87-17F	2	8	2780	47	3.5	23	7	1985	5.38	5	5	ND	1	11	1	2	2	3	.09	.024	3	2	.10	23	.01	2	.10	.02	.02	1	3
JW-87-18F	1	2	96	14	.1	10	2	415	1.27	3	5	ND	1	246	1	2	2	2	5.63	.011	7	2	.07	14	.01	2	.09	.01	.02	1	1
JW-87-19F	1	2	27	12	.1	1	1	354	.63	4	5	ND	1	1475	1	2	6	1	36.06	.013	4	1	.28	9	.01	6	.02	.01	.01	1	1
JW-87-20F	1	509	33	117	.1	20	23	3288	49.25	42	5	ND	3	4	2	2	2	1	.01	.017	2	2	.03	25	.01	4	.23	.01	.05	1	26
JW-87-21	1	24	8	25	.1	5	4	1527	1.75	5	5	ND	1	551	1	2	2	9	9.07	.044	4	2	.29	44	.01	2	.40	.01	.05	1	1
JW-87-22	1	125	11	163	.1	15	28	1680	7.42	34	5	ND	1	199	1	2	2	141	5.58	.064	10	12	2.48	21	.01	4	2.65	.03	.02	1	4
JW-87-23R	1	29	17251 ✓	84	24.7	2	7	6330	11.01	33	5	ND	1	352	4	15	2	5	16.67	.030	3	2	2.70	8	.01	6	.03	.01	.02	852 ✓	99
JW-87-24R	1	2693	19	132	2.4	8	32	1710	13.46	7	5	ND	1	319	1	2	2	8	11.61	.008	2	3	2.24	12	.01	2	.03	.01	.03	10	142
JW-87-25R	1	138	14	83	.1	16	32	886	7.10	31	5	ND	2	89	1	2	2	41	4.52	.069	7	7	1.42	64	.01	7	.54	.06	.07	1	3
JW-87-26F	1	52	9	22	.1	17	7	613	2.18	2	5	ND	5	29	1	2	2	1	.61	.012	5	3	.18	135	.01	2	.13	.04	.04	1	1
PD-87-31	1	422	30	76	.1	64	28	678	9.85	2	5	ND	3	9	1	2	2	3	.21	.018	4	3	1.74	23	.01	2	.13	.02	.08	11	3
PD-87-32	2	159	20 ✓	17 ✓	.1 ✓	16	5	265	4.49	32	5	ND	1	5	1	2	2	1	.09	.005	3	1	.05	20	.01	3	.09	.01	.04	1	250
PD-87-34A	33	91	30350	54694	509.6	4	3	372	1.34	31	5	ND	1	110	491	51	713	1	.73	.008	2	1	.01	6	.01	3	.02	.01	.01	1	520
PD-87-34B	1	1308	338	267	2.0	4	19	960	53.09	168	5	3	4	4	2	8	17	1	.01	.036	2	2	.05	22	.01	4	.15	.01	.05	127	1880
PD-87-35	30	37	21589 ✓	46776 ✓	49.0	9	9	4361	10.29	335	5	ND	1	116	605	35	2	4	7.26	.069	3	4	1.07	14	.01	10	.13	.01	.08	1470 ✓	2860
PD-87-36	2	294	23762 ✓	340	66.8	3	17	1498	48.11	8926	5	ND	1	8	4	27	435	1	.21	.056	2	3	.07	6	.01	5	.18	.01	.04	61	890
PD-87-37	1	22	501	110	1.3	11	8	3190	8.47	153	5	ND	1	280	2	2	2	3	17.33	.013	5	1	4.65	7	.01	5	.04	.01	.03	3	16
TE-87-95R	3	137	22220 ✓	831	59.3	11	14	11251	12.13	72	5	ND	1	138	14	54	2	4	10.46	.028	2	3	1.39	21	.01	7	.04	.01	.04	677 ✓	60
TE-87-96R	3	63	20323 ✓	101	77.1	7	11	13100	11.82	40	5	ND	1	193	8	67	2	4	14.47	.031	2	2	1.47	19	.01	2	.03	.01	.04	220 ✓	120
TE-87-97R	1	5	948	10	1.1	2	1	471	.80	9	5	ND	1	931	1	2	5	1	28.05	.012	3	2	.29	6	.01	2	.03	.01	.01	10	1
TE-87-98R	1	810	160	352	1.8	32	24	3934	16.35	80	5	ND	1	411	4	2	2	4	16.02	.008	2	2	1.63	9	.01	2	.01	.01	.01	1	360
TE-87-99R	1	13	45	29	.1	10	5	669	1.85	10	5	ND	1	636	1	2	5	1	26.23	.014	4	1	.29	21	.01	2	.12	.01	.07	1	1
STD C/AU-R	19	59	39	131	7.2	64	28	973	3.52	37	20	8	36	49	18	18	20	55	.47	.084	37	58	.88	177	.06	37	1.90	.06	.13	13	525

✓ Assay required W Pb Zn Ag

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW-87-27R	1	7	76	14	.9	7	1	460	.98	16	5	ND	1	1	1	4	7	1	.01	.003	2	2	.02	11	.01	2	.04	.01	.01	1	560
JW-87-28F	1	3	9	56	.1	7	10	1832	7.13	5	5	ND	1	146	1	2	2	6	10.38	.051	3	1	1.79	5	.01	2	.01	.01	.01	1	3
JW-87-29R	1	2	13	9	.4	1	1	888	1.51	3	5	ND	2	1098	1	2	3	1	32.13	.008	4	1	.99	3	.01	5	.01	.02	.01	1	1
JW-87-30R	1	3	4	30	.1	5	6	1387	5.30	9	5	ND	1	238	1	2	2	16	7.72	.060	2	2	1.60	24	.01	10	.05	.02	.01	1	1
JW-87-31R	1	7	1115	9	23.4	15	18	67	9.20	121	5	4	1	38	1	2	22	1	.87	.002	2	1	.04	4	.01	2	.01	.02	.01	2	4610
JW-87-32R	1	218	25	82	.6	12	15	1029	3.86	25	5	ND	5	635	1	2	2	2	17.41	.024	6	1	1.01	22	.01	2	.10	.01	.06	1	41
JW-87-33R	1	26	35	87	.2	33	20	538	5.15	10	5	ND	9	24	1	3	2	6	.39	.029	9	7	.70	37	.01	3	.26	.04	.10	1	37
JW-87-34R	1	299	49	94	.3	56	39	1462	11.38	170	5	ND	3	29	1	2	2	9	.57	.092	4	1	.09	34	.01	9	.26	.07	.06	1	9
JW-87-35R	1	175	15	69	.4	12	28	1837	7.98	15	5	ND	3	56	1	2	2	12	6.98	.089	5	1	.19	62	.01	6	.29	.03	.08	1	1
JW-87-36R	1	18	24	14	.3	2	2	757	1.40	3	5	ND	2	1348	1	2	2	1	32.80	.012	8	1	.36	16	.01	5	.04	.02	.01	1	1
JW-87-37SC	1	91	108	79	.2	46	16	4514	9.30	35	5	ND	16	24	1	2	2	7	.13	.051	53	10	.10	128	.01	2	.98	.05	.09	1	3
JW-87-38R	3	7	36	69	.6	3	3	18353	15.61	9	11	ND	6	80	1	2	7	3	15.79	.017	5	1	.52	21	.01	2	.04	.01	.03	200	15
JW-87-39R	2	3	1818	163	7.7	8	4	6669	8.32	14	5	ND	4	350	1	2	12	3	18.02	.029	4	2	1.31	49	.01	2	.06	.01	.02	5	6
JW-87-40R	1	12	48	52	.8	15	5	1267	4.48	6	5	ND	3	9	1	2	5	4	.25	.020	5	4	.06	36	.01	2	.17	.03	.03	1	11
JW-87-41R	1	3	50	35	.2	8	6	2269	4.75	10	5	ND	3	570	1	2	2	2	22.71	.011	6	1	2.81	34	.01	2	.07	.01	.04	3	1
JW-87-42F	2	78	21	142	.1	29	19	27261	45.45	9	29	ND	7	50	1	3	2	4	.04	.027	4	1	.08	81	.01	2	.34	.01	.03	2	2
PD-87-38	1	408	21	109	.8	5	5	1729	52.03	13	5	ND	6	9	1	7	2	4	.24	.009	2	1	.08	12	.01	2	.15	.01	.03	2	9
PD-87-39	1	116	20	220	.4	43	19	2231	29.90	6	5	ND	15	21	1	3	2	5	.13	.020	16	4	.30	23	.01	2	.35	.05	.08	1	1
PD-87-40	2	127	10	70	.1	23	28	1319	8.21	29	5	ND	4	177	1	2	2	17	5.26	.073	9	5	2.35	31	.01	2	.48	.13	.02	1	1
PD-87-41	1	18	2312	2232	3.0	5	4	459	2.32	45	5	ND	1	26	12	2	2	5	.60	.019	3	2	.10	10	.01	2	.10	.04	.03	3	260
TE-87-100R	1	77	10	82	.1	15	30	1221	6.95	5	5	ND	5	221	1	2	2	75	6.61	.071	12	6	1.32	32	.01	2	1.93	.02	.03	1	1
TE-87-101R	1	16	18	41	.2	6	4	2153	4.57	5	5	ND	2	521	1	2	2	3	19.21	.007	6	1	2.86	24	.01	4	.06	.01	.01	2	1
TE-87-102R	3	7	52	87	.3	12	5	10454	41.15	15	5	ND	5	203	1	2	2	3	5.95	.012	2	1	1.11	7	.01	2	.11	.01	.01	2	3
TE-87-103R	1	7	16	37	.3	3	4	1557	3.85	8	5	ND	2	605	1	3	2	3	17.57	.023	2	1	2.01	15	.01	4	.04	.01	.02	2	1
TE-87-104R	1	14	14	9	.3	2	1	983	1.38	3	6	ND	1	1237	1	2	4	1	35.21	.015	4	1	.38	15	.01	9	.02	.02	.01	1	10
TE-87-105R	2	134	15	71	.1	12	16	3065	10.66	8	5	ND	2	501	1	2	2	4	16.29	.025	3	1	2.39	16	.01	2	.29	.01	.01	1	5
TE-87-106R	1	4	20	10	.3	3	1	773	1.21	4	5	ND	2	935	1	2	2	1	30.89	.014	4	1	.24	10	.01	3	.03	.01	.01	1	1
TE-87-107R	1	3	27	20	.3	4	2	1838	2.70	2	5	ND	2	1113	1	2	4	1	34.01	.016	4	1	.56	11	.01	2	.02	.02	.01	1	1
TE-87-108R	2	2	8	23	.2	2	3	3477	4.65	5	5	ND	1	438	1	2	2	2	21.69	.002	4	1	6.62	12	.01	2	.01	.01	.01	1	1
TE-87-109F	1	1269	299	105	4.1	59	263	322	49.65	33	6	ND	5	10	1	3	2	2	.29	.002	2	1	.13	6	.01	2	.06	.01	.01	4	410
TE-87-110R	1	4	4	74	.1	30	17	592	5.21	40	5	ND	7	6	1	2	2	3	.12	.034	10	2	.07	26	.01	6	.25	.02	.12	1	19
TE-87-111R	1	108	29	81	.1	32	17	245	8.09	16	5	ND	12	7	1	3	2	20	.09	.037	9	35	.99	16	.01	2	2.21	.03	.08	1	21
TE-87-112R	1	23	266	119	.5	45	14	1612	5.57	3	5	ND	2	5	1	2	2	15	.07	.015	6	7	.95	12	.01	3	2.05	.02	.03	1	1
TE-87-113R	1	36	10	121	.1	53	24	922	6.85	2	5	ND	11	10	1	2	2	25	.18	.058	21	48	1.38	25	.01	4	3.05	.03	.09	1	1
TE-87-114R	1	10	5	123	.1	50	18	981	6.75	2	5	ND	14	10	1	2	2	25	.12	.038	25	36	1.44	23	.01	2	3.11	.03	.09	1	2
STD C/AU-R	18	58	39	131	7.0	66	27	1027	3.93	37	18	7	38	50	17	18	21	57	.49	.086	38	59	.86	179	.08	38	1.83	.08	.13	12	520

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

EXTRA COPY

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 24 1987 DATE REPORT MAILED: Oct 9/87 ASSAYER. D. Toye ...DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4430 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW-87-42R	1	10	7	36	.1	13	4	809	3.66	9	5	ND	2	12	1	2	2	2	.33	.016	2	1	.10	10	.01	2	.04	.02	.01	2	1
JW-87-43R	1	106	9	101	.3	6	26	1024	8.31	2	5	ND	9	204	1	2	2	184	2.55	.086	22	2	1.89	59	.01	2	3.46	.06	.02	1	1
JW-87-44F	1	8	7	23	.1	7	3	371	2.11	7	5	ND	9	8	1	2	2	6	.10	.019	16	3	.07	14	.01	2	.23	.03	.02	2	1
JW-87-45F	1	5	6	22	.1	9	3	360	1.59	2	5	ND	13	5	1	2	2	4	.04	.021	19	6	.08	22	.01	2	.18	.03	.02	1	1
JW-87-46R	2	31	39	44	.4	8	7	2489	5.52	2	5	ND	1	302	1	2	2	5	10.11	.026	2	1	2.81	13	.01	2	.04	.01	.01	3	11
JW-87-47F	1	8	15	44	.2	9	3	2331	4.17	4	5	ND	2	2	1	2	2	2	.03	.008	4	2	.06	124	.01	2	.06	.01	.01	3	1
JW-87-48F	2	35	14	62	.4	3	3	3952	10.98	6	5	ND	1	464	1	2	2	4	20.53	.006	2	1	.74	10	.01	2	.01	.01	.01	1	2
JW-87-49R	1	171	14	215	.6	25	36	1623	10.95	39	5	ND	5	22	1	2	2	13	1.15	.084	9	1	.18	57	.01	2	.31	.08	.05	2	1
JW-87-50F	2	4	9	81	.7	18	9	2174	10.20	10	5	ND	3	165	1	2	2	4	16.54	.012	4	1	1.13	20	.01	2	.01	.01	.01	2	1
TE-87-115F	1	8	2476	32	22.4	302	92	1126	18.70	1001	5	4	3	74	1	2	37	2	2.26	.013	2	1	.98	6	.01	2	.01	.03	.01	3	6980
TE-87-116F	2	7	2066	105	2.9	7	5	5204	12.17	75	5	ND	3	237	1	2	2	3	11.12	.039	2	1	2.70	5	.01	2	.01	.01	.01	510	92
TE-87-117F	3	5	9628	613	11.9	4	3	9770	9.63	44	5	ND	4	296	5	5	2	2	14.24	.030	2	1	3.45	11	.01	2	.04	.01	.01	709	520
TE-87-118F	1	14	10668	127	93.1	198	347	1364	23.70	555	5	11	4	59	3	2	180	3	1.90	.148	2	1	.79	6	.01	5	.04	.03	.01	10	19400
TE-87-119R	2	19	150	63	.9	17	6	2123	6.44	6	5	ND	2	348	1	2	2	2	10.53	.031	2	1	3.00	40	.01	2	.10	.01	.04	11	68
TE-87-120R	2	30	144	32	1.3	37	15	979	3.73	5	5	ND	8	169	1	2	2	4	5.04	.036	5	5	1.28	41	.01	3	.33	.03	.09	5	128
TE-87-121F	10	259	29401	40534	61.6	15	21	5240	11.48	48	5	ND	3	81	409	51	2	2	5.14	.029	2	1	1.65	11	.01	4	.07	.03	.03	5	210
TE-87-122F	2	456	15418	215	173.4	31	294	6542	17.49	59	5	ND	3	63	26	186	2	2	4.26	.043	2	1	1.55	5	.01	3	.02	.02	.01	141	710
TE-87-123F	1	9	562	237	.5	9	3	357	1.45	2	5	ND	11	4	2	3	2	1	.08	.011	14	2	.05	28	.01	2	.16	.02	.10	3	6
TE-87-124F	1	10	4330	19	106.2	16	52	60	19.38	241	5	139	3	2	1	2	271	1	.04	.001	2	1	.03	3	.01	2	.01	.01	.01	3	156800
TE-87-125F	1	6	5723	39	7.5	2	2	3906	4.11	4	5	ND	2	68	1	5	2	2	4.74	.022	2	1	.42	7	.01	2	.03	.01	.02	1	118
TE-87-126F	1	198	179	136	1.6	14	17	1459	17.93	11	7	ND	13	55	1	2	2	3	2.26	.025	7	5	1.15	13	.01	2	.19	.04	.08	3	760
TE-87-127F	1	1345	66	27	.9	13	62	508	29.76	30	5	ND	6	4	1	2	2	2	.37	.036	2	1	.05	6	.01	5	.09	.02	.04	6	325
TE-87-128F	2	605	290	103	4.7	7	9	8157	34.36	26	5	ND	4	20	1	2	9	4	.28	.014	2	1	.14	12	.01	2	.03	.01	.01	3	575
TE-87-129F	1	37	58	24	1.0	4	2	1041	3.40	6	5	ND	2	1279	1	2	2	1	25.44	.009	3	1	.24	15	.01	3	.02	.01	.01	2	96
TE-87-130R	1	175	19336	9	338.2	21	34	156	7.31	12	5	ND	2	3	103	656	81	1	.13	.007	2	1	.03	1	.01	13	.01	.01	.01	1	315
TE-87-131R	1	24	2853	103	3.8	3	2	437	1.48	3	5	ND	1	18	1	4	4	1	.32	.001	2	1	.01	7	.01	2	.01	.01	.01	9	49
TE-87-132R	1	11	5139	9	7.3	8	4	394	1.44	15	5	ND	3	1184	1	6	3	1	31.63	.013	3	1	.27	12	.01	2	.05	.01	.02	1	1
TE-87-133R	1	65	131	140	.5	38	12	357	9.46	4	5	ND	11	9	1	2	2	52	.11	.026	12	41	2.05	17	.01	4	4.40	.03	.03	2	8
TE-87-134R	12	150	14273	55239	22.6	12	20	750	3.06	23	5	ND	2	213	633	20	2	1	8.34	.011	3	2	.09	14	.01	2	.09	.01	.01	5	1470
TE-87-135R	1	7	6372	76	23.7	7	2	860	1.62	8	5	ND	1	377	2	5	40	1	10.28	.005	2	2	.12	8	.01	2	.04	.01	.01	1	22
TE-87-136R	6	12	983	357	2.2	10	3	902	1.78	24	5	ND	6	1243	4	2	2	2	25.79	.030	10	2	.18	13	.01	2	.08	.01	.01	1	6
TE-87-137R	1	10	98	63	.9	8	5	749	1.88	2	5	ND	3	1695	1	2	2	1	32.98	.015	4	1	.26	14	.01	2	.07	.01	.03	1	1
TE-87-138R	2	3	127	40	.5	3	2	506	.98	4	5	ND	3	1347	1	2	2	1	27.92	.012	6	1	.20	13	.01	3	.03	.01	.01	1	2
TE-87-139R	1	17	18171	108	179.6	30	17	179	3.23	214	5	6	1	44	1	5	350	1	.60	.005	2	2	.01	3	.01	2	.02	.02	.01	1	4250
TE-87-140R	1	30	992	236	31.5	7	1	56	1.30	138	5	ND	1	18	1	2	80	1	.31	.003	2	1	.01	2	.01	3	.01	.01	.01	1	145
TE-87-141R	1	6	141	25	1.8	5	3	564	1.14	9	5	ND	4	1432	1	2	5	1	34.53	.018	6	1	.27	6	.01	2	.04	.02	.02	1	11
STD C/AU-R	18	58	38	133	7.1	66	26	1034	3.95	37	16	7	38	49	17	17	21	56	.49	.083	36	57	.87	175	.08	32	1.83	.08	.12	13	510

- ASSAY REQUIRED FOR CORRECT RESULT for. Cu, Pb >10,000 ppm Zn >20,000 ppm

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
PD-87-42	1	1	19	36	.2	12	6	2722	6.63	21	5	ND	4	359	1	2	2	4	16.86	.012	7	2	3.34	20	.01	2	.13	.01	.06	3	4
PD-87-43	1	3	21	33	.4	5	3	1795	3.98	5	5	ND	2	917	1	2	2	1	20.39	.018	9	2	2.18	12	.01	2	.06	.01	.01	3	25
PD-87-43A	1	2571	258	114	24.3	1089	186	2916	12.06	2361	5	28	1	13	1	5	158	2	.12	.001	2	1	.07	30	.01	2	.01	.01	.01	1	129425
PD-87-44	2	41344	4562	1243	403.8	3025	109	1746	22.47	4779	5	503	2	18	18	28	4923	1	.25	.001	2	1	.07	10	.01	3	.01	.02	.01	1	675010
PD-87-45	2	69	20	78	.8	25	5	4010	12.81	26	5	ND	1	311	1	2	2	7	17.90	.026	2	1	3.02	10	.01	2	.01	.01	.01	2	2345
PD-87-46	1	626	92	47	4.1	58	11	534	4.24	67	5	2	4	7	1	4	73	11	.13	.021	3	13	.72	15	.01	2	1.33	.02	.04	2	4660
PD-87-47	1	20	15	57	.1	42	18	2069	9.95	28	5	ND	2	9	1	2	2	2	.25	.029	3	2	.13	22	.01	7	.10	.02	.03	1	39
PD-87-48	1	192	68	45	.6	31	20	2090	7.75	20	5	ND	3	5	1	2	5	17	.07	.076	10	3	.12	62	.01	4	.38	.07	.04	2	206
PD-87-49	1	39	13	71	.1	14	18	1406	6.21	24	5	ND	2	3	1	2	2	21	.04	.039	4	5	.09	28	.01	2	.21	.03	.03	1	240
PD-87-50	1	16	14	69	.1	39	15	2103	10.00	23	5	ND	4	4	1	2	2	3	.02	.009	9	2	.08	29	.01	2	.10	.01	.05	1	66
PD-87-51	1	10	2380	9	57.3	7	22	147	2.94	1867	5	13	1	5	1	2	112	1	.04	.006	2	3	.01	5	.01	3	.03	.01	.01	1	16225
PD-87-52	1	7	55	129	1.1	16	21	2496	11.87	39	5	ND	1	124	1	2	2	9	6.90	.026	5	1	1.06	30	.01	8	.04	.02	.01	3	230
PD-87-52A	1	6	34	54	.5	32	12	767	4.88	25	5	ND	1	3	1	2	2	2	.05	.016	2	3	.04	35	.01	2	.07	.01	.01	1	76
PD-87-53	1	32	5532	55	105.4	4	1	130	1.24	331	5	ND	1	3	1	2	135	1	.10	.001	2	3	.02	4	.01	2	.01	.01	.01	5	1085
PD-87-54	1	59	27239	178	482.1	7	2	83	.81	51	5	ND	2	11	10	5	1040	1	.01	.003	2	4	.01	5	.01	6	.01	.01	.01	1	73
PD-87-55	2	305	21587	68	393.8	55	47	424	7.28	195	5	15	2	119	49	74	11437	1	.03	.011	4	2	.01	16	.01	3	.02	.01	.01	87	31850
PD-87-56	1	626	2702	80	26.0	48	12	1123	4.53	16	5	ND	1	5	1	2	36	1	.04	.012	2	2	.05	32	.01	2	.09	.02	.02	1	425
PD-87-57	1	17	5220	48	65.0	19	8	3235	7.51	21	5	ND	6	6	1	2	133	1	.03	.026	10	1	.08	23	.01	2	.11	.01	.07	1	645
PD-87-58	1	434	736	63	2.4	42	51	1959	17.44	23	5	ND	3	8	1	2	2	13	.07	.057	2	1	.10	18	.01	7	.16	.04	.01	1	28
PD-87-59	1	97	2345	12	30.4	31	2	396	2.37	5	5	ND	1	2	1	2	71	1	.01	.003	2	4	.05	6	.01	2	.03	.02	.01	1	108
PD-87-60	1	64	321	18	1.1	29	8	198	2.15	9	5	ND	1	1	1	2	2	1	.01	.002	2	4	.02	3	.01	5	.02	.01	.01	1	16
PD-87-61	1	13	391	8	5.7	23	6	59	8.71	332	5	2	1	1	1	5	6	1	.01	.001	2	1	.01	3	.01	3	.01	.01	.01	1	3485
PD-87-62	1	35	4456	7	12.1	31	9	91	4.87	13	5	ND	1	4	1	2	14	1	.01	.001	2	4	.01	35	.01	6	.02	.01	.01	2	62
PD-87-63	1	7	107	4	.9	16	2	83	1.09	44	5	ND	2	1	1	2	2	1	.01	.003	5	3	.01	6	.01	4	.04	.01	.02	1	92
PD-87-64	1	12	67	12	.1	5	2	456	1.63	2	5	ND	1	3	1	2	2	1	.05	.004	2	4	.02	12	.01	2	.03	.01	.01	1	14
PD-87-65	2	105	24	238	.5	41	19	5288	32.98	26	5	ND	17	11	1	2	2	12	.03	.049	23	17	.25	123	.01	2	1.22	.02	.04	7	15
PD-87-66	2	54	29	63	.7	22	8	3899	44.62	227	5	ND	4	7	1	2	2	3	.01	.018	2	1	.07	33	.01	2	.15	.01	.01	3	12310
PD-87-67	2	481	29	63	3.8	26	12	2429	40.30	223	5	20	3	3	1	3	2	3	.01	.044	2	1	.09	10	.01	2	.10	.01	.01	5	35100
PD-87-68	3	74	21	388	.3	36	10	4130	34.62	8	5	ND	15	12	1	2	2	28	.03	.009	20	29	.87	34	.01	2	5.41	.03	.01	1	825
PD-87-69	2	737	38	102	1.7	22	10	3000	43.34	814	5	4	6	2	1	2	2	8	.01	.100	2	1	.06	53	.01	2	.38	.01	.02	6	2580
PD-87-70	2	470	27	118	.6	11	6	3324	37.03	81	5	ND	3	3	1	2	2	9	.01	.027	2	1	.05	13	.01	6	.24	.01	.05	4	1185
PD-87-71	1	510	26	70	.4	5	5	1462	38.01	13	5	ND	3	1	1	2	2	4	.01	.011	2	1	.04	15	.01	2	.17	.01	.01	2	59
PD-87-72	1	285	24	51	.1	8	5	1094	24.24	10	5	ND	4	2	1	2	2	3	.01	.015	3	1	.03	6	.01	7	.30	.01	.01	11	1220
PD-87-73	2	718	38	93	.5	15	45	1921	40.28	12	5	ND	4	3	1	2	2	6	.01	.010	2	1	.06	11	.01	2	.31	.01	.01	2	242
PD-87-74	1	424	19	77	.1	1	5	1304	30.41	11	5	ND	3	1	1	2	2	3	.01	.014	2	1	.03	12	.01	6	.16	.01	.01	2	53
PD-87-75	2	469	26	90	.8	12	7	4015	47.15	54	5	ND	5	4	1	2	2	3	.01	.043	2	1	.11	24	.01	2	.16	.01	.01	3	1320
STD C/AU-R	18	58	38	132	7.2	69	27	1025	3.84	38	24	7	39	51	18	18	21	57	.49	.084	38	58	.86	180	.08	37	1.82	.08	.13	13	520

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
PD-87-76	16	34	4066	14947	4.9	7	2	1484	2.79	11	5	ND	1	814	47	2	2	2	26.54	.012	4	1	.92	11	.01	3	.02	.01	.01	1	30
PD-87-77	17	84	1137	83686	7.5	3	2	557	1.06	22	5	ND	1	734	180	32	3	1	27.46	.007	2	1	.12	3	.01	2	.01	.01	.01	151	182
PD-87-78	23	51	20105	81176	46.8	9	2	2480	6.52	25	5	ND	1	220	404	33	3	4	5.65	.027	2	1	1.10	17	.01	3	.04	.01	.01	91	64
PD-87-80	2	8	22692	506	59.1	1	3	4353	8.39	26	5	ND	3	252	8	26	71	3	13.74	.063	3	1	3.29	6	.01	2	.03	.01	.01	705	24
PD-87-81	2	220	12781	1172	21.7	15	20	2801	11.69	19	5	ND	4	207	15	21	2	3	9.04	.030	2	3	1.85	7	.01	2	.07	.01	.03	927	18
PD-87-82	2	232	627	151	1.1	6	10	1867	8.04	5	5	ND	1	265	1	2	2	19	15.42	.007	2	1	2.07	38	.01	2	.02	.01	.01	46	6
PD-87-83	5	150	22243	5597	37.6	4	6	12806	10.19	23	5	ND	2	72	60	51	2	4	9.15	.070	2	1	.30	57	.01	2	.06	.01	.01	73	18
PD-87-85	1	1717	482	154	.7	27	26	220	50.89	19	5	ND	4	11	1	2	2	3	.28	.015	2	11	.15	13	.01	2	.08	.02	.01	6	30
PD-87-86	4	271	834	399	2.0	11	7	6990	25.51	56	12	ND	3	385	4	2	2	3	10.86	.016	3	1	1.10	8	.01	2	.06	.01	.01	5	148
STD C/AU-R	18	57	37	130	7.2	68	26	1023	3.97	36	18	7	38	49	18	17	21	56	.50	.083	37	58	.87	179	.08	32	1.85	.08	.13	12	480

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL/ASSAY CERTIFICATE

7)

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR- ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 24 1987 DATE REPORT MAILED: Oct 9/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4430A

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM
C 4925	6	889	291	99	.7	29	4	8597	30.75	18	5	ND	4	158	1	2	2	4
C 4926	3	177	709	80	1.7	18	18	5215	15.66	108	5	ND	3	491	1	2	2	3
C 4927	3	253	810	744	3.7	35	20	7839	12.84	113	5	ND	2	189	6	23	2	2
C 4928	4	615	49	73	.8	13	5	11545	17.60	10	5	ND	7	455	1	2	2	20
C 4929	7	378	16299	32293	40.8	26	34	5338	15.88	35	5	8	3	164	322	48	2	3
C 4930	2	48792	3292	1447	313.2	6256	108	1084	15.97	8229	22	402	2	7	22	42	2972	1
STD C	18	58	40	132	7.1	67	27	1027	3.94	39	18	7	39	49	17	17	22	56

SAMPLE#	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	CU %	PB %	ZN %	AG OZ/T	AU OZ/T
C 4925	3.55	.002	2	1	1.37	6	.01	2	1.10	.03	.01	4	-	-	-	.03	.001
C 4926	16.10	.013	2	1	1.23	15	.01	2	.06	.01	.01	1	-	-	-	.04	.015
C 4927	9.81	.064	2	1	2.50	6	.01	2	.11	.01	.01	1	-	-	-	.11	.026
C 4928	10.42	.002	2	3	1.84	6	.01	2	.17	.01	.01	1	-	-	-	.03	.004
C 4929	7.01	.030	2	1	1.79	11	.01	2	.07	.02	.02	37	-	4.49	3.87	1.25	.122
C 4930	.07	.001	2	1	.05	9	.01	4	.01	.02	.01	1	5.99	-	-	9.18	20.320
STD C	.49	.084	37	60	.87	176	.08	37	1.83	.08	.14	13	-	-	-	-	-

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 5 1987 DATE REPORT MAILED: Oct 13/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4630

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW87-51F	1	8	12	22	.1	4	2	349	1.72	9	5	ND	1	2	1	2	2	1	.01	.010	2	2	.01	19	.01	2	.06	.01	.02	1	98
JW87-52R	1	9	19	49	.1	32	7	2610	5.93	6	5	ND	1	2	1	3	2	2	.02	.015	6	2	.05	38	.01	2	.09	.01	.02	2	3
JW87-53	1	8	72	10	.3	10	3	1409	3.00	5	5	ND	4	18	1	2	2	1	.44	.013	5	3	.11	19	.01	3	.09	.02	.03	1	2
JW87-54F	2	11	12	47	.1	22	5	3399	9.97	14	5	ND	2	4	1	3	2	5	.01	.012	7	6	.08	53	.01	4	.08	.01	.03	1	31
JW87-55F	1	29	9	57	.1	19	8	3230	4.21	6	5	ND	3	26	1	2	2	6	.54	.029	6	9	.29	52	.01	3	.48	.02	.03	1	1
JW87-56R	1	5	25	15	.1	14	4	1497	4.12	15	5	ND	2	2	1	3	2	2	.01	.011	10	2	.05	20	.01	2	.10	.01	.04	1	1
JW87-57	3	3	10	4	.1	2	1	1511	2.80	2	5	ND	1	1165	1	4	2	1	40.36	.013	2	1	.73	6	.01	2	.01	.01	.01	4	3
JW87-58R	1	4	10	1	.1	7	2	783	1.23	13	5	ND	1	116	1	3	2	1	6.19	.005	2	2	.03	8	.01	3	.01	.01	.02	5	22
PD87-33	1	29	60 ✓	8	1.5 ✓	17	6	119	3.12	5915	5	7	1	48	1	3	2	1	1.15	.014	2	1	.03	6	.01	3	.02	.01	.02	2	11230
TE87-142F	6	56	25325	17542	141.1 ✓	8	11	7656	14.97	105	5	ND	1	150	153	44	199	2	12.21	.006	2	14	1.25	4	.01	3	.01	.01	.01	2	620
TE87-143R	1	74	639	77	1.4	6	9	1976	3.25	34	5	ND	1	1078	1	4	2	1	21.02	.014	2	1	.29	7	.01	3	.21	.01	.01	1	48
TE87-144R	2	185	45	214	.2	27	15	860	19.33	12	8	ND	17	60	2	2	5	39	1.79	.020	22	68	2.35	14	.01	2	6.89	.01	.02	1	2
TE87-145F	1	41	1000	147	1.5	6	4	424	1.31	3	5	ND	2	5	1	2	3	1	.26	.004	3	2	.03	6	.01	4	.06	.01	.01	1	7
TE87-146R	1	167	44	23	1.7	36	53	220	13.29	127	5	6	2	6	1	5	2	1	.09	.001	2	7	.04	7	.01	9	.08	.01	.02	1	4520
TE87-147R	1	15	588	18	4.2	12	8	49	6.21	522	5	2	3	5	1	2	32	2	.05	.002	7	3	.01	22	.01	6	.16	.01	.10	77	2250
TE87-148R	5	25	310	154	2.3	33	17	753	13.69	1218	5	ND	4	41	1	3	26	3	2.10	.016	2	18	.24	16	.01	16	.17	.01	.08	36	780
TE87-149R	1	30	405	218	3.4	35	26	564	18.59	2157	5	2	3	27	4	2	64	2	.89	.009	2	3	.32	8	.01	3	.11	.01	.04	68	3350
STD C/AU-R	18	58	38	132	7.0	67	27	1026	3.96	39	17	7	37	48	18	18	21	57	.45	.084	36	61	.91	173	.08	36	1.84	.05	.12	12	510

-SE sheet
SE sheet
TAILINGS FROM JACK O CLUBS LAKE

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 13 1987 DATE REPORT MAILED: Oct 22/87 ASSAYER. D. Toye ...DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4819 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW-87-59R	1	10	9	65	.4	45	13	1334	8.54	48	5	ND	3	7	1	3	3	3	.14	.026	5	4	.12	21	.01	2	.07	.01	.05	1	8
JW-87-60R	1	7	119	80	.6	10	5	43	1.22	110	5	ND	1	2	1	2	2	1	.01	.003	2	2	.01	1	.01	3	.02	.01	.01	12	775
JW-87-60F	1	6	12	10	.2	3	1	124	.81	6	5	ND	1	1	1	2	3	1	.01	.002	2	2	.01	3	.01	3	.01	.01	.01	1	8
JW-87-61R	1	8	3	14	.1	7	3	375	1.48	3	5	ND	3	4	1	2	2	1	.03	.012	9	4	.02	16	.01	2	.09	.02	.03	1	10
JW-87-61F	1	7	4	4	.1	1	1	253	.90	2	5	ND	1	4	1	2	3	1	.06	.029	2	2	.01	5	.01	2	.01	.01	.01	1	1
JW-87-64R	1	7	6	23	.1	5	5	542	2.72	18	5	ND	2	2	1	2	2	1	.01	.008	6	3	.02	12	.01	3	.05	.01	.02	1	35
JW-87-65R	1	7	5	17	.2	6	3	479	2.55	10	5	ND	1	3	1	2	2	1	.02	.003	3	3	.03	9	.01	4	.05	.01	.02	1	155
JW-87-66R	1	12	2	4	.1	1	1	121	.81	2	5	ND	1	1	1	2	2	1	.01	.002	2	3	.01	2	.01	6	.01	.01	.01	1	8
JW-87-67R	1	59	9	46	.3	2	6	6232	10.56	13	6	ND	1	239	2	5	2	3	18.25	.006	3	2	3.69	5	.01	2	.01	.01	.01	1	1
JW-87-68R	1	1	23	12	.2	1	1	972	1.36	2	5	ND	1	977	1	2	6	1	32.81	.020	2	1	1.16	3	.01	6	.01	.01	.01	1	1
JW-87-69F	1	9	10	13	.2	3	2	434	1.71	2	6	ND	1	8	1	2	2	1	.53	.005	2	2	.13	6	.01	3	.03	.01	.02	1	2
JW-87-70R	1	3	3	6	.2	1	1	335	.36	2	5	ND	1	284	1	2	2	1	8.20	.126	2	1	.07	6	.01	13	.08	.07	.01	1	1
JW-87-71R	1	7	8	16	.1	1	1	174	.46	2	5	ND	1	45	1	2	2	1	1.19	.023	2	1	.02	5	.01	2	.01	.01	.01	2	1
JW-87-72F	1	90	19	99	.1	11	19	2009	53.11	5	5	ND	6	7	1	5	2	2	.09	.056	3	8	.08	10	.01	2	.41	.01	.05	1	9
JW-87-73R	1	6	4	1	.1	1	1	57	.32	2	5	ND	1	1	1	2	3	1	.01	.001	2	2	.01	2	.01	2	.01	.01	.01	6	12
JW-87-73F	1	18	21	19	2.6	18	57	352	31.54	598	5	25	2	2	1	5	8	1	.01	.016	2	12	.03	5	.01	8	.03	.01	.02	1	21810
JW-87-74R	1	6	35	6	.5	2	2	435	1.25	11	5	ND	1	30	1	2	2	1	.50	.005	2	4	.01	14	.01	4	.03	.01	.01	188	585
JW-87-75R	1	53	12	39	.1	5	11	1096	4.32	10	5	ND	2	53	1	2	2	20	1.53	.032	3	3	.42	13	.01	2	.49	.02	.03	30	192
PD-87-87	37	136	494	57638	.4	10	7	1285	4.07	19	5	ND	1	449	87	3	2	1	12.74	.034	2	1	1.35	13	.01	3	.08	.01	.05	8	9
PD-87-88	4	379	2	856	.5	15	9	825	2.91	94	5	ND	1	8	1	2	2	1	.16	.003	2	3	.04	11	.01	3	.05	.01	.01	5	310
PD-87-89	2	283	11	849	.5	9	6	5875	9.81	17	5	ND	1	186	3	2	2	2	11.33	.011	2	3	.66	2	.01	2	.01	.01	.01	9	34
PD-87-90	1	85	118	86	.1	49	27	971	5.06	11	5	ND	3	8	1	2	2	12	.23	.035	17	6	.21	15	.01	2	.45	.01	.03	1	6
PD-87-91	1	11	15	109	.1	23	14	989	9.23	3	5	ND	2	8	1	2	3	2	.14	.098	2	3	.08	16	.01	3	.04	.01	.02	2	1
PD-87-92	1	7	25	109	.3	6	7	5552	11.84	25	5	ND	1	232	2	2	2	5	17.41	.073	4	3	1.62	7	.01	2	.03	.01	.06	9	17
PD-87-93	1	10	16	33	.2	6	10	1438	2.74	16	8	ND	1	1197	1	2	2	1	30.14	.017	3	1	.77	5	.01	3	.03	.01	.01	1	2
PD-87-94	1	7	14	44	.1	9	7	1202	3.85	26	5	ND	7	140	1	2	2	2	8.93	.043	12	4	.57	53	.01	5	.35	.06	.13	2	1
PD-87-95	1	79	24	70	.1	17	17	1102	5.31	12	5	ND	2	813	1	3	5	1	22.03	.018	3	2	.74	33	.01	2	.12	.02	.06	1	1
PD-87-96	1	277	40	45	.3	10	27	820	6.29	36	5	ND	1	219	1	3	2	8	7.75	.077	2	1	2.11	35	.01	2	.28	.05	.11	1	1
PD-87-97	1	212	9	68	.2	11	22	965	5.65	43	5	ND	1	284	1	2	2	7	10.06	.076	2	2	3.05	35	.01	6	.24	.03	.11	1	2
TE-87-150R	1	9	19037	36	261.6	1	2	2290	3.52	31	5	ND	1	85	85	1120	3	1	2.48	.003	2	1	.57	2	.01	4	.01	.01	.01	1	124
TE-87-151R	36	40	24257	48188	99.5	2	3	1794	3.10	18	5	ND	2	13	587	97	2	1	.30	.012	2	2	.03	7	.01	6	.06	.01	.02	4	169
TE-87-152R	1	7	175	208	.6	3	5	5426	8.00	16	6	ND	1	295	2	2	3	4	23.96	.010	3	2	2.32	12	.01	2	.03	.01	.01	1	1
TE-87-153R	36	1042	18328	56226	226.9	1	1	278	.91	23	5	ND	1	76	370	1041	2	1	.14	.010	2	1	.02	7	.01	4	.10	.01	.01	1	107
TE-87-154R	9	38	22852	7165	90.0	15	10	1640	5.99	62	5	ND	3	39	111	80	2	2	8.35	.061	3	4	.12	22	.01	6	.13	.01	.06	5	106
TE-87-155R	1	7	1480	165	2.6	3	2	99	1.51	135	5	ND	1	4	2	2	2	1	.13	.004	3	2	.01	5	.01	3	.06	.01	.02	4	325
TE-87-156R	6	251	21643	3310	114.4	139	58	626	22.92	1669	5	4	2	29	20	91	26	4	.05	.013	2	3	.04	11	.01	2	.01	.01	.02	6	5310
STD C/AU-R	20	60	40	132	7.5	69	28	1071	3.97	40	21	8	40	52	18	18	20	60	.47	.092	40	63	.89	179	.07	36	1.85	.06	.14	12	510

- ASSAY REQUIRED FOR CORRECT RESULT for Pb >10,000 PPM Zn > 20,000 PPM

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
TE-87-157R	48	65	18951	75453	82.1	31	24	10248	25.01	936	5	2	4	17	854	67	2	8	.19	.064	5	1	.04	23	.01	3	.09	.01	.07	5	3520
TE-87-158R	59	73	19963	99999	366.1	4	3	2260	6.48	95	5	ND	1	36	1565	532	7	1	.06	.008	2	1	.04	2	.01	2	.02	.01	.01	5	605
TE-87-159R	28	50	18190	31810	227.9	2	3	514	3.52	2198	5	2	1	18	295	1062	2	1	.06	.032	2	2	.01	3	.01	2	.03	.01	.01	2	820
TE-87-160R	40	51	20109	56716	354.8	2	2	139	2.03	118	5	3	1	5	168	440	2	1	.06	.035	2	1	.01	2	.01	2	.03	.01	.01	3	3460
TE-87-161R	19	135	20282	18484	275.7	1	3	484	4.66	327	5	ND	1	13	161	581	2	1	.02	.069	2	2	.01	7	.01	5	.07	.01	.02	5	750
TE-87-162R	10	14	4142	9499	6.0	19	6	859	1.88	185	5	ND	1	82	34	6	2	1	1.52	.003	5	1	.01	2	.01	9	.02	.01	.01	158	44
TE-87-163R	55	455	18772	98362	258.3	8	6	2978	6.92	256	5	ND	1	63	902	463	196	1	.17	.010	2	2	.03	2	.01	4	.01	.01	.01	3	605
TE-87-164R	11	24	13731	10900	33.2	12	8	3903	6.75	140	5	ND	1	70	138	31	4	2	12.17	.042	4	2	.36	19	.01	5	.10	.01	.06	3	65
TE-87-165R	4	14	5101	2521	11.1	8	4	392	1.45	61	5	ND	1	3	25	10	2	1	.04	.008	2	2	.01	4	.01	2	.01	.01	.01	33	114
TE-87-166R	4	21	21295	2041	88.5	7	8	771	5.00	1150	5	18	1	23	25	68	2	2	1.88	.012	2	3	.05	11	.01	11	.04	.01	.02	29	11980
TE-87-167R	2	5	20774	487	230.1	3	1	160	.45	58	5	ND	1	17	65	854	24	1	.01	.005	2	1	.01	2	.01	7	.01	.01	.01	5	202
TE-87-168R	7	37	21295	4631	74.6	18	12	1545	9.87	510	5	ND	2	21	45	60	18	2	1.49	.031	2	3	.03	4	.01	3	.01	.01	.01	1229	480
TE-87-169R	50	220	19439	87222	408.7	10	23	2000	15.79	268	5	3	3	33	1076	377	32	7	.36	.039	2	1	.04	7	.01	2	.01	.01	.04	1	3360
TE-87-170R	22	40	18656	23407	298.0	10	15	579	5.71	339	5	2	1	31	188	519	367	1	.91	.009	2	2	.06	4	.01	5	.02	.01	.01	2	1965
TE-87-171R	3	21	4630	1244	8.6	8	5	1551	2.43	9	5	ND	1	4	13	7	2	1	.04	.007	2	3	.05	29	.01	4	.14	.01	.02	9	38
TE-87-172R	1	10	1644	353	4.2	26	35	1078	9.15	38	5	ND	3	21	2	2	2	18	.65	.083	8	15	.35	59	.01	7	.68	.04	.08	1	17
TE-87-173R	1	4	474	160	.9	13	4	1445	4.50	11	5	ND	1	11	1	2	2	2	.32	.093	3	4	.06	25	.01	14	.14	.04	.01	5	11
STD C/AU-R	21	61	38	130	7.3	73	28	1114	3.99	42	20	8	40	55	20	18	22	61	.48	.098	42	59	.90	180	.07	37	1.88	.07	.15	12	525

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-ROCK/CORE P2-ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 16 1987 DATE REPORT MAILED: Oct 22/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4942 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW87-39R	1	206	2	33	.1	19	25	1316	7.02	9	5	ND	1	175	1	2	3	11	8.95	.074	3	4	1.74	54	.01	6	.32	.04	.14	1	1
JW87-76F	1	6	2	34	.1	13	7	1181	4.78	5	5	ND	1	3	1	2	2	1	.04	.014	2	5	.06	17	.01	2	.07	.01	.03	1	1
JW87-77F	1	1	3	17	.1	3	1	397	1.03	2	5	ND	1	2	1	2	2	1	.01	.007	2	4	.01	9	.01	7	.04	.01	.02	1	1
JW87-78R	1	41	2	21	.1	41	14	480	3.50	5	5	ND	1	5	1	2	2	1	.03	.011	3	3	.03	12	.01	2	.08	.02	.03	1	1
JW87-79F	1	18	27	11	.2	7	3	265	1.01	4	5	ND	1	2	1	2	2	1	.01	.009	2	3	.01	7	.01	3	.06	.01	.02	1	1
JW87-80F	1	4	2	1	.1	1	1	91	.56	2	5	ND	1	1	1	2	2	1	.01	.004	2	1	.01	2	.01	2	.03	.01	.01	1	1
JW87-81R	1	7	5	9	.1	30	7	117	1.74	90	5	ND	5	4	1	2	2	1	.03	.012	18	4	.01	24	.01	2	.20	.02	.09	1	65
JW87-82R	1	6	2	10	.1	16	5	218	1.58	17	5	ND	3	10	1	2	2	1	.29	.012	8	3	.07	16	.01	3	.11	.01	.05	1	18
JW87-83F	1	15	2	12	.1	10	3	600	1.98	2	5	ND	1	7	1	2	2	1	.08	.050	2	3	.12	8	.01	8	.23	.01	.02	1	1
JW87-84R	2	20	1950	821	4.2	13	6	757	2.83	32	5	ND	4	3	1	5	2	1	.02	.012	8	4	.01	9	.01	5	.15	.02	.03	83	99
JW87-85R	1	4	2	3	.1	6	3	449	1.16	9	5	ND	1	1	1	2	2	1	.01	.005	2	2	.01	18	.01	9	.03	.01	.01	1	3
JW87-86R	1	5	23	10	.3	6	1	75	.84	42	5	ND	1	1	1	2	2	1	.01	.004	2	2	.01	3	.01	7	.03	.01	.01	1	260
JW87-87F	1	4	6	10	.1	2	1	1432	2.17	5	5	ND	1	447	1	5	2	1	12.30	.005	3	1	1.17	7	.01	7	.01	.01	.01	1	1
JW87-88R	2	28	9	8	.1	11	4	219	.98	2	5	ND	1	4	1	2	2	15	.06	.014	2	14	.29	7	.01	2	.33	.02	.01	1	5
JW87-89F	1	4	2	1	.2	3	1	177	.66	2	5	ND	1	4	1	2	2	1	.08	.003	2	2	.01	3	.01	6	.03	.01	.01	1	1
PD87-98	2	48	8	48	.1	55	14	281	3.50	35	5	ND	10	18	1	2	4	2	.36	.034	14	5	.93	32	.01	2	.30	.01	.17	1	1
PD87-99	2	41	17	55	.1	49	31	566	6.13	105	5	ND	10	19	1	2	2	2	.19	.042	18	5	.96	24	.01	3	.23	.01	.12	1	450
PD87-100	1	30	32	32	:3	10	7	1968	3.30	25	5	ND	1	1477	1	2	4	1	31.21	.011	2	1	.45	22	.01	3	.05	.01	.02	1	1
PD87-101	1	1022	15	93	.1	70	16	3988	33.27	10	5	ND	4	247	2	2	2	6	3.30	.012	2	6	1.52	4	.01	2	.27	.01	.03	1	15
PD87-101 A	1	22	10	26	.1	14	7	1053	3.34	18	5	ND	3	419	1	7	3	1	13.14	.027	7	4	1.25	129	.01	3	.25	.02	.13	1	1
PD87-102	1	66	74	397	.1	112	18	917	4.23	19	5	ND	1	50	4	2	2	6	1.86	.094	4	14	.16	52	.01	14	.22	.01	.08	1	1
PD87-102 A	4	167	9	5	.1	45	26	262	3.58	2	5	ND	6	30	1	2	2	1	.81	.036	8	3	.30	28	.01	2	.25	.03	.10	1	4
PD87-103	1	7	11	10	.2	3	2	749	1.47	6	5	ND	1	1173	1	2	6	1	34.44	.014	4	1	1.23	9	.01	2	.02	.01	.01	1	3
PD87-103 A	1	95	122	46	.6	48	17	604	3.94	2	5	ND	5	107	1	2	3	4	2.82	.039	7	9	1.10	43	.01	5	.59	.02	.13	1	1
PD87-104	1	24	19	32	.2	9	5	597	1.82	8	5	ND	3	887	1	2	8	1	25.94	.024	3	1	.65	45	.01	2	.13	.01	.07	1	1
PD87-105	1	5527	7	101	4.3	49	70	5320	19.42	5	6	ND	1	142	2	2	2	11	9.57	.014	11	6	.35	9	.01	2	.57	.01	.02	6	35
PD87-106	1	90	13	22	.1	5	8	3730	5.52	3	5	ND	1	1319	1	2	2	1	27.08	.015	3	3	.38	3	.01	2	.32	.01	.01	1	1
PD87-107	1	650	376	60	2.5	102	15	2746	50.27	2	5	ND	5	11	1	5	6	1	.07	.017	3	9	.18	4	.01	4	1.06	.01	.03	1	6
PD87-108	1	360	5	60	.3	21	9	510	3.44	2	5	ND	6	5	1	2	2	2	.12	.008	9	8	.48	18	.01	3	.60	.01	.07	1	1
PD87-109	1	111	10	44	.1	23	12	372	4.17	7	5	ND	9	8	1	2	5	11	.14	.033	21	19	.81	41	.01	3	1.59	.01	.07	1	1
PD87-501	2	453	142	145	3.1	101	142	319	20.78	140	5	ND	3	17	1	5	6	4	.32	.009	2	2	.09	5	.01	2	.02	.01	.04	1	1
TE87-174R	1	11	2	1	.1	5	3	91	.64	5	5	ND	1	1	1	2	2	1	.01	.002	2	1	.01	2	.01	2	.02	.01	.01	1	3
TE87-175F	1	92	2449	32	16.4	178	63	445	7.34	85	5	ND	1	1	1	2	26	1	.01	.004	2	2	.02	5	.01	2	.01	.01	.01	1	115
TE87-176R	1	47	6	21	.3	9	3	220	1.78	96	5	ND	4	7	1	2	2	1	.19	.012	8	3	.02	15	.01	5	.10	.01	.05	1	940
TE87-177R	1	11	44	19	.3	8	4	190	1.75	77	5	ND	3	1	1	2	2	1	.01	.005	6	3	.01	16	.01	4	.09	.01	.05	1	13
TE87-178R	1	4	8	15	.1	38	15	472	2.54	30	5	ND	4	6	1	2	2	1	.04	.026	12	2	.02	18	.01	24	.11	.01	.05	1	16
STD C/AU-R	20	59	42	128	7.5	71	28	1205	4.05	40	18	8	38	54	19	17	20	59	.48	.094	40	63	.90	175	.07	34	1.88	.06	.14	12	510

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
TE87-179R	1	4	2653	45	5.0	4	1	50	.70	98	5	ND	1	3	1	2	5	1	.01	.001	2	2	.01	4	.01	2	.03	.01	.02	1	49
TE87-180F	1	3	21	36	.1	6	4	2628	5.47	9	5	ND	1	493	1	4	2	1	17.81	.014	4	3	3.07	6	.01	2	.01	.01	.02	1	1
TE87-181F	2	48	25909	96	117.3	13	2	169	.45	23	5	ND	1	22	10	109	3	1	.39	.015	2	1	.01	3	.01	2	.01	.01	.01	1	4
TE87-182F	1	5	132	2	.3	5	2	53	.61	4	5	ND	1	1	1	2	2	1	.01	.002	2	2	.01	3	.01	4	.02	.01	.01	1	1
TE87-183F	1	8	69	22	.3	6	4	1024	2.69	2	5	ND	1	650	1	2	4	1	27.17	.020	4	3	1.79	4	.01	2	.02	.01	.01	1	1
TE87-184F	1	7	152	79	.2	46	17	2165	7.03	17	5	ND	1	334	1	2	2	14	14.38	.018	2	17	4.10	13	.01	2	.05	.01	.03	1	1
TE87-185F	6	15	149	11	.9	70	47	201	17.90	367	5	ND	1	9	1	2	2	3	.22	.003	2	1	.05	3	.01	2	.01	.01	.01	1	2
TE87-186R	1	229	15	59	.4	13	31	1186	6.71	56	5	ND	3	152	1	2	3	12	4.16	.097	4	2	.99	38	.01	5	.18	.04	.06	1	12
TE87-187R	1	61	12	62	.1	8	14	1172	6.23	29	5	ND	2	307	1	2	2	25	6.79	.115	4	2	1.35	39	.01	3	.13	.03	.05	1	1
TE87-188R	1	99	11	85	.1	8	27	1250	7.99	9	5	ND	4	103	1	2	3	14	3.75	.093	6	1	1.17	29	.01	2	.20	.05	.05	1	1
TE87-189R	1	3	10	38	.2	8	4	1451	3.68	10	5	ND	1	702	1	3	2	1	24.58	.013	5	3	6.52	12	.01	2	.02	.01	.01	1	1
TE87-190R	1	21	23	29	.2	8	4	433	1.45	7	5	ND	2	1190	1	2	6	1	26.59	.015	3	2	.62	29	.01	2	.07	.01	.04	1	42
STD C/AU-R	20	62	37	133	7.6	73	29	1049	4.04	41	20	8	39	55	19	18	18	61	.49	.092	41	58	.90	182	.07	37	1.88	.07	.14	12	485

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK/CORE AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 28 1987 DATE REPORT MAILED: Nov 4/87 ASSAYER. ......DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5248

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
JW-87-90F	1	5	13	50	.1	5	2	1042	1.77	11	5	ND	1	22	1	2	2	1	.36	.012	2	3	.10	397	.01	2	.03	.02	.01	2	2
JW-87-91F	2	34	4	70	.7	84	18	852	4.37	5	5	ND	5	269	1	2	2	89	2.88	.215	16	81	3.14	1136	.14	4	1.80	.22	.41	1	3
JW-87-92R	1	4	91	17	.6	4	2	412	1.25	2	5	ND	1	14	1	3	2	1	.49	.010	2	4	.07	20	.01	2	.03	.02	.01	1	2
JW-87-93R	1	3	7	64	.2	10	4	1103	6.53	6	5	ND	2	10	1	2	2	1	.21	.020	2	3	.93	9	.01	3	.01	.02	.01	1	4
JW-87-94R	1	12	8	24	.1	17	5	586	2.47	4	5	ND	8	15	1	2	3	4	.33	.015	10	8	.26	58	.01	2	.23	.04	.03	1	5
JW-87-95R	1	16	2	24	.1	11	4	422	1.96	2	5	ND	13	8	1	2	2	5	.35	.018	12	15	.39	56	.01	2	.43	.04	.01	2	2
JW-87-96R	1	4	2	5	.1	12	3	282	1.25	108	5	ND	1	3	1	2	2	1	.04	.001	2	3	.01	17	.01	2	.02	.01	.01	1	142
JW-87-97F	1	19	81	113	.7	246	13	104	11.28	417	5	ND	1	2	1	2	2	1	.03	.001	2	1	.02	10	.01	2	.01	.01	.01	1	1540
PD-87-110	4	103	24	57	.9	20	18	9177	27.49	38	5	ND	4	64	1	2	2	3	3.69	.010	2	1	1.85	5	.01	2	.15	.01	.03	2	45
PD-87-111	5	83	30	91	.1	33	9	9766	41.96	33	5	ND	5	12	1	2	2	4	.30	.011	2	1	.93	6	.01	2	.26	.03	.03	2	110
PD-87-112	6	160	27	53	1.2	25	7	5924	33.52	3	5	ND	3	164	1	2	2	3	3.66	.004	2	1	1.29	7	.01	2	.16	.02	.01	2	6
PD-87-113	2	188	18	37	1.0	15	7	3099	27.35	4	5	ND	3	69	1	2	3	3	1.68	.002	2	1	.51	7	.01	2	.08	.03	.01	3	5
PD-87-114	4	65	19	131	.7	17	6	5285	22.31	8	5	ND	3	417	1	2	2	12	8.85	.001	2	1	1.48	6	.01	2	1.61	.01	.02	2	19
PD-87-115	1	131	22	40	1.3	2	3	766	32.16	2	5	ND	14	12	1	2	10	4	.04	.010	6	1	.03	7	.01	2	.17	.03	.07	3	9
PD-87-115A	2	15	2	6	.2	5	1	391	2.60	2	12	ND	1	17	1	2	2	1	.36	.001	2	4	.07	2	.01	2	.05	.02	.01	1	34
PD-87-116	2	247	22	49	1.3	22	4	5252	30.08	6	5	ND	5	116	1	2	6	3	3.41	.024	2	2	1.11	5	.01	2	.47	.02	.05	2	8
PD-87-118	4	80	17	56	.7	25	62	8885	23.38	14	5	ND	3	111	1	2	2	2	5.96	.003	2	1	1.92	2	.01	2	.04	.01	.01	2	9
PD-87-119	2	36	15	163	.5	926	96	3130	12.10	1855	5	ND	2	213	1	2	2	18	4.37	.041	3	244	5.05	22	.01	2	.90	.05	.07	2	7
56351	1	199	39	32	2.3	1032	35	1231	4.98	395	5	5	1	47	1	2	26	2	1.62	.001	2	12	.55	5	.01	2	.05	.02	.01	1	8610
STD C/AU-R	19	59	39	132	7:2	68	27	1029	3.97	42	23	7	39	49	17	18	21	56	.47	.087	37	61	.87	176	.08	34	1.78	.08	.13	12	515

SOIL ANALYSES

Cunningham Creek.

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

EXTRA COPY

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 TO P6-SOIL P7-ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 28 1987 DATE REPORT MAILED: Sept 8/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT 4203 File # 87-3707 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 5+50W 0+00	2	47	37	106	.1	56	19	684	5.26	43	5	ND	7	12	1	2	2	15	.14	.051	33	23	.44	79	.01	2	1.08	.01	.06	6	52
CC 5+50W 0+10S	1	49	31	88	.1	44	21	828	4.81	19	5	ND	8	16	1	2	4	24	.23	.070	32	21	.58	58	.01	2	1.12	.01	.05	2	37
CC 5+50W 0+20S	1	44	49	95	.1	43	19	754	4.98	32	5	ND	4	12	1	6	2	19	.14	.045	26	22	.49	77	.01	2	1.31	.01	.05	5	27
CC 5+50W 0+30S	1	51	54	108	.1	34	19	853	5.42	26	5	ND	3	11	1	2	2	31	.13	.065	22	22	.54	72	.01	2	1.54	.01	.07	2	28
CC 5+50W 0+40S	1	23	29	51	.2	24	8	197	3.86	21	5	ND	1	4	1	2	2	20	.02	.043	20	24	.33	39	.01	2	1.18	.01	.03	2	1
CC 5+50W 0+50S	1	24	29	66	.1	32	8	157	4.50	13	5	ND	1	9	1	2	2	23	.11	.058	21	33	.46	36	.02	2	1.43	.01	.03	1	1
CC 5+50W 0+60S	1	39	28	91	.1	42	16	418	5.05	19	5	ND	3	6	1	2	2	24	.04	.034	25	34	.57	78	.01	3	1.44	.01	.04	1	17
CC 5+50W 0+70S	1	16	15	47	.1	16	7	127	2.98	13	5	ND	1	6	1	2	2	24	.02	.032	20	19	.19	50	.01	2	.97	.01	.03	2	1
CC 5+50W 0+80S	1	24	30	125	.1	24	16	1112	4.89	19	5	ND	1	29	1	3	2	30	.39	.054	19	28	.37	61	.02	2	1.54	.01	.05	1	1
CC 5+50W 0+90S	1	23	34	94	.2	15	12	967	4.24	15	5	ND	1	49	1	2	2	21	.75	.065	15	21	.25	51	.01	2	1.15	.01	.04	1	3
CC 5+50W 1+00S	1	25	30	78	.1	17	15	639	4.28	11	5	ND	1	20	1	2	2	22	.25	.052	17	20	.21	34	.01	2	1.15	.01	.03	1	3
CC 5+50W 1+10S	1	12	25	25	.1	7	4	143	2.21	10	5	ND	1	4	1	2	2	17	.01	.029	20	10	.11	22	.01	2	.62	.01	.02	1	5
CC 5+50W 1+20S	1	136	79	137	.3	36	32	1172	7.10	25	5	ND	2	6	1	4	2	10	.02	.050	24	12	.19	41	.01	2	.86	.01	.04	5	29
CC 5+50W 1+30S	1	16	91	51	.3	10	7	777	3.38	11	5	ND	1	5	1	2	2	20	.01	.048	19	13	.12	28	.01	2	.67	.01	.03	3	270
CC 5+50W 1+40S	1	18	27	41	.1	9	7	440	3.70	8	5	ND	1	4	1	5	2	22	.01	.053	17	14	.12	27	.01	2	.68	.01	.02	1	545
CC 5+50W 1+50S	1	18	25	42	.1	13	7	336	4.11	12	5	ND	1	4	1	2	2	24	.01	.046	19	16	.16	32	.01	2	.80	.01	.03	1	1
CC 5+50W 1+60S	1	23	20	74	.3	16	9	455	4.71	15	5	ND	1	9	1	2	2	21	.08	.061	17	16	.22	33	.01	2	.90	.01	.03	1	5
CC 5+50W 1+70S	1	61	57	115	.1	41	25	1962	7.70	26	5	ND	2	18	1	2	4	23	.21	.080	20	19	.38	57	.01	6	1.29	.01	.04	2	71
CC 5+50W 1+80S	1	25	42	59	.1	14	8	333	4.64	16	5	ND	1	11	1	2	2	22	.10	.049	16	15	.15	36	.01	10	.80	.01	.03	1	3
CC 5+50W 1+90S	1	61	27	90	.1	33	20	1201	5.69	16	5	ND	9	27	1	3	2	21	.54	.076	23	17	.46	69	.04	12	.86	.01	.05	1	5
CC 5+50W 2+00S	1	36	8	62	.1	8	13	1310	5.80	9	5	ND	1	5	1	2	2	78	.02	.060	16	16	.61	63	.02	2	1.77	.01	.03	1	2
CC 5+50W 2+10S	1	21	18	75	.1	25	12	775	5.93	5	5	ND	1	5	1	2	2	36	.01	.061	18	25	.37	55	.01	2	1.42	.01	.03	1	1
CC 5+50W 2+20S	1	133	30	90	.4	14	20	1363	6.97	9	5	ND	1	8	1	3	7	27	.02	.082	27	19	.19	59	.01	2	1.19	.01	.04	1	5
CC 5+50W 2+30S	1	46	21	82	.1	17	13	434	6.17	11	5	ND	1	10	1	2	2	34	.04	.054	23	24	.25	45	.02	2	1.45	.01	.04	1	10
CC 5+50W 2+40S	1	76	40	115	.5	27	22	2318	8.49	28	5	ND	2	34	1	4	2	27	.70	.076	21	21	.25	71	.02	2	1.24	.01	.04	1	1
CC 5+50W 2+50S	2	64	46	132	.7	29	17	4400	5.12	49	5	ND	1	49	1	2	2	23	.91	.103	18	18	.24	151	.01	2	1.16	.01	.04	1	3
CC 5+50W 2+60S	1	24	15	74	.2	17	10	442	6.19	7	5	ND	2	8	1	2	2	29	.07	.061	20	22	.29	47	.01	2	1.40	.01	.03	1	4
CC 5+50W 2+70S	3	26	103	207	.1	24	21	12228	8.83	13	5	ND	1	32	1	2	7	26	.42	.138	20	13	.13	222	.01	2	1.28	.01	.04	1	1
CC 5+50W 2+80S	1	15	70	58	.1	12	10	385	6.39	16	5	ND	1	4	1	2	2	18	.01	.049	19	12	.06	39	.01	2	.76	.01	.02	1	14
CC 5+50W 2+90S	2	24	311	219	.4	25	16	11966	5.59	31	5	ND	1	245	1	2	2	14	4.39	.206	17	10	.09	286	.01	3	1.02	.01	.04	1	2
CC 5+50W 3+00S	1	18	96	105	.1	23	16	1526	6.54	25	5	ND	1	18	1	2	2	13	.19	.097	22	11	.07	43	.01	2	.99	.01	.02	1	5
CC 4+50W 0+00	2	29	38	159	.3	41	16	265	5.18	32	5	ND	5	37	1	2	2	11	.55	.084	18	21	.39	38	.01	2	1.06	.01	.04	7	153
CC 4+50W 0+10S	2	46	50	130	.4	35	16	823	5.06	43	5	ND	3	61	1	2	2	20	.95	.089	16	21	.34	71	.01	2	1.22	.01	.05	2	13
CC 4+50W 0+20S	2	32	41	148	.2	39	17	1034	4.76	37	5	ND	2	29	1	2	2	16	.32	.114	18	22	.37	96	.01	5	1.32	.01	.07	2	20
CC 4+50W 0+30S	2	26	47	89	.7	26	13	378	4.64	24	5	ND	1	26	1	3	2	23	.28	.087	18	22	.20	73	.01	2	1.26	.01	.07	4	15
CC 4+50W 0+40S	1	26	21	81	.3	29	12	335	4.26	32	5	ND	1	9	1	2	2	15	.06	.052	21	19	.33	75	.01	2	1.10	.01	.07	1	18
STD C/AU-S	19	61	39	132	7.1	68	27	1025	4.05	40	23	8	36	48	17	15	21	55	.49	.084	36	58	.89	173	.08	33	1.82	.06	.14	11	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM
CC 4+50W 0+50S	1	33	37	79	.1	31	15	434	4.52	35	5	ND	4	7
CC 4+50W 0+60S	1	54	90	127	.4	48	18	981	5.14	21	5	ND	5	18
STD C/AU-S	19	60	38	136	7.4	70	30	1071	4.02	39	23	8	36	49
CC 4+50W 0+70S	2	36	31	98	.1	38	13	319	5.16	21	5	ND	4	5
CC 4+50W 0+80S	1	20	18	41	.3	14	6	253	4.48	12	5	ND	1	5
CC 4+50W 0+90S	1	16	25	46	.1	18	7	163	3.63	11	5	ND	1	4
CC 4+50W 1+00S	1	12	19	27	.3	11	4	101	2.72	11	5	ND	1	4
CC 4+50W 1+10S	2	29	41	67	.2	25	11	1010	5.23	18	5	ND	1	5
CC 4+50W 1+20S	1	17	16	33	.1	5	5	344	2.79	12	5	ND	1	4
CC 4+50W 1+30S	1	47	25	80	.6	29	18	1905	5.83	20	5	ND	1	5
CC 4+50W 1+40S	1	18	22	40	.3	11	8	1374	3.54	8	5	ND	1	5
CC 4+50W 1+50S	1	12	20	33	.1	7	5	884	2.66	7	5	ND	1	5
CC 4+50W 1+60S	1	32	184	240	.3	23	12	577	4.97	16	5	ND	1	6
CC 4+50W 1+70S	1	33	67	125	.2	36	22	1465	9.57	5	5	ND	1	3
CC 4+50W 1+80S	1	27	25	50	.1	16	9	490	5.64	10	5	ND	1	3
CC 4+50W 1+90S	1	17	34	33	.1	8	5	499	4.03	6	5	ND	1	4
CC 4+50W 2+00S	2	71	60	87	.5	23	19	4017	10.11	51	5	ND	1	5
CC 4+50W 2+10S	1	27	40	71	.4	16	12	1800	5.88	17	5	ND	1	6
CC 4+50W 2+20S	1	32	44	64	.1	7	10	634	5.58	17	5	ND	1	4
CC 4+50W 2+30S	1	36	26	53	.1	9	10	388	5.18	10	5	ND	1	4
CC 4+50W 2+40S	1	13	25	66	.1	11	12	958	4.53	6	5	ND	1	14
CC 4+50W 2+50S	1	14	11	150	.1	33	18	586	6.31	9	5	ND	1	15
CC 4+50W 2+60S	1	40	28	111	.1	14	15	3474	4.66	7	5	ND	1	28
CC 4+50W 2+70S	1	47	18	78	.2	12	18	838	6.66	10	5	ND	1	14
CC 4+50W 2+80S	1	64	24	86	.1	15	19	1908	6.88	10	5	ND	1	7
CC 4+50W 2+90S	1	22	24	47	.1	14	8	835	4.13	10	5	ND	1	5
CC 4+50W 3+00S	1	45	32	76	.4	19	16	1949	5.51	15	5	ND	1	9
CC 3+50W 0+00	2	31	64	220	.6	38	17	1297	4.61	29	5	ND	1	19
CC 3+50W 0+10S	1	22	42	86	.6	21	10	469	4.22	25	5	ND	1	9
CC 3+50W 0+20S	2	23	41	76	.1	24	11	454	4.89	31	5	ND	1	8
CC 3+50W 0+30S	1	16	32	44	.1	16	6	250	3.53	21	5	ND	1	6
CC 3+50W 0+40S	2	32	28	88	.7	30	12	728	5.30	26	5	ND	1	9
CC 3+50W 0+50S	2	23	48	85	.6	24	16	1934	3.85	17	5	ND	1	17
CC 3+50W 0+60S	2	32	50	111	.9	36	16	1255	4.70	27	5	ND	1	31
CC 3+50W 0+70S	1	46	30	92	.2	57	20	678	4.98	47	5	ND	6	10
CC 3+50W 0+80S	1	77	105	128	.4	47	20	1064	5.62	22	5	ND	4	27
CC 3+50W 0+90S	1	102	65	118	.4	50	23	1475	6.38	11	5	ND	10	30

SAMPLE#	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 4+50W 0+50S	1	2	2	18	.04	.050	27	21	.46	75	.01	2	1.21	.01	.05	4	29
CC 4+50W 0+60S	1	2	2	23	.23	.069	31	25	.53	84	.03	2	1.19	.01	.05	6	18
STD C/AU-S	19	16	20	56	.52	.085	37	61	.93	174	.08	37	1.80	.06	.13	14	48
CC 4+50W 0+70S	1	2	2	22	.01	.048	30	37	.59	41	.01	2	1.62	.01	.06	1	25
CC 4+50W 0+80S	1	2	2	26	.01	.070	21	27	.25	36	.01	2	1.07	.01	.05	2	32
CC 4+50W 0+90S	1	3	2	21	.01	.074	24	27	.30	31	.01	2	.98	.01	.04	1	14
CC 4+50W 1+00S	1	2	2	19	.01	.047	21	17	.14	20	.01	16	.74	.01	.02	1	4
CC 4+50W 1+10S	1	3	2	23	.01	.110	26	24	.26	24	.01	2	.89	.01	.04	1	13
CC 4+50W 1+20S	1	4	2	16	.01	.068	19	15	.11	22	.01	2	.63	.01	.02	1	21
CC 4+50W 1+30S	1	2	2	24	.02	.078	22	26	.38	43	.01	2	1.13	.01	.03	1	33
CC 4+50W 1+40S	1	2	2	22	.01	.074	21	18	.14	50	.01	3	.80	.01	.04	2	17
CC 4+50W 1+50S	1	2	2	25	.01	.049	23	11	.09	37	.01	2	.62	.01	.03	4	400
CC 4+50W 1+60S	2	2	2	21	.05	.062	20	23	.29	34	.01	3	1.20	.01	.03	1	10
CC 4+50W 1+70S	1	4	2	10	.01	.090	19	8	.05	21	.01	2	.49	.01	.02	1	1
CC 4+50W 1+80S	1	2	2	12	.01	.067	28	8	.04	21	.01	2	.47	.01	.02	1	1
CC 4+50W 1+90S	1	2	2	11	.01	.065	22	6	.03	24	.01	2	.38	.01	.03	6	9
CC 4+50W 2+00S	1	2	2	24	.01	.093	14	11	.08	56	.01	4	.65	.01	.03	8	17
CC 4+50W 2+10S	1	2	2	29	.01	.074	19	17	.11	64	.01	2	1.01	.01	.03	3	1
CC 4+50W 2+20S	1	2	2	26	.01	.073	11	9	.06	28	.01	2	.55	.01	.01	2	1
CC 4+50W 2+30S	1	2	2	20	.01	.064	12	9	.04	26	.01	2	.40	.01	.02	1	1
CC 4+50W 2+40S	1	2	2	31	.27	.073	13	22	.15	70	.02	12	.93	.01	.04	1	1
CC 4+50W 2+50S	1	2	2	28	.23	.108	18	33	.86	69	.01	2	2.09	.01	.04	1	1
CC 4+50W 2+60S	1	2	2	49	.50	.094	21	21	.48	93	.02	3	1.62	.01	.05	1	1
CC 4+50W 2+70S	1	2	3	82	.19	.069	12	18	.85	41	.02	2	1.90	.01	.03	1	1
CC 4+50W 2+80S	1	2	2	44	.06	.102	12	15	.32	56	.01	3	1.14	.01	.03	1	2
CC 4+50W 2+90S	1	2	2	28	.01	.080	18	16	.17	38	.01	2	.93	.01	.04	1	1
CC 4+50W 3+00S	1	2	2	28	.10	.087	18	16	.28	59	.01	2	1.04	.01	.03	1	1
CC 3+50W 0+00	2	4	2	14	.29	.089	18	20	.28	45	.01	2	.99	.01	.06	9	45
CC 3+50W 0+10S	1	5	2	19	.04	.077	21	18	.16	42	.01	3	.88	.01	.06	5	18
CC 3+50W 0+20S	1	2	2	18	.09	.106	22	20	.19	42	.01	2	.86	.01	.05	7	24
CC 3+50W 0+30S	1	2	2	20	.03	.067	24	18	.15	34	.01	2	.68	.01	.04	4	33
CC 3+50W 0+40S	1	2	3	20	.10	.064	26	27	.27	52	.01	2	1.20	.01	.05	5	12
CC 3+50W 0+50S	1	2	3	23	.15	.099	20	22	.23	94	.01	3	1.16	.01	.08	1	14
CC 3+50W 0+60S	1	2	2	24	.33	.126	20	26	.34	85	.01	3	1.48	.01	.09	1	8
CC 3+50W 0+70S	1	3	2	11	.06	.041	34	20	.43	90	.01	7	.99	.01	.06	2	47
CC 3+50W 0+80S	1	2	2	45	.38	.077	24	24	.71	65	.03	4	1.53	.01	.05	7	5
CC 3+50W 0+90S	1	5	2	33	.35	.064	33	24	.95	117	.02	2	1.94	.01	.06	3	8

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 3+50W 1+00S	3	31	35	95	.3	33	16	620	7.70	23	5	ND	2	4	1	4	3	22	.01	.072	19	33	.39	32	.01	2	1.43	.01	.02	1	10
CC 3+50W 1+10S	2	11	17	35	.3	10	4	176	2.76	6	5	ND	1	5	1	2	3	17	.06	.055	17	16	.17	27	.01	2	.71	.01	.02	3	6
CC 3+50W 1+20S	2	51	58	133	.5	45	21	1657	5.70	21	5	ND	2	34	1	3	2	19	.60	.111	20	23	.51	69	.01	2	1.16	.01	.04	1	15
CC 3+50W 1+30S	1	20	27	45	.4	12	6	374	4.68	14	5	ND	1	7	1	2	2	25	.08	.060	17	18	.17	39	.01	2	.85	.01	.02	2	2
CC 3+50W 1+40S	1	16	20	40	.5	10	5	413	4.06	9	5	ND	1	5	1	2	2	23	.02	.070	18	16	.14	34	.01	2	.79	.01	.03	2	11
CC 3+50W 1+50S	1	16	23	31	.3	6	4	285	3.22	9	5	ND	1	4	1	2	2	21	.01	.060	20	14	.12	28	.01	2	.72	.01	.02	1	27
CC 3+50W 1+60S	1	24	23	38	.3	10	10	930	3.90	15	5	ND	1	4	1	2	2	18	.01	.058	19	11	.12	27	.01	3	.72	.01	.03	1	4
CC 3+50W 1+70S	3	30	144	130	.3	29	18	2198	6.41	18	5	ND	1	10	1	6	2	21	.14	.138	17	19	.28	42	.01	2	1.35	.01	.03	2	14
CC 3+50W 1+80S	2	33	71	138	.2	22	15	3003	5.67	20	5	ND	1	24	1	4	3	19	.34	.157	15	17	.24	73	.01	4	1.24	.01	.03	1	5
CC 3+50W 1+90S	2	42	47	99	.8	24	18	1986	6.34	18	5	ND	1	48	1	2	2	25	.93	.097	12	19	.18	59	.01	2	1.05	.01	.03	1	24
CC 3+50W 2+00S	1	54	35	104	.3	21	15	1076	7.70	13	5	ND	1	6	1	2	2	27	.04	.088	17	16	.23	60	.01	2	1.01	.01	.02	1	8
CC 3+50W 2+10S	2	42	46	82	.4	23	16	1268	6.94	19	5	ND	1	4	1	6	6	21	.02	.077	19	17	.22	48	.01	2	1.06	.01	.02	3	2
CC 3+50W 2+20S	2	45	45	89	.4	24	15	1456	6.84	17	5	ND	1	5	1	5	7	21	.04	.082	18	15	.20	47	.01	4	1.03	.01	.03	1	1
CC 3+50W 2+30S	1	30	21	49	.3	10	8	1394	3.97	9	5	ND	1	4	1	8	2	20	.01	.078	18	13	.12	51	.01	2	.83	.01	.02	1	3
CC 3+50W 2+40S	1	59	51	140	.3	26	21	4578	6.35	15	5	ND	1	32	1	2	2	24	.49	.150	24	21	.29	123	.01	2	1.53	.01	.03	1	2
CC 3+50W 2+50S	1	23	22	68	.3	10	9	520	5.17	10	5	ND	1	5	1	2	2	25	.03	.064	18	15	.13	68	.01	2	.99	.01	.03	2	1
CC 3+50W 2+60S	1	23	28	56	.3	13	8	347	5.06	10	5	ND	1	7	1	2	2	26	.07	.054	17	15	.12	59	.01	2	.92	.01	.02	1	1
CC 3+50W 2+70S	1	41	43	121	.6	20	17	2411	5.67	17	5	ND	1	13	1	2	2	28	.12	.088	17	23	.28	76	.01	2	1.44	.01	.04	1	17
CC 3+50W 2+80S	1	59	98	153	.5	55	23	1761	8.38	26	5	ND	4	14	1	2	2	10	.17	.103	41	14	.17	51	.01	2	1.66	.01	.02	1	3
CC 3+50W 2+90S	1	28	33	75	.5	12	12	750	5.04	13	5	ND	1	6	1	2	2	18	.04	.087	16	11	.10	31	.01	2	.76	.01	.03	1	1
CC 3+50W 3+00S	1	23	47	108	.4	19	12	1805	4.91	14	5	ND	1	16	1	2	2	22	.28	.099	22	16	.17	79	.01	2	1.09	.01	.03	1	2
CC 2+50W 0+00	1	41	43	90	.2	39	22	774	5.59	26	5	ND	2	10	1	2	2	15	.15	.078	22	20	.26	41	.01	2	1.11	.01	.05	1	1
CC 2+50W 0+10S	2	33	90	91	.3	31	22	1826	4.86	33	5	ND	1	10	1	2	2	18	.13	.119	20	18	.24	52	.01	3	1.22	.01	.05	1	10
CC 2+50W 0+20S	4	28	39	90	.1	30	17	1385	5.63	36	5	ND	1	16	1	2	16	8	.30	.107	16	17	.38	42	.01	5	1.04	.01	.01	1	2
CC 2+50W 0+30S	1	29	47	102	.7	30	15	1550	4.33	26	5	ND	2	32	1	2	2	15	.76	.196	27	19	.31	57	.01	3	1.31	.01	.05	1	6
CC 2+50W 0+40S	2	30	46	122	.3	27	19	1885	5.34	31	5	ND	1	16	1	2	2	23	.20	.139	22	25	.31	61	.01	3	1.55	.01	.05	1	1
CC 2+50W 0+50S	1	34	29	86	.1	38	15	465	4.89	56	5	ND	1	7	1	2	2	13	.04	.046	29	21	.36	54	.01	3	1.17	.01	.05	2	19
CC 2+50W 0+60S	1	27	37	104	.4	34	13	928	3.56	32	5	ND	1	26	1	2	2	14	.35	.071	20	18	.33	96	.01	4	.98	.01	.05	1	4
CC 2+50W 0+70S	2	39	56	110	.2	46	20	590	5.26	34	5	ND	2	9	1	5	2	16	.09	.061	30	26	.43	48	.01	2	1.19	.01	.05	2	42
CC 2+50W 0+80S	1	45	44	92	.2	50	20	598	4.95	43	5	ND	4	8	1	2	2	11	.06	.043	31	21	.44	72	.01	2	1.16	.01	.05	3	30
CC 2+50W 0+90S	1	30	69	95	.2	34	16	849	4.60	35	5	ND	2	11	1	3	2	16	.09	.089	21	22	.39	84	.01	2	1.31	.01	.06	1	1
CC 2+50W 1+00S	1	48	49	104	.3	50	19	681	4.72	46	5	ND	4	14	1	2	2	11	.16	.059	24	18	.39	47	.01	3	.89	.01	.05	1	86
CC 2+50W 1+10S	2	16	75	79	.1	21	10	454	4.50	19	5	ND	1	6	1	2	2	18	.02	.066	18	26	.30	36	.01	2	1.09	.01	.04	6	34
CC 2+50W 1+20S	1	32	43	80	.3	19	12	752	5.59	20	5	ND	1	10	1	2	2	22	.13	.085	15	24	.24	51	.01	6	1.03	.01	.04	2	7
CC 2+50W 1+30S	1	42	36	120	1.6	28	15	1926	5.98	23	5	ND	2	52	1	2	2	20	.84	.187	14	24	.31	66	.01	12	1.61	.01	.05	2	8
CC 2+50W 1+40S	1	29	31	76	.4	21	10	529	5.76	23	5	ND	1	9	1	2	2	30	.11	.070	18	26	.22	57	.01	2	1.04	.01	.05	1	11
STD C/AU-S	19	61	42	132	7.4	67	29	1050	4.12	41	24	7	37	49	18	16	21	55	.49	.097	37	60	.90	180	.07	33	1.86	.06	.13	14	51

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 2+50W 1+50S	1	42	29	87	.1	23	14	1513	6.71	27	5	ND	2	12	1	6	2	22	.13	.084	15	22	.22	53	.01	3	1.07	.01	.04	6	16
CC 2+50W 1+60S	1	19	26	77	.1	14	8	374	4.85	17	5	ND	1	6	1	2	2	26	.03	.065	19	22	.22	46	.01	2	1.12	.01	.03	1	10
CC 2+50W 1+70S	1	22	21	64	.1	17	8	428	5.62	14	5	ND	1	5	1	2	2	29	.01	.058	17	25	.21	39	.01	2	1.00	.01	.04	1	2
CC 2+50W 1+80S	1	29	130	127	.3	24	13	800	5.53	20	5	ND	1	6	1	6	2	24	.03	.065	18	27	.28	38	.01	2	1.39	.01	.04	1	9
CC 2+50W 1+90S	1	11	15	27	.1	9	4	123	2.66	14	5	ND	1	4	1	3	2	18	.01	.033	20	14	.13	20	.01	3	.76	.01	.02	1	3
STD C/AU-S	19	60	42	130	7.3	71	28	1034	4.03	40	19	8	37	48	19	17	21	56	.49	.083	36	59	.88	175	.08	34	1.80	.06	.12	13	48
CC 2+50W 2+00S	1	30	18	48	.2	15	9	516	5.11	17	5	ND	1	3	1	2	2	20	.01	.058	21	15	.15	22	.01	2	.75	.01	.02	1	7
CC 2+50W 2+10S	1	21	30	45	.1	10	7	931	4.68	17	5	ND	1	4	1	2	2	26	.01	.063	17	13	.09	27	.01	3	.76	.01	.03	9	30
CC 2+50W 2+20S	1	16	16	21	.1	5	3	231	2.30	10	5	ND	1	4	1	4	2	13	.01	.076	19	6	.04	21	.01	3	.47	.01	.03	1	2
CC 2+50W 2+30S	1	23	15	34	.1	11	7	431	4.45	13	5	ND	1	3	1	2	2	14	.01	.060	22	9	.04	22	.01	2	.57	.01	.03	1	1
CC 2+50W 2+40S	1	26	18	39	.1	6	7	476	4.17	12	5	ND	1	4	1	2	2	21	.01	.070	17	12	.09	32	.01	2	.71	.01	.03	2	48
CC 2+50W 2+50S	1	40	174	184	1.4	37	18	10152	9.15	41	11	ND	1	25	3	3	2	21	.30	.176	56	14	.10	131	.02	5	1.60	.01	.04	4	1
CC 2+50W 2+60S	1	31	34	51	.1	15	10	477	6.04	22	5	ND	1	3	1	4	2	25	.01	.073	13	13	.13	36	.01	2	.86	.01	.03	10	12
CC 2+50W 2+70S	1	87	34	124	.1	30	26	2609	8.62	28	5	ND	3	19	2	2	2	22	.25	.082	17	11	.30	61	.01	5	.91	.01	.03	9	25
CC 2+50W 2+80S	1	34	53	137	.1	16	8	318	5.65	24	5	ND	1	21	2	2	2	26	.19	.074	15	23	.26	62	.02	2	1.54	.01	.04	1	9
CC 2+50W 2+90S	1	43	50	168	.2	20	14	2397	4.01	13	5	ND	2	88	2	3	2	19	1.24	.199	14	21	.31	91	.02	2	1.66	.01	.05	1	5
CC 2+50W 3+00S	1	61	45	145	.6	32	20	2550	5.06	19	5	ND	2	76	1	2	2	22	1.12	.142	21	22	.42	95	.02	7	1.91	.01	.06	1	7
CC 1+50W 0+00	1	27	132	92	.4	27	14	1881	3.64	16	5	ND	1	11	1	2	2	24	.12	.060	23	15	.14	161	.01	21	.73	.01	.07	6	2
CC 1+50W 0+10S	1	32	270	107	.5	30	19	2447	4.60	19	5	ND	1	12	1	2	2	22	.15	.102	20	20	.21	76	.01	6	1.08	.01	.08	9	2
CC 1+50W 0+20S	1	24	69	68	.5	21	10	554	3.85	17	5	ND	1	8	1	2	2	22	.06	.073	22	19	.17	49	.01	8	.91	.01	.07	5	1
CC 1+50W 0+30S	1	27	51	76	.1	24	9	481	4.09	18	5	ND	1	8	1	2	2	22	.06	.074	23	19	.18	67	.01	5	.91	.01	.07	7	1
CC 1+50W 0+40S	1	43	79	106	.9	36	19	1856	4.62	27	5	ND	2	19	1	2	2	19	.25	.126	21	23	.27	74	.01	2	1.33	.01	.08	6	3
CC 1+50W 0+50S	1	47	71	119	1.0	38	21	1996	4.56	24	5	ND	2	22	1	2	2	19	.32	.162	23	22	.27	74	.01	4	1.64	.01	.09	3	6
CC 1+50W 0+60S	1	42	51	127	1.1	39	20	1573	4.93	37	5	ND	3	24	1	2	2	17	.31	.154	21	21	.31	66	.01	5	1.59	.01	.07	4	7
CC 1+50W 0+70S	1	40	40	129	.2	41	19	948	4.93	37	5	ND	2	20	1	2	2	18	.25	.114	22	25	.35	63	.01	9	1.42	.01	.07	5	16
CC 1+50W 0+80S	1	42	47	115	.2	44	18	788	4.77	47	5	ND	3	10	1	2	2	15	.09	.068	25	22	.39	62	.01	2	1.24	.01	.07	3	27
CC 1+50W 0+90S	1	41	32	121	.1	40	17	536	4.86	34	5	ND	3	10	1	2	2	18	.09	.054	27	25	.37	60	.01	2	1.21	.01	.08	10	18
CC 1+50W 1+00S	1	18	27	61	.3	19	9	308	2.90	18	5	ND	1	10	1	2	2	18	.07	.072	21	21	.27	93	.01	3	.97	.01	.07	1	51
CC 1+50W 1+10S	1	17	22	60	.1	17	7	278	3.04	24	5	ND	1	8	1	3	2	16	.07	.073	23	20	.26	88	.01	2	.93	.01	.08	1	27
CC 1+50W 1+20S	1	52	72	112	.1	60	24	681	5.35	47	5	ND	13	23	1	2	2	19	.31	.073	36	26	.55	70	.01	5	1.13	.01	.08	1	33
CC 1+50W 1+30S	1	48	47	122	.1	64	24	802	5.42	38	5	ND	13	19	1	5	4	20	.21	.070	40	28	.56	73	.02	3	1.23	.01	.09	1	24
CC 1+50W 1+40S	1	23	44	65	.4	14	8	594	7.35	21	5	ND	2	4	1	2	2	27	.01	.056	17	21	.12	31	.01	3	1.07	.01	.03	1	5
CC 1+50W 1+50S	1	15	15	32	.9	8	4	209	2.95	14	5	ND	1	5	1	2	2	21	.01	.044	26	16	.13	30	.01	2	.83	.01	.05	1	15
CC 1+50W 1+60S	1	10	32	45	1.2	16	5	119	3.70	11	5	ND	1	5	1	2	2	26	.01	.040	27	28	.29	39	.01	2	1.24	.01	.04	1	12
CC 1+50W 1+70S	1	26	202	64	.5	15	12	792	4.57	12	5	ND	1	6	1	2	2	20	.01	.070	18	18	.19	28	.01	2	1.10	.01	.04	1	21
CC 1+50W 1+80S	1	31	34	67	.1	16	10	1086	3.63	17	5	ND	1	6	1	2	2	18	.01	.076	20	20	.22	63	.01	3	1.11	.01	.05	1	38
CC 1+50W 1+90S	1	38	35	99	.3	30	12	1205	4.47	18	5	ND	1	9	1	3	2	21	.04	.084	22	26	.33	61	.01	4	1.23	.01	.05	1	12

IMPERIAL METALS PROJECT-4203 FILE # 87-3707

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 1+50W 2+00S	1	30	30	150	.4	25	11	2277	4.49	20	10	ND	1	37	1	2	2	21	.43	.129	16	23	.23	90	.01	2	1.34	.01	.06	2	29
CC 1+50W 2+10S	1	24	39	110	.2	23	10	2478	4.64	15	5	ND	1	11	1	2	2	23	.07	.103	17	21	.20	77	.01	2	1.27	.01	.06	1	16
CC 1+50W 2+20S	1	56	119	136	.2	40	25	2052	6.97	49	5	ND	2	17	1	2	2	18	.19	.066	26	16	.27	65	.01	2	1.08	.01	.04	10	210
CC 1+50W 2+30S	1	25	34	51	.1	15	6	327	4.91	35	5	ND	1	7	1	2	2	23	.04	.067	20	14	.10	30	.01	2	.92	.01	.04	7	76
CC 1+50W 2+40S	1	39	126	167	1.5	41	16	2873	10.32	63	5	ND	1	50	2	2	2	17	.74	.129	16	17	.18	93	.01	2	1.07	.01	.05	4	360
CC 1+50W 2+50S	1	32	63	223	.6	31	14	6323	5.98	61	5	ND	1	26	2	2	2	20	.62	.187	15	20	.16	128	.01	3	1.45	.01	.06	1	15
CC 1+50W 2+60S	1	23	127	84	.4	13	8	1183	7.18	30	5	ND	1	4	1	2	2	20	.01	.076	21	11	.07	26	.01	2	.71	.01	.02	10	32
CC 1+50W 2+70S	1	13	45	37	.1	9	4	213	2.91	10	5	ND	1	4	1	5	2	11	.01	.087	25	9	.05	28	.01	2	.58	.01	.04	1	5
CC 1+50W 2+80S	1	31	33	77	.1	11	9	819	4.29	14	5	ND	1	6	1	2	2	29	.01	.091	23	17	.20	49	.01	2	1.23	.01	.04	1	12
CC 1+50W 2+90S	1	23	35	100	.1	14	9	983	3.94	16	5	ND	1	6	1	2	2	20	.02	.089	19	16	.17	48	.01	2	.98	.01	.04	1	8
CC 1+50W 3+00S	1	28	53	208	.3	20	15	2929	5.58	18	5	ND	1	24	1	2	2	23	.27	.143	16	16	.20	96	.01	2	1.08	.01	.06	1	26
CC 0+50W 0+00	3	30	54	100	.2	31	16	636	4.32	16	5	ND	1	9	1	2	2	21	.06	.110	23	25	.35	59	.01	2	1.38	.01	.06	1	6
CC 0+50W 0+10S	2	34	71	142	.3	31	20	1158	4.84	20	5	ND	1	12	1	2	2	22	.15	.125	24	25	.37	68	.01	2	1.54	.01	.08	3	3
CC 0+50W 0+20S	2	51	67	132	.1	60	20	658	5.21	39	5	ND	5	9	1	2	2	16	.04	.043	39	26	.52	69	.01	2	1.23	.01	.07	1	36
CC 0+50W 0+30S	3	42	50	147	.1	48	21	992	5.06	25	5	ND	2	11	1	2	2	18	.13	.078	28	28	.50	61	.01	2	1.30	.01	.08	2	35
CC 0+50W 0+40S	3	45	72	197	.1	51	18	707	4.84	33	5	ND	2	10	1	2	3	16	.09	.064	33	26	.48	55	.01	2	1.16	.01	.07	3	36
CC 0+50W 0+50S	3	47	57	202	.1	56	20	673	5.07	32	5	ND	4	10	1	2	11	16	.06	.053	36	29	.54	66	.01	7	1.23	.01	.08	2	52
CC 0+50W 0+60S	3	85	812	1499	.8	56	18	750	5.00	42	5	ND	2	14	4	2	2	15	.21	.065	28	28	.46	95	.01	3	1.14	.01	.09	11	710
CC 0+50W 0+70S	3	42	132	212	.4	52	21	805	4.91	24	5	ND	2	11	1	2	2	18	.13	.064	29	29	.51	56	.01	2	1.29	.01	.07	1	550
CC 0+50W 0+80S	2	39	147	161	.1	45	19	641	4.56	19	5	ND	3	9	1	2	2	17	.07	.044	36	28	.53	50	.01	4	1.15	.01	.07	2	45
CC 0+50W 0+90S	2	20	19573	189	25.1	10	4	99	3.71	254	5	ND	1	13	1	17	14	4	.07	.049	9	9	.08	32	.01	2	.21	.01	.03	212	2010
CC 0+50W 1+00S	1	16	1514	136	3.5	11	4	117	3.63	72	5	ND	1	5	1	4	2	4	.03	.045	12	10	.12	14	.01	2	.30	.01	.04	86	360
CC 0+50W 1+10S	1	23	21	76	.1	20	15	817	3.86	17	5	ND	1	7	1	2	2	23	.02	.089	26	27	.34	58	.01	2	1.35	.01	.07	1	14
CC 0+50W 1+20S	2	22	94	91	.3	32	13	785	3.72	14	5	ND	1	12	1	2	2	27	.11	.072	28	37	.60	78	.01	2	1.27	.01	.06	1	3
CC 0+50W 1+30S	1	15	12	41	.1	13	5	262	3.54	4	5	ND	1	10	1	2	2	21	.10	.048	25	15	.11	41	.01	2	.69	.01	.05	1	6
CC 0+50W 1+40S	1	14	22	63	.1	16	10	401	4.86	13	5	ND	1	6	1	2	2	21	.01	.069	27	20	.20	42	.01	2	.90	.01	.04	1	24
CC 0+50W 1+50S	1	14	11	48	.2	11	8	1402	3.05	11	5	ND	1	11	1	2	2	20	.13	.057	27	14	.15	94	.01	2	.83	.01	.06	1	46
CC 0+50W 1+60S	1	21	9	37	.8	11	7	208	2.92	3	5	ND	1	9	1	2	2	18	.10	.052	27	13	.11	56	.01	2	1.20	.01	.03	1	7
CC 0+50W 1+70S	1	26	46	89	.9	19	9	2085	3.18	14	5	ND	1	23	1	2	2	19	.52	.182	19	16	.25	91	.01	3	1.46	.01	.05	1	1
CC 0+50W 1+80S	1	9	9	27	.1	8	2	39	1.94	6	5	ND	1	4	1	4	5	16	.01	.042	25	10	.08	36	.01	2	.75	.01	.02	1	1
CC 0+50W 1+90S	1	8	4	11	.2	4	1	33	.94	2	5	ND	2	6	1	2	5	6	.01	.041	24	3	.02	23	.01	2	.51	.01	.03	1	1
CC 0+50W 2+00S	1	2	10	23	.1	7	3	204	2.03	5	5	ND	1	4	1	2	2	17	.01	.053	23	11	.03	24	.01	3	.55	.01	.04	1	23
CC 0+50W 2+10S	1	15	68	72	.3	12	9	753	6.61	21	5	ND	1	4	1	2	2	23	.01	.058	18	16	.09	25	.02	3	.96	.01	.03	1	1
CC 0+50W 2+20S	1	18	106	85	.3	19	17	1585	7.62	33	5	ND	1	9	1	2	8	20	.06	.091	19	16	.10	43	.01	2	1.31	.01	.04	3	1
CC 0+50W 2+30S	1	34	58	76	.2	19	9	486	6.99	18	5	ND	1	6	1	2	2	21	.01	.066	25	17	.17	32	.01	2	.99	.01	.03	2	1
CC 0+50W 2+40S	1	23	31	34	.1	9	4	196	3.84	17	5	ND	1	5	1	2	2	20	.01	.044	30	12	.08	27	.01	3	.99	.01	.03	2	12
STD C/AU-S	19	58	37	133	7.1	67	29	1052	4.06	41	19	8	37	49	18	16	22	56	.48	.091	36	59	.89	177	.08	33	1.82	.06	.14	13	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 0+50W 2+50S	1	28	23	40	.3	15	6	360	3.40	17	5	ND	4	4	1	2	6	8	.01	.083	30	11	.06	21	.01	4	.53	.01	.02	1	1
CC 0+50W 2+60S	1	173	79	119	.1	42	20	6219	14.68	37	5	ND	5	16	1	2	2	19	.10	.078	29	16	.22	135	.01	2	.97	.01	.06	9	265
CC 0+50W 2+70S	1	19	19	33	.2	8	6	672	3.34	12	5	ND	2	5	1	2	2	17	.01	.060	22	13	.08	34	.01	2	.70	.01	.05	2	6
CC 0+50W 2+80S	1	32	65	72	.4	25	12	672	6.43	22	5	ND	3	5	1	2	2	20	.01	.095	24	18	.23	33	.01	2	.93	.01	.05	3	106
CC 0+50W 2+90S	1	21	51	50	.2	13	7	435	4.07	16	5	ND	3	5	1	2	2	24	.01	.048	25	18	.20	37	.01	2	1.05	.01	.04	1	7
CC 0+50W 3+00S	1	14	32	36	.2	12	4	297	3.62	15	5	ND	2	5	1	2	2	20	.01	.065	26	10	.05	24	.01	2	.67	.01	.05	1	10
STD C/AU-S	20	62	38	133	7.3	73	28	1123	4.19	42	19	8	40	52	18	17	16	61	.50	.091	41	58	.90	182	.08	34	1.84	.07	.16	13	52

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

EXTRA COPY

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 TO P5 SOIL P6 ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 5 1987 DATE REPORT MAILED: Sept 16/87 ASSAYER. D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-3937 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
CC 7+00W 1+00S	1	65	23	83	.2	18	10	1468	3.50	38	5	ND	2	127	1	2	2	13	2.60	.097	8	13	.28	64	.01	12	.67	.02	.04	1	21
CC 7+00W 1+10S	1	59	38	251	.2	38	16	1072	4.73	20	5	ND	11	21	1	4	2	19	.27	.063	31	22	.46	87	.01	11	1.11	.02	.06	2	9
CC 7+00W 1+20S	1	55	53	123	.3	39	19	1331	5.61	22	5	ND	6	27	1	2	2	17	.38	.081	24	18	.38	65	.01	5	.87	.02	.05	1	17
CC 7+00W 1+30S	1	32	22	79	.2	29	10	146	4.24	13	5	ND	6	5	1	2	2	21	.04	.034	26	21	.43	43	.01	3	1.12	.01	.02	1	15
CC 7+00W 1+40S	1	25	23	95	.1	21	13	266	5.24	10	5	ND	6	14	1	4	2	24	.15	.061	16	17	.38	59	.01	2	1.34	.01	.03	1	8
CC 7+00W 1+50S	1	75	24	88	.4	28	16	2580	4.23	15	5	ND	3	74	1	2	2	19	1.42	.132	13	20	.36	124	.01	2	1.35	.02	.04	1	4
CC 7+00W 1+60S	1	41	36	92	.5	24	13	808	4.92	16	5	ND	3	46	1	2	2	22	.81	.089	18	20	.28	81	.01	3	1.39	.02	.04	1	1
CC 7+00W 1+70S	1	11	13	37	.1	8	3	100	2.10	6	5	ND	2	6	1	2	2	21	.06	.046	18	11	.15	40	.01	3	.75	.01	.02	3	3
CC 7+00W 1+80S	1	35	38	98	.4	33	18	773	4.87	18	5	ND	7	25	1	2	2	21	.34	.067	30	21	.39	58	.01	2	1.11	.02	.04	1	9
CC 7+00W 1+90S	1	61	38	114	.2	47	21	996	5.64	21	5	ND	6	13	1	2	2	23	.14	.071	30	28	.45	76	.01	2	1.58	.01	.04	1	11
CC 7+00W 2+00S	1	26	48	98	.3	29	13	465	4.30	13	5	ND	5	14	1	2	2	22	.14	.062	23	26	.41	57	.01	2	1.24	.01	.05	1	4
CC 7+00W 2+10S	1	27	35	95	.3	29	14	791	4.29	16	5	ND	5	28	1	3	2	22	.42	.070	22	27	.41	74	.01	2	1.33	.02	.05	1	4
CC 7+00W 2+20S	1	41	38	112	.3	30	15	1085	4.58	17	5	ND	5	34	1	2	2	21	.56	.099	20	27	.42	73	.01	6	1.43	.02	.05	1	1
CC 7+00W 2+30S	2	19	28	81	.2	27	7	166	3.22	11	5	ND	3	34	1	2	2	23	.57	.062	21	29	.37	77	.01	2	1.16	.02	.04	1	4
CC 7+00W 2+40S	2	38	39	153	.5	43	16	831	4.78	14	5	ND	6	21	1	2	2	24	.30	.113	28	33	.53	77	.01	3	1.43	.02	.06	1	6
CC 7+00W 2+50S	1	25	35	102	.2	24	12	548	4.03	12	5	ND	3	22	1	2	2	25	.34	.103	20	30	.41	162	.01	2	1.30	.02	.05	1	1
CC 7+00W 2+60S	1	26	34	103	.6	27	13	857	4.08	12	5	ND	3	14	1	2	2	23	.18	.110	21	27	.42	99	.01	5	1.35	.02	.06	1	1
CC 7+00W 2+70S	1	29	36	103	.6	29	13	584	4.00	13	5	ND	4	14	1	2	2	22	.18	.094	23	29	.41	90	.01	2	1.34	.01	.06	1	5
CC 7+00W 2+80S	1	24	39	108	.3	29	14	617	4.27	15	5	ND	4	16	1	2	2	23	.24	.089	22	31	.46	95	.01	2	1.39	.01	.06	1	8
CC 7+00W 2+90S	1	25	35	97	.1	26	11	466	3.96	12	5	ND	2	11	1	2	2	24	.17	.117	18	29	.41	64	.01	2	1.10	.01	.06	1	7
CC 7+00W 3+00S	1	49	38	117	.7	40	14	373	4.04	16	5	ND	4	19	1	2	2	23	.33	.135	23	34	.43	92	.01	2	1.37	.02	.05	1	1
CC 7+00W 3+10S	2	40	45	117	1.1	31	20	1776	5.75	15	5	ND	3	16	1	3	2	24	.27	.187	25	31	.41	111	.01	2	1.59	.02	.07	1	1
CC 7+00W 3+20S	2	44	37	104	.9	27	14	1216	4.44	12	5	ND	3	19	1	2	2	28	.33	.187	27	28	.42	127	.01	2	1.81	.02	.05	1	1
CC 7+00W 3+30S	1	35	37	117	.4	34	16	842	4.51	13	5	ND	5	19	1	2	2	23	.36	.117	22	28	.47	93	.01	2	1.41	.02	.05	1	3
CC 7+00W 3+40S	2	46	33	128	.3	42	15	744	4.83	17	5	ND	5	19	1	2	2	25	.33	.103	27	36	.53	87	.02	4	1.53	.02	.06	1	5
CC 7+00W 3+50S	1	35	37	108	.3	33	16	681	4.65	16	5	ND	5	11	1	3	2	23	.11	.103	25	29	.46	52	.01	2	1.31	.01	.04	1	4
CC 7+00W 3+60S	1	39	33	120	.5	35	17	1424	4.90	19	5	ND	4	27	1	2	2	22	.55	.136	19	27	.48	108	.01	2	1.34	.02	.06	2	1
CC 7+00W 3+70S	2	37	41	128	.9	26	19	2250	5.17	17	10	ND	4	12	1	2	2	23	.22	.147	20	28	.40	78	.01	2	1.54	.02	.05	1	1
CC 7+00W 3+80S	2	38	422	396	.3	28	14	1082	7.02	13	5	ND	4	9	1	2	2	30	.12	.082	19	26	.41	42	.01	2	1.13	.01	.05	1	9
CC 7+00W 3+90S	1	51	42	124	.3	36	23	1492	5.35	16	6	ND	6	8	1	2	2	23	.06	.086	28	26	.45	66	.01	2	1.36	.02	.04	1	3
CC 7+00W 4+00S	1	39	39	122	.5	33	16	1207	4.38	20	5	ND	4	25	1	2	2	20	.50	.165	19	26	.43	92	.01	2	1.33	.02	.06	1	9
CC 6+00W 2+10S	1	24	41	117	.3	19	12	2228	5.20	14	5	ND	3	14	1	2	2	23	.13	.104	18	16	.23	110	.01	2	1.28	.01	.03	1	1
CC 6+00W 2+20S	1	20	55	98	.3	20	12	3457	5.84	29	5	ND	3	18	1	2	2	21	.25	.121	20	14	.13	64	.01	2	1.11	.01	.03	1	1
CC 6+00W 2+30S	1	23	41	70	.1	18	9	579	5.24	14	5	ND	3	6	1	3	2	17	.03	.064	20	14	.15	31	.01	2	.90	.01	.03	1	1
CC 6+00W 2+40S	1	67	29	119	.5	30	25	1372	6.46	26	5	ND	3	6	1	2	2	34	.04	.106	19	21	.34	57	.01	2	1.70	.01	.03	1	1
CC 6+00W 2+50S	1	46	11	58	.5	9	7	527	4.62	16	5	ND	2	5	1	2	2	35	.04	.087	13	9	.19	43	.01	2	.88	.01	.02	1	7
STD C/AU-S	18	57	41	132	7.1	68	27	1026	3.91	42	22	8	38	49	17	17	20	58	.47	.087	38	56	.87	175	.07	36	1.79	.06	.15	12	50

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 6+00W 2+60S	1	19	17	59	.3	17	6	394	4.35	12	8	ND	4	3	1	2	2	23	.02	.058	23	23	.31	37	.01	2	.99	.01	.03	1	4
CC 6+00W 2+70S	1	31	25	77	.6	27	13	946	3.87	12	5	ND	4	23	1	2	2	26	.42	.093	19	27	.37	93	.01	3	1.32	.02	.04	1	1
CC 6+00W 2+80S	1	37	21	83	.1	31	11	371	4.23	18	5	ND	4	8	1	3	2	22	.13	.043	19	25	.40	90	.01	2	1.03	.01	.04	34	3
CC 6+00W 2+90S	1	19	23	52	.2	16	6	273	4.00	12	5	ND	3	5	1	2	2	33	.05	.046	22	28	.21	48	.01	2	.96	.01	.04	2	1
CC 6+00W 3+00S	1	40	33	119	.4	32	18	1015	5.00	17	5	ND	6	17	1	2	2	26	.40	.094	19	29	.45	110	.01	2	1.65	.02	.06	1	1
CC 6+00W 3+10S	1	42	26	91	.4	34	15	1019	4.17	14	5	ND	5	14	1	2	2	19	.32	.077	17	23	.42	87	.01	3	1.17	.01	.05	1	93
CC 6+00W 3+20S	1	41	35	89	.1	31	15	953	4.76	17	5	ND	4	10	1	2	2	25	.13	.079	21	27	.41	95	.01	2	1.43	.01	.05	1	8
CC 6+00W 3+30S	1	37	30	94	.4	25	14	1053	4.99	15	5	ND	3	15	1	2	2	27	.30	.083	22	24	.35	82	.01	2	1.39	.02	.05	1	5
CC 6+00W 3+40S	1	51	39	125	.5	34	18	1520	5.36	19	5	ND	4	22	1	2	2	23	.49	.116	17	24	.46	100	.01	5	1.42	.02	.06	1	4
CC 6+00W 3+50S	1	41	34	95	.6	25	12	574	4.43	14	5	ND	3	19	1	2	2	27	.41	.081	23	25	.30	86	.01	2	1.34	.02	.04	1	3
CC 6+00W 3+60S	1	58	41	127	.6	34	18	1501	4.91	19	6	ND	4	31	1	2	2	22	.80	.147	19	31	.46	113	.01	5	1.52	.02	.05	1	4
CC 6+00W 3+70S	1	43	42	129	.9	31	16	1176	4.54	9	6	ND	4	31	1	2	2	22	.78	.172	20	25	.44	114	.01	2	1.66	.02	.07	1	10
CC 6+00W 3+80S	1	47	38	113	.5	32	16	1056	4.74	16	5	ND	4	17	1	2	2	23	.34	.136	23	29	.41	81	.01	2	1.55	.02	.06	1	16
CC 6+00W 3+90S	1	53	49	132	.7	37	18	1918	5.05	16	5	ND	4	25	1	2	2	23	.51	.188	22	29	.46	121	.01	7	1.70	.02	.06	1	8
CC 6+00W 4+00S	1	48	41	124	.4	43	19	907	5.10	18	5	ND	6	16	1	2	2	26	.28	.083	27	37	.57	87	.01	2	1.51	.02	.05	1	1
CC 6+00W 4+10S	1	45	40	120	.6	32	17	1157	5.23	17	5	ND	3	19	1	2	2	27	.34	.138	22	26	.42	120	.01	4	1.60	.02	.07	1	2
CC 6+00W 4+20S	1	46	45	111	.9	31	18	1591	4.74	14	5	ND	3	22	1	2	2	25	.37	.169	27	29	.41	110	.01	5	1.67	.02	.07	1	4
CC 6+00W 4+30S	2	52	49	137	.8	45	20	1691	5.32	19	5	ND	4	21	1	2	2	25	.33	.186	30	31	.47	112	.01	6	1.80	.02	.07	1	11
CC 6+00W 4+40S	1	38	43	120	.5	30	19	1783	4.75	20	5	ND	3	29	1	2	2	26	.52	.190	20	27	.43	109	.01	2	1.54	.02	.08	1	1
CC 6+00W 4+50S	1	31	34	94	.5	26	13	641	4.10	11	5	ND	3	15	1	2	2	25	.22	.099	24	26	.41	85	.01	2	1.19	.01	.05	1	58
CC 6+00W 4+60S	1	36	42	109	.5	30	16	1210	4.69	14	5	ND	3	20	1	2	2	26	.30	.149	22	26	.44	104	.01	5	1.49	.02	.08	1	5
CC 6+00W 4+70S	1	41	44	112	.4	35	16	997	4.70	16	5	ND	4	21	1	2	2	23	.35	.141	22	31	.48	97	.01	3	1.61	.02	.07	1	3
CC 6+00W 4+80S	1	37	39	123	.7	34	16	1167	4.81	15	5	ND	4	22	1	2	2	23	.36	.147	21	28	.47	99	.01	2	1.56	.02	.06	1	2
CC 6+00W 4+90S	1	41	40	118	.9	35	15	943	4.75	16	5	ND	4	23	1	2	2	23	.39	.157	22	33	.46	114	.01	2	1.58	.02	.07	1	1
CC 6+00W 5+00S	2	30	39	123	.4	29	17	980	4.82	18	5	ND	5	22	1	2	2	23	.40	.125	20	30	.45	154	.01	2	1.42	.02	.06	1	7
CC 2+00W 3+10S	1	27	48	123	.4	19	18	684	5.75	16	5	ND	3	47	1	2	2	28	.64	.075	18	22	.26	46	.02	2	1.70	.02	.04	1	8
CC 2+00W 3+20S	1	26	35	98	.2	18	8	212	6.41	16	5	ND	3	16	1	2	2	29	.21	.051	19	18	.13	38	.01	8	1.05	.01	.03	1	6
CC 2+00W 3+30S	1	22	30	87	.2	19	10	523	4.90	13	5	ND	4	7	1	2	3	23	.03	.065	22	13	.12	29	.01	2	.82	.01	.03	1	2
CC 2+00W 3+40S	1	19	25	78	.2	18	6	377	5.47	15	5	ND	3	4	1	2	2	28	.01	.070	21	17	.14	29	.01	2	.74	.01	.04	1	5
CC 2+00W 3+50S	1	8	12	40	.5	15	4	89	2.42	6	5	ND	3	4	1	2	2	26	.01	.042	19	31	.36	31	.01	5	.98	.01	.02	1	8
CC 2+00W 3+60S	1	18	49	83	.3	19	9	1162	4.89	16	5	ND	2	5	1	2	2	32	.05	.095	17	28	.34	49	.01	2	.89	.01	.04	3	1
CC 2+00W 3+70S	1	13	18	33	.2	9	3	185	2.98	11	5	ND	2	4	1	2	2	23	.01	.058	19	13	.12	35	.01	2	.67	.01	.04	2	39
CC 2+00W 3+80S	1	44	34	80	.3	19	15	2129	4.93	17	5	ND	3	6	1	2	2	25	.04	.087	18	19	.25	66	.01	2	1.35	.01	.05	3	17
CC 2+00W 3+90S	1	31	18	69	.3	19	10	953	3.80	9	5	ND	2	7	1	2	2	28	.07	.061	19	21	.38	63	.02	7	1.40	.01	.05	1	7
CC 2+00W 4+00S	3	43	33	70	.2	18	15	1738	4.23	9	5	ND	2	9	1	2	2	28	.11	.104	15	21	.36	76	.01	2	1.65	.02	.05	1	121
CC 2+00W 4+10S	1	45	37	70	.2	16	12	1558	4.72	12	5	ND	2	9	1	2	2	33	.12	.101	16	22	.32	78	.01	2	1.62	.01	.04	1	16
STD C/AU-S	18	58	42	132	7.2	68	27	1030	3.89	41	23	7	37	49	17	16	20	55	.47	.087	37	58	.85	175	.08	32	1.77	.07	.13	12	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 2+00W 4+20S	1	35	18	51	.2	14	6	166	2.44	5	5	ND	2	8	1	2	2	22	.13	.081	14	20	.38	65	.01	2	1.34	.01	.05	30	1
CC 2+00W 4+30S	1	4	9	30	.2	7	3	76	1.59	3	5	ND	2	5	1	2	2	13	.09	.071	24	15	.15	34	.01	2	.61	.01	.04	1	1
CC 2+00W 4+40S	1	18	35	62	.1	17	7	201	4.18	14	5	ND	2	6	1	2	2	29	.07	.059	20	19	.30	60	.01	2	1.24	.01	.04	1	2
CC 2+00W 4+50S	1	26	17	84	.1	11	7	273	4.30	12	5	ND	2	13	1	2	2	31	.25	.078	16	13	.22	67	.01	4	1.12	.02	.04	1	1
CC 2+00W 4+60S	1	79	18	116	.1	11	29	2312	10.94	4	5	ND	2	4	1	2	2	38	.05	.139	10	11	.22	48	.01	2	1.18	.01	.01	1	3
CC 2+00W 4+70S	1	17	20	36	.1	8	10	1331	2.26	9	5	ND	1	7	1	2	2	24	.09	.074	18	10	.13	49	.01	2	.81	.01	.04	1	8
CC 2+00W 4+80S	1	17	19	41	.1	9	5	413	3.02	9	5	ND	2	5	1	2	2	30	.02	.036	25	12	.13	29	.01	2	.85	.01	.03	3	11
CC 2+00W 4+90S	1	21	43	73	.1	12	12	940	3.93	12	5	ND	2	8	1	2	2	28	.10	.087	18	18	.27	49	.01	3	1.15	.01	.05	1	1
CC 2+00W 5+00S	1	21	101	71	.3	11	22	1579	3.23	16	5	ND	2	9	1	2	2	23	.10	.077	22	12	.20	56	.01	2	.86	.01	.04	1	5
CCA0+00E 0+70S	2	57	125	176	.6	83	25	893	5.06	88	5	ND	7	24	1	2	2	23	.34	.096	31	40	.64	138	.02	6	1.03	.02	.07	5	220
CCA0+00E 0+80S	1	40	3257	259	3.9	33	12	554	5.55	124	5	ND	6	17	1	3	2	16	.25	.080	20	20	.33	71	.01	5	.62	.01	.04	142	540
CCA0+00E 0+90S	1	42	1229	262	2.0	38	14	751	4.83	115	5	ND	5	21	2	4	2	14	.32	.073	19	18	.36	88	.01	2	.56	.01	.03	167	530
CCA0+00E 1+00S	1	54	353	609	1.2	51	19	670	5.15	44	5	ND	6	23	10	2	2	20	.35	.091	23	27	.47	126	.01	7	.82	.02	.03	28	260
CCA0+00E 1+10S	1	53	484	224	1.1	51	26	1034	5.48	88	5	ND	10	17	1	2	2	18	.22	.082	31	20	.41	106	.01	4	.74	.01	.03	180	605
CCA0+00E 1+20S	2	44	81	155	.2	47	19	835	5.09	45	5	ND	5	14	1	2	2	21	.18	.086	20	29	.46	122	.01	11	.76	.02	.03	16	62
CCA0+00E 1+30S	1	37	52	87	.2	22	14	1473	5.18	17	5	ND	4	6	1	2	2	22	.04	.082	20	15	.22	60	.01	7	.94	.01	.05	5	47
CCA0+00E 1+40S	1	17	36	63	.7	11	7	1535	3.30	13	5	ND	2	6	1	2	2	26	.03	.089	19	15	.21	42	.01	2	.77	.01	.04	2	3
CCA0+00E 1+50S	1	14	40	50	.3	8	6	458	3.43	8	5	ND	2	5	1	2	2	37	.02	.048	20	12	.22	35	.01	2	.81	.01	.02	6	24
CCA0+00E 1+60S	1	19	57	69	.5	12	7	652	4.34	14	5	ND	2	5	1	2	2	28	.02	.078	15	17	.19	38	.01	8	.82	.01	.03	2	10
CCA0+00E 1+70S	1	28	65	84	1.0	16	10	914	5.69	19	5	ND	2	5	1	2	2	31	.02	.065	17	18	.21	38	.01	2	.93	.01	.03	4	13
CCA0+00E 1+80S	1	28	87	82	1.0	17	8	435	5.63	20	5	ND	3	5	1	2	2	26	.05	.086	16	18	.26	34	.01	3	1.15	.01	.03	5	45
CCA0+00E 1+90S	1	64	96	105	.2	30	18	824	5.79	21	5	ND	8	10	1	2	2	23	.11	.108	23	15	.40	47	.01	2	1.39	.01	.04	5	157
CCA0+00E 2+00S	1	187	83	227	.8	27	41	6217	10.31	37	5	ND	3	20	1	2	2	35	.40	.188	12	10	.30	185	.01	2	1.08	.02	.03	2	9
CCA0+00E 2+10S	1	28	52	69	.7	15	9	630	5.12	18	5	ND	2	5	1	2	2	26	.02	.115	16	11	.20	39	.01	10	.70	.01	.03	4	38
CCA0+00E 2+20S	1	29	49	76	.9	14	10	1744	4.70	17	5	ND	2	6	1	2	2	32	.04	.136	19	14	.20	41	.01	5	.68	.01	.03	4	23
CCA0+00E 2+30S	1	25	38	66	2.1	15	8	740	3.86	13	5	ND	2	7	1	2	2	27	.11	.122	18	14	.21	44	.01	2	.61	.01	.03	2	17
CCA0+00E 2+40S	1	41	161	137	.9	17	14	1416	7.37	23	5	ND	2	5	1	4	2	32	.03	.120	13	18	.23	31	.01	2	1.06	.01	.03	8	4
CCA0+00E 2+50S	1	23	44	66	.3	13	9	1419	4.61	17	5	ND	2	7	1	2	2	36	.03	.084	19	12	.19	32	.01	2	.75	.01	.03	3	15
CCA0+00E 2+60S	1	24	39	45	1.1	11	6	397	4.10	14	5	ND	2	4	1	2	2	27	.01	.113	19	10	.12	33	.01	2	.55	.01	.02	3	9
CCA0+00E 2+70S	1	17	19	35	.3	8	5	908	2.71	8	5	ND	2	5	1	2	2	24	.05	.126	21	14	.14	31	.01	12	.53	.01	.04	3	51
CCA0+00E 2+80S	1	17	19	51	.5	10	7	1593	3.12	10	5	ND	2	6	1	2	2	29	.05	.118	19	11	.17	49	.01	12	.57	.01	.03	5	7
CCA0+00E 2+90S	1	51	32	78	.5	27	13	803	4.70	15	5	ND	4	6	1	2	2	24	.04	.085	22	22	.33	37	.01	3	1.08	.01	.03	2	4
CCA0+00E 3+00S	1	23	19	48	1.0	13	7	445	3.63	17	5	ND	2	5	1	2	2	35	.02	.104	19	13	.18	39	.01	8	.60	.01	.03	3	36
CCA0+00E 3+10S	1	15	20	50	.5	10	6	817	3.33	8	5	ND	2	7	1	2	2	28	.05	.087	20	11	.14	35	.01	2	.45	.01	.03	20	7
CCA0+00E 3+20S	1	16	20	36	1.2	10	5	222	3.29	11	5	ND	2	5	1	2	2	18	.02	.063	20	10	.11	18	.01	7	.40	.01	.02	3	3
CCA0+00E 3+30S	1	19	21	41	.5	11	5	257	3.61	9	5	ND	3	5	1	2	2	19	.01	.074	22	13	.14	26	.01	7	.62	.01	.03	3	21
STD C/AU-S	18	58	40	132	7.1	69	28	1048	4.01	43	23	7	39	50	19	16	18	57	.48	.091	37	61	.88	178	.08	33	1.84	.08	.13	14	48

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA0+00E 3+40S	1	20	23	44	.6	12	6	455	4.09	17	5	ND	2	5	1	2	2	29	.02	.101	20	18	.13	27	.01	8	.52	.01	.02	3	33
CCA0+00E 3+50S	1	43	44	79	.7	20	13	1075	7.62	16	5	ND	4	9	1	2	2	32	.12	.129	22	22	.29	67	.02	2	1.03	.01	.04	1	1
CCA0+00E 3+60S	1	47	34	74	.6	20	13	850	7.11	16	5	ND	3	5	1	2	3	28	.03	.101	21	23	.29	35	.01	2	.99	.01	.04	1	1
CCA0+00E 3+70S	1	101	60	124	.2	43	25	1516	7.04	18	5	ND	9	9	1	2	2	27	.07	.060	33	22	.51	66	.01	4	1.54	.02	.04	2	1
CCA0+00E 3+80S	1	39	37	77	.4	21	13	1033	6.48	15	5	ND	3	6	1	2	2	27	.04	.128	22	25	.32	37	.01	2	1.12	.01	.03	1	1
CCA0+00E 3+90S	1	36	28	72	.5	19	11	601	6.63	12	5	ND	3	6	1	2	5	33	.03	.121	24	21	.25	33	.01	11	.89	.01	.04	1	1
CCA0+00E 4+00S	1	31	26	72	1.2	16	10	981	5.02	16	5	ND	2	8	1	2	2	37	.06	.098	23	18	.23	43	.01	2	.90	.01	.04	1	1
CCA0+50E 0+60S	1	46	52	168	.4	62	17	577	4.36	48	5	ND	4	28	1	7	3	25	.34	.089	26	43	.54	166	.01	2	1.17	.02	.06	4	28
CCA0+50E 0+70S	1	33	50	179	.3	57	16	761	4.46	36	5	ND	5	20	1	2	2	30	.20	.094	32	54	.58	137	.01	2	1.27	.02	.09	2	6
CCA0+50E 0+80S	2	45	59	212	.3	72	19	655	5.01	41	5	ND	5	23	1	2	4	32	.23	.089	30	62	.70	159	.02	2	1.54	.02	.09	3	9
CCA0+50E 0+90S	1	43	74	185	.6	69	19	708	4.72	48	6	ND	4	23	1	2	3	30	.22	.098	31	53	.65	145	.02	3	1.29	.02	.08	10	925
CCA0+50E 1+00S	1	57	1185	404	2.3	67	28	1956	6.02	100	5	ND	8	20	4	3	2	17	.27	.076	23	19	.49	139	.01	2	.66	.02	.03	205	885
CCA0+50E 1+10S	1	55	2877	546	7.9	40	20	989	7.44	271	5	ND	6	16	4	9	6	13	.25	.082	14	15	.47	47	.01	4	.48	.02	.03	238	1690
CCA0+50E 1+20S	3	64	244	243	1.4	69	27	942	5.92	85	5	ND	8	32	1	5	2	23	.41	.101	27	30	.54	213	.02	2	.82	.02	.04	111	490
CCA0+50E 1+30S	2	67	719	288	1.9	58	24	984	5.98	208	5	ND	8	21	2	4	3	20	.28	.089	29	23	.47	141	.01	3	.83	.02	.05	71	1405
CCA0+50E 1+40S	1	90	82	152	.6	55	25	986	6.19	47	5	ND	12	13	1	2	2	22	.14	.089	41	25	.47	82	.01	2	1.16	.01	.04	4	180
CCA0+50E 1+50S	1	63	123	119	.6	35	17	510	6.13	31	5	ND	7	9	1	2	3	24	.11	.103	27	19	.40	54	.01	9	1.18	.02	.05	13	40
CCA0+50E 1+60S	1	14	36	63	.3	7	5	1047	3.73	10	5	ND	2	7	1	3	2	35	.04	.046	20	15	.13	67	.02	2	.75	.01	.03	49	9
CCA0+50E 1+70S	1	20	74	97	.3	14	8	1126	5.18	16	5	ND	2	9	1	2	2	31	.10	.072	17	23	.19	74	.02	9	.92	.01	.02	3	111
CCA0+50E 1+80S	1	20	42	78	.4	12	8	922	4.83	17	5	ND	1	7	1	2	2	42	.03	.074	18	23	.17	55	.02	2	.73	.01	.04	1	10
CCA0+50E 1+90S	1	18	29	53	.7	9	6	535	2.99	14	5	ND	2	5	1	2	2	23	.04	.059	18	13	.14	40	.01	5	.58	.01	.03	4	5
CCA0+50E 2+00S	1	35	84	115	.2	13	11	2977	8.82	15	5	ND	2	6	1	2	2	34	.02	.117	18	15	.17	85	.01	2	.94	.01	.02	4	6
CCA0+50E 2+10S	1	35	110	92	.6	15	10	967	5.24	16	5	ND	2	7	1	2	2	28	.07	.102	19	16	.23	38	.01	2	.82	.01	.04	2	1
CCA0+50E 2+20S	1	30	83	85	.7	14	10	1271	5.23	14	5	ND	2	8	1	2	2	29	.08	.112	20	18	.20	49	.01	4	.87	.01	.03	2	1
CCA0+50E 2+30S	1	44	37	81	1.0	19	12	955	5.39	16	5	ND	3	6	1	2	2	28	.02	.091	21	17	.31	48	.01	2	1.04	.01	.04	1	4
CCA0+50E 2+40S	1	33	49	97	.5	21	10	1228	4.76	12	5	ND	3	10	1	2	2	23	.11	.141	23	18	.33	128	.01	8	.86	.01	.04	2	3
CCA0+50E 2+50S	1	31	26	59	.7	15	8	408	3.99	11	5	ND	3	5	1	2	2	21	.02	.065	22	12	.22	34	.01	2	.76	.01	.03	1	1
CCA0+50E 2+60S	1	26	53	68	.9	14	8	595	4.28	13	5	ND	2	6	1	2	2	24	.02	.102	20	14	.21	52	.01	2	.69	.01	.03	1	5
CCA0+50E 2+70S	1	44	47	73	.5	17	10	703	5.69	14	5	ND	3	5	1	2	2	26	.03	.101	21	18	.23	34	.01	27	1.01	.02	.03	1	1
CCA0+50E 2+80S	1	38	40	81	.6	19	11	985	5.69	17	5	ND	3	8	1	2	2	27	.11	.160	20	15	.25	34	.01	2	.81	.01	.06	2	1
CCA0+50E 2+90S	1	41	34	73	.4	20	12	840	5.08	12	5	ND	4	7	1	2	2	35	.06	.081	25	16	.42	36	.01	2	1.07	.01	.05	2	1
CCA0+50E 3+00S	1	74	42	91	.4	26	18	813	6.02	17	5	ND	6	10	1	2	2	28	.12	.078	27	16	.41	74	.01	2	1.37	.01	.05	2	31
CCA0+50E 3+10S	1	60	40	87	.5	24	15	951	5.86	15	5	ND	5	8	1	2	2	30	.09	.093	25	14	.36	57	.01	2	1.17	.01	.05	2	8
CCA0+50E 3+20S	1	30	38	54	.5	13	7	301	4.09	16	5	ND	3	5	1	2	3	24	.01	.072	20	14	.22	36	.01	6	.88	.01	.03	1	1
CCA0+50E 3+30S	1	46	62	80	.6	19	13	854	6.04	17	5	ND	4	6	1	2	2	26	.02	.080	23	16	.23	45	.01	2	.97	.01	.04	2	5
CCA0+50E 3+40S	1	41	43	84	.5	19	10	602	6.13	17	5	ND	4	6	1	2	2	30	.01	.096	22	17	.19	39	.01	2	.96	.01	.03	2	6
STD C/AU-S	18	58	43	132	7.4	67	28	1047	3.92	40	24	7	38	50	18	16	20	57	.47	.089	37	58	.87	178	.08	33	1.79	.08	.14	14	47

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA0+50E 3+50S	1	19	30	41	.2	10	7	1115	4.23	10	5	ND	3	5	1	2	2	28	.02	.105	21	13	.16	41	.01	2	.68	.01	.03	4	2
CCA0+50E 3+60S	1	27	30	64	.2	13	9	1273	5.42	12	5	ND	2	6	1	2	2	35	.03	.105	18	14	.20	58	.01	2	.88	.01	.03	1	1
CCA0+50E 3+70S	1	38	42	75	.2	18	12	926	6.74	10	5	ND	2	6	1	2	2	27	.05	.084	18	17	.27	44	.01	2	.91	.01	.03	1	4
CCA0+50E 3+80S	1	53	59	93	.7	22	16	1238	7.90	15	5	ND	3	7	1	2	2	31	.06	.160	19	17	.29	28	.01	2	1.00	.01	.03	2	5
CCA0+50E 3+90S	1	31	36	62	.3	15	11	1286	5.94	10	5	ND	3	5	1	2	2	31	.01	.147	21	14	.24	39	.01	2	.87	.01	.03	1	8
CCA0+50E 4+00S	1	19	28	39	.5	10	5	199	3.92	9	5	ND	2	4	1	2	2	30	.02	.110	20	13	.16	23	.01	2	.69	.01	.02	2	2

IMPERIAL METALS PROJECT-4203 FILE # 87-3946

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC10+50W 5+00N	1	19	20	56	.3	18	5	121	3.55	22	5	ND	3	6	1	3	2	20	.09	.048	23	14	.09	34	.01	2	.65	.01	.02	3	23
CC10+50W 4+90N	1	13	16	46	.2	13	4	117	2.37	15	5	ND	4	6	1	2	2	18	.04	.041	24	10	.06	31	.01	2	.64	.01	.02	10	15
CC10+50W 4+80N	1	26	36	83	.3	24	13	907	4.70	19	5	ND	4	11	1	4	2	24	.09	.063	22	21	.22	49	.01	2	1.11	.01	.03	2	8
CC10+50W 4+70N	1	36	39	117	.3	36	15	2711	4.17	24	5	ND	4	28	1	2	2	29	.28	.066	18	22	.37	80	.01	2	1.17	.02	.03	1	13
CC10+50W 4+60N	1	38	40	98	.3	39	15	740	4.34	34	5	ND	6	14	1	2	2	17	.18	.051	24	17	.38	49	.01	7	.91	.02	.03	4	265
CC10+50W 4+50N	1	19	11	41	.1	13	5	114	2.10	19	5	ND	2	4	1	2	2	26	.02	.037	24	11	.04	29	.01	2	.35	.01	.01	4	49
CC10+50W 4+40N	1	20	16	55	.2	19	6	223	3.96	55	5	ND	5	4	1	2	2	25	.03	.051	24	11	.11	42	.01	9	.61	.01	.02	6	38
CC10+50W 4+30N	1	13	11	34	.3	12	4	103	2.20	26	5	ND	5	4	1	2	2	19	.02	.036	24	8	.06	26	.01	2	.44	.01	.02	4	35
CC10+50W 4+20N	1	28	38	81	.5	25	9	455	5.53	47	5	ND	6	5	1	2	2	22	.03	.087	22	19	.16	44	.01	2	1.02	.01	.03	5	32
CC10+50W 4+10N	1	12	15	35	.2	11	3	93	2.28	39	5	ND	5	4	1	4	2	16	.02	.060	20	10	.08	49	.01	2	.53	.01	.02	5	21
CC10+50W 4+00N	1	13	20	38	.3	13	4	516	2.87	36	5	ND	4	6	1	5	2	16	.08	.089	23	10	.09	44	.01	3	.48	.01	.04	3	32
CC10+50W 3+90N	1	21	24	64	.4	22	7	368	3.96	35	5	ND	2	5	1	2	2	21	.06	.105	20	14	.15	64	.01	2	.57	.01	.03	5	13
CC10+50W 3+80N	1	25	14	65	.3	28	7	210	3.46	49	5	ND	3	4	1	3	2	17	.03	.056	23	7	.06	37	.01	2	.48	.01	.02	3	28
CC10+50W 3+70N	1	27	23	71	.2	25	8	394	4.52	54	5	ND	4	5	1	3	2	18	.07	.071	21	12	.12	49	.01	6	.56	.01	.04	5	21
CC10+50W 3+60N	1	20	20	58	.2	17	8	567	3.15	39	5	ND	3	6	1	3	2	20	.07	.074	21	7	.05	61	.01	5	.47	.01	.03	2	12
CC10+50W 3+50N	1	25	20	58	.3	19	8	223	3.63	22	5	ND	3	6	1	2	2	26	.03	.083	18	16	.33	51	.01	2	.92	.01	.04	2	9
CC10+50W 3+40N	1	26	26	74	.3	24	10	807	3.48	33	5	ND	3	14	1	2	2	20	.22	.070	20	12	.25	50	.01	2	.63	.01	.03	1	38
CC10+50W 3+30N	1	32	34	77	.4	26	11	631	6.06	38	5	ND	3	5	1	2	2	26	.02	.072	20	17	.22	45	.01	3	.95	.01	.03	4	32
CC10+50W 3+20N	1	33	21	71	.3	18	11	2970	4.60	18	5	ND	3	4	1	2	2	40	.01	.089	18	12	.26	100	.01	2	.99	.01	.03	1	82
CC10+50W 3+10N	1	33	17	58	.4	21	11	1209	4.57	21	5	ND	5	4	1	2	2	33	.01	.073	25	16	.32	63	.01	2	1.14	.01	.02	1	11
CC10+50W 3+00N	1	35	16	66	.7	18	10	1583	3.75	19	5	ND	3	5	1	2	2	29	.02	.059	23	11	.13	62	.01	4	.67	.01	.03	3	38
CC10+50W 2+90N	1	41	36	95	.5	26	12	868	5.63	33	5	ND	2	6	1	2	2	26	.04	.091	18	18	.21	59	.01	7	.87	.01	.03	10	23
CC10+50W 2+80N	1	28	21	64	.2	19	7	503	3.98	28	5	ND	3	5	1	2	2	29	.02	.062	23	12	.12	62	.01	2	.54	.01	.04	2	11
CC10+50W 2+70N	1	31	30	72	.2	23	9	249	5.48	32	5	ND	3	6	1	2	2	28	.03	.061	20	16	.19	29	.01	2	.88	.01	.02	3	12
CC10+50W 2+60N	1	22	78	106	.2	21	8	423	4.13	23	5	ND	3	24	1	2	2	19	.32	.069	14	14	.20	26	.01	5	.73	.01	.03	11	14
CC10+50W 2+50N	1	33	161	180	.7	33	14	928	4.33	25	5	ND	5	27	1	2	2	16	.44	.066	15	18	.37	33	.01	2	.94	.02	.03	8	41
CC10+50W 2+40N	1	25	87	112	.4	23	13	1174	4.30	25	5	ND	3	13	1	2	2	20	.12	.068	17	15	.24	46	.01	2	.89	.01	.03	7	22
CC10+50W 2+30N	1	27	50	92	.1	22	11	570	4.53	27	5	ND	3	8	1	2	2	23	.03	.078	19	17	.20	54	.01	2	.87	.01	.03	7	1
CC10+50W 2+20N	1	35	33	84	.4	29	12	555	4.84	30	5	ND	3	6	1	2	2	19	.03	.070	21	18	.21	53	.01	2	.67	.01	.03	6	45
CC10+50W 2+10N	1	75	114	131	.4	50	26	1045	6.54	35	5	ND	9	9	1	2	2	17	.09	.065	27	18	.34	40	.01	2	1.05	.01	.03	5	41
CC10+50W 2+00N	1	51	81	112	.7	33	17	1209	5.51	25	5	ND	4	14	1	2	2	20	.17	.073	21	16	.30	62	.01	2	1.00	.01	.04	4	32
CC10+50W 1+90N	1	49	43	129	.3	33	17	1804	4.87	25	5	ND	5	22	1	2	2	20	.30	.110	16	16	.32	78	.01	2	1.19	.01	.04	3	23
CC10+50W 1+80N	1	45	47	129	.3	32	16	1718	4.98	27	5	ND	4	22	1	2	2	20	.32	.115	15	16	.32	75	.01	2	1.09	.01	.05	2	17
CC10+50W 1+70N	1	25	25	67	.3	21	8	422	4.13	24	5	ND	2	6	1	2	2	25	.03	.080	19	19	.21	33	.01	2	.76	.01	.03	4	14
CC10+50W 1+60N	1	28	31	75	.1	24	9	462	5.30	33	5	ND	3	5	1	4	2	21	.03	.095	18	16	.25	41	.01	2	.81	.01	.03	6	32
CC10+50W 1+50N	1	98	143	142	.7	44	30	1428	7.23	33	5	ND	9	7	1	3	2	17	.08	.072	23	17	.37	40	.01	5	1.08	.01	.02	9	109
STD C/AU-S	18	58	40	132	7.2	70	27	1040	3.95	42	25	7	38	49	19	18	22	56	.47	.088	37	59	.87	176	.08	36	1.81	.06	.15	12	50

IMPERIAL METALS PROJECT-4203 FILE # 87-3946

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC10+50W 1+40N	1	61	233	418	.6	37	27	1702	7.23	29	5	ND	6	40	2	2	2	19	.45	.095	21	27	.42	101	.01	6	1.05	.02	.04	6	25
CC10+50W 1+30N	2	74	570	393	2.2	38	24	1867	6.88	26	5	ND	5	31	3	3	3	20	.49	.093	19	19	.36	90	.01	3	.95	.02	.05	28	85
CC10+50W 1+20N	2	94	229	215	.5	48	29	1355	6.94	29	5	ND	8	34	1	2	2	18	.46	.086	22	15	.41	84	.01	2	.73	.02	.05	10	38
CC10+50W 1+10N	2	56	448	326	1.0	34	19	1966	5.44	23	5	ND	3	37	3	2	2	21	.42	.094	13	23	.30	94	.01	4	.93	.02	.04	36	4
CC10+50W 1+00N	1	63	230	195	.7	29	17	925	6.15	17	5	ND	5	6	1	2	2	22	.09	.067	25	16	.33	53	.01	2	1.15	.01	.04	21	12
CC10+50W 0+90N	1	29	35	76	.6	15	9	934	4.18	14	5	ND	2	4	1	2	2	19	.04	.096	16	12	.20	57	.01	2	.67	.01	.03	1	1
CC10+50W 0+80N	1	47	80	135	.4	22	14	1581	6.49	24	5	ND	3	6	1	2	2	24	.03	.103	25	14	.26	61	.01	2	1.11	.01	.04	7	1
CC10+50W 0+70N	1	35	27	70	.4	17	11	953	4.54	15	5	ND	2	3	1	2	2	21	.03	.099	15	11	.19	32	.01	2	.61	.01	.03	3	1
CC10+50W 0+60N	1	19	53	65	.6	10	6	642	3.33	12	5	ND	2	4	1	2	2	23	.02	.060	19	12	.12	33	.01	2	.49	.01	.04	81	162
CC10+50W 0+50N	1	18	327	143	2.0	11	6	867	3.68	28	5	ND	2	5	1	3	2	19	.03	.099	17	13	.14	26	.01	2	.60	.01	.04	127	24
CC10+50W 0+40N	1	15	15	40	.4	9	5	183	2.43	6	5	ND	2	3	1	2	2	17	.02	.089	19	9	.15	25	.01	2	.52	.01	.03	3	1
CC10+50W 0+30N	1	30	15	59	.4	12	10	730	4.18	13	5	ND	2	4	1	2	2	19	.04	.109	13	10	.15	34	.01	2	.49	.01	.04	15	1
CC10+50W 0+20N	1	7	11	24	.3	6	3	279	1.59	5	5	ND	2	4	1	2	2	24	.02	.061	29	12	.12	29	.02	2	.44	.01	.05	1	1
CC10+50W 0+10N	1	16	14	47	.5	18	7	679	2.53	8	5	ND	2	4	1	2	2	23	.02	.077	18	26	.28	41	.01	2	.68	.01	.04	2	1
CC10+50W 0+00N	1	15	14	49	.3	14	6	498	3.00	7	5	ND	2	5	1	2	2	24	.05	.080	20	20	.25	28	.01	2	.75	.01	.04	1	1
CC10+50W 0+10S	1	35	23	66	.9	15	13	3616	4.00	7	5	ND	2	7	1	2	2	38	.09	.136	15	18	.31	60	.01	3	.87	.01	.05	1	1
CC10+50W 0+20S	1	17	13	49	.4	18	8	1589	2.80	5	5	ND	2	5	1	2	2	24	.07	.079	17	25	.28	66	.01	2	.73	.01	.04	1	4
CC10+50W 0+30S	2	127	21	89	.2	31	15	958	5.83	7	5	ND	6	7	1	2	2	37	.09	.144	20	22	.58	37	.01	2	1.54	.01	.03	1	1
CC10+50W 0+40S	1	11	13	33	.4	19	5	122	2.59	8	5	ND	2	3	1	2	2	42	.01	.054	21	45	.33	20	.01	2	.85	.01	.03	1	1
CC10+50W 0+50S	1	27	19	75	.3	19	10	1161	4.56	9	5	ND	3	4	1	2	2	28	.06	.094	18	17	.36	45	.01	2	1.01	.01	.04	1	1
CC10+50W 0+60S	1	9	13	33	.6	8	3	247	2.08	4	5	ND	4	4	1	2	2	18	.03	.062	27	8	.18	23	.01	2	.70	.01	.04	1	1
CC10+50W 0+70S	1	24	21	66	.2	17	7	329	5.39	10	5	ND	6	3	1	2	2	22	.01	.116	24	18	.33	23	.01	2	1.10	.01	.04	1	1
CC10+50W 0+80S	1	14	15	44	.2	9	4	292	3.39	4	5	ND	4	3	1	2	2	21	.02	.092	18	10	.15	17	.01	2	.61	.01	.03	1	2
CC10+50W 0+90S	1	34	25	77	.1	17	10	1100	4.23	12	5	ND	4	6	1	2	2	21	.11	.103	21	10	.22	30	.01	2	.67	.01	.04	1	1
CC10+50W 1+00S	1	28	22	82	.2	19	8	296	5.73	11	5	ND	7	3	1	2	2	22	.02	.076	22	15	.38	25	.01	2	1.16	.01	.03	1	1
CC9+50W 2+00N	1	27	19	83	.3	19	11	1710	3.83	12	5	ND	3	11	1	2	2	30	.08	.061	18	16	.37	91	.01	2	1.01	.01	.04	1	1
CC9+50W 1+90N	1	16	15	44	.1	12	5	219	2.50	9	5	ND	3	5	1	2	2	23	.02	.058	24	14	.21	37	.01	2	.77	.01	.04	3	1
CC9+50W 1+80N	1	31	23	62	.1	19	9	465	4.59	22	5	ND	4	4	1	2	2	24	.01	.058	25	21	.31	49	.01	2	1.25	.01	.04	2	2
CC9+50W 1+70N	1	47	27	93	.1	36	18	444	5.82	25	5	ND	8	7	1	2	2	22	.04	.054	25	22	.44	51	.01	2	1.72	.01	.04	3	23
CC9+50W 1+60N	1	25	27	93	.1	19	16	1860	4.23	18	5	ND	2	21	1	2	2	23	.30	.105	12	15	.25	99	.01	2	.91	.01	.04	5	1
CC9+50W 1+50N	1	55	43	109	.1	41	21	666	5.55	23	5	ND	8	7	1	3	2	26	.05	.047	27	21	.52	63	.01	2	1.55	.01	.05	2	13
CC9+50W 1+40N	1	73	51	186	.1	44	22	1245	5.90	26	5	ND	9	9	1	2	2	23	.11	.058	30	20	.47	73	.01	2	1.28	.01	.06	1	26
CC9+50W 1+30N	1	21	22	52	.3	16	7	378	3.27	18	5	ND	3	8	1	2	2	21	.07	.057	20	12	.22	62	.01	2	.74	.01	.04	3	62
CC9+50W 1+20N	1	29	29	63	.3	18	9	481	4.55	17	5	ND	3	5	1	2	2	24	.02	.062	19	16	.23	53	.01	3	.87	.01	.03	2	1
CC9+50W 1+10N	1	29	36	73	.1	18	10	756	3.77	12	5	ND	3	14	1	2	2	20	.16	.067	17	14	.24	54	.01	2	.76	.01	.04	2	4
CC9+50W 1+00N	1	14	17	36	.3	12	4	402	2.19	13	5	ND	2	5	1	3	2	20	.02	.046	21	14	.12	46	.01	3	.53	.01	.04	3	138
STD C/AU-S	19	59	41	132	7.3	68	28	1049	3.98	39	24	7	39	50	18	17	20	57	.47	.091	37	60	.87	179	.08	32	1.84	.08	.14	12	51

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC9+50W 0+90N	1	27	32	72	.6	17	8	624	4.68	20	5	ND	2	8	1	2	2	26	.09	.062	19	16	.19	38	.01	3	.73	.01	.04	5	18
CC9+50W 0+80N	1	38	41	105	.5	31	15	875	5.19	28	5	ND	4	32	1	2	2	20	.45	.093	20	21	.30	63	.01	2	1.31	.02	.05	3	32
CC9+50W 0+70N	1	70	65	122	.5	49	20	2370	7.20	28	5	ND	9	22	1	2	2	17	.28	.071	30	19	.37	85	.01	7	1.34	.02	.04	3	18
CC9+50W 0+60N	1	63	54	164	.4	35	17	1884	5.46	25	5	ND	4	41	1	2	2	19	.67	.101	16	16	.38	96	.01	4	1.11	.02	.06	3	1
CC9+50W 0+50N	2	168	53	137	1.1	64	35	1730	7.45	47	11	ND	5	41	1	2	2	15	.59	.099	14	12	.31	83	.01	2	.87	.02	.05	3	17
CC9+50W 0+40N	2	95	3336	712	9.2	78	30	1938	12.95	321	5	5	5	19	6	3	4	10	.32	.076	7	5	.21	61	.01	2	.36	.01	.04	961	2160
CC9+50W 0+30N	1	72	173	139	.5	40	25	1411	6.28	28	5	ND	5	22	1	2	2	19	.30	.082	17	16	.34	95	.01	2	.87	.01	.04	12	38
CC9+50W 0+20N	1	48	66	126	.6	29	15	1215	5.16	17	6	ND	4	49	1	2	2	22	.53	.098	14	24	.34	118	.01	2	1.25	.02	.05	3	160
CC9+50W 0+10N	1	54	41	118	.3	30	16	1035	4.99	18	5	ND	6	18	1	2	2	21	.17	.054	21	20	.37	100	.01	2	1.05	.01	.05	2	9
CC9+50W 0+00N	1	18	22	50	.3	8	4	211	3.86	8	5	ND	2	6	1	2	2	34	.04	.045	20	15	.10	50	.01	2	.57	.01	.04	3	1
CC9+50W 0+10S	1	16	20	45	.2	11	5	531	2.66	9	5	ND	2	4	1	2	2	21	.02	.072	18	15	.20	40	.01	2	.68	.01	.05	8	1
CC9+50W 0+20S	1	20	25	59	.3	12	5	169	3.45	6	5	ND	2	4	1	2	2	22	.02	.061	17	19	.23	41	.01	2	.88	.01	.03	2	1
CC9+50W 0+30S	1	11	14	40	.3	8	4	198	2.36	5	5	ND	2	4	1	2	2	21	.04	.069	17	12	.14	31	.01	2	.57	.01	.05	2	1
CC9+50W 0+40S	1	20	29	86	.3	13	11	1096	4.02	10	5	ND	2	6	1	2	2	24	.04	.115	16	17	.25	107	.01	2	.95	.01	.05	2	3
CC9+50W 0+50S	1	34	26	114	.5	20	13	2302	3.97	11	5	ND	3	36	1	2	2	22	.40	.145	12	19	.33	105	.01	5	1.16	.02	.05	1	1
CC9+50W 0+60S	2	30	28	126	.5	20	13	2940	3.87	12	8	ND	3	30	1	2	2	21	.34	.138	12	17	.32	108	.01	3	1.16	.02	.05	3	1
CC9+50W 0+70S	1	12	12	34	.2	8	4	210	2.68	6	7	ND	2	4	1	2	2	21	.02	.058	18	11	.17	24	.01	2	.65	.01	.03	2	2
CC9+50W 0+80S	1	16	15	52	.6	12	6	203	4.08	9	5	ND	3	3	1	2	2	22	.01	.065	19	16	.25	31	.01	2	.94	.01	.04	2	5
CC9+50W 0+90S	1	23	16	61	.4	13	6	353	4.90	12	5	ND	3	3	1	2	2	24	.01	.088	19	17	.23	32	.01	2	.89	.01	.04	1	3
CC9+50W 1+00S	1	17	16	47	.6	10	4	271	4.30	9	5	ND	2	4	1	2	2	23	.05	.067	18	16	.15	26	.01	2	.80	.01	.04	3	4
CC9+50W 1+10S	1	15	16	35	.2	9	4	215	3.21	8	5	ND	2	3	1	2	2	21	.01	.059	19	13	.14	24	.01	4	.73	.01	.04	1	1
CC9+50W 1+20S	1	12	9	29	.2	6	3	238	1.82	5	5	ND	2	4	1	2	2	16	.04	.084	21	8	.08	26	.01	3	.45	.01	.02	1	2
CC9+50W 1+30S	1	17	21	40	.4	9	5	405	3.30	5	5	ND	3	3	1	2	2	19	.01	.078	20	9	.13	28	.01	2	.69	.01	.03	1	1
CC9+50W 1+40S	1	13	13	32	.4	7	3	254	1.79	4	5	ND	3	3	1	2	2	14	.02	.062	21	7	.10	31	.01	4	.53	.01	.04	2	2
CC9+50W 1+50S	1	18	10	38	.1	7	4	161	2.97	7	5	ND	2	3	1	3	2	26	.01	.051	21	7	.09	23	.01	2	.56	.01	.03	1	3
CC9+50W 1+60S	1	28	16	59	.7	13	8	529	4.46	10	5	ND	3	3	1	2	2	26	.01	.087	16	15	.20	32	.01	2	.88	.01	.03	1	1
CC9+50W 1+70S	1	34	18	58	.7	12	8	394	4.44	10	5	ND	2	3	1	2	2	30	.01	.066	19	13	.21	21	.01	3	1.04	.01	.03	1	1
CC9+50W 1+80S	1	19	16	33	1.1	8	4	161	2.36	5	5	ND	3	3	1	2	2	20	.01	.048	21	12	.17	20	.01	2	.76	.01	.03	1	2
CC9+50W 1+90S	1	20	18	46	.2	11	5	549	3.36	6	5	ND	3	4	1	2	2	23	.02	.068	22	14	.18	27	.01	2	.77	.01	.03	2	1
CC9+50W 2+00S	1	19	15	45	.5	11	5	213	3.71	8	5	ND	3	4	1	2	2	31	.02	.070	21	14	.13	34	.01	2	.64	.01	.04	2	1
CC8+50W 1+00N	1	20	20	65	.3	17	8	489	3.73	21	5	ND	2	6	1	2	2	23	.03	.065	21	19	.20	69	.01	2	.73	.01	.04	2	2
CC8+50W 0+90N	1	48	36	107	.3	39	16	542	5.42	34	5	ND	5	6	1	3	2	22	.04	.059	23	20	.40	66	.01	5	1.39	.01	.04	5	22
CC8+50W 0+80N	1	57	37	106	.3	44	19	891	5.32	39	5	ND	9	15	1	2	2	20	.18	.055	29	18	.46	87	.01	2	1.13	.01	.05	3	13
CC8+50W 0+70N	1	25	22	54	.4	19	8	353	3.14	19	5	ND	3	9	1	2	2	20	.09	.079	20	16	.24	61	.01	2	.76	.01	.04	2	1
CC8+50W 0+60N	1	25	21	55	.6	20	8	403	2.88	19	5	ND	3	12	1	2	2	17	.16	.067	22	14	.25	47	.01	2	.71	.01	.05	1	14
CC8+50W 0+50N	1	10	16	34	.1	10	4	241	2.30	11	5	ND	2	5	1	2	2	18	.02	.057	23	15	.18	35	.01	2	.66	.01	.03	1	5
STD C/AU-S	18	58	39	133	7.3	67	27	1041	3.97	41	24	8	38	50	18	14	21	57	.47	.088	37	59	.87	177	.08	32	1.82	.08	.13	14	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC8+50W 0+40N	1	24	21	65	.2	21	8	371	3.97	13	5	ND	4	5	1	2	2	19	.04	.067	22	22	.35	47	.01	2	1.09	.01	.04	1	29
CC8+50W 0+30N	1	14	16	45	.2	12	5	828	2.57	11	5	ND	2	4	1	2	2	20	.02	.062	19	14	.16	43	.01	2	.63	.01	.03	2	8
CC8+50W 0+20N	1	22	20	59	.3	20	7	276	2.86	15	5	ND	2	8	1	2	2	17	.10	.064	21	15	.28	47	.01	2	.82	.01	.04	1	4
CC8+50W 0+10N	1	60	42	104	.4	42	18	1123	5.35	27	5	ND	6	7	1	2	2	18	.08	.066	26	25	.39	51	.01	2	1.21	.01	.04	2	32
CC8+50W 0+00N	1	19	16	44	.3	14	6	356	1.83	11	5	ND	3	11	1	2	2	11	.16	.041	25	10	.17	42	.01	2	.60	.01	.02	2	21
CC8+50W 0+10S	1	7	12	28	.5	7	2	97	1.58	9	5	ND	2	4	1	2	2	15	.02	.065	22	12	.13	22	.01	2	.56	.01	.02	1	2
CC8+50W 0+20S	1	12	14	34	.4	11	3	232	2.27	17	5	ND	2	4	1	2	2	15	.02	.050	20	17	.16	39	.01	2	.69	.01	.03	2	44
CC8+50W 0+30S	1	53	60	95	.3	37	18	1246	4.90	34	5	ND	7	14	1	2	2	17	.20	.058	27	17	.36	64	.01	2	.91	.01	.04	2	27
CC8+50W 0+40S	1	31	43	74	.3	20	13	1257	6.28	18	5	ND	3	4	1	2	2	26	.03	.105	17	19	.27	39	.01	2	.90	.01	.02	11	9
CC8+50W 0+50S	1	14	22	32	.5	9	3	159	2.35	10	5	ND	2	7	1	2	2	16	.12	.054	18	14	.18	26	.01	2	.76	.01	.02	8	3
CC8+50W 0+60S	2	47	110	125	.2	29	13	6669	6.56	34	5	ND	3	15	1	2	2	16	.33	.208	15	13	.14	95	.01	5	.82	.01	.04	3	3
CC8+50W 0+70S	1	44	399	280	.9	48	19	669	4.57	60	5	ND	7	22	2	2	2	15	.34	.061	24	16	.45	57	.01	2	.83	.01	.04	31	430
CC8+50W 0+80S	1	46	39	77	.3	15	14	625	4.74	9	5	ND	3	7	1	2	2	16	.05	.072	18	16	.19	37	.01	2	.69	.01	.03	1	2
CC8+50W 0+90S	1	58	32	92	.4	35	17	579	4.89	20	5	ND	6	19	1	2	2	17	.21	.055	23	21	.38	57	.01	2	1.04	.01	.04	1	8
CC8+50W 1+00S	1	41	26	77	.2	25	13	459	4.36	13	5	ND	4	9	1	2	2	17	.10	.056	21	15	.26	19	.01	4	.77	.01	.02	1	4
CC8+50W 1+10S	1	57	30	93	.1	37	17	719	4.57	17	5	ND	10	8	1	2	2	14	.09	.064	29	15	.28	22	.01	12	.74	.01	.02	1	1
CC8+50W 1+20S	1	21	19	53	.1	16	5	116	4.24	11	5	ND	3	5	1	2	2	18	.04	.047	22	15	.17	19	.01	5	.64	.01	.02	1	2
CC8+50W 1+30S	1	15	24	66	.4	14	6	327	3.13	7	5	ND	2	10	1	2	2	26	.08	.049	21	18	.28	59	.01	5	.97	.01	.04	1	1
CC8+50W 1+40S	1	26	36	100	.6	19	10	760	4.09	8	11	ND	2	38	1	2	2	27	.36	.105	14	20	.34	53	.02	2	1.32	.02	.05	1	1
CC8+50W 1+50S	1	42	33	109	.3	29	14	944	4.83	13	8	ND	5	33	1	2	2	23	.40	.097	19	18	.47	48	.02	7	1.14	.02	.03	1	1
CC8+50W 1+60S	1	47	37	124	.5	24	12	1201	3.59	7	22	ND	2	95	1	2	2	18	1.29	.169	9	22	.47	67	.01	5	1.19	.02	.06	2	1
CC8+50W 1+70S	1	46	28	117	.4	24	15	1650	4.55	7	11	ND	2	86	1	2	2	23	1.07	.168	12	23	.44	62	.02	4	1.61	.02	.05	3	1
CC8+50W 1+80S	1	34	44	117	.4	24	14	910	4.86	7	7	ND	4	59	1	2	2	23	.69	.100	14	23	.43	45	.02	2	1.37	.02	.05	1	2
CC8+50W 1+90S	1	29	30	95	.1	21	12	684	3.78	9	5	ND	3	89	1	2	2	18	1.12	.080	10	18	.50	47	.01	2	1.06	.02	.04	1	2
CC8+50W 2+00S	1	38	35	119	.4	26	15	1038	4.55	13	5	ND	4	38	1	2	2	23	.40	.080	17	21	.45	46	.01	2	1.21	.02	.05	2	3
CC7+50W 1+00N	1	18	18	43	.5	15	4	262	2.76	51	5	ND	2	8	1	2	2	20	.11	.080	16	11	.11	54	.01	3	.51	.01	.04	4	8
CC7+50W 0+90N	1	20	25	49	.4	17	5	142	3.85	51	5	ND	3	4	1	5	2	15	.01	.046	17	15	.17	66	.01	2	.73	.01	.03	5	10
CC7+50W 0+80N	1	16	14	45	.2	15	5	1337	2.36	46	5	ND	2	6	1	2	2	16	.09	.062	17	11	.13	97	.01	2	.59	.01	.04	4	9
CC7+50W 0+70N	1	24	23	63	.1	23	7	326	3.73	71	5	ND	3	7	1	3	2	16	.06	.054	20	12	.19	91	.01	2	.71	.01	.04	3	8
CC7+50W 0+60N	1	20	24	55	.2	19	6	145	3.43	57	5	ND	3	4	1	2	2	14	.02	.049	18	14	.20	68	.01	2	.74	.01	.03	3	7
CC7+50W 0+50N	1	26	30	69	.9	24	9	1752	3.89	55	5	ND	2	6	1	3	2	18	.03	.068	17	14	.18	120	.01	2	.70	.01	.04	3	5
CC7+50W 0+40N	1	6	11	27	.5	6	2	96	1.32	22	5	ND	2	5	1	2	2	14	.02	.039	22	10	.08	49	.01	2	.43	.01	.03	2	19
CC7+50W 0+30N	1	44	40	93	.2	43	16	626	4.77	62	5	ND	7	9	1	2	2	16	.09	.049	26	17	.37	80	.01	2	1.03	.01	.04	4	34
CC7+50W 0+20N	1	22	20	64	.7	22	7	301	3.76	43	5	ND	3	7	1	2	2	18	.06	.045	22	17	.21	85	.01	2	.75	.01	.04	2	23
CC7+50W 0+10N	1	27	28	68	.6	23	10	846	3.96	41	5	ND	3	6	1	3	2	16	.06	.054	20	16	.19	110	.01	3	.73	.01	.04	3	64
CC7+50W 0+00N	1	32	29	83	.2	27	10	309	4.62	21	5	ND	5	5	1	2	2	18	.02	.047	23	22	.36	71	.01	2	1.13	.01	.05	2	5
CC7+50W 0+10S	1	24	29	65	.1	22	8	268	3.56	23	5	ND	3	7	1	2	2	18	.07	.054	20	18	.25	76	.01	2	.85	.01	.04	2	28
STD C/AU-S	18	58	40	132	7.1	67	27	1028	3.94	36	24	7	38	50	18	18	21	56	.47	.089	37	58	.87	178	.08	33	1.82	.08	.13	12	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC7+50W 0+20S	1	18	22	60	.5	18	8	382	3.25	15	5	ND	4	7	1	3	2	20	.08	.052	23	20	.31	157	.01	2	.97	.01	.05	1	2
CC7+50W 0+30S	1	27	29	69	.5	21	10	465	3.88	19	5	ND	5	5	1	3	2	21	.04	.058	22	22	.35	91	.01	2	1.15	.01	.05	2	9
CC7+50W 0+40S	1	37	181	192	.8	37	21	837	5.16	28	5	ND	10	26	1	4	2	25	.41	.088	37	24	.49	64	.02	2	1.06	.02	.05	46	265
CC7+50W 0+50S	1	55	40	95	.3	38	21	988	5.79	25	5	ND	9	7	1	4	2	17	.08	.060	30	22	.45	39	.01	2	1.04	.01	.03	1	7
CC7+50W 0+60S	1	23	41	57	.7	14	6	237	3.82	9	5	ND	2	22	1	3	2	27	.32	.054	19	21	.25	62	.01	2	1.20	.02	.04	1	5
CC7+50W 0+70S	1	35	47	72	.2	14	6	201	5.02	12	5	ND	3	7	1	2	2	30	.06	.047	20	21	.19	59	.01	3	1.19	.01	.03	2	2
CC7+50W 0+80S	1	25	42	78	.4	17	9	458	4.28	11	5	ND	3	43	1	2	2	29	.59	.056	19	21	.29	69	.01	2	1.39	.02	.04	1	4
CC7+50W 0+90S	1	61	41	122	.3	32	16	977	5.05	13	5	ND	5	40	1	2	2	20	.49	.086	18	23	.43	74	.01	4	1.30	.02	.05	1	10
CC7+50W 1+00S	1	55	49	100	.5	25	13	761	4.32	12	5	ND	4	52	1	2	3	17	.82	.083	17	20	.33	57	.01	2	1.07	.02	.04	7	825
CC7+50W 1+10S	1	29	48	81	.3	19	11	397	4.41	22	5	ND	4	43	1	2	2	21	.67	.073	17	22	.35	52	.01	3	1.26	.02	.05	2	8
CC7+50W 1+20S	1	48	46	90	.5	26	18	754	5.82	25	5	ND	6	34	1	2	2	23	.51	.058	22	19	.40	59	.01	2	1.24	.02	.05	1	13
CC7+50W 1+30S	1	56	44	106	.4	29	17	1251	6.57	16	5	ND	6	12	1	2	2	24	.09	.065	22	22	.39	78	.01	2	1.37	.02	.04	2	38
CC7+50W 1+40S	1	51	37	107	.3	36	17	795	4.84	14	5	ND	8	26	1	2	2	18	.41	.075	29	17	.44	54	.01	2	.95	.02	.04	1	11
CC7+50W 1+50S	1	38	31	89	.4	27	13	761	4.78	9	5	ND	5	35	1	2	2	23	.56	.091	19	23	.40	77	.01	3	1.38	.02	.04	1	8
CC7+50W 1+60S	1	97	38	98	.4	33	17	897	5.35	11	5	ND	6	32	1	3	2	25	.54	.106	23	23	.50	65	.01	3	1.50	.02	.04	1	7
CC7+50W 1+70S	1	36	39	86	.6	24	14	1090	5.02	7	5	ND	5	18	1	5	2	24	.22	.104	17	24	.41	68	.01	5	1.35	.02	.04	1	3
CC7+50W 1+80S	1	25	27	66	.3	18	7	202	4.14	4	5	ND	3	6	1	2	2	28	.03	.058	21	27	.33	53	.01	5	1.28	.01	.03	1	22
CC7+50W 1+90S	1	41	37	101	.5	30	13	767	4.46	12	5	ND	5	42	1	2	2	20	.68	.093	23	24	.42	81	.01	3	1.32	.02	.04	1	4
CC7+50W 2+00S	1	17	27	65	.2	20	6	157	3.31	9	5	ND	4	12	1	2	2	22	.14	.057	22	28	.36	53	.01	2	1.05	.01	.04	1	19
CC6+50W 0+00S	1	39	37	93	.4	39	15	760	4.61	45	5	ND	7	35	1	2	2	16	.49	.063	19	19	.37	87	.01	3	1.12	.02	.06	2	23
CC6+50W 0+10S	1	40	36	94	.2	40	16	669	4.71	40	5	ND	8	20	1	4	2	17	.25	.054	26	23	.42	80	.01	2	1.14	.02	.05	3	28
CC6+50W 0+20S	1	46	38	101	.5	38	16	771	4.91	37	5	ND	7	17	1	2	2	18	.19	.062	26	20	.40	100	.01	2	1.36	.02	.08	4	20
CC6+50W 0+30S	1	46	82	120	.5	37	15	618	4.60	13	5	ND	7	23	1	2	2	21	.26	.055	28	25	.51	82	.01	2	1.26	.02	.07	2	13
CC6+50W 0+40S	1	46	61	123	.4	39	16	657	4.95	13	5	ND	10	18	1	2	2	21	.26	.056	32	26	.53	74	.01	2	1.23	.02	.07	1	37
CC6+50W 0+50S	1	42	236	252	.6	38	16	930	5.48	19	5	ND	7	27	1	2	2	21	.36	.070	27	27	.45	74	.01	2	1.31	.02	.07	4	28
CC6+50W 0+60S	1	28	218	179	.5	24	10	330	4.38	19	5	ND	6	15	1	2	2	20	.17	.055	23	19	.34	42	.01	2	1.09	.01	.05	7	41
CC6+50W 0+70S	1	38	85	145	.6	27	14	1106	4.44	10	5	ND	4	30	1	2	2	18	.46	.082	17	20	.34	58	.01	2	1.19	.02	.03	1	11
CC6+50W 0+80S	1	32	86	231	.4	22	14	1164	6.30	14	5	ND	4	14	2	3	2	24	.09	.068	18	25	.27	60	.02	2	1.30	.02	.05	10	6
CC6+50W 0+90S	1	72	55	152	.3	37	21	1499	6.25	20	5	ND	6	15	1	3	3	17	.14	.069	25	18	.34	95	.01	5	1.03	.02	.05	2	33
CC6+50W 1+00S	1	27	30	85	.3	19	8	328	5.16	8	5	ND	3	6	1	2	2	25	.03	.049	19	22	.27	48	.01	2	1.22	.01	.04	1	2
CC6+50W 1+10S	1	21	19	53	.3	12	7	539	4.22	12	5	ND	3	4	1	3	2	34	.01	.038	22	15	.15	44	.01	2	.90	.01	.02	1	7
CC6+50W 1+20S	1	77	75	117	.4	31	22	2034	6.41	23	5	ND	5	31	1	2	2	12	.81	.088	17	10	.23	72	.01	13	.59	.02	.03	5	6
CC6+50W 1+30S	1	92	38	118	.7	25	25	3538	7.48	28	5	ND	3	49	1	2	2	24	.76	.151	14	16	.27	103	.01	2	1.32	.02	.04	2	7
CC6+50W 1+40S	1	86	24	73	.4	19	14	1313	5.73	11	5	ND	3	52	1	2	2	26	.91	.068	21	16	.28	61	.01	5	1.22	.02	.02	1	3
CC6+50W 1+50S	1	17	10	50	.3	22	12	428	2.99	2	5	ND	6	31	1	2	2	8	.41	.035	14	9	.10	38	.01	3	.66	.02	.03	2	1
CC6+50W 1+60S	1	37	24	90	.4	14	21	868	7.71	7	5	ND	4	24	1	2	2	35	.38	.072	12	21	.36	60	.01	2	1.85	.02	.03	2	1
STD C/AU-S	18	60	42	132	7.3	68	27	1029	4.08	40	19	8	39	50	17	16	20	56	.49	.090	37	59	.90	180	.08	33	1.87	.08	.13	13	42

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC6+50W 1+70S	1	38	26	105	.2	26	19	712	6.19	16	5	ND	6	8	1	2	2	29	.08	.060	16	24	.39	77	.01	2	1.65	.01	.02	1	24
CC6+50W 1+80S	1	24	13	44	.1	13	5	234	3.23	10	5	ND	2	26	1	2	2	17	.44	.032	15	9	.11	62	.01	2	.52	.01	.01	2	6
CC6+50W 1+90S	1	36	34	82	.1	23	10	490	6.78	21	5	ND	4	4	1	2	2	20	.03	.045	19	14	.18	41	.01	2	.92	.01	.01	1	23
CC6+50W 2+00S	1	30	20	103	.2	22	12	2230	3.98	10	5	ND	3	50	1	2	2	15	1.12	.127	11	14	.32	127	.01	2	.92	.02	.02	1	2
CC6+50W 2+10S	1	31	28	72	.1	17	13	683	5.00	16	5	ND	3	9	1	2	2	22	.09	.066	19	18	.23	42	.01	2	1.31	.01	.02	1	165
CC6+50W 2+20S	1	21	29	68	.1	13	7	544	4.35	10	5	ND	2	5	1	3	2	22	.02	.058	15	15	.20	38	.01	2	1.03	.01	.02	1	3
CC6+50W 2+30S	1	21	14	44	.2	12	7	1666	2.65	7	5	ND	3	4	1	2	2	23	.02	.037	26	13	.11	80	.01	2	.80	.01	.03	2	1
CC6+50W 2+40S	1	28	39	78	.1	23	9	674	5.06	21	5	ND	2	6	1	2	2	25	.06	.077	15	23	.29	48	.01	2	1.17	.01	.03	1	1
CC6+50W 2+50S	1	43	23	82	.1	28	12	477	4.31	18	5	ND	4	5	1	2	2	23	.07	.063	16	24	.39	49	.01	2	1.08	.01	.04	1	1
CC6+50W 2+60S	1	43	22	71	.3	25	12	573	3.92	13	5	ND	4	10	1	2	2	24	.16	.068	17	19	.38	52	.01	6	1.08	.01	.03	1	2
CC6+50W 2+70S	1	39	30	80	.2	26	14	1263	3.53	7	5	ND	3	15	1	2	2	19	.26	.094	18	16	.31	116	.01	5	1.06	.02	.05	1	1
CC6+50W 2+80S	1	30	49	75	.1	23	8	433	4.82	14	5	ND	3	7	1	2	2	26	.08	.058	17	26	.30	89	.01	3	1.12	.01	.03	1	24
CC6+50W 2+90S	1	37	32	98	.2	38	15	1140	4.24	14	5	ND	5	9	1	3	2	24	.09	.083	17	38	.53	86	.01	2	1.40	.01	.04	1	5
CC6+50W 3+00S	2	25	21	87	.1	23	9	419	3.72	12	5	ND	3	11	1	2	2	24	.19	.052	16	24	.32	117	.01	3	.94	.01	.04	1	3
CC5+00W 2+10S	1	9	13	40	.1	9	4	557	3.53	5	5	ND	2	4	1	2	2	30	.03	.045	22	15	.17	36	.01	4	.91	.01	.02	2	2
CC5+00W 2+20S	1	31	17	59	.1	10	8	669	4.27	10	5	ND	2	6	1	2	2	62	.02	.042	15	12	.29	56	.02	2	1.12	.01	.02	1	1
CC5+00W 2+30S	1	58	21	87	.3	14	15	2189	3.99	13	5	ND	2	52	1	2	2	47	.97	.092	16	13	.42	74	.01	2	1.56	.02	.02	1	5
CC5+00W 2+40S	1	81	21	72	.5	14	9	1051	4.05	13	6	ND	2	36	1	2	2	24	.72	.075	32	14	.19	116	.01	2	1.16	.02	.03	2	11
CC5+00W 2+50S	1	37	38	109	.4	18	11	1136	4.83	18	6	ND	2	38	1	2	2	20	.78	.088	12	17	.20	62	.01	5	1.44	.02	.02	2	6
CC5+00W 2+60S	1	13	20	37	.2	9	4	119	3.13	8	5	ND	3	5	1	3	2	12	.05	.032	19	8	.08	24	.01	2	.52	.01	.02	2	2
CC5+00W 2+70S	1	7	94	114	.3	7	9	1541	13.82	13	5	ND	2	19	1	2	2	29	.38	.120	5	10	.11	21	.01	2	.65	.02	.03	22	24
CC5+00W 2+80S	1	19	48	119	.6	13	10	1505	4.43	13	5	ND	2	48	1	2	2	16	1.10	.112	9	13	.21	57	.01	2	.86	.02	.02	17	3
CC5+00W 2+90S	1	26	27	97	.2	17	11	577	4.37	13	6	ND	3	28	1	2	2	20	.57	.102	16	19	.31	62	.01	4	1.34	.02	.03	1	5
CC5+00W 3+00S	1	20	25	91	.6	15	9	941	4.06	10	5	ND	2	10	1	2	2	24	.06	.069	17	17	.25	75	.01	3	1.26	.01	.04	2	11
CC5+00W 3+10S	1	16	9	38	.1	8	4	168	2.20	7	5	ND	2	6	1	4	2	25	.08	.036	18	9	.08	41	.01	2	.53	.01	.02	2	1
CC5+00W 3+20S	1	85	27	90	.8	21	13	2597	3.55	8	8	ND	2	32	1	2	2	13	.96	.129	19	13	.21	102	.01	2	1.06	.02	.03	1	1
CC5+00W 3+30S	1	31	25	84	.3	19	8	299	5.31	12	5	ND	4	8	1	2	2	24	.17	.045	20	19	.32	67	.01	2	1.09	.01	.03	1	1
CC5+00W 3+40S	1	106	34	116	1.1	34	18	2201	4.56	14	6	ND	3	28	1	2	2	16	.77	.107	13	18	.34	97	.01	2	1.44	.02	.03	1	3
CC5+00W 3+50S	1	29	27	85	.1	18	8	313	4.71	14	5	ND	2	10	1	2	2	22	.14	.060	14	16	.25	56	.01	2	.99	.01	.03	2	3
CC5+00W 3+60S	1	27	24	76	.3	15	8	514	4.18	8	5	ND	2	7	1	3	2	23	.12	.057	19	13	.17	70	.01	2	.80	.01	.03	1	1
CC5+00W 3+70S	1	37	29	96	.6	20	10	587	3.97	13	5	ND	4	21	1	2	2	15	.44	.096	14	11	.24	45	.01	2	1.00	.01	.03	1	6
CC5+00W 3+80S	1	49	39	110	.6	22	13	675	4.71	13	5	ND	5	8	1	2	2	21	.04	.070	25	14	.20	53	.01	2	1.35	.01	.03	1	1
CC5+00W 3+90S	1	57	26	110	.4	17	21	1719	5.89	15	5	ND	2	13	1	3	2	32	.23	.160	10	11	.23	61	.01	2	1.15	.01	.03	1	1
CC5+00W 4+00S	1	51	28	103	.3	20	17	1426	5.25	15	5	ND	2	17	1	2	2	33	.28	.080	19	15	.30	64	.01	3	1.21	.02	.04	1	1
CC5+00W 4+10S	1	60	25	88	.2	20	20	923	6.21	16	5	ND	3	6	1	3	2	28	.04	.088	14	14	.35	48	.01	2	1.23	.01	.04	1	1
CC5+00W 4+20S	1	32	17	76	.1	15	8	620	4.10	14	5	ND	2	10	1	2	2	33	.22	.062	17	15	.20	73	.01	2	.76	.01	.04	1	18
STD C/AU-S	19	58	41	132	6.9	70	26	1029	3.94	40	21	8	37	49	18	15	20	58	.48	.086	38	58	.87	175	.08	36	1.82	.06	.15	13	50

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
CC5+00W 4+30S	1	57	49	97	.9	33	15	1766	4.08	26	5	ND	3	26	1	2	2	20	.48	.143	23	20	.34	55	.01	4	1.77	.02	.05	1	1
CC5+00W 4+40S	1	51	49	96	.5	31	18	1781	4.69	12	5	ND	3	13	1	2	2	22	.14	.171	23	25	.36	47	.01	3	1.77	.02	.06	1	1
CC5+00W 4+50S	1	64	30	94	.3	30	16	895	6.06	4	5	ND	3	6	1	2	2	45	.06	.089	25	28	.50	67	.01	4	1.56	.01	.05	1	2
CC5+00W 4+60S	1	81	27	80	.3	19	11	529	6.37	3	5	ND	3	6	1	2	2	47	.03	.077	26	23	.31	70	.01	5	1.24	.01	.03	1	24
CC5+00W 4+70S	1	47	305	117	.4	39	16	1526	5.76	13	5	ND	3	11	1	2	2	43	.15	.121	22	42	.37	165	.01	4	1.16	.01	.06	1	1
CC5+00W 4+80S	1	54	68	102	1.0	41	17	1206	6.27	19	5	ND	3	17	1	2	2	47	.20	.122	28	43	.29	105	.01	4	1.14	.02	.05	1	1
CC5+00W 4+90S	1	31	22	76	.7	31	7	283	4.28	11	5	ND	3	9	1	2	2	40	.16	.112	28	31	.29	68	.01	2	.93	.01	.07	1	2
CC5+00W 5+00S	3	59	29	105	.3	54	16	570	4.85	34	5	ND	9	12	1	2	2	24	.17	.100	40	23	.40	58	.01	7	1.00	.02	.07	1	1
CC4+00W 2+10S	1	35	24	79	.1	8	7	515	5.96	22	5	ND	2	5	1	2	2	21	.03	.084	17	6	.07	31	.01	4	.44	.01	.04	3	1
CC4+00W 2+20S	1	22	22	81	.2	16	8	1166	5.83	15	5	ND	3	8	1	2	2	35	.09	.067	26	20	.19	66	.02	2	1.06	.01	.05	2	11
CC4+00W 2+30S	1	18	17	96	.2	18	13	2899	3.78	2	5	ND	2	23	1	2	2	28	.46	.062	20	24	.33	125	.02	2	1.36	.02	.04	1	1
CC4+00W 2+40S	1	20	15	86	.3	16	8	1289	4.29	2	5	ND	4	15	1	2	2	31	.21	.060	47	21	.29	77	.02	2	1.23	.02	.05	1	2
CC4+00W 2+50S	1	24	13	67	.4	19	9	1109	4.72	2	5	ND	5	12	1	2	2	30	.10	.066	52	20	.40	73	.01	2	1.50	.01	.03	1	1
CC4+00W 2+60S	1	50	24	96	.2	16	14	2002	6.62	2	5	ND	3	17	1	2	2	67	.29	.099	20	20	.87	53	.02	2	2.23	.02	.04	1	1
CC4+00W 2+70S	1	47	16	97	.1	14	13	955	7.70	11	5	ND	2	5	1	2	2	32	.02	.089	23	12	.12	36	.01	3	.73	.01	.04	1	10
CC4+00W 2+80S	1	36	19	82	.2	18	12	1180	5.93	4	5	ND	3	6	1	2	2	38	.06	.094	26	24	.38	44	.01	8	1.60	.02	.04	1	1
CC4+00W 2+90S	1	23	62	151	.1	19	12	7148	7.59	16	5	ND	3	22	1	2	2	29	.27	.135	23	16	.17	118	.01	6	1.43	.02	.05	1	3
CC4+00W 3+00S	1	28	32	77	.2	12	9	988	6.26	8	5	ND	2	6	1	2	2	41	.03	.088	23	17	.17	38	.02	2	.96	.01	.05	3	17
CC4+00W 3+10S	1	29	16	57	.3	10	7	488	5.04	6	5	ND	2	6	1	2	2	41	.03	.096	23	17	.20	40	.01	3	.90	.01	.04	1	9
CC4+00W 3+20S	1	38	19	65	.3	13	7	458	4.83	7	5	ND	2	6	1	2	2	42	.03	.057	26	17	.29	43	.02	2	1.11	.01	.04	1	2
CC4+00W 3+30S	1	80	20	108	.1	14	15	999	10.17	3	5	ND	3	7	1	2	2	47	.10	.077	17	15	.38	71	.02	2	1.66	.01	.04	1	8
CC4+00W 3+40S	1	86	19	103	.5	28	10	346	3.84	6	6	ND	3	15	1	2	2	21	.42	.123	22	24	.48	74	.01	3	1.77	.02	.03	1	2
CC4+00W 3+50S	1	57	27	115	.3	27	15	2897	4.57	11	5	ND	3	20	1	2	2	29	.49	.093	24	26	.47	149	.02	2	1.81	.02	.05	1	1
CC4+00W 3+60S	1	23	17	68	.2	17	7	250	4.65	8	5	ND	5	6	1	2	2	36	.05	.042	34	24	.30	46	.02	2	1.22	.01	.05	1	60
CC4+00W 3+70S	1	19	19	83	.1	20	9	342	5.66	42	5	ND	4	5	1	2	2	29	.03	.074	29	19	.29	42	.01	2	1.46	.01	.04	1	5
CC4+00W 3+80S	1	27	32	98	.2	17	9	835	4.86	122	5	ND	4	6	1	2	2	33	.02	.053	30	17	.19	65	.02	3	1.11	.01	.05	1	2
CC4+00W 3+90S	1	43	54	143	.2	14	9	464	6.60	23	5	ND	2	9	1	2	2	52	.12	.091	19	13	.32	107	.01	2	1.39	.01	.04	1	2
CC4+00W 4+00S	2	41	58	135	.5	23	20	2757	5.58	26	5	ND	3	13	1	2	2	34	.17	.098	24	20	.30	69	.02	2	1.66	.01	.06	1	1
CC4+00W 4+10S	1	21	26	66	.2	13	5	170	4.03	11	5	ND	4	6	1	2	2	28	.08	.055	40	15	.14	54	.01	2	.85	.01	.04	1	16
CC4+00W 4+20S	1	21	38	66	.4	13	5	278	3.86	2	5	ND	4	8	1	2	2	27	.08	.058	37	18	.25	44	.01	2	1.14	.01	.06	1	1
CC4+00W 4+30S	1	33	24	68	.3	14	6	293	4.05	4	5	ND	4	7	1	2	2	30	.05	.060	35	14	.22	33	.01	2	1.03	.01	.05	1	3
CC4+00W 4+40S	2	33	28	72	.4	19	9	513	4.31	6	5	ND	5	6	1	2	2	28	.05	.049	41	13	.11	57	.01	3	.82	.01	.06	1	1
CC4+00W 4+50S	1	25	16	60	.3	16	6	179	2.66	4	5	ND	4	11	1	3	2	29	.14	.043	40	11	.08	48	.01	4	.60	.01	.05	1	4
CC4+00W 4+60S	1	20	22	60	.2	18	7	192	3.98	8	5	ND	3	5	1	2	2	28	.02	.050	35	18	.20	38	.01	3	.85	.01	.04	1	1
CC4+00W 4+70S	1	37	31	72	.3	22	14	704	5.36	10	5	ND	3	11	1	2	2	32	.14	.105	26	21	.26	53	.01	2	1.21	.01	.05	1	1
CC4+00W 4+80S	1	54	37	109	.3	27	25	1784	5.53	16	5	ND	5	8	1	2	2	27	.06	.108	27	17	.39	66	.01	2	1.64	.01	.04	1	1
STD C	18	58	44	132	7.1	68	27	1028	3.96	36	23	8	37	48	18	18	21	55	.48	.086	36	59	.87	171	.08	31	1.82	.07	.14	12	39

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC4+00W 4+90S	1	22	22	56	.3	14	4	123	4.03	14	5	ND	3	4	1	2	2	23	.02	.062	21	17	.25	38	.01	2	.95	.01	.03	1	1
CL4+00W 5+00S	1	66	35	121	.5	23	19	2923	5.11	16	5	ND	4	30	1	2	2	26	.71	.200	18	13	.41	77	.01	2	1.69	.02	.05	3	1
CC3+00W 2+10S	1	16	11	41	.4	7	4	521	3.23	11	5	ND	2	5	1	2	2	28	.03	.051	21	10	.05	32	.01	2	.48	.01	.03	3	3
CC3+00W 2+20S	1	56	29	62	.1	12	9	812	6.91	21	5	ND	3	4	1	2	2	22	.01	.079	16	10	.08	26	.01	5	.61	.01	.02	1	16
CC3+00W 2+30S	1	31	46	83	.1	14	11	1767	7.90	15	5	ND	3	4	1	2	2	21	.02	.071	16	13	.14	29	.01	2	.91	.01	.02	6	1
CC3+00W 2+40S	1	26	32	99	.1	15	9	1205	6.97	12	5	ND	2	8	1	2	2	30	.09	.078	15	17	.16	68	.01	3	.75	.01	.03	3	11
CC3+00W 2+50S	1	29	37	123	.2	21	16	1850	5.85	14	5	ND	2	12	1	2	2	28	.11	.081	16	22	.29	105	.01	2	1.31	.01	.04	2	3
CC3+00W 2+60S	1	27	29	86	.1	16	12	1341	4.84	10	5	ND	2	7	1	2	2	26	.05	.071	17	15	.18	66	.01	2	.99	.01	.04	1	7
CC3+00W 2+70S	1	49	27	103	.3	22	14	1500	6.20	13	5	ND	3	6	1	2	2	24	.06	.079	16	19	.27	79	.01	2	1.12	.01	.04	2	41
CC3+00W 2+80S	1	67	67	149	.2	24	16	2269	9.29	25	5	ND	3	12	1	2	2	25	.14	.104	17	19	.24	91	.01	2	1.12	.01	.05	2	3
CC3+00W 2+90S	2	236	50	198	.2	21	20	5188	18.89	28	5	ND	3	13	1	2	2	23	.17	.149	11	12	.19	93	.01	2	.81	.01	.04	1	4
CC3+00W 3+00S	1	35	51	134	.4	27	16	1662	6.75	9	5	ND	6	9	1	2	2	23	.08	.086	39	19	.23	65	.01	2	1.29	.01	.04	3	2
CC3+00W 3+10S	1	61	34	109	.5	32	20	1440	6.15	9	5	ND	6	11	1	2	2	24	.15	.080	37	22	.38	62	.01	2	1.31	.01	.04	2	3
CC3+00W 3+20S	1	26	32	119	.4	21	16	2057	5.47	10	5	ND	2	20	1	2	2	33	.32	.105	16	24	.36	79	.01	2	1.74	.02	.06	1	4
CC3+00W 3+30S	1	12	20	62	.2	17	6	338	3.35	6	5	ND	2	8	1	2	2	28	.11	.046	21	20	.28	69	.01	2	1.17	.01	.03	1	1
CC3+00W 3+40S	1	18	21	69	.1	18	6	226	4.45	6	5	ND	2	5	1	2	2	22	.03	.055	29	27	.21	47	.01	2	1.31	.01	.03	2	1
CC3+00W 3+50S	1	17	19	65	.2	20	8	417	4.87	7	5	ND	2	4	1	2	2	30	.01	.059	16	22	.41	38	.02	4	1.28	.01	.04	1	1
CC3+00W 3+60S	1	12	13	42	.2	53	4	201	2.80	4	5	ND	1	4	1	2	2	30	.02	.063	17	19	.21	21	.01	2	.85	.01	.03	3	1
CC3+00W 3+70S	1	7	12	27	.2	7	3	262	2.99	6	5	ND	2	3	1	2	2	39	.02	.053	22	13	.11	21	.02	2	.65	.01	.02	1	1
CC3+00W 3+80S	1	16	20	49	.2	12	5	345	4.08	8	5	ND	2	4	1	2	2	30	.02	.054	19	18	.19	41	.01	2	1.00	.01	.03	2	1
CC3+00W 3+90S	1	64	22	79	.4	18	10	716	4.05	2	5	ND	2	7	1	2	2	31	.07	.062	17	24	.42	73	.01	2	1.84	.01	.04	2	7
CC3+00W 4+00S	1	41	16	82	.2	13	10	624	5.01	8	5	ND	2	7	1	2	2	42	.13	.083	15	15	.35	88	.01	2	1.38	.01	.04	1	1
CC3+00W 4+10S	1	43	33	100	.3	23	19	1732	4.56	6	5	ND	2	18	1	2	2	29	.51	.127	19	21	.37	114	.01	2	1.53	.02	.05	1	1
CC3+00W 4+20S	1	42	27	105	.5	22	12	1932	3.72	10	5	ND	3	30	1	2	2	19	.98	.205	12	19	.33	114	.01	2	1.48	.02	.05	1	1
CC3+00W 4+30S	1	39	28	67	.6	21	7	922	3.51	8	5	ND	2	13	1	2	2	22	.25	.163	20	18	.27	45	.01	2	1.43	.01	.04	2	1
CC3+00W 4+40S	1	47	39	71	.4	19	12	1600	3.53	8	5	ND	2	12	1	2	2	21	.17	.110	21	16	.22	46	.01	2	1.18	.01	.04	1	1
CC3+00W 4+50S	1	65	35	94	.5	19	10	976	3.95	9	5	ND	1	10	1	2	2	24	.15	.121	16	15	.21	47	.01	3	1.43	.01	.04	1	1
CC3+00W 4+60S	1	20	21	55	.3	13	6	242	3.52	10	5	ND	2	4	1	2	2	26	.02	.051	20	16	.23	39	.01	3	1.00	.01	.03	1	1
CC3+00W 4+70S	1	37	35	84	.3	20	11	519	4.16	8	5	ND	2	8	1	2	2	22	.11	.076	22	20	.34	37	.01	2	1.26	.01	.04	2	3
CC3+00W 4+80S	1	22	27	63	.3	11	5	190	3.68	9	5	ND	2	7	1	2	2	29	.07	.061	17	15	.21	50	.01	2	.89	.01	.05	2	1
CC3+00W 4+90S	1	38	35	80	.2	18	14	672	4.90	13	5	ND	2	5	1	2	2	31	.02	.085	19	18	.30	38	.01	2	1.28	.01	.05	1	1
CC3+00W 5+00S	1	53	51	97	.5	26	18	1995	4.99	11	5	ND	2	15	1	2	2	24	.24	.153	15	20	.32	49	.01	2	1.44	.01	.05	1	13
CC0+50E 2+00N	1	23	26	77	.3	21	10	689	3.88	11	5	ND	2	12	1	2	2	26	.11	.059	21	21	.33	48	.01	2	1.17	.01	.05	4	6
CC0+50E 1+90N	1	53	24	90	.3	42	16	887	5.38	13	5	ND	4	9	1	2	2	18	.06	.065	28	26	.50	38	.01	2	1.47	.01	.04	4	10
CC0+50E 1+80N	1	37	101	82	.3	33	21	2051	4.02	20	5	ND	2	24	1	2	2	21	.17	.118	15	15	.15	54	.01	2	1.18	.01	.06	1	5
CC0+50E 1+70N	1	35	64	97	.3	43	24	2220	4.40	9	5	ND	2	20	1	2	2	17	.21	.121	13	16	.18	51	.01	2	.89	.01	.06	2	3
STD C/AU-S	18	58	42	132	7.2	68	27	1039	3.99	39	19	7	39	50	19	15	18	57	.48	.089	37	60	.88	177	.08	33	1.83	.08	.13	13	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC0+50E 1+60N	1	38	32	94	.3	39	17	893	5.07	44	5	ND	3	13	1	2	2	22	.11	.064	20	13	.10	67	.01	2	.71	.01	.04	3	270
CC0+50E 1+50N	1	35	33	94	.1	36	23	1513	4.19	28	5	ND	2	10	1	2	2	21	.11	.078	19	14	.12	69	.01	7	.62	.01	.05	1	46
CC0+50E 1+40N	1	40	193	129	.2	32	23	1496	5.33	19	5	ND	2	12	1	2	2	21	.11	.081	17	13	.14	70	.01	2	.76	.01	.05	1	7
CC0+50E 1+30N	1	27	115	115	.2	31	14	542	4.48	9	5	ND	2	11	1	2	2	22	.12	.063	20	12	.13	49	.01	2	.68	.01	.06	1	1
CC0+50E 1+20N	2	33	191	140	.3	33	20	2872	5.01	9	5	ND	2	23	1	2	2	21	.33	.147	15	20	.26	139	.01	3	1.22	.02	.06	1	2
CC0+50E 1+10N	2	51	103	151	.5	55	27	2312	5.50	24	5	ND	2	20	1	2	2	16	.31	.152	15	18	.26	52	.01	2	1.27	.02	.04	1	49
CC0+50E 1+00N	1	28	33	113	.2	39	15	1156	4.26	21	5	ND	2	17	1	2	2	19	.27	.061	22	17	.21	118	.01	2	.70	.01	.06	1	23
CC0+50E 0+90N	1	36	48	99	.4	45	23	1793	4.59	23	5	ND	3	16	1	2	2	19	.24	.098	18	24	.35	52	.01	4	1.29	.02	.06	1	7
CC0+50E 0+80N	1	29	51	204	.3	35	19	2224	4.31	15	5	ND	2	17	1	2	2	20	.26	.110	17	22	.33	78	.01	2	1.26	.02	.06	1	13
CC0+50E 0+70N	1	32	101	110	.6	34	15	1787	3.93	17	5	ND	2	19	1	2	2	18	.28	.145	15	20	.30	69	.01	2	1.34	.02	.07	1	19
CC0+50E 0+60N	1	28	81	105	.2	31	16	1433	4.33	17	5	ND	2	13	1	2	2	19	.17	.097	18	17	.27	78	.01	2	1.10	.01	.06	1	18
CC0+50E 0+50N	1	52	101	136	.4	37	15	979	4.09	20	5	ND	2	18	1	2	2	18	.28	.091	18	20	.33	65	.01	2	1.18	.02	.06	1	19
CC0+50E 0+40N	1	25	58	91	.3	26	11	636	4.29	17	5	ND	3	10	1	2	2	22	.11	.088	19	19	.25	65	.01	2	1.08	.01	.06	1	41
CC0+50E 0+30N	1	24	51	81	.2	23	10	595	4.00	16	5	ND	2	8	1	2	2	22	.06	.113	20	18	.22	70	.01	2	.99	.01	.06	1	8
CC0+50E 0+20N	1	23	58	86	.7	24	21	1500	3.87	13	5	ND	2	11	1	2	2	22	.14	.127	17	19	.27	67	.01	2	1.23	.01	.07	1	14
CC0+50E 0+10N	2	21	42	96	.4	22	13	860	3.62	12	5	ND	2	11	1	2	2	22	.12	.108	19	18	.27	67	.01	2	1.12	.01	.07	1	59
CC0+50E 0+00N	2	41	73	135	.2	40	14	464	4.66	17	5	ND	4	7	1	2	2	20	.06	.055	26	29	.49	56	.01	2	1.30	.01	.05	2	56
CC1+00E 2+00N	1	22	188	109	.4	27	11	522	3.33	23	5	ND	3	16	1	2	2	25	.10	.044	27	13	.08	52	.01	2	.66	.01	.05	8	21
CC1+00E 1+90N	1	16	45	69	.3	18	6	402	3.25	7	5	ND	3	8	1	2	2	28	.09	.051	26	18	.19	47	.01	2	.88	.01	.05	1	3
CC1+00E 1+80N	1	24	76	76	.4	26	19	1760	3.19	24	5	ND	2	11	1	2	2	23	.07	.064	21	15	.14	54	.01	2	.92	.01	.05	91	80
CC1+00E 1+70N	1	15	52	70	.2	22	7	190	4.39	11	5	ND	3	7	1	2	2	23	.03	.055	22	23	.25	46	.01	2	1.14	.01	.05	1	4
CC1+00E 1+60N	1	25	20	79	.3	32	13	1371	3.71	9	5	ND	2	10	1	2	2	28	.10	.068	20	18	.13	73	.01	3	.76	.01	.05	1	3
CC1+00E 1+50N	1	33	30	84	.2	41	17	694	4.91	25	5	ND	2	9	1	2	2	32	.08	.068	17	33	.32	53	.01	3	1.07	.01	.03	1	52
CC1+00E 1+40N	1	24	46	86	.1	28	12	682	5.01	13	5	ND	2	9	1	2	2	35	.06	.064	20	32	.27	43	.01	2	1.11	.01	.06	1	2
CC1+00E 1+30N	1	27	207	106	.3	29	16	1733	4.34	14	5	ND	2	11	1	2	2	25	.09	.080	19	17	.15	73	.01	5	.96	.01	.05	2	3
CC1+00E 1+20N	1	32	301	139	.3	34	17	1699	4.32	19	5	ND	3	19	1	2	2	25	.27	.074	19	22	.28	51	.01	2	1.21	.02	.06	10	24
CC1+00E 1+10N	1	24	24	73	.2	22	7	223	3.57	22	5	ND	3	10	1	2	2	27	.13	.039	27	15	.14	67	.02	3	.62	.01	.04	1	11
CC1+00E 1+00N	1	35	222	278	.5	51	16	658	4.62	30	5	ND	5	11	1	2	2	22	.12	.048	25	23	.40	33	.02	2	1.12	.01	.04	2	164
CC1+00E 0+90N	1	28	113	96	.6	28	13	1011	4.01	16	5	ND	2	15	1	2	2	24	.20	.062	19	18	.24	96	.01	2	1.08	.01	.05	2	40
CC1+00E 0+80N	1	27	66	85	.3	26	16	1118	4.08	20	5	ND	2	8	1	2	2	21	.08	.075	20	18	.25	57	.01	3	1.14	.01	.05	2	17
CC1+00E 0+70N	1	28	54	75	.6	24	9	468	3.71	16	5	ND	2	8	1	2	2	24	.08	.078	20	19	.24	66	.01	2	1.30	.01	.06	4	4
CC1+00E 0+60N	1	23	32	66	.9	21	9	682	3.49	14	5	ND	2	8	1	2	2	22	.06	.067	21	18	.22	60	.01	2	1.00	.01	.05	4	17
CC1+00E 0+50N	1	24	30	82	.6	20	8	649	2.73	9	5	ND	2	11	1	2	2	19	.14	.097	19	17	.23	88	.01	6	1.01	.01	.07	1	1
CC1+00E 0+40N	1	32	48	132	.3	33	13	725	4.23	20	5	ND	2	12	1	2	2	19	.17	.083	21	23	.37	66	.01	4	1.18	.02	.07	3	18
CC1+00E 0+30N	1	19	27	67	1.0	18	7	347	2.76	6	5	ND	2	7	1	2	2	19	.06	.096	19	19	.28	44	.01	2	1.31	.01	.05	1	21
CC1+00E 0+20N	1	27	35	80	.6	23	10	508	3.55	11	5	ND	2	8	1	2	2	22	.07	.110	20	26	.35	57	.01	2	1.64	.01	.07	2	3
STD C/AU-S	18	59	44	132	7.4	68	27	1054	4.12	40	22	8	39	51	19	14	21	57	.49	.091	38	61	.91	181	.08	33	1.90	.08	.13	12	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC1+00E 0+10N	1	24	37	96	.9	26	12	977	3.49	6	5	ND	2	10	1	2	2	22	.10	.106	21	24	.38	68	.01	5	1.37	.01	.07	1	4
CC1+00E 0+00N	2	25	34	118	.5	35	13	718	3.94	11	5	ND	3	13	1	2	2	20	.15	.075	25	32	.43	46	.01	8	1.15	.02	.07	1	8
CC1+50E 2+00N	1	24	28	79	.8	25	12	612	3.69	13	5	ND	2	9	1	2	2	30	.05	.064	22	17	.20	50	.01	2	1.10	.01	.05	1	1
CC1+50E 1+90N	1	22	18	62	.4	21	6	281	3.94	5	5	ND	2	7	1	2	2	31	.05	.051	21	20	.21	48	.01	2	1.03	.01	.05	1	1
CC1+50E 1+80N	1	29	30	72	.5	25	19	1511	3.39	7	5	ND	1	12	1	2	2	25	.13	.107	16	15	.21	42	.01	2	1.12	.01	.06	1	1
CC1+50E 1+70N	1	22	26	74	.4	25	14	2030	3.24	7	5	ND	2	10	1	2	2	25	.09	.074	19	18	.28	59	.01	2	1.11	.01	.05	1	1
CC1+50E 1+60N	1	15	20	55	.5	15	7	650	3.17	9	5	ND	2	7	1	2	2	28	.04	.051	24	18	.20	40	.01	2	1.01	.01	.05	1	1
CC1+50E 1+50N	1	39	27	93	.3	46	15	432	4.55	20	5	ND	7	9	1	2	2	18	.08	.043	31	22	.44	30	.02	2	1.17	.01	.04	7	37
CC1+50E 1+40N	1	18	19	63	.3	20	6	170	4.13	12	5	ND	2	7	1	2	2	22	.08	.053	21	19	.26	31	.01	2	.98	.01	.05	1	8
CC1+50E 1+30N	1	14	21	55	.5	17	6	284	3.27	13	5	ND	2	8	1	2	2	24	.06	.050	26	16	.21	47	.01	6	.82	.01	.04	2	7
CC1+50E 1+20N	1	11	17	41	.4	11	3	105	2.67	10	5	ND	2	7	1	2	2	22	.05	.050	25	12	.13	39	.01	6	.80	.01	.04	2	10
CC1+50E 1+10N	2	22	29	71	.4	25	7	234	5.12	10	5	ND	3	5	1	2	2	27	.02	.058	23	34	.38	33	.01	2	1.32	.01	.04	1	1
CC1+50E 1+00N	1	15	19	41	.6	13	4	111	4.15	14	5	ND	2	5	1	2	3	27	.02	.074	22	19	.16	31	.01	2	.93	.01	.04	2	4
CC1+50E 0+90N	1	20	23	86	.4	23	8	390	3.22	10	5	ND	3	7	1	2	2	24	.05	.064	25	24	.30	42	.01	2	.98	.01	.05	1	12
CC1+50E 0+80N	1	19	28	65	.3	18	6	281	4.30	11	5	ND	2	8	1	2	2	27	.08	.095	18	22	.24	43	.01	2	1.02	.01	.05	1	1
CC1+50E 0+70N	1	36	25	88	.2	40	16	504	4.98	25	5	ND	6	6	1	2	2	18	.03	.044	30	23	.47	35	.02	4	1.28	.01	.05	2	16
CC1+50E 0+60N	1	21	25	73	.5	25	8	304	3.72	12	5	ND	3	6	1	2	2	22	.03	.067	25	27	.35	37	.01	6	1.15	.01	.05	1	1
CC1+50E 0+50N	1	29	37	129	.4	34	11	517	4.62	11	5	ND	3	7	1	2	2	27	.05	.067	27	36	.41	47	.01	2	1.46	.01	.06	1	7
CC1+50E 0+40N	2	38	47	180	.6	38	13	1358	4.43	10	5	ND	3	13	1	2	2	24	.16	.110	25	34	.49	177	.01	2	1.49	.02	.07	1	6
CC1+50E 0+30N	1	27	33	112	.4	33	11	643	3.69	8	5	ND	3	15	1	2	2	23	.16	.071	26	29	.42	74	.01	2	1.11	.01	.06	1	1
CC1+50E 0+20N	1	22	33	91	.6	29	9	807	3.70	8	5	ND	2	11	1	2	2	22	.12	.089	22	29	.41	64	.01	3	1.07	.01	.07	1	4
CC1+50E 0+10N	1	20	34	71	.3	24	6	321	3.14	11	5	ND	2	9	1	2	2	19	.08	.082	22	25	.32	48	.01	5	.93	.01	.05	2	23
CC1+50E 0+00N	2	26	38	92	1.0	30	8	315	3.98	15	5	ND	3	9	1	2	2	19	.09	.094	21	26	.35	42	.01	7	1.08	.01	.06	1	7
STD C/AU-S	18	57	41	131	7.1	67	27	1026	3.98	36	23	8	38	49	18	15	19	55	.48	.087	37	57	.88	173	.08	31	1.82	.08	.13	12	51

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-8 SOIL P9-ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 15 1987 DATE REPORT MAILED: Sept 29/87 ASSAYER. D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4221 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 5+25E 2+00N	2	27	12	65	.1	26	11	342	4.45	5	5	ND	1	6	1	2	2	27	.03	.051	21	21	.19	44	.01	3	1.03	.01	.05	1	1
CC 5+25E 1+90N	2	21	11	58	.1	23	11	326	3.59	2	5	ND	3	8	1	2	2	19	.07	.056	22	14	.13	44	.01	2	.93	.01	.05	2	1
CC 5+25E 1+80N	2	37	10	70	.6	27	14	421	4.69	7	5	ND	3	8	1	2	2	22	.07	.071	19	14	.11	51	.01	5	.85	.01	.06	1	1
STD C/AU-S	19	58	41	135	7.1	66	29	997	3.85	37	17	7	38	50	18	18	22	56	.48	.084	38	59	.85	174	.06	37	1.87	.06	.13	14	49
CC 5+25E 1+70N	2	31	14	84	.1	24	14	1278	4.80	6	5	ND	1	7	1	3	2	28	.06	.090	18	15	.20	83	.01	4	.89	.01	.06	1	1
CC 5+25E 1+60N	2	26	17	83	.1	24	10	400	4.02	9	5	ND	2	7	1	2	2	20	.01	.066	30	18	.19	48	.01	4	1.10	.01	.04	1	1
CC 5+25E 1+50N	2	28	22	79	.3	29	11	240	3.52	54	5	ND	4	16	1	3	2	14	.06	.062	23	10	.08	50	.01	11	.70	.01	.06	1	120
CC 5+25E 1+40N	2	18	23	83	.5	20	13	1658	2.79	31	5	ND	2	15	1	3	2	12	.16	.097	14	7	.06	101	.01	3	.54	.01	.08	1	39
CC 5+25E 1+30N	2	17	23	98	.2	22	17	2178	3.64	15	5	ND	1	11	1	2	2	15	.08	.099	16	11	.11	112	.01	5	.72	.01	.07	1	1
CC 5+25E 1+20N	2	25	15	47	.1	18	8	640	2.75	13	5	ND	1	7	1	2	2	15	.03	.059	21	11	.06	41	.01	2	.55	.01	.06	2	54
CC 5+25E 1+10N	2	33	10	79	.2	31	17	2646	2.97	4	5	ND	2	7	1	2	2	7	.08	.078	12	11	.07	120	.01	2	.47	.01	.06	1	1
CC 5+25E 1+00N	1	15	13	58	.2	19	7	183	2.21	19	5	ND	1	6	1	3	2	11	.05	.063	16	7	.04	42	.01	5	.55	.01	.05	1	26
CC 5+25E 0+90N	1	17	24	87	.4	23	13	892	3.57	18	5	ND	2	10	1	2	2	14	.17	.087	11	18	.27	77	.01	4	.91	.01	.06	1	1
CC 5+25E 0+80N	2	35	16	98	.1	40	21	708	4.60	20	5	ND	8	9	1	2	3	14	.08	.069	18	30	.86	51	.01	2	1.81	.01	.05	1	5
CC 5+25E 0+70N	1	20	11	72	.1	43	13	410	4.47	42	5	ND	5	7	1	2	3	22	.04	.055	25	49	.52	39	.01	9	1.36	.01	.05	1	27
CC 5+25E 0+60N	1	12	13	53	.1	23	8	127	3.08	29	5	ND	8	5	1	2	2	15	.04	.035	36	14	.15	39	.01	2	.82	.01	.05	1	310
CC 5+25E 0+50N	2	15	11	67	.1	25	8	172	3.80	23	5	ND	5	5	1	2	2	23	.03	.033	30	20	.22	42	.01	4	1.04	.01	.04	1	5
CC 5+25E 0+40N	2	14	12	70	.1	21	7	202	3.92	17	5	ND	5	11	1	3	2	27	.14	.038	29	20	.20	78	.01	4	.92	.02	.05	1	1
CC 5+25E 0+30N	2	14	8	47	.1	18	7	131	3.34	17	5	ND	9	4	1	2	2	26	.01	.023	30	16	.14	51	.01	6	.90	.01	.04	1	1
CC 5+25E 0+20N	2	18	15	78	.2	28	10	192	4.79	12	5	ND	6	11	1	3	2	25	.14	.033	21	21	.19	45	.01	5	.92	.01	.04	1	2
CC 5+25E 0+10N	2	21	19	60	.1	31	9	163	3.38	12	5	ND	1	7	1	2	2	20	.07	.041	22	9	.05	40	.01	7	.51	.01	.04	1	1
CC 5+25E 0+00N	2	29	79	116	.1	40	21	1815	4.69	24	5	ND	3	18	1	2	2	20	.23	.062	21	20	.29	67	.01	5	1.35	.01	.06	5	15
CC 5+25E 0+10S	1	17	43	88	.1	23	8	276	2.85	30	5	ND	3	6	1	3	2	17	.02	.036	33	9	.04	46	.01	2	.57	.01	.04	1	42
CC 5+25E 0+20S	1	23	33	71	.1	27	8	216	2.63	10	5	ND	2	9	1	2	2	13	.09	.044	27	7	.05	35	.01	6	.42	.01	.06	1	3
CC 5+25E 0+30S	2	46	652	360	2.0	55	13	1052	3.79	20	7	ND	2	31	4	3	2	10	.55	.120	15	17	.26	39	.01	4	1.32	.01	.05	1	28
CC 5+25E 0+40S	2	31	197	268	.8	30	16	1071	4.31	37	5	ND	1	8	2	2	2	19	.04	.078	21	17	.15	42	.01	2	1.00	.01	.05	2	70
CC 5+25E 0+50S	2	16	27	67	.1	21	7	355	2.73	23	5	ND	1	6	1	2	2	19	.03	.049	27	9	.04	43	.01	2	.51	.01	.04	1	24
CC 5+25E 0+60S	2	26	41	97	.3	29	14	761	4.29	30	5	ND	3	6	1	2	2	19	.04	.061	29	19	.17	45	.01	3	1.00	.01	.05	2	8
CC 5+25E 0+70S	2	20	25	74	.2	25	10	305	3.83	25	5	ND	2	6	1	2	2	21	.02	.053	32	17	.20	43	.01	4	1.04	.01	.04	1	21
CC [illegible]25E 0+80S	2	24	33	84	.1	27	12	730	4.05	29	5	ND	1	7	1	2	2	22	.05	.062	23	17	.16	59	.01	2	.94	.01	.05	1	4
CC 5+25E 0+90S	2	35	19	99	.3	45	32	1819	4.73	34	5	ND	2	12	1	4	2	15	.17	.102	15	27	.28	101	.01	2	1.33	.01	.05	1	1
CC 5+25E 1+00S	2	28	37	110	.3	31	20	1801	3.88	19	5	ND	2	52	1	2	2	19	.85	.096	13	25	.37	110	.01	6	1.41	.01	.06	1	13
CC 5+25E 1+10S	3	35	33	114	.2	56	19	316	5.77	27	5	ND	4	10	1	2	2	25	.12	.061	17	46	.54	61	.01	3	1.96	.01	.04	1	1
CC 5+25E 1+20S	2	33	38	125	.2	37	15	1142	4.97	15	5	ND	3	40	1	2	2	19	.82	.168	18	23	.29	207	.01	2	1.34	.01	.06	1	2
CC 5+25E 1+30S	2	25	46	137	.3	36	20	1091	4.66	15	5	ND	5	17	1	2	2	22	.28	.050	22	25	.44	54	.01	2	1.48	.01	.06	3	13
CC 5+25E 1+40S	2	20	28	74	.3	28	12	525	3.72	18	5	ND	2	8	1	3	2	22	.09	.054	22	14	.10	39	.01	2	.72	.01	.05	1	1
CC 5+25E 1+50S	2	27	13	69	.1	26	10	287	4.04	23	5	ND	1	5	1	2	2	28	.04	.048	23	14	.07	40	.01	2	.69	.01	.03	1	68

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 5+50E 2+00N	2	26	10	68	.3	25	12	435	4.71	2	5	ND	2	5	1	2	2	24	.03	.044	18	23	.28	38	.01	2	1.38	.01	.02	1	1
CC 5+50E 1+90N	1	24	13	59	.1	21	8	286	3.82	2	5	ND	1	4	1	2	2	20	.03	.053	19	18	.22	41	.01	2	.98	.01	.03	1	1
CC 5+50E 1+80N	2	31	16	67	.1	23	10	245	4.86	2	5	ND	3	6	1	3	2	20	.03	.040	22	18	.20	40	.01	2	1.16	.01	.03	1	1
CC 5+50E 1+70N	2	31	23	104	.3	33	22	1896	4.50	4	5	ND	2	28	1	2	2	16	.38	.083	19	15	.20	82	.01	2	1.22	.01	.06	1	1
CC 5+50E 1+60N	2	24	23	84	.4	24	12	742	3.90	5	5	ND	3	8	1	2	2	20	.04	.045	24	17	.15	108	.01	2	.91	.01	.05	1	1
CC 5+50E 1+50N	2	23	20	57	.3	20	8	156	3.25	2	5	ND	5	5	1	2	2	19	.01	.035	22	12	.10	44	.01	2	.76	.01	.04	1	1
CC 5+50E 1+40N	2	28	16	64	.1	23	9	580	3.23	22	5	ND	1	7	1	2	2	17	.07	.056	19	12	.10	58	.01	2	.71	.01	.03	1	1
CC 5+50E 1+30N	1	25	12	56	.1	21	8	341	2.92	23	5	ND	1	3	1	2	2	12	.01	.048	18	10	.08	42	.01	2	.66	.01	.03	1	1
CC 5+50E 1+20N	1	16	18	56	.3	18	6	475	2.64	9	5	ND	1	5	1	3	2	15	.03	.067	16	13	.09	48	.01	2	.72	.01	.04	1	1
CC 5+50E 1+10N	1	20	17	72	.1	21	10	1114	3.02	4	5	ND	1	6	1	3	2	13	.06	.071	17	14	.13	60	.01	2	.69	.01	.05	1	1
CC 5+50E 1+00N	2	20	19	74	.5	23	9	612	3.27	5	5	ND	1	6	1	2	2	13	.05	.071	16	14	.14	75	.01	2	.71	.01	.04	1	1
CC 5+50E 0+90N	1	17	30	75	.3	18	7	2595	2.23	18	5	ND	1	9	1	2	2	8	.13	.077	15	6	.06	109	.01	2	.38	.01	.06	1	9
CC 5+50E 0+80N	1	21	13	80	.5	25	11	666	4.37	18	5	ND	3	5	1	3	3	15	.04	.098	21	23	.37	42	.01	2	1.17	.01	.05	1	1
CC 5+50E 0+70N	1	13	11	69	.4	21	9	962	2.73	29	5	ND	3	9	1	2	2	12	.22	.094	17	20	.16	63	.01	2	.65	.01	.07	1	1
CC 5+50E 0+60N	1	15	19	69	.1	28	7	266	4.41	33	5	ND	2	3	1	2	3	19	.01	.054	26	32	.33	30	.01	4	1.24	.01	.03	1	136
CC 5+50E 0+50N	1	15	15	49	.1	14	5	137	2.66	100	5	ND	2	6	1	2	2	15	.07	.053	21	10	.09	37	.01	2	.70	.01	.03	1	45
CC 5+50E 0+40N	2	13	9	56	.1	23	6	128	3.83	25	5	ND	4	4	1	2	2	37	.01	.036	26	34	.34	25	.01	2	1.34	.01	.03	1	4
CC 5+50E 0+30N	2	32	16	83	.1	30	11	226	8.95	33	5	ND	4	4	1	2	2	27	.01	.058	24	35	.26	33	.01	2	1.55	.01	.03	1	1
CC 5+50E 0+20N	2	19	13	67	.1	22	8	162	4.14	16	5	ND	7	5	1	2	2	25	.02	.031	30	14	.13	30	.01	2	.69	.01	.04	1	4
CC 5+50E 0+10N	1	20	10	48	.4	19	6	118	2.55	11	5	ND	1	6	1	2	2	25	.08	.041	24	10	.03	34	.01	5	.48	.01	.03	2	5
CC 5+50E 0+00N	2	27	10	78	.1	30	10	228	5.19	14	5	ND	5	5	1	2	2	22	.03	.042	25	19	.20	32	.01	2	1.03	.01	.05	1	1
CC 5+75E 2+00N	2	23	13	50	.5	24	8	171	3.66	4	5	ND	3	4	1	3	2	26	.01	.041	27	17	.11	42	.01	2	.90	.01	.03	2	1
CC 5+75E 1+90N	2	25	10	53	.1	18	7	216	4.02	2	5	ND	1	5	1	2	2	24	.02	.047	28	17	.15	31	.01	2	.97	.01	.03	1	1
CC 5+75E 1+80N	2	43	10	61	.1	33	12	242	4.56	2	5	ND	3	9	1	2	2	17	.04	.036	27	14	.10	28	.01	2	.78	.01	.04	1	1
CC 5+75E 1+70N	1	29	12	66	.1	22	8	173	3.74	8	5	ND	3	11	1	2	2	19	.03	.044	22	14	.08	37	.01	3	.81	.01	.04	1	1
CC 5+75E 1+60N	1	32	30	108	.9	30	13	1727	3.78	8	5	ND	4	54	1	2	2	12	.97	.116	13	15	.27	74	.01	2	1.07	.01	.05	1	1
CC 5+75E 1+50N	2	31	32	116	.1	30	16	966	4.75	7	5	ND	1	13	1	2	2	20	.05	.073	21	18	.16	65	.01	2	1.08	.01	.05	1	1
CC 5+75E 1+40N	2	17	13	56	.5	17	6	198	2.93	3	5	ND	2	9	1	2	2	16	.04	.051	18	11	.07	52	.01	2	.69	.01	.06	1	1
CC 5+75E 1+30N	2	14	13	52	.3	14	5	451	2.09	35	5	ND	1	7	1	2	2	19	.02	.039	27	11	.06	73	.01	3	.65	.01	.04	2	34
CC 5+75E 1+20N	1	15	11	65	.1	19	6	367	2.43	5	5	ND	1	8	1	2	2	9	.09	.046	24	6	.04	41	.01	2	.43	.01	.03	1	1
CC 5+75E 1+10N	1	36	23	72	.1	29	11	436	4.34	3	5	ND	2	5	1	2	2	10	.04	.081	17	18	.26	31	.01	2	1.01	.01	.04	1	1
CC 5+75E 1+00N	2	37	13	75	.3	23	10	317	3.89	3	5	ND	6	4	1	2	2	10	.01	.075	16	15	.30	50	.01	3	1.04	.01	.05	1	1
CC 5+75E 0+90N	1	25	8	65	.3	17	8	373	3.18	2	5	ND	3	5	1	2	2	9	.03	.085	16	17	.30	49	.01	2	1.04	.01	.04	1	1
CC 5+75E 0+80N	1	19	13	87	.1	22	8	509	3.59	2	5	ND	3	10	1	2	2	12	.09	.099	15	19	.27	89	.01	2	.92	.01	.05	1	1
CC 5+75E 0+70N	1	15	16	62	.1	24	9	405	3.31	34	5	ND	2	5	1	2	2	17	.01	.075	25	22	.20	60	.01	4	.81	.01	.06	1	19
CC 5+75E 0+60N	1	24	16	59	.1	24	13	889	3.14	29	5	ND	3	5	1	5	2	10	.01	.083	23	13	.14	70	.01	4	.74	.01	.04	1	26
STD C/AU-S	18	58	35	132	6.8	67	27	943	4.06	37	16	7	36	49	17	18	20	56	.46	.081	36	57	.83	173	.06	32	1.80	.06	.12	12	48

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CC 5+75E 0+50N	1	33	26	74	.2	30	13	201	4.06	8	9	ND	6	4	1	3	2	9	.02	.045	35	10	.12	29	.01	2	.70	.01	.04	1	2
CC 5+75E 0+40N	1	13	11	44	.1	16	5	70	1.65	2	5	ND	1	8	1	2	2	14	.09	.052	28	9	.04	50	.01	3	.67	.01	.03	1	13
CC 5+75E 0+30N	1	11	9	43	.1	16	5	82	2.32	17	5	ND	1	6	1	2	2	26	.04	.034	26	12	.07	49	.01	4	.93	.01	.02	1	7
CC 5+75E 0+20N	2	25	25	112	.1	30	11	196	4.73	30	5	ND	7	7	1	2	2	25	.04	.030	29	24	.22	51	.01	4	1.33	.01	.03	1	2
CC 5+75E 0+10N	2	24	15	58	.1	24	8	149	3.99	23	5	ND	1	4	1	2	2	24	.01	.033	30	12	.06	37	.01	7	.76	.01	.02	1	86
CC 5+75E 0+00N	2	24	22	70	.1	24	9	161	4.37	14	5	ND	2	5	1	2	2	22	.03	.042	27	16	.12	34	.01	4	.95	.01	.02	1	11
CC 6+00E 1+00N	2	20	20	65	.1	22	10	637	3.10	5	5	ND	1	9	1	2	2	13	.07	.081	12	14	.14	50	.01	4	.90	.01	.06	1	1
CC 6+00E 0+90N	2	23	21	74	.3	22	10	365	2.82	14	5	ND	2	8	1	2	2	9	.03	.056	17	10	.08	64	.01	2	.75	.01	.05	1	1
CC 6+00E 0+80N	2	22	29	65	.2	21	11	501	2.91	6	8	ND	5	8	1	2	2	8	.03	.054	16	9	.09	36	.01	3	.74	.01	.05	1	2
CC 6+00E 0+70N	2	28	28	146	.5	31	14	1714	2.80	14	9	ND	4	32	1	2	2	6	.63	.063	14	6	.08	147	.01	2	.56	.02	.05	1	10
CC 6+00E 0+60N	1	14	16	58	.1	17	12	850	2.65	10	5	ND	1	7	1	2	2	7	.05	.082	21	6	.07	73	.01	3	.49	.03	.04	1	6
CC 6+00E 0+50N	1	26	12	75	.1	24	11	543	3.05	13	5	ND	2	8	1	2	2	8	.12	.094	17	13	.25	52	.01	4	.79	.03	.05	1	1
CC 6+00E 0+40N	1	37	33	104	.1	41	22	1011	4.30	26	5	ND	5	13	1	2	5	9	.21	.089	15	20	.46	47	.01	2	1.21	.04	.04	1	10
CC 6+00E 0+30N	1	54	39	111	.1	53	25	631	4.09	31	5	ND	3	4	1	3	2	4	.02	.038	32	5	.04	31	.01	2	.47	.02	.03	1	70
CC 6+00E 0+20N	1	48	21	96	.1	51	23	532	4.07	8	5	ND	9	9	1	2	4	9	.16	.044	27	23	.52	34	.01	5	1.29	.02	.06	1	5
CC 6+00E 0+10N	1	30	20	77	.1	38	17	302	4.74	33	5	ND	6	8	1	2	2	17	.12	.063	20	22	.25	41	.01	2	2.17	.03	.05	1	13
CC 6+00E 0+00N	2	26	19	105	.2	30	12	447	4.48	12	5	ND	5	7	1	2	2	20	.03	.040	25	20	.24	60	.01	2	1.29	.06	.04	1	2
CCA 1+00E 1+00S	3	44	71	223	.5	58	18	575	4.69	42	5	ND	2	33	1	2	3	28	.45	.100	24	52	.59	228	.01	2	1.47	.01	.08	3	12
CCA 1+00E 1+10S	3	49	47	166	.1	64	20	650	4.49	43	5	ND	4	25	1	2	2	24	.29	.098	37	40	.48	194	.02	6	1.02	.01	.04	1	17
CCA 1+00E 1+20S	2	51	397	218	.3	54	19	715	4.61	50	5	ND	4	19	1	2	3	21	.26	.085	33	31	.45	144	.02	2	.97	.01	.04	4	159
CCA 1+00E 1+30S	2	58	262	205	.3	36	19	831	5.15	32	5	ND	8	12	2	4	4	18	.14	.062	32	17	.40	52	.01	6	1.04	.01	.04	5	19
CCA 1+00E 1+40S	2	42	664	487	.7	29	15	645	4.57	27	5	ND	1	14	4	3	2	19	.16	.059	22	19	.36	72	.01	2	1.09	.01	.05	2	34
CCA 1+00E 1+50S	1	44	168	91	.5	18	10	427	5.19	17	5	ND	2	7	1	2	3	23	.06	.082	21	17	.28	56	.01	2	1.31	.01	.03	2	16
CCA 1+00E 1+60S	2	38	59	86	.3	16	10	646	4.77	10	5	ND	1	5	1	2	2	26	.04	.072	21	16	.27	46	.01	2	1.14	.01	.04	1	3
CCA 1+00E 1+70S	1	75	94	115	.3	22	16	940	5.50	11	5	ND	2	8	1	2	2	23	.08	.085	33	17	.29	48	.01	2	1.47	.01	.03	1	5
CCA 1+00E 1+80S	1	29	43	75	.1	15	8	505	4.14	8	5	ND	1	6	1	2	2	24	.06	.077	19	15	.25	51	.01	2	.95	.01	.02	1	3
CCA 1+00E 1+90S	2	28	59	79	1.3	14	11	747	5.46	13	5	ND	2	6	1	3	4	27	.06	.140	20	15	.23	37	.01	2	.89	.01	.04	2	4
CCA 1+00E 2+00S	1	39	57	75	.9	13	9	1219	4.09	9	5	ND	1	7	1	2	2	26	.04	.073	26	15	.19	67	.01	6	1.09	.01	.02	1	7
CCA 1+00E 2+10S	1	27	32	75	.4	10	8	481	3.58	8	5	ND	1	16	1	2	2	25	.19	.118	16	11	.19	44	.01	2	.70	.01	.04	1	31
CCA 1+00E 2+20S	1	34	107	94	.5	18	13	697	5.61	13	5	ND	1	12	1	3	2	19	.16	.102	19	15	.27	50	.01	3	.98	.01	.03	1	1
CCA 1+00E 2+30S	2	36	98	85	.5	13	12	1984	4.98	13	5	ND	1	6	1	2	2	22	.03	.099	23	15	.23	71	.01	3	.98	.01	.03	1	1
CCA 1+00E 2+40S	2	45	87	85	.7	16	13	735	5.04	11	5	ND	2	6	1	2	2	21	.06	.103	24	16	.27	28	.01	3	1.23	.01	.03	1	4
CCA 1+00E 2+50S	1	14	17	31	.2	7	4	182	1.94	3	5	ND	1	5	1	2	2	17	.01	.085	22	9	.13	32	.01	3	.57	.01	.02	1	4
CCA 1+00E 2+60S	1	34	35	63	1.2	12	8	462	4.56	10	5	ND	2	4	1	3	2	26	.01	.082	20	14	.23	38	.01	3	.89	.01	.03	1	12
CCA 1+00E 2+70S	1	18	18	39	.8	7	5	168	3.08	6	5	ND	1	4	1	2	2	21	.01	.075	22	13	.20	35	.01	5	.83	.01	.02	1	4
CCA 1+00E 2+80S	1	32	32	63	.3	16	8	328	3.90	11	5	ND	1	4	1	2	2	21	.01	.080	22	14	.26	33	.01	2	.97	.01	.03	1	1
STD C/AU-S	18	57	38	131	6.8	63	27	929	3.70	34	25	7	36	48	17	17	20	55	.46	.080	36	55	.83	175	.06	32	1.89	.06	.12	13	51

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA 1+00E 2+90S	2	48	49	92	.6	19	15	914	6.30	11	5	ND	1	7	1	2	2	25	.07	.114	25	15	.32	34	.01	4	1.14	.01	.04	1	36
CCA 1+00E 3+00S	2	67	92	101	.2	26	18	857	6.66	14	5	ND	3	8	1	2	2	21	.12	.077	24	15	.35	56	.01	4	1.11	.01	.03	1	5
CCA 1+00E 3+10S	2	27	48	60	.6	9	8	1099	4.74	8	5	ND	1	9	1	2	2	30	.07	.074	20	12	.12	59	.01	2	.80	.01	.03	1	4
CCA 1+00E 3+20S	2	55	94	90	.4	22	18	823	7.18	11	5	ND	2	6	1	2	2	25	.04	.073	22	15	.28	47	.01	4	1.24	.01	.03	1	3
CCA 1+00E 3+30S	2	78	83	111	.1	30	21	1591	7.66	18	5	ND	1	6	1	3	2	23	.03	.103	25	19	.28	63	.01	11	1.26	.01	.03	2	1
CCA 1+00E 3+40S	3	47	54	113	1.5	19	16	7949	5.01	11	5	ND	1	9	1	2	3	29	.09	.115	21	14	.20	200	.01	2	.90	.01	.04	1	1
CCA 1+00E 3+50S	2	52	58	77	1.0	17	16	2851	5.61	11	5	ND	1	9	1	3	2	32	.12	.108	21	14	.29	79	.01	2	1.15	.01	.06	1	26
CCA 1+00E 3+60S	2	30	31	60	.2	12	10	1051	5.07	10	5	ND	1	7	1	3	2	32	.06	.101	25	12	.20	62	.01	2	.81	.01	.04	1	3
CCA 1+00E 3+70S	2	37	34	58	.6	13	12	1516	5.14	11	5	ND	1	5	1	2	2	33	.02	.086	23	12	.25	51	.01	3	.91	.01	.03	1	1
CCA 1+00E 3+80S	2	50	35	72	.3	15	14	1049	5.79	10	5	ND	1	5	1	2	2	32	.02	.126	19	13	.22	42	.01	3	.89	.01	.03	1	1
CCA 1+00E 3+90S	2	91	53	112	.1	23	25	1456	8.97	13	5	ND	3	6	1	2	2	37	.04	.127	27	18	.38	51	.01	3	1.79	.01	.04	1	6
CCA 1+00E 4+00S	2	40	33	60	.5	12	10	462	5.77	10	5	ND	1	6	1	2	2	31	.02	.091	25	13	.17	27	.01	2	.78	.01	.03	1	1
CCA 1+50E 1+20S	2	63	1125	234	1.1	44	25	593	6.43	140	5	ND	6	16	1	3	2	18	.20	.082	28	17	.39	86	.01	11	.67	.01	.02	303	1920
CCA 1+50E 1+30S	2	61	1150	261	.5	38	18	806	5.15	44	5	ND	7	16	2	2	2	15	.21	.065	30	12	.31	48	.01	10	.75	.01	.03	12	145
CCA 1+50E 1+40S	2	77	94	119	.1	40	28	618	6.09	27	5	ND	7	19	1	2	2	22	.25	.086	41	12	.52	51	.01	6	1.13	.01	.01	4	73
CCA 1+50E 1+50S	3	47	101	111	.4	33	15	672	10.05	39	5	ND	1	5	1	4	5	42	.04	.110	19	38	.33	45	.01	6	1.14	.01	.03	2	2
CCA 1+50E 1+60S	2	28	42	63	.3	14	8	273	4.98	14	5	ND	2	5	1	2	2	29	.02	.069	27	15	.28	34	.01	5	1.08	.01	.04	6	305
CCA 1+50E 1+70S	2	23	36	68	.1	13	9	839	4.10	9	5	ND	1	6	1	2	2	31	.03	.073	20	20	.18	52	.01	2	.77	.01	.03	14	14
CCA 1+50E 1+80S	2	53	59	142	.7	12	17	2438	8.88	18	5	ND	1	11	1	2	2	36	.12	.151	14	14	.16	153	.01	2	1.09	.01	.02	1	2
STD C/AU-S	20	61	41	128	7.2	70	30	998	3.93	39	20	8	40	50	18	17	18	59	.49	.088	38	58	.89	175	.06	34	1.91	.06	.13	13	51
CCA 1+50E 1+90S	2	35	34	79	1.0	12	13	1091	4.94	9	5	ND	1	6	1	2	2	33	.02	.102	20	13	.27	52	.01	2	1.09	.01	.03	1	34
CCA 1+50E 2+00S	1	15	22	43	.3	8	6	286	3.05	6	5	ND	1	5	1	2	2	29	.02	.063	24	11	.28	35	.01	5	1.04	.01	.03	3	4
CCA 1+50E 2+10S	2	37	46	88	.3	16	14	871	7.12	10	5	ND	1	6	1	2	5	38	.04	.098	20	17	.33	37	.01	2	1.38	.01	.03	1	98
CCA 1+50E 2+20S	2	35	73	111	.4	17	18	2118	6.94	12	7	ND	1	12	1	2	2	33	.21	.123	19	17	.22	64	.01	6	1.04	.01	.05	4	30
CCA 1+50E 2+30S	2	58	86	121	.8	23	17	1092	7.99	13	5	ND	1	8	1	2	2	26	.10	.100	22	17	.28	80	.01	6	1.38	.01	.03	3	14
CCA 1+50E 2+40S	1	15	17	32	.1	9	5	241	2.55	6	5	ND	1	5	1	2	2	22	.01	.045	28	11	.13	43	.01	5	.61	.01	.03	1	25
CCA 1+50E 2+50S	1	19	32	52	.6	9	8	1095	4.08	10	5	ND	1	6	1	2	2	30	.03	.124	22	10	.17	46	.01	3	.76	.01	.03	1	7
CCA 1+50E 2+60S	2	34	39	74	.4	18	12	1410	5.34	9	5	ND	1	5	1	2	2	27	.03	.117	19	18	.27	36	.01	2	1.32	.01	.04	1	3
CCA 1+50E 2+70S	2	38	80	98	.8	18	14	1443	6.29	14	5	ND	1	7	1	2	2	28	.05	.137	21	19	.23	40	.01	5	1.52	.01	.04	8	2
CCA 1+50E 2+80S	2	24	73	64	.9	11	9	621	4.55	12	5	ND	1	5	1	2	2	26	.01	.113	20	11	.18	33	.01	2	.83	.01	.03	1	142
CCA 1+50E 2+90S	2	39	49	64	.5	10	11	2036	4.78	7	5	ND	1	6	1	2	2	33	.01	.109	21	14	.14	71	.01	3	1.25	.01	.04	1	8
CCA 1+50E 3+00S	2	44	58	88	.7	15	12	975	5.03	9	6	ND	2	6	1	2	2	24	.02	.119	23	13	.28	46	.01	7	1.14	.01	.05	1	16
CCA 1+50E 3+10S	2	46	46	92	.1	17	13	1467	5.75	18	5	ND	1	8	1	2	2	33	.04	.120	21	15	.34	114	.01	4	1.28	.01	.04	3	5
CCA 1+50E 3+20S	1	29	27	106	.3	14	9	1100	4.37	13	5	ND	1	18	1	2	2	29	.23	.119	20	12	.21	117	.01	2	.86	.01	.04	1	134
CCA 1+50E 3+30S	2	41	45	77	.3	19	13	812	5.21	15	5	ND	1	7	1	2	2	27	.04	.118	22	15	.23	65	.01	7	1.07	.01	.04	1	4
CCA 1+50E 3+40S	2	39	48	91	.3	16	12	1470	5.63	15	5	ND	1	8	1	2	2	32	.07	.120	20	13	.19	87	.01	2	.86	.01	.04	1	3
CCA 1+50E 3+50S	2	43	57	76	.1	16	13	1040	6.26	14	5	ND	1	7	1	2	2	34	.06	.117	22	12	.23	50	.01	5	.90	.01	.05	1	5

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA 1+50E 3+60S	1	28	79	55	.1	14	8	204	3.65	13	5	ND	2	5	1	2	2	18	.03	.084	22	11	.22	38	.01	2	.87	.01	.05	1	10
CCA 1+50E 3+70S	1	26	35	61	.2	11	8	465	5.18	14	5	ND	1	5	1	2	2	20	.01	.081	21	14	.17	42	.01	3	.87	.01	.04	1	1
CCA 1+50E 3+80S	1	29	39	59	.4	13	10	849	4.43	19	5	ND	1	4	1	5	2	26	.01	.069	23	17	.22	36	.01	2	1.03	.01	.04	1	1
CCA 1+50E 3+90S	2	40	54	70	.3	18	10	509	6.63	21	5	ND	1	6	1	2	2	22	.03	.078	21	22	.17	29	.01	2	.99	.01	.04	1	1
CCA 1+50E 4+00S	1	48	44	68	.1	19	13	627	5.86	29	5	ND	2	7	1	2	2	27	.01	.054	29	11	.18	29	.01	2	.78	.01	.03	1	1
CCA 2+00E 1+10S	3	48	74	165	.2	64	20	779	5.15	60	5	ND	2	13	1	2	3	26	.14	.075	33	44	.56	154	.01	7	1.49	.01	.06	1	39
CCA 2+00E 1+20S	2	56	74	153	.4	59	22	1279	5.15	57	5	ND	3	18	1	2	2	21	.28	.092	28	34	.50	209	.01	2	1.32	.01	.07	6	32
CCA 2+00E 1+30S	2	53	69	154	.3	55	19	978	4.90	55	5	ND	2	17	1	2	2	21	.23	.096	27	38	.50	197	.01	7	1.27	.01	.07	2	33
CCA 2+00E 1+40S	3	50	223	222	.2	49	20	589	4.84	38	5	ND	4	20	1	2	2	22	.26	.087	29	29	.52	117	.01	5	.97	.01	.04	25	185
CCA 2+00E 1+50S	4	50	199	186	.3	57	25	860	5.40	63	5	ND	4	24	1	3	2	21	.31	.102	23	34	.51	144	.01	5	.83	.01	.04	28	445
CCA 2+00E 1+60S	3	54	869	299	1.4	47	20	942	4.81	67	5	ND	5	18	2	2	2	18	.26	.078	28	20	.44	92	.01	2	.89	.01	.05	57	185
CCA 2+00E 1+70S	2	23	40	59	.3	14	7	328	3.81	23	5	ND	1	7	1	2	2	28	.06	.067	21	13	.12	48	.01	2	.63	.01	.03	12	28
CCA 2+00E 1+80S	1	13	20	41	.2	8	5	267	2.50	15	5	ND	1	5	1	2	2	22	.01	.067	28	11	.13	34	.01	4	.60	.01	.02	5	8
CCA 2+00E 1+90S	1	17	22	32	1.5	7	5	126	2.43	8	5	ND	1	5	1	2	2	22	.01	.061	24	12	.17	30	.01	4	.79	.01	.03	2	6
CCA 2+00E 2+00S	1	29	39	67	1.2	15	10	442	6.60	13	5	ND	2	4	1	2	2	35	.01	.088	21	21	.30	30	.01	2	1.24	.01	.04	2	7
CCA 2+00E 2+10S	1	48	59	83	.4	20	13	576	5.23	15	5	ND	2	5	1	2	2	27	.03	.169	19	16	.34	42	.01	2	1.12	.01	.04	2	96
CCA 2+00E 2+20S	1	38	39	131	1.4	17	15	1203	7.83	11	5	ND	1	10	1	2	2	38	.11	.195	16	20	.38	62	.01	2	1.76	.01	.04	1	5
CCA 2+00E 2+30S	1	63	40	97	.6	19	19	777	6.83	12	5	ND	5	6	1	2	3	56	.07	.136	17	18	.80	35	.01	2	2.24	.01	.03	1	23
CCA 2+00E 2+40S	1	26	30	52	.8	14	8	403	4.53	18	5	ND	1	3	1	2	2	17	.01	.064	24	11	.12	31	.01	2	.66	.01	.03	1	19
CCA 2+00E 2+50S	1	33	49	79	.5	16	11	485	5.27	16	5	ND	1	6	1	2	2	26	.03	.073	19	14	.15	30	.01	3	.86	.01	.03	1	25
CCA 2+00E 2+60S	1	40	58	81	.4	16	13	1500	5.49	13	5	ND	1	5	1	2	2	25	.03	.130	17	14	.23	45	.01	3	.97	.01	.04	28	73
CCA 2+00E 2+70S	1	20	27	41	.6	11	7	255	3.43	11	5	ND	1	4	1	2	2	27	.01	.125	18	11	.14	31	.01	2	.72	.01	.03	6	795
CCA 2+00E 2+80S	1	30	41	58	.5	14	11	1110	4.42	17	5	ND	1	5	1	2	2	25	.01	.094	21	14	.19	40	.01	8	1.04	.01	.04	3	11
CCA 2+00E 2+90S	1	25	44	52	.1	13	8	349	4.81	12	5	ND	1	4	1	2	2	25	.01	.126	23	15	.23	29	.01	2	.97	.01	.04	5	51
CCA 2+00E 3+00S	1	13	34	31	.7	9	3	153	2.51	6	5	ND	1	5	1	2	2	22	.02	.124	22	10	.09	33	.01	2	.57	.01	.04	4	1
CCA 2+00E 3+10S	1	36	28	87	.8	29	13	362	5.47	8	5	ND	4	4	1	2	2	18	.01	.092	24	24	.52	31	.01	3	1.52	.01	.04	1	3
CCA 2+00E 3+20S	1	69	76	98	.3	28	19	961	6.43	17	5	ND	5	5	1	2	2	25	.02	.082	27	17	.36	40	.01	2	1.34	.01	.04	1	2
CCA 2+00E 3+30S	1	52	94	110	.7	19	15	1694	6.33	21	5	ND	1	5	1	2	2	32	.01	.141	24	16	.32	53	.01	3	1.12	.01	.03	3	5
CCA 2+00E 3+40S	1	27	38	51	.2	10	8	505	3.54	8	5	ND	1	6	1	2	2	25	.03	.107	20	11	.20	37	.01	2	.75	.01	.05	3	1
CCA 2+00E 3+50S	1	27	32	50	.1	15	8	359	4.32	13	5	ND	1	6	1	2	2	25	.03	.152	21	11	.15	39	.01	2	.68	.01	.03	3	1
CCA 2+00E 3+60S	2	62	48	75	1.8	21	16	1983	5.65	16	5	ND	2	5	1	2	2	25	.01	.089	29	13	.30	64	.01	2	1.15	.01	.04	1	3
CCA 2+00E 3+70S	1	22	30	46	.1	11	7	750	3.06	8	5	ND	1	5	1	2	2	27	.01	.077	21	10	.15	39	.01	2	.68	.01	.03	2	21
CCA 2+00E 3+80S	1	62	63	93	.4	24	18	789	7.34	16	5	ND	3	5	1	2	2	27	.01	.089	22	19	.36	46	.01	7	1.26	.01	.04	1	10
CCA 2+00E 3+90S	1	30	44	64	.3	14	10	884	4.34	14	5	ND	1	6	1	2	2	28	.01	.105	23	12	.18	36	.01	4	.79	.01	.04	1	1
CCA 2+00E 4+00S	1	54	52	83	.2	23	14	491	6.50	13	5	ND	3	8	1	2	2	27	.08	.186	22	16	.39	37	.01	2	1.19	.01	.06	2	6
CCA 2+50E 1+60S	3	32	199	225	.4	46	16	1023	4.65	34	5	ND	2	50	1	2	2	25	.79	.115	22	39	.61	181	.01	2	1.10	.01	.05	6	24
STD C/AU-S	19	60	41	131	7.3	67	28	1020	3.71	38	18	8	38	52	18	17	20	57	.46	.088	38	59	.91	177	.06	37	1.87	.06	.13	13	53

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA 2+50E 1+70S	2	66	54	145	.2	70	22	898	5.35	29	5	ND	13	8	1	3	8	23	.10	.070	37	38	.62	70	.01	3	1.45	.01	.06	2	22
CCA 2+50E 1+80S	3	34	44	93	.5	30	12	398	7.30	33	5	ND	6	5	1	2	2	26	.03	.075	26	34	.37	44	.01	4	1.48	.01	.04	3	13
CCA 2+50E 1+90S	1	29	43	64	.5	17	9	272	5.75	15	5	ND	4	5	1	2	2	21	.06	.106	19	18	.29	33	.01	3	1.07	.01	.04	4	44
CCA 2+50E 2+00S	2	33	31	75	1.1	14	12	619	4.98	9	5	ND	3	5	1	2	2	27	.03	.098	22	22	.29	35	.01	3	1.84	.01	.04	1	150
CCA 2+50E 2+10S	2	25	31	56	.6	14	8	839	4.51	12	5	ND	3	5	1	2	2	21	.03	.094	22	12	.21	30	.01	4	.80	.01	.04	3	31
CCA 2+50E 2+20S	1	5	4	15	.2	2	1	60	.60	3	5	ND	2	5	1	2	2	8	.01	.035	35	5	.08	20	.01	5	.43	.01	.03	1	9
CCA 2+50E 2+30S	2	30	32	65	.9	15	11	797	4.66	11	5	ND	1	5	1	2	2	31	.05	.128	19	13	.34	35	.01	4	1.10	.01	.04	2	10
CCA 2+50E 2+40S	1	54	48	83	1.0	19	14	474	5.88	10	5	ND	5	6	1	2	2	28	.04	.085	17	16	.39	33	.01	3	1.82	.01	.04	3	27
CCA 2+50E 2+50S	1	26	35	57	.9	11	7	378	4.34	15	5	ND	3	5	1	2	2	22	.02	.077	17	13	.18	27	.01	6	.88	.01	.04	4	175
CCA 2+50E 2+60S	1	31	37	59	.8	14	11	792	4.76	14	5	ND	3	4	1	3	2	22	.01	.101	19	13	.19	28	.01	3	.87	.01	.04	12	35
CCA 2+50E 2+70S	1	32	47	69	.7	16	11	556	5.47	19	5	ND	2	5	1	2	2	24	.02	.108	20	14	.21	26	.01	4	.87	.01	.04	8	26
CCA 2+50E 2+80S	1	34	38	79	.8	19	12	718	4.96	14	5	ND	4	7	1	2	2	20	.09	.094	20	14	.29	39	.01	2	1.07	.01	.05	10	20
CCA 2+50E 2+90S	1	36	34	70	.6	16	10	595	5.22	9	5	ND	4	4	1	2	2	24	.02	.107	19	14	.29	39	.01	3	1.18	.01	.04	9	16
CCA 2+50E 3+00S	1	8	13	24	.2	5	2	103	1.53	6	5	ND	1	6	1	2	2	12	.04	.064	19	7	.11	30	.01	4	.53	.01	.03	3	15
CCA 2+50E 3+10S	2	36	50	71	.2	13	9	549	5.56	11	5	ND	1	4	1	2	2	26	.01	.115	18	15	.23	29	.01	10	1.20	.01	.03	17	10
CCA 2+50E 3+20S	1	12	16	34	.3	5	3	100	2.14	2	5	ND	1	4	1	2	2	25	.01	.054	22	10	.18	27	.01	2	.88	.01	.03	1	3
CCA 2+50E 3+30S	1	30	31	62	.4	12	8	457	3.78	9	5	ND	3	8	1	5	2	38	.10	.124	19	14	.36	57	.01	3	1.24	.01	.04	2	16
CCA 2+50E 3+40S	1	30	29	73	.8	12	11	1386	4.14	9	5	ND	2	21	1	2	2	31	.09	.088	18	16	.37	38	.01	6	1.32	.01	.04	1	3
CCA 2+50E 3+50S	1	26	26	49	1.2	11	8	618	4.32	11	5	ND	2	6	1	2	2	29	.03	.120	15	13	.19	65	.01	3	.71	.01	.04	2	17
CCA 2+50E 3+60S	1	44	42	64	.8	17	11	555	4.46	11	5	ND	1	5	1	2	2	24	.03	.088	19	18	.26	47	.01	6	1.10	.01	.04	2	23
CCA 2+50E 3+70S	1	37	46	64	.7	21	11	454	5.45	13	5	ND	1	6	1	2	2	27	.05	.115	20	25	.34	36	.01	2	1.18	.01	.04	4	20
CCA 2+50E 3+80S	1	26	33	45	2.4	10	7	538	4.51	10	5	ND	3	5	1	2	2	26	.03	.158	19	11	.15	42	.01	3	.79	.01	.04	2	21
CCA 2+50E 3+90S	2	36	48	64	.5	14	11	1077	6.70	15	5	ND	1	5	1	2	2	34	.02	.185	18	14	.17	33	.01	4	.91	.01	.03	2	16
CCA 2+50E 4+00S	1	27	39	64	.7	12	9	735	7.29	14	5	ND	1	6	1	2	2	26	.05	.199	17	12	.15	37	.01	6	.80	.01	.04	2	13
CCA 3+00E 1+60S	4	66	74	187	.7	72	24	994	6.65	67	5	ND	6	14	1	2	5	27	.17	.107	32	49	.58	128	.01	6	1.55	.01	.07	4	8
CCA 3+00E 1+70S	2	17	35	53	.4	15	8	638	3.95	21	5	ND	2	5	1	3	2	18	.02	.074	23	17	.17	33	.01	7	.71	.01	.03	13	38
CCA 3+00E 1+80S	2	20	37	54	.4	12	8	336	4.42	18	5	ND	2	5	1	2	2	23	.03	.074	21	17	.19	33	.01	2	.80	.01	.05	4	14
CCA 3+00E 1+90S	1	12	28	47	.3	10	5	360	2.57	11	5	ND	1	5	1	2	2	20	.02	.059	20	14	.19	77	.01	5	.79	.01	.05	4	67
CCA 3+00E 2+00S	1	16	31	63	.7	13	6	462	3.07	13	5	ND	2	6	1	2	2	19	.10	.085	18	14	.22	48	.01	6	.79	.01	.06	4	45
CCA 3+00E 2+10S	1	27	46	75	.6	17	8	309	4.07	14	5	ND	2	7	1	3	2	24	.07	.068	21	18	.28	61	.01	2	1.12	.01	.05	10	18
CCA 3+00E 2+20S	1	40	50	100	.2	24	13	1370	4.79	14	5	ND	1	15	1	2	2	24	.24	.105	21	21	.34	116	.01	2	1.37	.01	.06	3	29
CCA 3+00E 2+30S	1	18	61	82	.6	8	7	562	4.01	12	10	ND	4	6	1	2	2	31	.02	.053	21	12	.14	55	.01	2	.75	.01	.05	5	19
CCA 3+00E 2+40S	1	23	39	56	1.0	9	9	601	3.79	13	5	ND	3	5	1	3	2	30	.03	.052	22	12	.16	44	.01	6	.85	.01	.05	6	23
CCA 3+00E 2+50S	1	23	43	61	.3	11	7	240	3.56	10	5	ND	1	7	1	2	2	23	.10	.059	18	14	.14	46	.01	8	.74	.01	.05	9	42
CCA 3+00E 2+60S	1	31	47	82	.4	13	9	796	4.40	12	5	ND	2	6	1	4	2	28	.02	.068	22	16	.17	81	.01	2	.90	.01	.05	13	37
CCA 3+00E 2+70S	1	28	44	80	.8	14	8	517	5.02	12	5	ND	1	6	1	2	2	26	.05	.070	17	14	.18	63	.01	11	.93	.01	.04	4	14
STD C/AU-S	18	57	37	131	7.3	67	27	1033	3.97	37	18	8	38	49	17	17	21	55	.49	.080	36	56	.89	171	.06	37	1.93	.06	.13	13	51

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA 3+00E 2+80S	1	29	45	68	.2	11	11	817	4.96	12	5	ND	1	4	1	3	2	25	.04	.067	18	14	.15	39	.01	3	.82	.01	.04	72	9
CCA 3+00E 2+90S	1	35	49	82	.6	16	12	849	5.62	12	5	ND	1	7	1	3	2	27	.09	.120	16	21	.22	57	.01	9	1.16	.01	.06	150	4
CCA 3+00E 3+00S	1	26	36	61	.5	10	8	459	4.47	8	5	ND	1	4	1	2	2	23	.02	.097	19	17	.21	33	.01	2	1.02	.01	.04	7	4
CCA 3+00E 3+10S	1	16	27	38	.1	10	5	298	3.24	6	5	ND	1	4	1	2	2	18	.03	.082	24	12	.12	29	.01	3	.69	.01	.05	5	30
CCA 3+00E 3+20S	1	10	8	32	.2	6	4	118	1.76	5	5	ND	1	3	1	2	2	14	.01	.034	33	4	.02	17	.01	2	.26	.01	.02	2	4
CCA 3+00E 3+30S	1	55	88	96	.3	20	15	781	5.59	10	5	ND	4	3	1	2	2	19	.01	.067	30	16	.19	41	.01	3	1.16	.01	.04	2	11
CCA 3+00E 3+40S	1	31	37	67	.1	12	9	603	4.72	8	5	ND	1	4	1	2	2	27	.01	.080	22	14	.21	45	.01	2	1.07	.01	.03	2	4
CCA 3+00E 3+50S	1	32	51	51	.1	11	8	1125	3.89	9	5	ND	1	4	1	2	2	30	.01	.112	20	12	.23	53	.01	4	.97	.01	.03	4	5
CCA 3+00E 3+60S	1	29	47	44	.1	9	6	298	3.86	13	5	ND	1	4	1	4	2	26	.01	.101	19	11	.15	34	.01	2	.94	.01	.03	2	4
CCA 3+00E 3+70S	1	30	33	52	.1	12	8	679	4.72	10	5	ND	1	5	1	2	2	30	.01	.196	21	11	.15	34	.01	2	.74	.01	.04	3	3
CCA 3+00E 3+80S	1	23	39	45	.2	9	7	586	3.69	11	5	ND	1	4	1	2	2	21	.01	.080	19	8	.08	28	.01	2	.62	.01	.03	11	17
CCA 3+00E 3+90S	1	39	37	151	.1	20	12	3261	5.43	16	5	ND	1	18	1	2	2	22	.45	.152	16	11	.11	182	.01	7	.47	.01	.07	1	1
CCA 3+00E 4+00S	1	48	24	72	.3	13	14	1094	5.37	9	5	ND	1	7	1	2	2	51	.07	.095	16	9	.12	38	.01	2	.80	.01	.04	1	3
CCA 3+50E 1+60S	3	57	53	178	.1	61	21	618	4.97	50	5	ND	6	20	1	2	2	18	.26	.093	34	29	.39	135	.01	3	.86	.01	.03	4	21
CCA 3+50E 1+70S	1	16	51	60	.1	15	7	183	4.51	10	5	ND	6	5	1	2	2	20	.03	.052	30	25	.29	38	.01	2	1.08	.01	.03	6	9
CCA 3+50E 1+80S	1	24	24	46	1.2	12	6	292	3.84	12	5	ND	1	4	1	2	2	22	.01	.062	21	14	.12	57	.01	2	.68	.01	.03	4	40
CCA 3+50E 1+90S	1	17	34	54	1.6	11	6	253	3.51	7	5	ND	2	6	1	2	2	26	.06	.050	24	16	.18	49	.01	5	.91	.01	.04	4	17
CCA 3+50E 2+00S	1	11	25	32	.6	8	4	108	2.14	9	5	ND	1	5	1	2	2	22	.01	.043	26	14	.15	50	.01	5	.88	.01	.04	3	32
CCA 3+50E 2+10S	1	29	64	96	.6	15	10	360	4.48	12	5	ND	1	9	1	2	2	27	.12	.067	20	19	.23	64	.01	5	1.25	.01	.05	3	26
CCA 3+50E 2+20S	1	30	52	64	1.5	16	11	355	4.20	15	5	ND	1	5	1	2	2	24	.03	.098	21	14	.23	55	.01	2	.92	.01	.04	4	8
CCA 3+50E 2+30S	1	42	81	99	.4	29	17	641	5.38	22	5	ND	5	9	1	2	2	21	.15	.163	22	18	.38	75	.01	5	1.30	.01	.08	4	10
CCA 3+50E 2+40S	1	25	26	65	.1	17	10	837	3.48	10	5	ND	1	6	1	2	3	23	.04	.066	26	15	.31	70	.01	2	1.12	.01	.05	2	11
CCA 3+50E 2+50S	1	27	43	55	.4	12	9	789	3.62	10	5	ND	1	6	1	2	2	28	.03	.071	23	15	.19	55	.01	2	.98	.01	.04	2	204
CCA 3+50E 2+60S	1	32	58	65	.5	16	11	413	5.45	15	5	ND	1	6	1	2	2	25	.05	.128	20	17	.26	42	.01	2	1.17	.01	.04	4	11
CCA 3+50E 2+70S	1	65	58	91	.1	25	21	807	5.93	10	5	ND	2	6	1	2	2	26	.03	.067	25	18	.30	32	.01	5	1.49	.01	.03	6	24
CCA 3+50E 2+80S	1	26	28	61	.4	14	9	769	4.66	9	5	ND	1	4	1	2	2	28	.01	.129	21	19	.27	37	.01	6	1.25	.01	.04	2	11
CCA 3+50E 2+90S	1	24	13	40	.4	4	6	891	2.23	6	5	ND	1	4	1	2	2	17	.01	.056	21	5	.05	37	.01	5	.40	.01	.03	3	3
CCA 3+50E 3+00S	1	28	40	56	2.6	9	7	379	3.64	10	5	ND	2	4	1	3	2	18	.01	.090	18	13	.19	35	.01	4	1.03	.01	.05	3	7
CCA 3+50E 3+10S	1	23	25	59	.1	7	7	520	2.97	8	5	ND	1	5	1	2	2	21	.03	.087	22	9	.12	35	.01	4	.61	.01	.04	3	8
CCA 3+50E 3+20S	1	12	28	34	.4	8	4	282	2.66	9	5	ND	1	6	1	2	2	22	.02	.138	19	10	.10	50	.01	6	.66	.01	.04	5	3
CCA 3+50E 3+30S	1	19	43	47	.3	9	7	234	4.69	10	5	ND	1	4	1	2	2	28	.01	.175	19	12	.14	24	.01	3	.78	.01	.04	7	6
CCA 3+50E 3+40S	1	34	71	77	.6	17	12	705	5.68	13	5	ND	1	4	1	2	3	23	.01	.135	19	18	.27	44	.01	2	1.28	.01	.04	6	11
CCA 3+50E 3+50S	1	30	47	48	.6	10	8	316	4.43	10	5	ND	1	4	1	2	3	26	.01	.073	22	13	.19	25	.01	3	1.10	.01	.03	3	2
CCA 3+50E 3+60S	1	25	30	75	.1	11	9	718	6.96	13	5	ND	1	6	1	2	2	34	.01	.088	21	11	.14	55	.01	2	.84	.01	.03	1	3
CCA 3+50E 3+70S	1	37	45	81	.5	15	11	681	7.15	10	5	ND	1	8	1	2	2	38	.11	.188	21	15	.18	41	.01	6	.90	.01	.04	3	18
CCA 3+50E 3+80S	1	22	27	54	.1	14	8	428	3.54	7	5	ND	1	7	1	2	2	18	.05	.079	24	10	.15	28	.01	5	.66	.01	.04	1	3
STD C	19	58	39	134	7.0	69	29	969	3.77	37	15	8	37	50	18	15	22	57	.47	.087	37	58	.84	177	.06	33	2.02	.06	.13	10	-

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCA 3+50E 3+90S	1	22	52	40	.1	14	7	348	4.69	11	5	ND	1	5	1	2	2	22	.03	.070	18	12	.12	27	.01	4	.63	.01	.02	2	7
CCA 3+50E 4+00S	1	29	71	78	1.1	17	13	847	5.60	14	5	ND	1	8	1	2	2	25	.08	.122	16	19	.20	48	.01	3	1.06	.01	.03	1	3
CCA 4+00E 1+60S	2	47	53	99	.1	49	20	859	4.94	55	5	ND	4	12	1	4	2	13	.14	.063	26	18	.33	80	.01	10	.80	.01	.04	7	27
CCA 4+00E 1+70S	2	19	40	65	.1	23	11	377	5.00	14	5	ND	1	4	1	2	2	19	.02	.068	20	27	.30	25	.01	8	1.16	.01	.03	6	6
CCA 4+00E 1+80S	2	15	113	57	.1	15	11	629	4.02	17	5	ND	1	8	1	2	2	41	.04	.065	21	18	.17	44	.02	3	1.09	.01	.03	2	15
CCA 4+00E 1+90S	2	8	26	41	.3	9	6	305	2.88	12	5	ND	1	6	1	2	2	34	.02	.043	26	15	.11	26	.02	3	.83	.01	.03	4	5
CCA 4+00E 2+00S	2	17	15	44	.1	13	7	302	3.35	24	5	ND	1	5	1	2	2	34	.03	.056	22	13	.13	24	.01	4	.67	.01	.04	2	52
CCA 4+00E 2+10S	2	12	19	43	.3	11	6	269	4.01	15	5	ND	1	4	1	2	2	24	.01	.067	24	14	.12	20	.01	6	.71	.01	.03	4	9
CCA 4+00E 2+20S	2	11	28	36	.1	11	6	679	3.59	12	5	ND	1	4	1	2	2	25	.01	.092	22	14	.13	28	.01	9	.65	.01	.01	3	18
CCA 4+00E 2+30S	1	19	30	47	.4	13	8	420	4.61	14	5	ND	1	4	1	2	2	26	.02	.070	19	17	.17	21	.01	2	.91	.01	.03	9	22
CCA 4+00E 2+40S	1	7	21	29	.1	8	5	177	2.54	8	5	ND	1	4	1	2	2	25	.01	.077	25	11	.17	33	.01	2	.88	.01	.03	5	14
CCA 4+00E 2+50S	1	17	28	51	.1	15	9	475	4.33	17	5	ND	2	4	1	2	2	26	.02	.078	23	16	.32	43	.01	5	1.19	.01	.04	3	30
CCA 4+00E 2+60S	1	12	19	42	.4	10	6	213	3.27	9	5	ND	1	6	1	2	2	30	.03	.075	21	19	.22	35	.01	3	1.18	.01	.05	11	9
CCA 4+00E 2+70S	1	27	36	56	.8	17	12	374	4.36	15	5	ND	1	5	1	2	2	30	.02	.089	19	17	.33	36	.01	3	1.21	.01	.03	4	11
CCA 4+00E 2+80S	2	34	43	66	.1	15	14	1012	6.62	11	5	ND	1	7	1	2	2	31	.01	.080	24	19	.22	47	.01	5	1.38	.01	.03	3	1
CCA 4+00E 2+90S	1	24	33	56	.2	13	10	654	5.29	10	5	ND	1	7	1	2	2	25	.03	.093	22	11	.14	35	.01	2	.82	.01	.05	3	8
CCA 4+00E 3+00S	2	24	34	45	.3	13	9	433	4.91	12	5	ND	1	5	1	2	2	28	.01	.067	22	13	.16	51	.01	2	.84	.01	.03	6	7
CCA 4+00E 3+10S	1	12	27	35	.4	10	6	296	4.48	8	5	ND	1	4	1	2	2	27	.01	.074	20	15	.18	35	.01	2	.89	.01	.03	5	3
CCA 4+00E 3+20S	2	33	64	60	.6	17	12	771	4.94	16	5	ND	1	5	1	2	2	25	.02	.098	18	19	.23	42	.01	2	1.33	.01	.05	7	205
CCA 4+00E 3+30S	1	24	39	51	.2	16	10	329	4.62	16	5	ND	1	4	1	2	2	27	.01	.090	21	14	.22	34	.01	2	.94	.01	.04	7	31
CCA 4+00E 3+40S	1	26	59	58	.1	21	10	220	5.39	26	5	ND	2	4	1	2	2	24	.01	.097	16	20	.30	42	.01	2	1.26	.01	.04	7	10
CCA 4+00E 3+50S	1	14	37	32	.8	9	6	159	3.56	11	5	ND	1	4	1	2	2	22	.01	.056	20	13	.19	26	.01	2	.91	.01	.03	9	40
CCA 4+00E 3+60S	2	20	31	51	.1	14	10	599	6.79	29	5	ND	1	5	1	2	2	27	.01	.099	20	14	.17	32	.01	3	1.01	.01	.04	3	1
CCA 4+00E 3+70S	1	24	30	51	.4	15	9	324	5.34	13	5	ND	1	4	1	2	2	30	.01	.072	19	14	.24	27	.01	3	1.04	.01	.03	3	7
CCA 4+00E 3+80S	1	32	22	66	.1	18	11	600	4.62	8	5	ND	1	5	1	2	3	33	.04	.092	24	17	.43	30	.01	2	1.28	.01	.04	1	1
CCA 4+00E 3+90S	2	53	42	88	.6	17	16	1260	7.71	12	5	ND	1	5	1	2	6	54	.02	.142	15	22	.53	70	.01	3	2.17	.01	.04	3	1
CCA 4+00E 4+00S	2	50	33	67	1.0	14	12	810	5.85	7	5	ND	1	5	1	2	2	39	.04	.116	18	15	.38	42	.01	2	1.34	.01	.04	1	1
STD C/AU-S	19	59	37	128	7.1	68	29	988	3.95	39	17	8	40	51	18	17	19	57	.49	.085	38	61	.88	173	.06	38	1.92	.06	.14	13	52

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

EXTRA COPY

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-SOIL P2-ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 21 1987 DATE REPORT MAILED: Oct 1/87 ASSAYER. D. Toye. .DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-4372 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
CCR 4+25W 2+50S	1	42	22	94	.5	33	22	746	4.66	16	5	ND	15	5	1	2	2	20	.06	.051	36	30	.65	33	.01	2	1.98	.02	.04	1	31
CCR 0+00E 0+90S	1	39	31	112	.2	43	17	800	4.13	14	5	ND	6	12	1	2	2	23	.12	.062	32	29	.53	51	.01	4	1.26	.02	.04	1	71
CCR 1+50E 3+80S	1	46	15	76	.3	13	11	411	5.13	196	5	ND	3	5	1	2	2	35	.06	.099	12	10	.16	47	.01	2	.99	.01	.04	1	142
CCR 2+00E 2+40S	2	23	23	93	.3	52	29	2529	14.52	168	5	ND	4	4	1	2	2	15	.03	.113	16	5	.12	45	.01	2	.45	.01	.04	2	1190
CCR 2+00E 3+30S	1	93	336	233	1.3	35	26	3207	8.09	38	5	ND	3	19	2	2	3	12	.36	.113	15	9	.10	49	.01	3	.91	.02	.03	23	67
CCR 4+00E 3+70S	3	69	47	125	.2	22	16	4834	18.42	301	5	ND	4	9	1	2	2	22	.03	.125	13	11	.16	63	.01	2	.84	.01	.03	5	290
STD C/AU-S	18	59	37	134	7.3	67	27	1035	3.76	39	18	7	39	50	18	17	23	58	.45	.085	38	59	.85	179	.08	36	1.77	.08	.13	12	51

CORE ANALYSES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C.

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core · AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 2 1987 DATE REPORT MAILED: Nov 9/87 ASSAYER. D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5314

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56352	3	18	31	34	.7	44	19	1059	6.09	287	5	4	8	143	1	2	2	3	3.96	.028	5	8	1.28	22	.01	5	.18	.01	.12	1	5390
E 56353	2	32	14	54	.1	38	16	932	4.37	66	5	ND	10	56	1	2	2	3	1.59	.029	16	8	1.00	21	.01	2	.20	.01	.11	1	21
E 56354	1	39	27	86	.1	42	20	850	5.28	33	5	ND	13	30	1	2	2	5	.72	.036	23	14	1.04	22	.01	3	.49	.01	.14	1	31
E 56355	2	46	48	107	.1	45	26	522	6.05	15	5	ND	11	11	1	2	2	15	.17	.040	15	33	1.08	22	.01	2	1.73	.01	.13	1	11
E 56356	1	18	8	10	.2	15	7	899	2.74	43	5	ND	4	77	1	2	2	2	2.34	.014	6	6	.77	16	.01	3	.13	.01	.07	1	235
E 56357	1	12	6	15	.1	16	4	1121	2.35	23	5	ND	4	54	1	2	2	2	2.21	.013	6	5	.62	13	.01	5	.13	.01	.07	1	126
E 56358	1	16	4	11	.1	22	2	2362	2.77	11	5	ND	1	53	1	2	2	1	3.09	.005	3	6	.73	9	.01	2	.05	.01	.03	1	635
E 56359	1	11	14	16	.1	26	14	1179	3.81	59	5	ND	5	43	1	2	2	2	1.80	.032	6	6	.83	18	.01	2	.20	.01	.13	1	265
E 56360	2	67	7	61	.1	29	20	911	5.70	7	5	ND	6	94	1	2	2	13	3.00	.029	8	14	1.61	20	.01	2	.60	.02	.10	1	1680
E 56361	1	18	3	62	.1	28	13	462	4.58	4	5	ND	5	27	1	2	2	11	1.57	.011	7	10	1.35	505	.01	2	.18	.02	.08	1	89
E 56362	5	156	7	74	.2	28	27	1420	7.96	33	5	ND	2	170	1	2	2	16	5.41	.050	2	13	3.35	25	.01	2	.21	.02	.11	1	1
E 56363	2	88	4	73	.1	32	13	1217	5.10	2	5	ND	6	88	1	2	2	8	2.54	.019	12	10	1.53	92	.01	3	.22	.02	.10	1	1
STD C/AU-R	19	61	38	131	7.5	70	29	1045	4.03	41	18	8	39	53	18	17	19	60	.50	.089	39	59	.89	178	.09	38	1.86	.06	.14	13	480

ACME ANALYTICAL LABORATORIES LTD. …2 E…STIN… ST. …OUV… …

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE/ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 6 1987 DATE REPORT MAILED: Nov 24/87 ASSAYER. D.Toye.. DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5472

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56364	1	26	11	32	.1	18	8	1187	3.15	9	5	ND	1	299	1	2	2	3	5.84	.013	2	6	2.12	7	.01	2	.04	.02	.03	2	1
E 56365	1	29	5	10	.2	7	2	405	1.75	2	5	ND	2	36	1	2	2	1	1.19	.007	5	3	.49	11	.01	2	.09	.02	.05	1	310
E 56366	1	340	5	18	.4	164	10	456	8.42	2	5	ND	3	32	1	2	2	1	.77	.012	2	2	.49	10	.01	2	.06	.01	.05	3	3420
E 56367	1	28	4	16	.1	17	4	792	2.39	2	5	ND	4	102	1	2	2	1	2.20	.031	5	3	.95	18	.01	4	.13	.01	.07	1	1
E 56368	1	305	26	26	.5	63	12	1326	8.31	16	5	ND	7	131	1	2	2	2	3.08	.024	2	4	1.31	26	.01	2	.16	.01	.12	2	19
E 56369	1	22	7	8	.2	6	2	305	1.19	2	5	ND	1	39	1	2	3	1	.83	.007	2	2	.35	11	.01	2	.04	.01	.02	1	1
E 56370	1	72	33	44	.1	66	18	1091	4.96	4	5	ND	7	59	1	2	2	2	.99	.025	6	6	1.13	36	.01	2	.25	.02	.13	2	2
E 56371	1	9	10	21	.1	13	6	1119	3.76	22	5	ND	3	155	1	2	2	1	3.64	.022	4	5	1.60	11	.01	2	.09	.02	.05	1	1
E 56372	1	7	2	13	.2	9	3	503	2.65	7	5	ND	4	58	1	2	2	1	.62	.030	4	4	.72	7	.01	2	.09	.03	.04	2	8
JW-87-98R	1	9	13	24	.1	3	15	732	3.30	45	5	ND	1	765	1	2	2	1	26.21	.018	2	3	.30	11	.01	2	.04	.01	.02	1	65
JW-87-99R	1	135	16	82	.1	14	9	4341	15.36	20	5	ND	1	378	1	2	2	7	16.64	.009	3	1	.92	6	.01	2	.01	.01	.02	1	87
STD C/AU-R	19	60	43	127	7.2	70	29	1040	4.04	40	21	8	37	51	18	18	24	57	.46	.087	39	62	.85	174	.07	34	1.90	.06	.14	12	500

RECEIVED DEC 0 1 1987

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core - AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 9 1987 DATE REPORT MAILED: Nov 19/87 ASSAYER. D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5526

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56373	1	113	22	35	.5	33	8	782	3.96	40	10	ND	5	87	1	2	2	2	1.82	.016	6	4	1.03	26	.01	2	.18	.04	.09	1	116
E 56374	1	16	115	31	.3	13	3	339	1.29	2	5	ND	3	48	1	2	2	1	1.18	.013	3	3	.44	8	.01	2	.05	.04	.02	3	1
E 56375	1	34	35	12	.4	16	4	340	1.70	2	5	ND	5	37	1	2	2	1	.92	.013	6	4	.38	8	.01	2	.10	.06	.03	1	1
E 56376	2	13	6	38	.1	34	9	813	3.91	5	5	ND	7	64	1	2	2	3	1.47	.022	7	5	1.18	23	.01	2	.16	.05	.07	1	1
E 56377	1	44	188	53	.5	29	6	1126	3.57	5	5	ND	4	137	1	2	2	2	2.78	.027	4	4	1.26	20	.01	2	.12	.04	.06	1	1
E 56378	1	17	162	43	.2	29	12	917	3.13	43	5	ND	5	152	1	2	2	3	2.49	.027	5	5	1.14	29	.01	2	.19	.04	.08	2	7
E 56379	2	21	8	45	.2	23	7	806	3.24	25	5	ND	4	194	1	2	2	3	3.01	.022	5	4	1.36	16	.01	2	.14	.04	.05	2	6
E 56380	2	6	12	40	.1	31	10	763	4.69	69	5	ND	6	32	1	2	2	2	.50	.026	9	4	1.17	24	.01	4	.20	.03	.09	2	132
E 56381	1	4	33	7	.4	13	3	230	1.81	69	5	ND	3	63	1	2	2	1	.88	.006	3	3	.34	5	.01	3	.05	.03	.02	1	1440
E 56382	1	4	17	4	.1	3	1	262	1.07	3	5	ND	2	23	1	2	2	1	.34	.003	2	3	.24	5	.01	3	.05	.02	.02	1	4
E 56383	2	6	131	32	.5	36	36	792	4.34	135	5	ND	4	77	1	2	2	2	1.09	.013	3	2	.75	12	.01	2	.09	.03	.06	3	510
STD C/AU-R	19	57	38	133	7.4	67	27	1027	4.09	43	25	7	38	50	18	16	20	57	.49	.086	37	58	.85	177	.08	33	1.83	.08	.14	11	520

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 16 1987 DATE REPORT MAILED: Nov 23/87 ASSAYER. D. Toye..DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5667

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56384	1	15	14	57	.3	41	10	1001	7.42	3	5	ND	9	59	1	2	2	3	2.05	.026	7	3	2.03	20	.01	2	.16	.05	.10	1	1
E 56385	8	22	1867	15182	2.9	26	6	597	2.69	7	5	ND	7	97	107	2	2	2	2.27	.021	7	12	.93	25	.01	2	.17	.05	.11	1	1
E 56386	1	29	303	626	.7	40	10	601	4.37	105	5	ND	4	96	4	2	2	2	2.05	.017	3	4	.84	9	.01	3	.06	.04	.03	1	103
E 56387	1	57	874	90	1.4	44	14	1075	4.23	18	5	ND	5	141	1	2	2	3	2.84	.053	3	4	1.29	30	.01	2	.17	.04	.11	1	10
E 56388	2	38	76	2334	.4	95	47	547	5.53	227	5	ND	6	72	15	2	2	3	1.48	.018	5	4	.72	33	.01	2	.20	.05	.12	1	260
E 56389	1	7	7	29	.1	22	6	862	4.69	36	5	ND	5	49	1	2	2	3	.86	.035	7	5	1.42	21	.01	2	.11	.05	.05	1	6
E 56390	1	23	75	74	.4	15	7	652	2.71	4	5	ND	5	857	1	2	2	1	18.07	.029	4	2	.93	20	.01	2	.10	.01	.06	1	1
E 56391	1	74	16	47	.6	11	4	945	5.00	2	5	ND	2	885	1	2	3	1	28.29	.014	2	1	.65	5	.01	2	.02	.01	.01	1	8
E 56392	1	6	3606	736	4.3	3	1	281	.66	8	5	ND	1	907	8	2	3	1	22.92	.041	2	1	.11	8	.01	3	.05	.01	.02	1	1
E 56393	1	6	180	588	.3	6	7	1133	3.66	26	5	ND	2	168	5	2	2	5	6.46	.048	3	2	1.03	17	.01	2	.14	.02	.08	709	22
E 56394	9	30	14177	14844	12.7	18	10	1732	7.61	201	5	ND	3	265	136	14	2	4	10.64	.050	2	16	.96	20	.01	2	.09	.01	.06	577	310
E 56395	2	19	98	128	.2	7	9	3596	7.43	23	5	ND	2	279	1	2	2	6	11.70	.049	2	1	2.54	19	.01	2	.13	.01	.06	3	2
E 56396	1	34	143	99	.3	26	9	873	2.91	72	5	ND	6	71	1	2	2	2	2.98	.026	6	2	.63	31	.01	3	.13	.03	.08	7	1
STD C/AU-R	19	57	38	132	7.1	68	27	1032	4.08	40	20	6	38	51	18	18	20	57	.49	.086	38	59	.89	180	.08	32	1.86	.08	.14	11	485

ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 18 1987 DATE REPORT MAILED: Nov 27/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5768

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56397	1	11	15	16	1.0	10	5	598	2.20	9	12	ND	2	947	1	2	2	2	23.04	.017	3	2	.62	20	.01	2	.12	.01	.05	1	1
E 56398	1	171	7	27	.6	18	19	984	6.27	3	5	ND	2	236	1	2	2	10	7.61	.068	2	1	2.06	59	.01	2	.27	.05	.09	2	1
E 56399	1	34	8805	226	40.4	106	17	1088	2.67	74	5	ND	4	313	3	2	81	1	10.04	.014	4	4	.74	27	.01	2	.15	.01	.09	4	48
E 56400	1	5	526	264	1.4	5	3	876	1.47	10	6	ND	2	1178	4	2	4	1	30.54	.018	4	1	.51	11	.01	3	.06	.01	.03	1	3
E 56401	3	52	11760	1411	18.5	12	9	3376	6.35	25	5	ND	4	524	23	15	2	2	18.08	.052	3	3	2.00	17	.01	2	.11	.01	.06	780	4
E 56402	3	9	8398	444	15.7	21	11	3126	5.40	37	5	ND	7	224	6	10	2	3	11.14	.028	5	5	3.02	16	.01	8	.14	.01	.08	955	6
STD C/AU-R	19	57	38	133	7.1	68	28	1029	4.05	42	21	7	38	49	18	18	19	55	.48	.085	37	58	.87	176	.08	31	1.91	.07	.13	12	500

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core . AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 25 1987 DATE REPORT MAILED: Dec 3/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5892

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPB
E 56403	1	14	5	44	.5	21	8	927	3.68	13	5	ND	12	631	1	3	2	2	12.60	.018	17	2	1.76	28	.01	2	.19	.02	.11	2	4
E 56404	1	23	8	56	.2	26	10	548	3.15	10	5	ND	14	771	1	5	2	2	14.12	.024	26	3	.94	34	.01	3	.28	.02	.13	1	5
E 56405	1	5	10	69	.1	9	6	2546	5.83	14	5	ND	8	751	1	2	2	2	19.51	.012	19	4	4.32	19	.01	2	.25	.01	.06	1	1
E 56406	1	42	2	83	.2	28	19	974	4.62	9	5	ND	10	91	1	2	2	7	1.17	.031	25	5	1.08	80	.01	2	.40	.02	.14	1	1
E 56407	1	16	4	77	.1	32	17	1350	5.45	4	5	ND	12	81	1	2	2	9	1.15	.032	27	6	1.13	38	.01	3	.28	.01	.14	1	1
E 56408	1	8	2	117	.1	52	19	641	5.79	2	5	ND	13	25	1	2	2	18	.31	.032	26	28	1.53	55	.01	5	2.48	.01	.12	1	1
E 56409	1	29	3	111	.1	40	17	1220	5.39	2	5	ND	11	59	1	2	2	13	.71	.027	25	16	1.47	434	.01	7	1.27	.01	.11	1	2
E 56410	1	46	12	88	.1	36	19	959	4.93	27	5	ND	11	27	1	2	3	4	.43	.031	16	7	1.15	26	.01	7	.49	.02	.13	1	7
E 56411	1	41	24	39	.9	40	14	1014	6.22	156	5	7	7	125	1	2	2	3	2.89	.023	7	5	1.25	26	.01	2	.26	.01	.14	2	4450
E 56412	1	24	6	67	.1	31	15	1158	7.16	72	5	ND	7	124	1	2	2	3	3.84	.020	7	4	1.62	26	.01	2	.21	.01	.15	1	340
E 56413	1	42	22	85	.2	38	24	1058	6.15	71	5	ND	8	80	1	2	2	5	1.82	.044	14	4	1.40	23	.01	2	.29	.01	.14	1	180
E 56414	1	36	11	59	.3	42	20	748	5.82	25	5	ND	12	101	1	2	2	13	2.37	.036	14	19	1.29	33	.01	3	1.58	.01	.13	1	32
E 56415	1	26	59	88	.5	28	13	798	4.71	3	5	ND	7	54	1	2	2	12	1.46	.025	12	16	1.16	23	.01	2	1.62	.01	.12	1	24
E 56416	1	25	2	104	.1	40	18	1007	6.05	2	5	ND	10	56	1	2	2	20	1.49	.031	17	31	1.54	25	.01	2	2.34	.02	.11	1	12
E 56417	1	49	2	75	.1	43	26	680	6.36	56	5	ND	6	33	1	2	2	4	.75	.029	17	3	1.56	29	.01	6	.29	.03	.15	1	6
E 56418	1	9	4	72	.3	33	20	1204	5.70	2	5	ND	3	132	1	2	2	8	3.40	.028	6	3	2.19	19	.01	2	.65	.02	.10	1	1
E 56419	1	7	2	56	.1	35	16	1150	5.11	3	5	ND	6	36	1	2	2	5	.95	.018	12	7	1.29	27	.01	4	.58	.02	.13	1	2
E 56420	1	36	6	78	.1	46	19	825	5.48	16	5	ND	4	40	1	2	2	9	.86	.016	9	5	1.43	146	.01	2	.28	.02	.10	1	1
E 56421	3	49	6	65	.1	42	21	896	5.58	10	5	ND	5	32	1	2	2	5	.69	.030	7	4	1.25	47	.01	6	.26	.03	.13	1	1
E 56422	1	18	2	47	.1	36	16	1057	5.82	27	5	ND	5	45	1	2	2	7	1.03	.016	9	5	1.13	108	.01	3	.29	.02	.14	1	85
E 56423	1	41	3	64	.1	34	15	1067	4.88	2	5	ND	6	41	1	2	3	7	1.11	.022	21	5	1.16	137	.01	4	.30	.02	.12	1	34
E 56424	1	35	6	35	.1	20	8	1134	3.59	8	5	ND	3	66	1	2	2	4	3.25	.013	7	3	1.04	33	.01	5	.20	.01	.10	1	99
E 56425	1	16	2	75	.2	44	18	1035	5.35	6	5	ND	5	37	1	2	2	10	.73	.015	10	5	1.31	495	.01	7	.29	.02	.14	1	4
E 56426	1	90	2	91	.1	38	19	937	4.74	3	5	ND	6	36	1	2	2	9	.50	.018	13	5	1.34	215	.01	7	.33	.02	.14	1	1
STD C/AU-R	19	57	39	131	7.4	67	28	1074	4.14	42	19	7	36	50	18	16	19	56	.46	.084	38	59	.86	177	.06	39	1.87	.06	.14	13	490

GEOCHEMICAL ANALYSIS CERTIFICATE

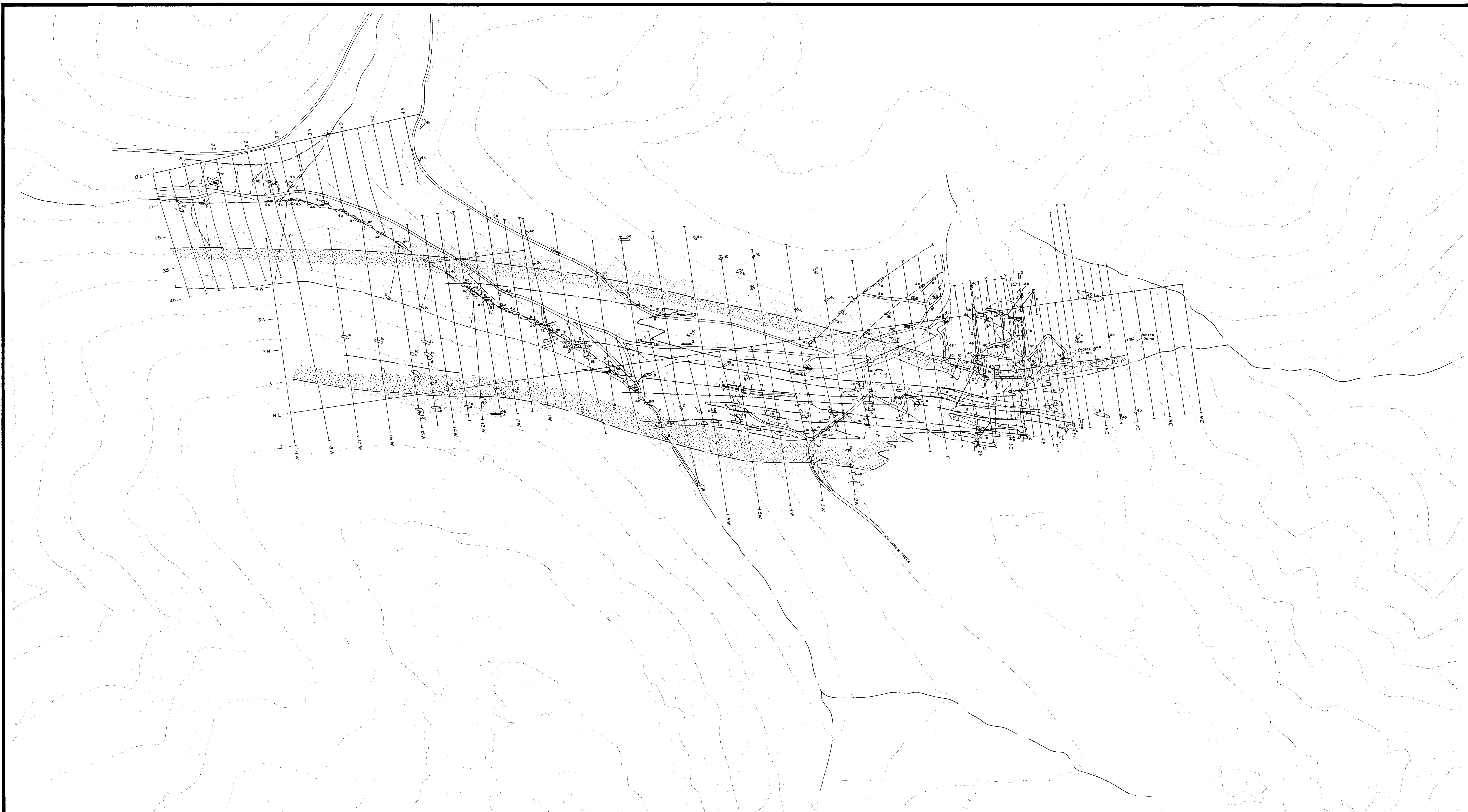
ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core - AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 29 1987 DATE REPORT MAILED: Dec 3/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-4203 File # 87-5941 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56427	1	39	10	18	.1	46	13	1202	3.34	2	5	ND	11	117	1	2	2	3	3.60	.021	10	9	1.21	28	.01	2	.49	.02	.14	1	5
E 56428	1	29	2	21	.1	35	10	630	2.81	2	5	ND	9	90	1	2	2	3	2.49	.112	7	11	.91	21	.01	10	.59	.03	.13	1	4
E 56429	1	9	2	94	.1	10	4	801	2.12	11	5	ND	4	101	1	2	2	1	3.52	.016	6	2	1.16	15	.01	4	.11	.01	.05	2	7
E 56430	1	50	6	21	.3	18	7	1284	3.34	10	5	ND	3	214	1	2	4	3	5.56	.025	2	7	2.01	13	.01	2	.10	.02	.03	1	5
E 56431	1	19	8	36	.1	23	6	723	2.98	11	5	ND	4	98	1	2	2	1	2.38	.014	6	3	1.07	19	.01	2	.17	.02	.08	1	2
E 56432	1	25	3	31	.1	24	7	910	3.29	2	5	ND	8	39	1	2	4	1	1.01	.018	12	4	.86	25	.01	2	.24	.02	.13	1	3
E 56433	1	27	18	61	.1	39	14	2479	6.04	6	5	ND	7	89	1	2	2	2	1.84	.021	8	4	1.73	20	.01	5	.19	.02	.11	1	1
E 56434	1	21	2	36	.4	19	5	729	2.98	6	5	ND	7	63	1	2	2	1	1.37	.017	12	5	.88	20	.01	4	.16	.02	.07	1	4
E 56435	1	14	5	46	.2	25	9	795	3.36	2	5	ND	12	43	1	3	2	2	1.05	.020	15	5	.89	23	.01	3	.29	.04	.11	1	1
E 56436	1	52	60	45	.3	57	16	1141	5.04	6	5	ND	7	51	1	2	4	2	1.14	.028	10	5	1.27	33	.01	2	.27	.02	.13	1	1
E 56437	1	43	49	72	.2	48	16	1011	4.93	3	5	ND	8	52	1	2	5	2	1.24	.027	11	4	1.38	27	.01	2	.30	.02	.14	2	1
E 56438	1	58	6	98	.1	52	17	797	4.91	2	5	ND	9	28	1	2	2	7	.78	.044	12	23	1.46	31	.01	3	1.12	.04	.14	1	2
E 56439	1	11	2	49	.1	23	8	648	4.08	2	5	ND	7	53	1	2	2	10	1.42	.017	11	25	1.49	11	.01	2	1.33	.03	.07	1	1
E 56440	1	31	8	34	.1	35	11	721	3.89	23	5	ND	8	48	1	2	3	2	1.09	.025	10	6	1.11	31	.01	2	.32	.02	.12	1	10
E 56441	1	14	5	36	.1	28	7	752	3.64	27	5	ND	7	58	1	2	2	2	1.31	.024	9	7	1.07	15	.01	4	.25	.03	.06	1	1
E 56442	1	14	2	113	.1	33	10	507	4.06	40	5	ND	10	56	1	2	7	2	1.02	.029	16	5	1.24	20	.01	5	.28	.02	.10	2	1
E 56443	23	16	8922	32885	9.9	10	11	676	2.89	18	5	ND	4	37	257	5	6	1	.82	.009	3	3	.73	20	.01	4	.09	.01	.05	1	31
E 56444	1	15	6	34	.3	16	5	2005	5.31	5	5	ND	6	36	1	2	7	1	1.11	.016	8	3	1.43	16	.01	2	.14	.01	.09	1	5
E 56445	1	33	41	136	.1	41	12	755	4.15	12	5	ND	3	43	1	2	3	1	1.14	.016	6	4	1.33	26	.01	2	.20	.01	.11	2	1
E 56446	1	34	5	39	.2	61	14	1242	5.11	27	5	ND	10	28	1	2	7	2	.73	.045	14	6	1.42	26	.01	3	.25	.01	.15	1	1
E 56447	1	14	11	26	.1	20	8	822	2.66	20	5	ND	8	92	1	2	2	2	2.44	.030	12	4	1.12	14	.01	2	.23	.01	.08	1	2
E 56448	1	39	1082	183	5.4	56	17	474	11.93	275	5	ND	7	14	1	8	2	3	.26	.020	5	3	1.00	21	.01	2	.27	.02	.13	4	260
E 56449	1	14	25	19	.2	26	11	666	4.12	127	5	ND	3	27	1	3	2	1	.36	.012	5	4	.61	29	.01	3	.10	.01	.07	1	620
E 56450	1	24	4	38	.3	38	13	1076	5.81	69	5	ND	9	40	1	2	3	2	.79	.032	10	4	1.37	24	.01	2	.24	.01	.13	1	590
E 56451	1	81	6	280	.1	37	12	790	6.51	27	6	ND	7	32	1	2	2	3	.78	.028	10	5	1.63	37	.01	5	.21	.01	.10	5	4
E 56452	1	29	7	28	.1	37	12	756	3.96	63	5	ND	7	65	1	2	5	2	1.62	.026	14	4	1.16	22	.01	3	.17	.01	.08	1	6
E 56453	1	29	3	36	.1	20	10	479	2.93	4	5	ND	7	94	1	2	4	3	3.09	.024	7	4	1.08	20	.01	3	.22	.02	.07	1	1
E 56454	1	14	5	16	.1	19	7	313	1.89	25	5	ND	6	81	1	2	2	1	2.25	.009	9	5	.72	21	.01	5	.20	.01	.10	1	9
E 56455	1	9	6	17	.2	49	14	418	3.63	93	5	ND	5	80	1	2	5	1	1.63	.002	4	5	.77	21	.01	8	.16	.01	.09	1	190
E 56456	1	7	2	1	.3	2	1	54	.37	2	10	ND	2	4	1	2	3	1	.05	.001	2	2	.03	1	.01	3	.01	.01	.01	1	5
E 56457	1	14	4	19	.2	23	9	613	2.89	44	5	ND	5	94	1	2	4	2	2.66	.026	10	5	1.15	29	.01	6	.21	.01	.13	1	535
E 56458	1	19	5	22	.2	27	10	635	2.82	38	5	ND	5	107	1	2	3	1	2.97	.032	9	5	1.19	23	.01	4	.21	.01	.11	1	205
E 56459	1	30	9	56	.1	41	14	834	4.92	39	5	ND	7	140	1	2	2	3	3.01	.051	11	4	1.83	31	.01	3	.27	.01	.15	1	25
E 56460	1	9	5	15	.3	23	8	548	3.02	52	5	ND	4	110	1	2	5	1	1.90	.012	8	4	1.11	16	.01	2	.12	.01	.08	1	22
E 56461	1	9	4	31	.1	57	18	719	4.87	137	5	ND	10	60	1	2	2	3	1.04	.028	16	5	1.43	30	.01	2	.27	.01	.15	1	64
E 56462	3	9	3	36	.1	68	19	602	3.70	158	5	ND	7	120	1	4	5	3	1.79	.029	11	5	1.26	33	.01	4	.26	.01	.14	1	58
STD C/AU-R	19	61	38	132	7.4	69	29	1041	4.17	39	19	8	40	51	18	16	23	59	.46	.086	39	61	.89	181	.06	34	1.94	.06	.14	14	480

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
E 56463	3	20	12	43	.2	61	20	1011	4.52	112	5	ND	8	152	1	2	2	3	3.33	.021	11	6	2.04	25	.01	2	.19	.01	.13	1	4
E 56464	3	137	9	33	.6	57	21	1002	6.12	96	5	ND	7	97	1	2	2	3	2.42	.025	4	4	1.46	23	.01	2	.17	.01	.12	2	77
E 56465	1	62	8	32	.1	31	11	776	3.12	16	5	ND	8	104	1	2	2	2	2.70	.030	9	4	1.24	26	.01	4	.21	.01	.12	1	6
E 56466	2	31	2	20	.2	27	11	558	2.62	2	5	ND	7	75	1	2	4	1	2.17	.030	7	3	.97	22	.01	2	.17	.01	.10	1	4
E 56467	2	57	4	63	.2	58	17	819	4.29	2	5	ND	9	43	1	2	2	2	1.19	.049	9	4	1.23	27	.01	2	.25	.02	.12	1	1
E 56468	1	27	2	34	.2	45	10	1302	4.28	18	5	ND	7	35	1	2	2	1	1.31	.016	10	3	1.31	18	.01	3	.16	.01	.09	2	6
E 56469	1	16	3	44	.1	29	11	662	3.16	17	5	ND	4	48	1	2	2	1	1.16	.026	6	4	1.03	17	.01	3	.13	.01	.07	1	2
E 56470	1	16	18	41	.1	51	10	924	3.57	41	5	ND	8	20	1	2	4	1	.51	.019	11	4	.90	18	.01	2	.15	.01	.10	1	3
E 56471	1	13	2	20	.1	25	9	1251	3.55	27	5	ND	8	54	1	2	2	1	1.45	.017	11	3	1.10	12	.01	4	.11	.01	.08	1	29
E 56472	1	12	4	61	.2	24	13	3265	6.98	34	5	ND	9	58	1	2	2	1	1.36	.040	13	2	2.11	20	.01	2	.14	.01	.10	1	7
E 56473	1	7	7	37	.1	33	15	1889	4.42	63	5	ND	13	60	1	2	2	1	1.45	.037	23	3	1.59	25	.01	2	.20	.01	.14	1	1
E 56474	1	1	2	3	.1	3	1	348	.83	2	5	ND	4	63	1	2	2	1	1.08	.027	13	3	.36	15	.01	33	.04	.01	.02	1	4
E 56475	1	13	11	41	.3	26	9	1944	5.11	41	5	ND	9	132	1	2	2	1	3.48	.034	9	3	1.76	15	.01	3	.14	.01	.10	1	10
E 56476	1	17	19	54	.2	48	13	673	4.54	24	5	ND	6	60	1	2	2	6	1.98	.036	9	17	1.55	20	.01	5	1.10	.01	.09	1	6
E 56477	1	31	11	39	.3	30	9	552	2.98	58	5	ND	7	69	1	2	2	1	1.20	.023	7	5	.96	20	.01	2	.15	.01	.08	1	73
E 56478	1	17	2	20	.1	53	14	947	3.29	56	5	ND	8	52	1	2	2	1	1.40	.025	10	3	.94	27	.01	2	.19	.01	.12	1	6
STD C/AU-R	19	61	42	132	7.5	69	29	1061	4.05	40	21	8	40	47	18	17	20	60	.46	.087	39	61	.90	179	.06	32	1.90	.06	.14	12	520



LEGEND

1a	**ARGILLACEOUS LIMESTONE** Thinly laminated black limestone and black limey argillite grading to black phyllitic rock at base of unit. Well developed foliation subparallel to bedding.
1b	**BLACK LIMESTONE** Massive medium grey to black limestone locally containing bleached segregations of white crystalline limestone
1c	**WHITE LIMESTONE** Massive crystalline bleached limestone locally containing segregations of unaltered medium grey to black limestone.
1d	**SILICIFIED LIMESTONE** Massive crystalline bleached limestone with local segregations of quartz, and veinlets of quartz
1e	**SILICIFIED LIMESTONE BRECCIA** Brecciated bleached crystalline limestone in silicified matrix
2	**CHLORITE SCHIST** Thinly laminated well foliated, fine to medium grained dark green chloritic schist locally with accesory magnetite, and/or well developed kink bands.
3	**CHLORITE SERICITE SCHIST** Thinly laminated yellow-green schist with cleavage parallel to bedding
4a	**SERICITE SCHIST** Very fine grained, thinly laminated, well foliated light grey green schist
4b	**SERICITIC QUARTZITE** Fine grained, laminated, quartzitic siltstone containing at least thirty percent micaceous material.
4c	**QUARTZITE** Medium grained massive quartzite with less than thirty percent micaceous material
5	**MAFIC DYKES** Fine grained green dykes locally containing pyroxene phenocrysts, minor pyrite, and/or magnetite
6a	**QUARTZ VEINS** No visible mineralization
6b	**MINERALIZED QUARTZ VEINS** Veins with sulphide mineralization
7	**REPLACEMENT GOSSAN** Gossanous boulders derived from typical replacement mineralization
8a	**ARGILLITE** Very fine grained thinly laminated argillite with well developed foliation
8b	**GRAPHITIC ARGILLITE** Fine grained thinly laminated, well foliated, graphitic argillite.

LIMESTONE, PHYLLITE, CHL SCHIST, ARGILLITE

QUARTZITE, SERICITIC QUARTZITE

CREEK
ROAD
TRENCH
ADIT
BUILDING
59/7 CLAIM POST

CONTACT
FAULT
CLEAVAGE ATTITUDE
BEDDING ATTITUDE
MINOR FOLD AXIS
FAULT ATTITUDE
JW87 59 SAMPLE LOCATION
1987 DDH

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,743

CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

FIGURE 5 N.T.S. 93-A/14W

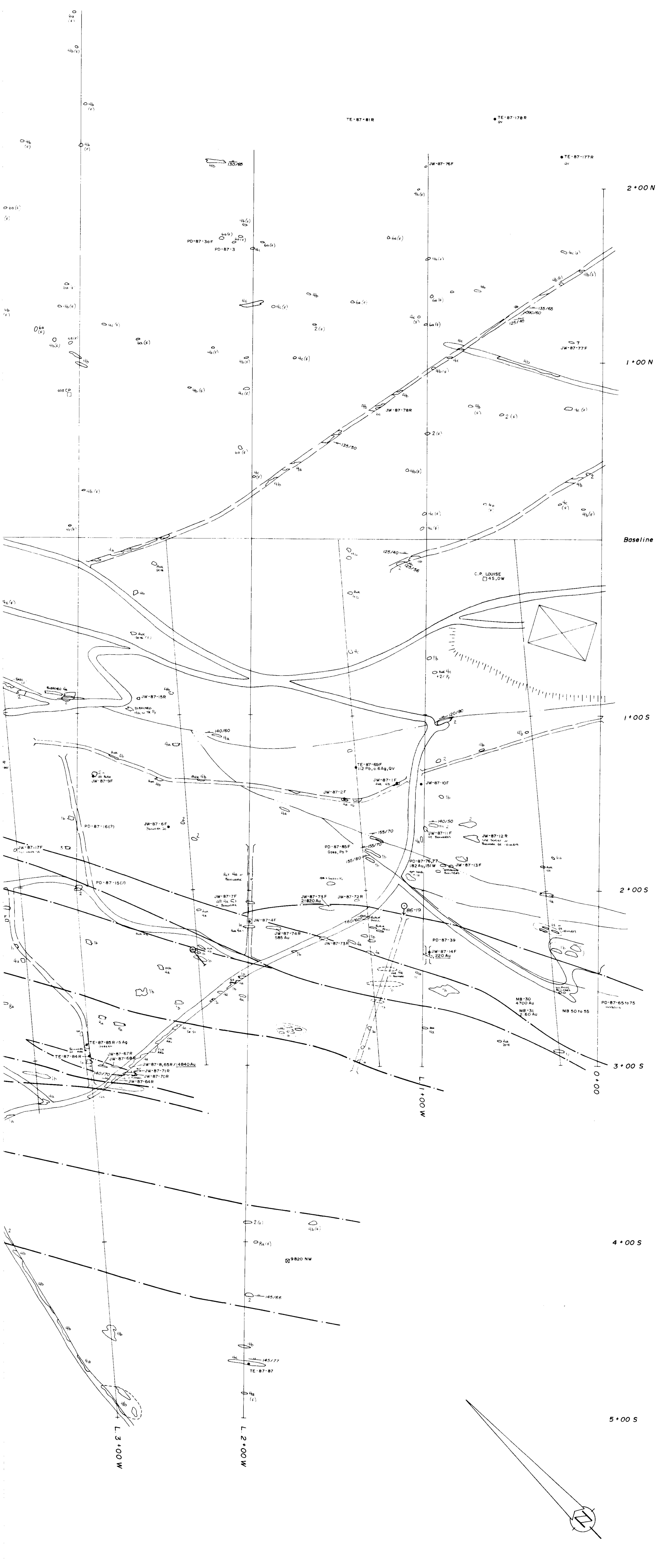
PROPERTY GEOLOGY

100 0 100 200 300 400 metres

SCALE	1:5,000	GEOLOGIST	P. DELANCEY, J. WALKER
DATE	FEBRUARY 1988	DRAWN BY	g.e.l. & ds.


3+00 N
2+00 N
1+00 N
Baseline
1+00 S
2+00 S
3+00 S
4+00 S
L.0+00
L.1+00E
L.2+00E
L.3+00E
L.4+00E
L.5+00E
L.6+00E
L.7+00E
L.8+00E
L.9+00E
WASTE
TRAM LANDING
LEGEND
1a ARGILLACEOUS LIMESTONE
Thinly laminated black limestone and black limey argillite grading to black phyllitic rock at base of unit. Well developed foliation subparallel to bedding
1b BLACK LIMESTONE
Massive medium grey to black limestone locally containing bleached segregations of white crystalline limestone
1c WHITE LIMESTONE
Massive crystalline bleached limestone locally containing segregations of unaltered medium grey to black limestone.
1d SILICIFIED LIMESTONE
Massive crystalline bleached limestone with local segregations of quartz, and veinlets of quartz
1e SILICIFIED LIMESTONE BRECCIA
2 CHLORITE SCHIST
3 CHLORITE SERICITE SCHIST
4a SERICITE SCHIST
4b SERICITIC QUARTZITE
4c QUARTZITE
5 MAFIC DYKES
6a QUARTZ VEINS
No visible mineralization
6b MINERALIZED QUARTZ VEINS
Veins with sulphide mineralization
7 REPLACEMENT GOSSAN
8a ARGILLITE
8b GRAPHITIC ARGILLITE
CREEK
ROAD
TRENCH
BUILDING
CLAIM POST
16,743
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 9
N.T.S. 93 A/14W
- Main Grid ; SE Area -
GEOLOGY &
ROCK GEOCHEMISTRY
(2)
20 0 20 40 60 80 metres
SCALE 1:1,000
DATE FEBRUARY 1988
GEOLOGIST P. DELANCEY, J. WALKER
DRAWN BY g.e.l. & ass.

4+00 N
3+00 N
2+00 N
1+00 N
Baseline
1+00 S
2+00 S
3+00 S
4+00 S
5+00 S
L.10+00 W
L.9+00 W
L.8+00 W
L.7+00 W
L.6+00 W
L.5+00 W
L.4+00 W
Cunningham Camp
TUNGSTEN ADIT
ADIT
MAGNETITE BAND
Burned cabin



LEGEND

1a	ARGILLACEOUS LIMESTONE — Thinly laminated black limestone and black limey argillite grading to black phyllitic rock at base of unit. Well developed foliation subparallel to bedding.
1b	BLACK LIMESTONE — Massive medium grey to black limestone locally containing bleached segregations of white crystalline limestone
1c	WHITE LIMESTONE — Massive crystalline bleached limestone locally containing segregations of unaltered medium grey to black limestone
1d	SILICIFIED LIMESTONE — Massive crystalline bleached limestone with local segregations of quartz, and veinlets of quartz
1e	SILICIFIED LIMESTONE BRECCIA — Brecciated bleached crystalline limestone in silicified matrix
2	CHLORITE SCHIST — Thinly laminated well foliated, fine to medium grained dark green chloritic schist locally with accesory magnetite, and/or well developed kink bands
3	CHLORITE SERICITE SCHIST — Thinly laminated yellow-green schist with cleavage parallel to bedding
4a	SERICITE SCHIST — Very fine grained, thinly laminated, well foliated light grey green schist.
4b	SERICITIC QUARTZITE — Fine grained, laminated, quartzitic siltstone containing at least thirty percent micaceous material
4c	QUARTZITE — Medium grained massive quartzite with less than thirty percent micaceous material.
5	MAFIC DYKES — Fine grained green dykes locally containing pyroxene phenocrysts, minor pyrite, and/or magnetite
6a	QUARTZ VEINS — No visible mineralization
6b	MINERALIZED QUARTZ VEINS — Veins with sulphide mineralization
7	REPLACEMENT GOSSAN — Gossanous boulders derived from typical replacement mineralization
8a	ARGILLITE — Very fine grained thinly laminated argillite with well developed foliation
8b	GRAPHITIC ARGILLITE — Fine grained, thinly laminated, well foliated, graphitic argillite

CREEK
ROAD
TRENCH
ADIT
BUILDING
5907 CLAIM POST

CONTACT
FAULT
CLEAVAGE ATTITUDE
BEDDING ATTITUDE
MINOR FOLD AXIS
FAULT ATTITUDE
JW87 59 SAMPLE LOCATION
87-5 1987 DDH

CATHEDRAL GOLD CORPORATION

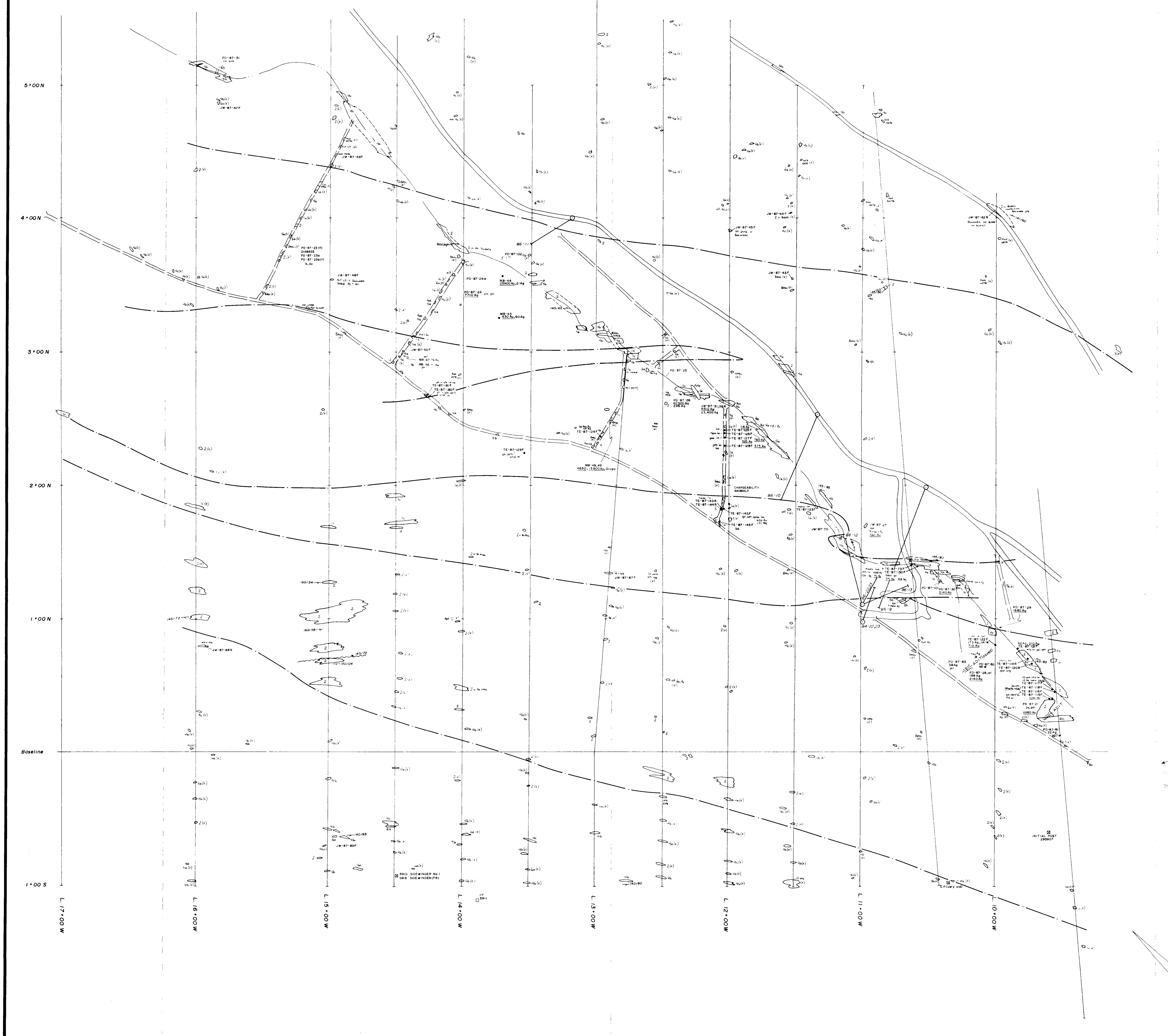
CUNNINGHAM CREEK

FIGURE 10 — Main Grid; Central Area — N.T.S. 93·A/14W ③

GEOLOGY & ROCK GEOCHEMISTRY

20 0 20 40 60 80 metres

SCALE	1:1,000	GEOLOGIST	P. DELANCEY, J. WALKER
DATE	FEBRUARY 1988	DRAWN BY	g.e.l. & dss



LEGEND

1a	ARGILLACEOUS LIMESTONE Thinly laminated black limestone and black limey argillite grading to black phyllitic rock at base of unit. Well developed foliation subparallel to bedding
1b	BLACK LIMESTONE Massive medium grey to black limestone locally containing bleached segregations of white crystalline limestone.
1c	WHITE LIMESTONE Massive crystalline bleached limestone locally containing segregations of unaltered medium grey to black limestone.
1d	SILICIFIED LIMESTONE Massive crystalline bleached limestone with local segregations of quartz, and veinlets of quartz
e	SILICIFIED LIMESTONE BRECCIA Brecciated bleached crystalline limestone in silicified matrix
2	CHLORITE SCHIST Thinly laminated well foliated, fine to medium grained dark green chloritic schist locally with accesory magnetite, and/or well developed kink bands.
3	CHLORITE SERICITE SCHIST Thinly laminated yellow-green schist with cleavage parallel to bedding
4a	SERICITE SCHIST Very fine grained, thinly laminated, well foliated light grey green schist.
4b	SERICITIC QUARTZITE Fine grained, laminated, quartzitic siltstone containing at least thirty percent micaceous material.
4c	QUARTZITE Medium grained massive quartzite with less than thirty percent micaceous material.
5	MAFIC DYKES Fine grained green dykes locally containing pyroxene phenocrysts, minor pyrite, and/or magnetite. Probably includes basalt O.C.
6a	QUARTZ VEINS No visible mineralization
6b	MINERALIZED QUARTZ VEINS Veins with sulphide mineralization
7	REPLACEMENT GOSSAN Gossanous boulders derived from typical replacement mineralization
8a	ARGILLITE Very fine grained thinly laminated argillite with well developed foliation
8b	GRAPHITIC ARGILLITE Fine grained, thinly laminated, well foliated, graphitic argillite.

CREEK
ROAD
TRENCH
ADIT
BUILDING
5907 CLAIM POST
(F) FLOAT
CONTACT
FAULT
CLEAVAGE ATTITUDE
BEDDING ATTITUDE
MINOR FOLD AXIS
FAULT ATTITUDE
JW87 59 SAMPLE LOCATION
1987 DDH

GEOLOGICAL BRANCH
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CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK

FIGURE 11 N.T.S. 93·A/14W

- Main Grid; NW Area -

GEOLOGY & ROCK GEOCHEMISTRY (4)

20 0 20 40 60 80 metres

SCALE: 1 : 1,000	GEOLOGIST: P. DELANCEY, J. WALKER
DATE: FEBRUARY 1988	DRAWN BY: g.e.l. & ass.

LEGEND

[1b] BLACK LIMESTONE
Massive medium grey to black limestone ... white crystalline limestone

[1c] WHITE LIMESTONE
Massive crystalline bleached limestone ... medium grey to black limestone

[4c] QUARTZITE
Medium grained massive quartzite with less than thirty percent micaceous material

[6a] QUARTZ VEINS
No visible mineralization

[6b] MINERALIZED QUARTZ VEINS
Veins with sulphide mineralization

16,743

CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

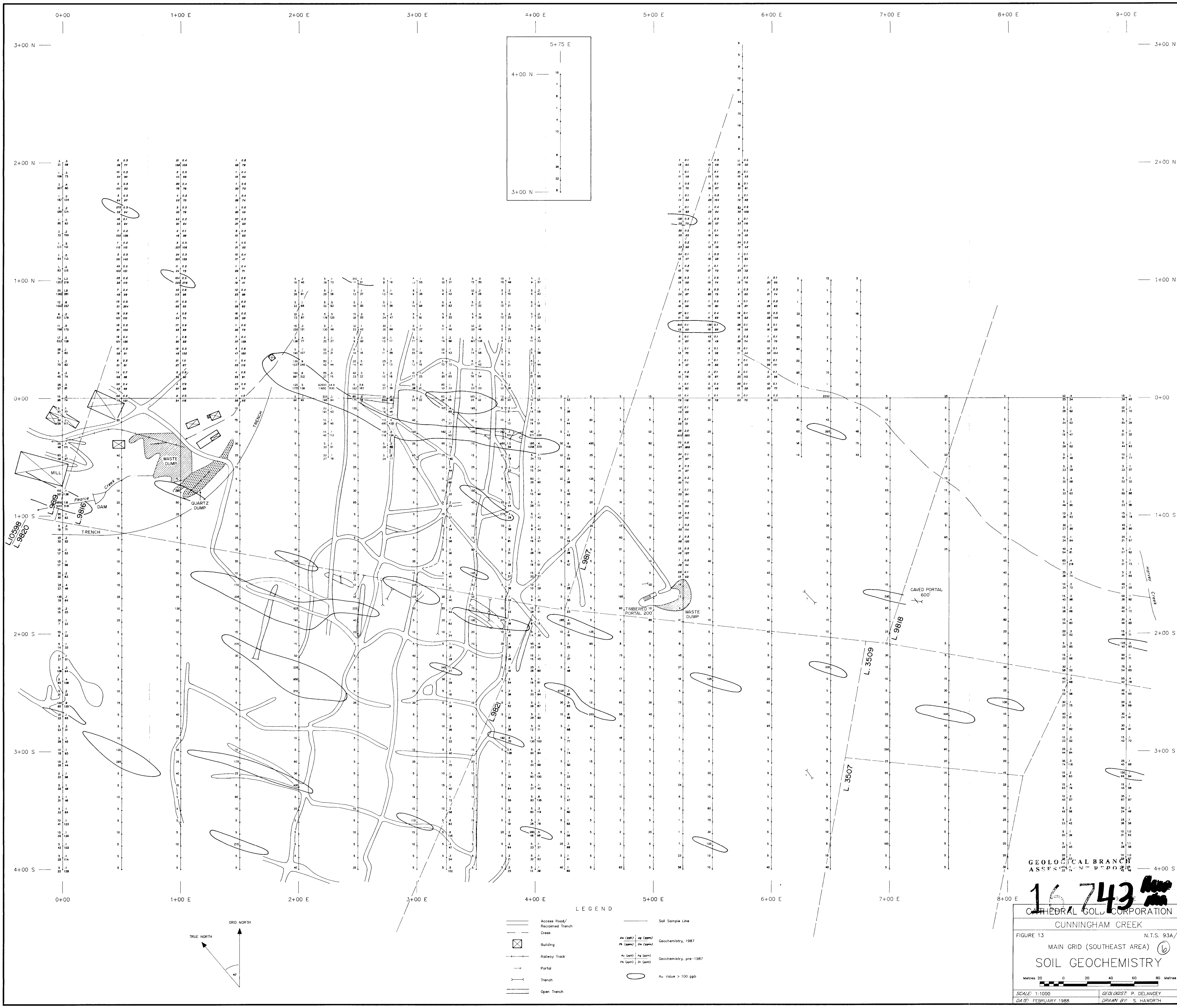
FIGURE 12 — N.T.S. 93·A/14W

- North Grid -

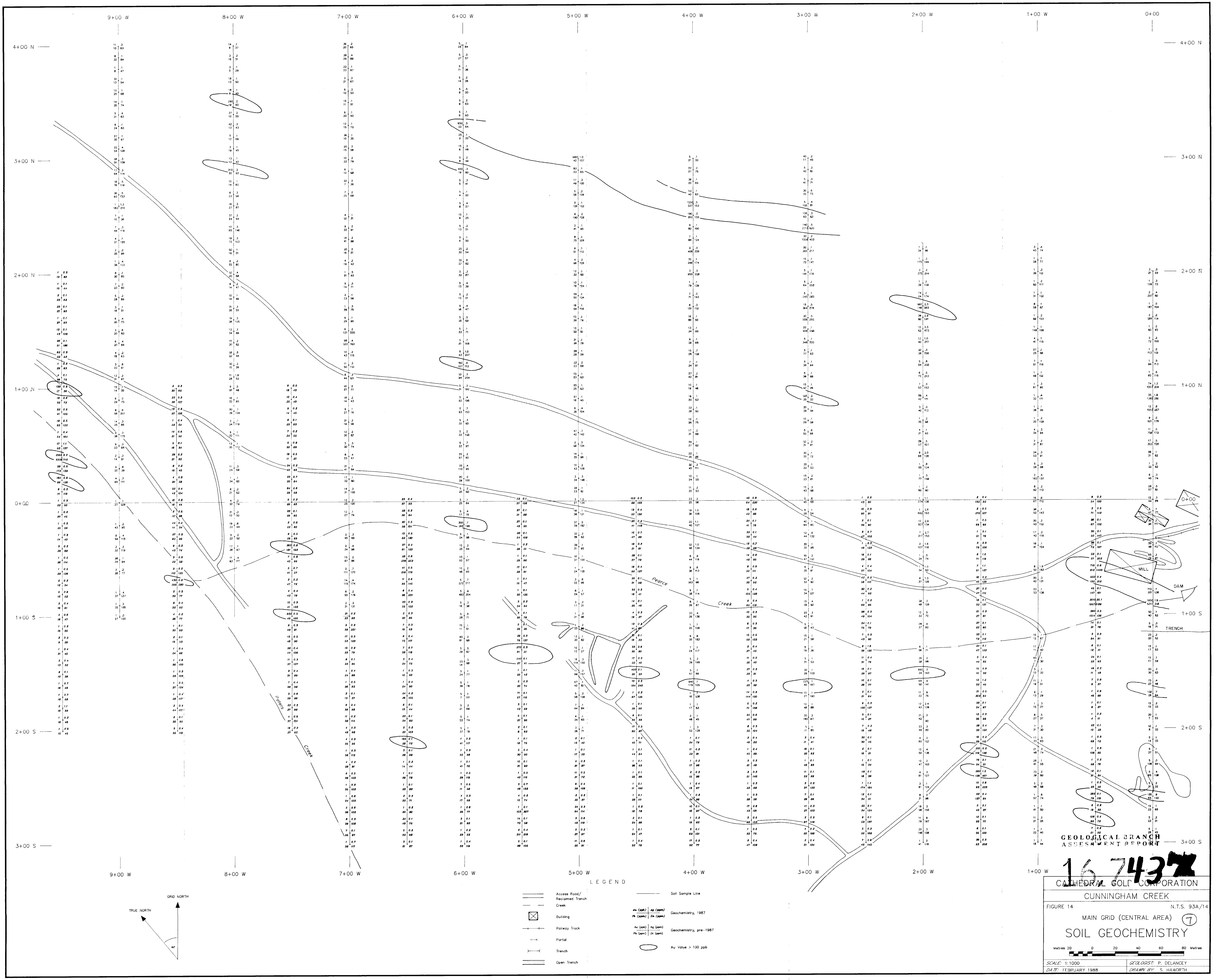
GEOLOGY & ⑤ ROCK GEOCHEMISTRY

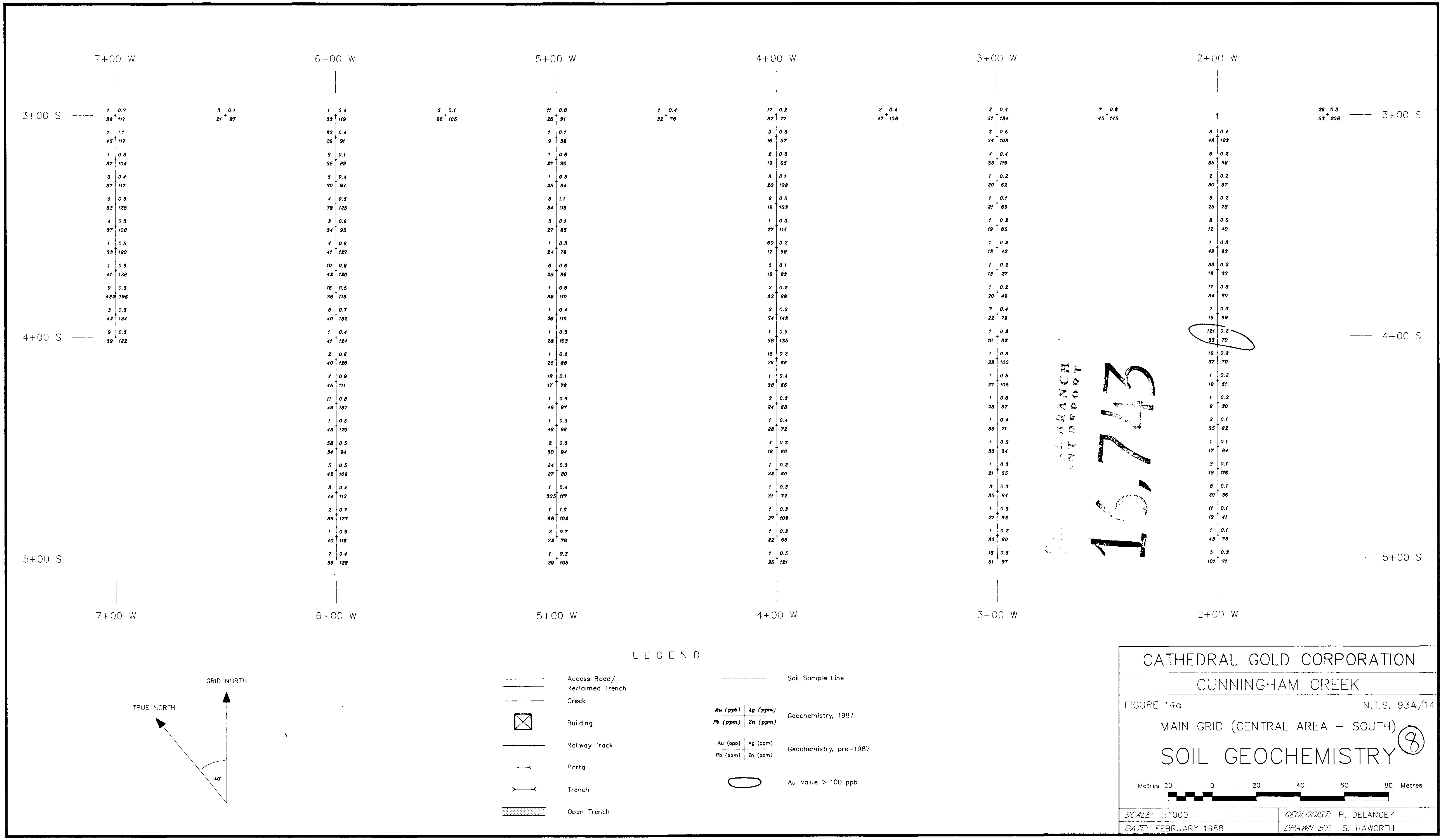
20 0 20 40 60 80 metres

SCALE: 1 : 1,000	GEOLOGIST: P. DELANCEY, J. WALKER
DATE: FEBRUARY 1988	DRAWN BY: g.e.l. & ass.



0+00
1+00 E
2+00 E
3+00 E
4+00 E
5+00 E
6+00 E
7+00 E
8+00 E
9+00 E
3+00 N
2+00 N
1+00 N
0+00
1+00 S
2+00 S
3+00 S
4+00 S
5+75 E
4+00 N
3+00 N
MILL
WASTE DUMP
QUARTZ DUMP
Pearce Creek
DAM
TRENCH
L.9819
L.9816
L.10598
L.9820
L.9817
L.9821
L.9818
L. 3509
L. 3507
TIMBERED PORTAL 200'
WASTE DUMP
CAVED PORTAL 600'
Harvey Creek
GEOLOGICAL BRANCH
ASSESSMENT REPORT
16,743
GRID NORTH
TRUE NORTH
40°
LEGEND
Access Road/ Reclaimed Trench
Creek
Building
Railway Track
Portal
Trench
Open Trench
Soil Sample Line
Au (ppb) | Ag (ppm) / Pb (ppm) | Zn (ppm) Geochemistry, 1987
Au (ppb) | Ag (ppm) / Pb (ppm) | Zn (ppm) Geochemistry, pre-1987
Au Value > 100 ppb
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 13
N.T.S. 93A/14
MAIN GRID (SOUTHEAST AREA)
6
SOIL GEOCHEMISTRY
Metres 20 0 20 40 60 80 Metres
SCALE: 1:1000
GEOLOGIST: P. DELANCEY
DATE: FEBRUARY 1988
DRAWN BY: S. HAWORTH


9+00 W
8+00 W
7+00 W
6+00 W
5+00 W
4+00 W
3+00 W
2+00 W
1+00 W
0+00
4+00 N
3+00 N
2+00 N
1+00 N
0+00
1+00 S
2+00 S
3+00 S
Pearce Creek
Peters Creek
MILL
DAM
TRENCH
TRUE NORTH
GRID NORTH
40°
LEGEND
Access Road/ Reclaimed Trench
Creek
Building
Railway Track
Portal
Trench
Open Trench
Soil Sample Line
Au (ppb) | Ag (ppm)
Pb (ppm) | Zn (ppm)
Geochemistry, 1987
Au (ppb) | Ag (ppm)
Pb (ppm) | Zn (ppm)
Geochemistry, pre-1987
Au Value > 100 ppb
GEOLOGICAL BRANCH
ASSESSMENT REPORT
16,743
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 14
N.T.S. 93A/14
MAIN GRID (CENTRAL AREA)
7
SOIL GEOCHEMISTRY
Metres 20 0 20 40 60 80 Metres
SCALE: 1:1000
GEOLOGIST: P. DELANCEY
DATE: FEBRUARY 1988
DRAWN BY: S. HAWORTH



CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

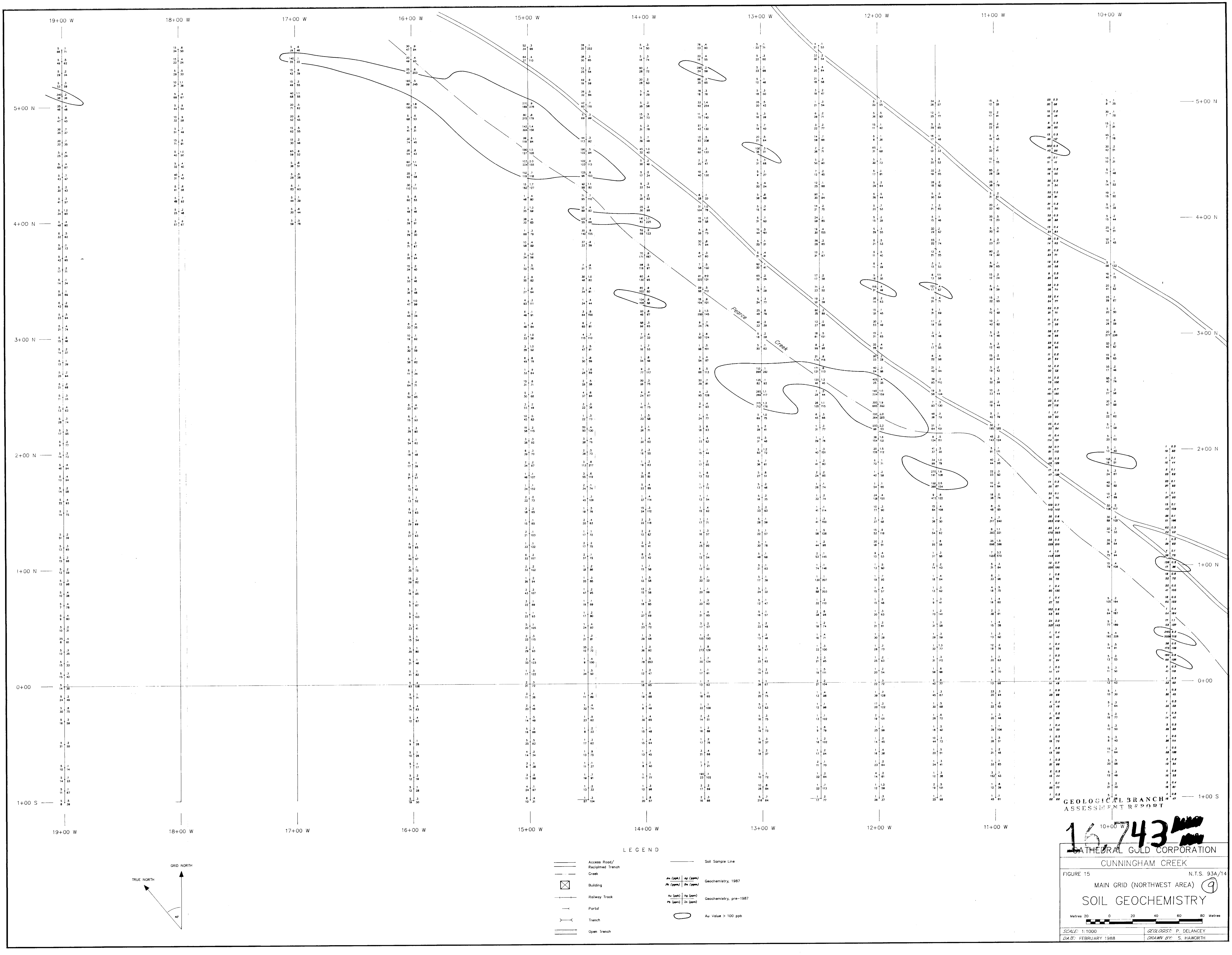
FIGURE 14a N.T.S. 93A/14

MAIN GRID (CENTRAL AREA – SOUTH)

SOIL GEOCHEMISTRY

SCALE: 1:1000 | GEOLOGIST: P. DELANCEY

DATE: FEBRUARY 1988 | DRAWN BY: S. HAWORTH



19+00 W
18+00 W
17+00 W
16+00 W
15+00 W
14+00 W
13+00 W
12+00 W
11+00 W
10+00 W
5+00 N
4+00 N
3+00 N
2+00 N
1+00 N
0+00
1+00 S
Pearce Creek
GEOLOGICAL BRANCH
ASSESSMENT REPORT
16,743
LEGEND
Access Road/ Reclaimed Trench
Creek
Building
Railway Track
Portal
Trench
Open Trench
Soil Sample Line
Au (ppb) | Ag (ppm) / Pb (ppm) | Zn (ppm) Geochemistry, 1987
Au (ppb) | Ag (ppm) / Pb (ppm) | Zn (ppm) Geochemistry, pre-1987
Au Value > 100 ppb
GRID NORTH
TRUE NORTH
40°
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 15
N.T.S. 93A/14
MAIN GRID (NORTHWEST AREA)
9
SOIL GEOCHEMISTRY
Metres 20 0 20 40 60 80 Metres
SCALE: 1:1000
GEOLOGIST: P. DELANCEY
DATE: FEBRUARY 1988
DRAWN BY: S. HAWORTH

0+00
1+00 E
2+00 E
3+00 E
4+00 E
5+00 E
6+00 E
7+00 E
8+00 E
0+00
1+00 S
2+00 S
3+00 S
4+00 S
L.5908
L.5917
L.5916
To BARKERVILLE
To LIKELY
WASTE DUMP
NORTH ADIT
COPPER CREEK ADIT
Copper Creek
Peters Gulch Creek
Swampy
GEOLOGICAL BRANCH ASSESSMENT REPORT
16,743
[redacted]
GRID NORTH
TRUE NORTH
40°
LEGEND
Access Road/ Reclaimed Trench
Creek
Building
Railway Track
Portal
Trench
Open Trench
Soil Sample Line
Au (ppb) | Ag (ppm)
Pb (ppm) | Zn (ppm)
Geochemistry, 1987
Au (ppb) | Ag (ppm)
Pb (ppm) | Zn (ppm)
Geochemistry, pre-1987
Au Value > 100 ppb
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 16
N.T.S. 93A/14
NORTH GRID
10
SOIL GEOCHEMISTRY
Metres 20 0 20 40 60 80 Metres
SCALE: 1:1000
GEOLOGIST: P. DELANCEY
DATE: FEBRUARY 1988
DRAWN BY: S. HAWORTH

LEGEND

Magnetic High

Magnetic Low

Gamma Reading
NB: All readings are 580__ unless otherwise noted.

NOTES:

1. Compilation of several surveys. See individual maps for detail
2. Instrument: Scintrex MP2
   Geophysicist: B.T. Muloin

CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

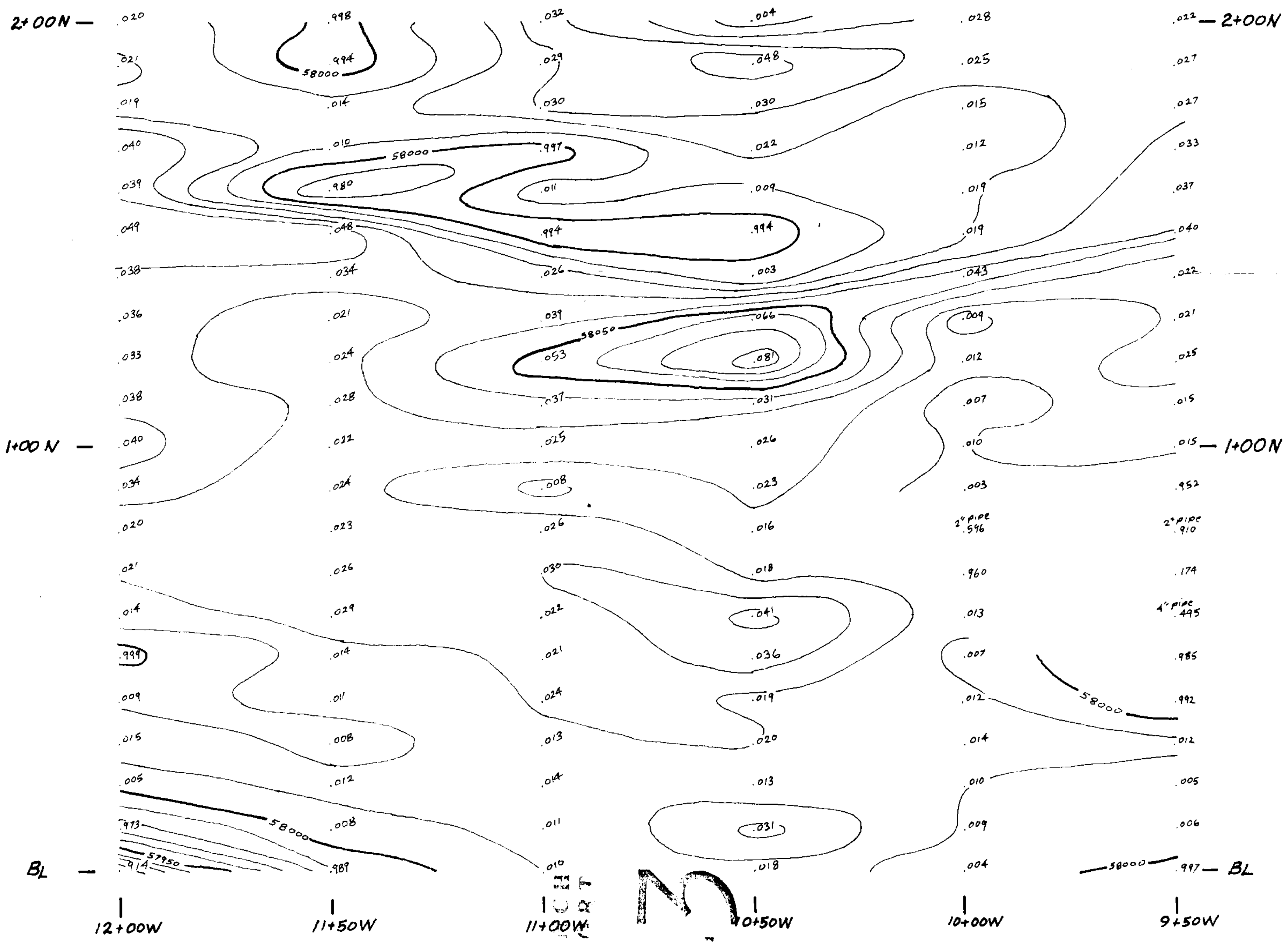
FIGURE 17 — N.T.S. 93A/14W

MAIN GRID
(SOUTHEAST & CENTRAL AREAS) (11)

SUMMARY MAGNETOMETER SURVEY

Metres 25 0 25 50 75 Metres

SCALE: 1:1000	GEOLOGIST: P. DELANCEY
DATE: FEBRUARY 1988	DRAWN BY: S. HAWORTH



SULPHIDE

0 50 100 M

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK

FIGURE 18a N.T.S. 93A/14W

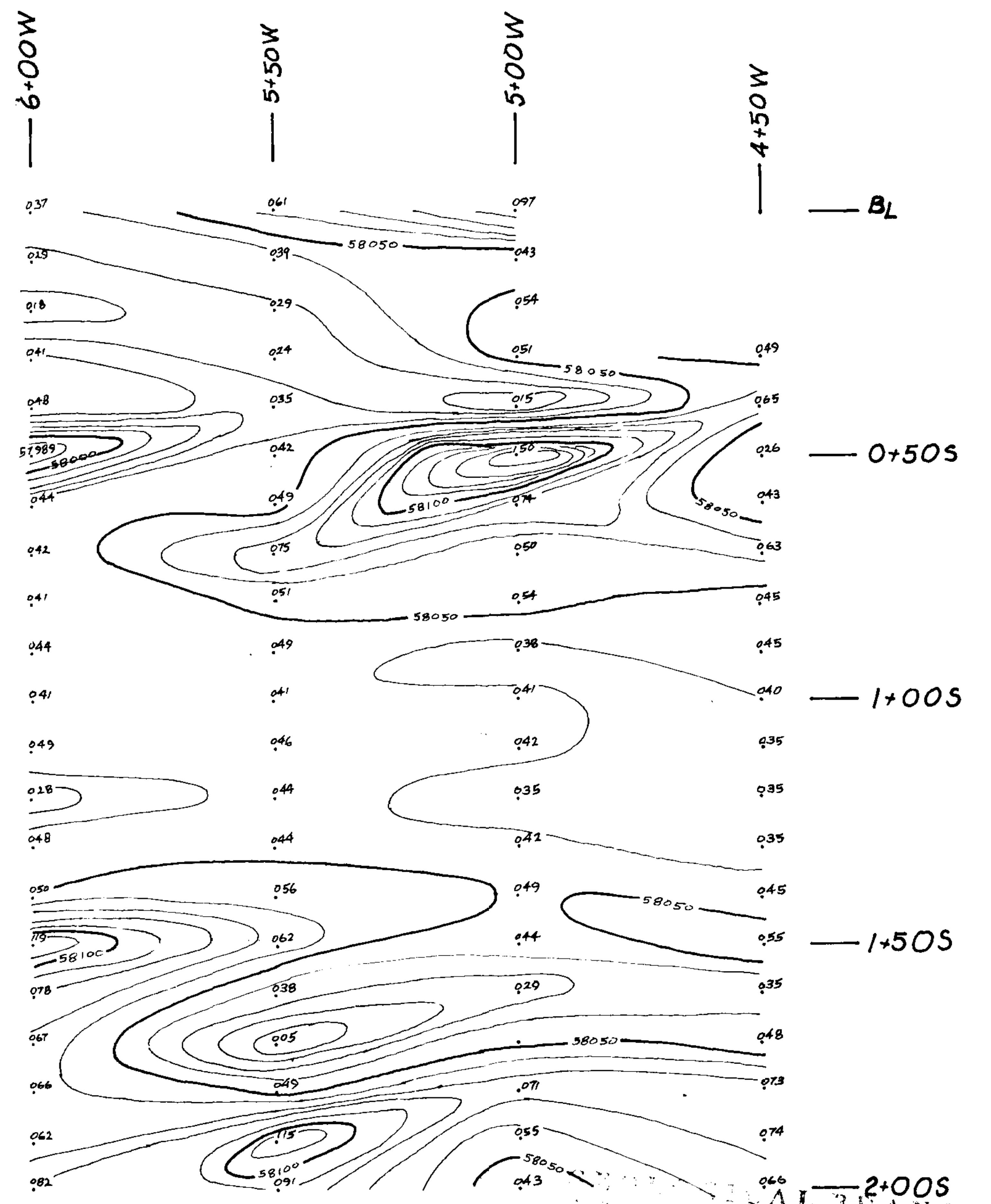
MAGNETOMETER SURVEY

(12)

INSTRUMENT: SCINTREX MP 2

SCALE: 1 : 1000 GEOPHYISICIST: B.T. MULOIN

DATE: OCT, 1987 DRAWN BY: B.T. MULOIN



MONETA

16,745

GEOLOGICAL BRANCH ASSESSMENT REPORT

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK

FIGURE 18b N.T.S. 93A/14W

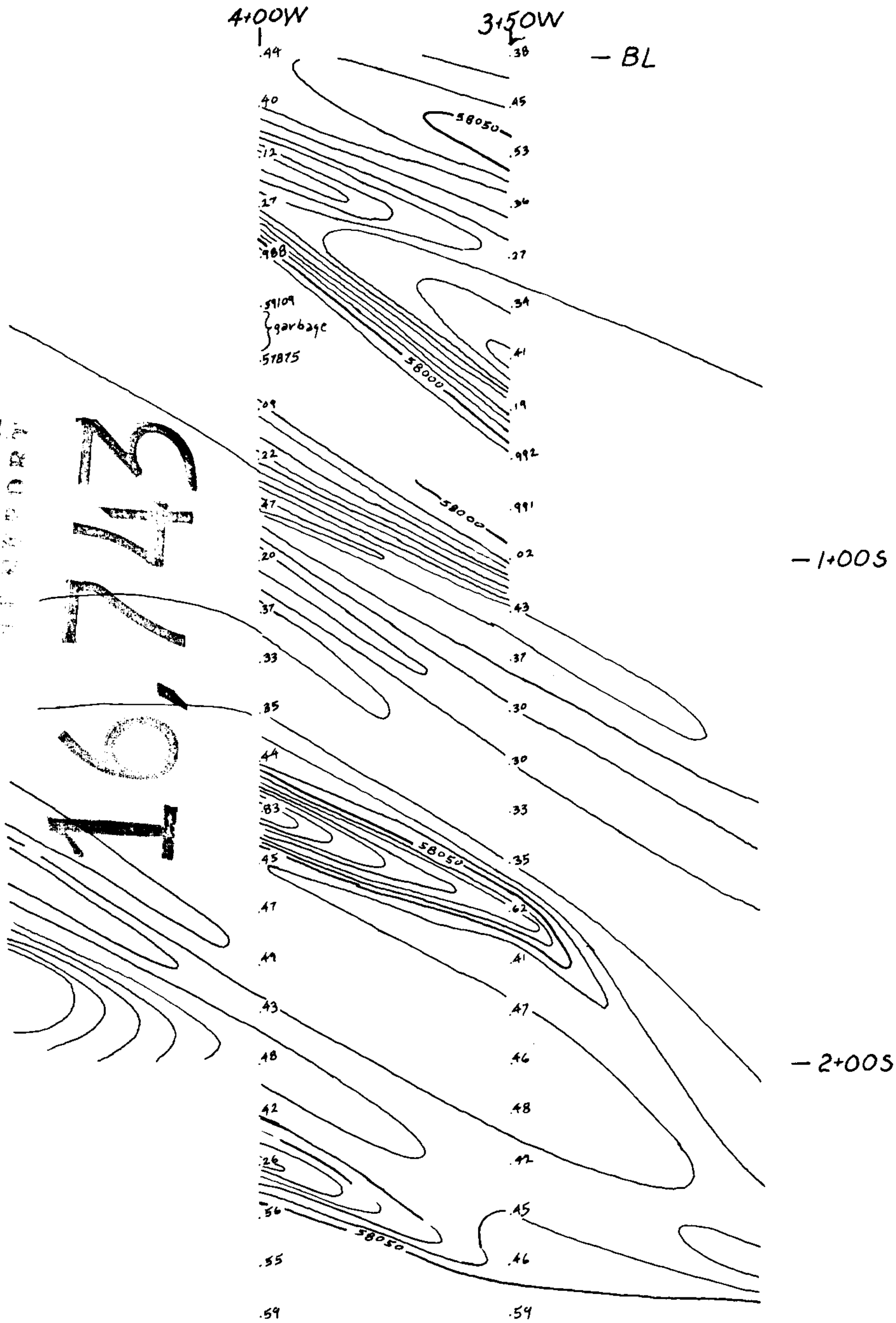
MAGNETOMETER SURVEY

(13)

INSTRUMENT: SCINTREX MP2

SCALE: 1 : 1000 GEOPHYSICIST: B.T. MULOIN

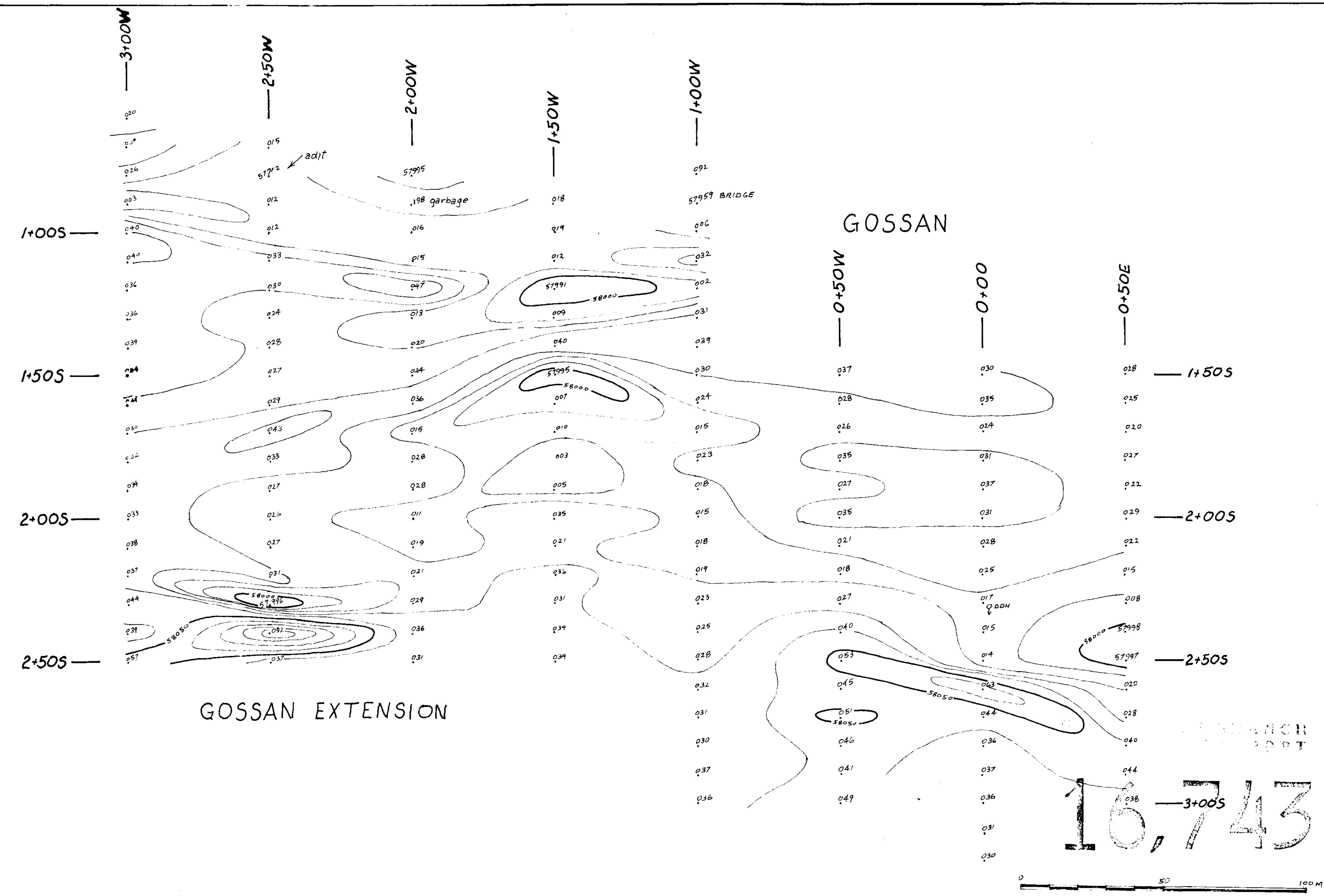
DATE: SEPT, 1987 DRAWN BY: B.T. MULOIN



MAGNETOMETER SURVEY : MONETA-GOSSAN GAP

FIGURE 18c (14)

B.T. MULOIN 10/87



IMPERIAL METALS CORPORATION

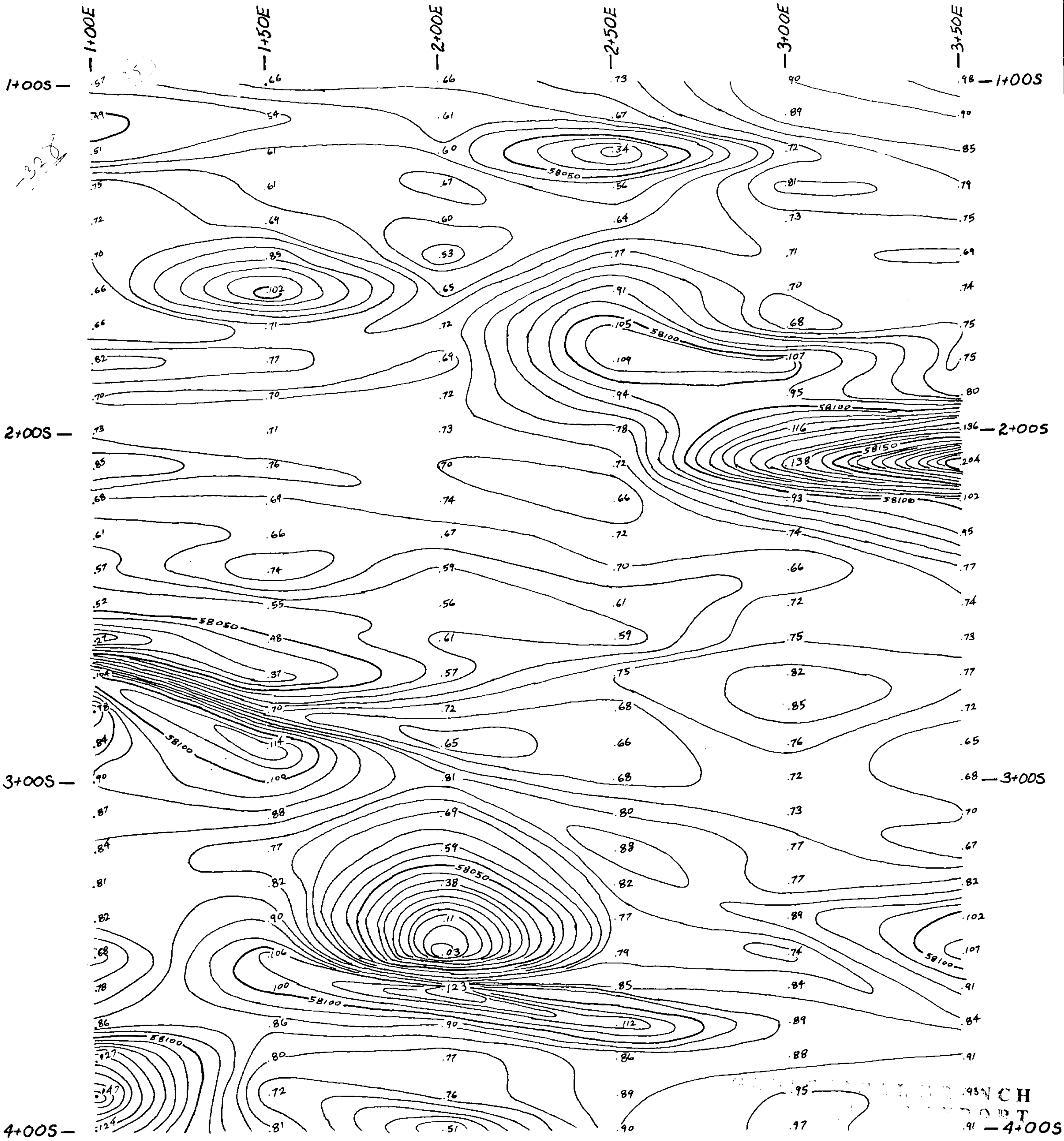
CUNNINGHAM CREEK

FIGURE 18d N.T.S. 93A/14W

MAGNETOMETER SURVEY

(15)

INSTRUMENT: SCINTREX MP2	
SCALE: 1 : 1000	GEOPHYSICIST: B.T. MULOIN
DATE: SEPT, 1987	DRAWN BY: B.T. MULOIN



South Gossan Extension

16,743

0 10 20 30 40 50 100 meters

IMPERIAL METALS

Cunningham Creek

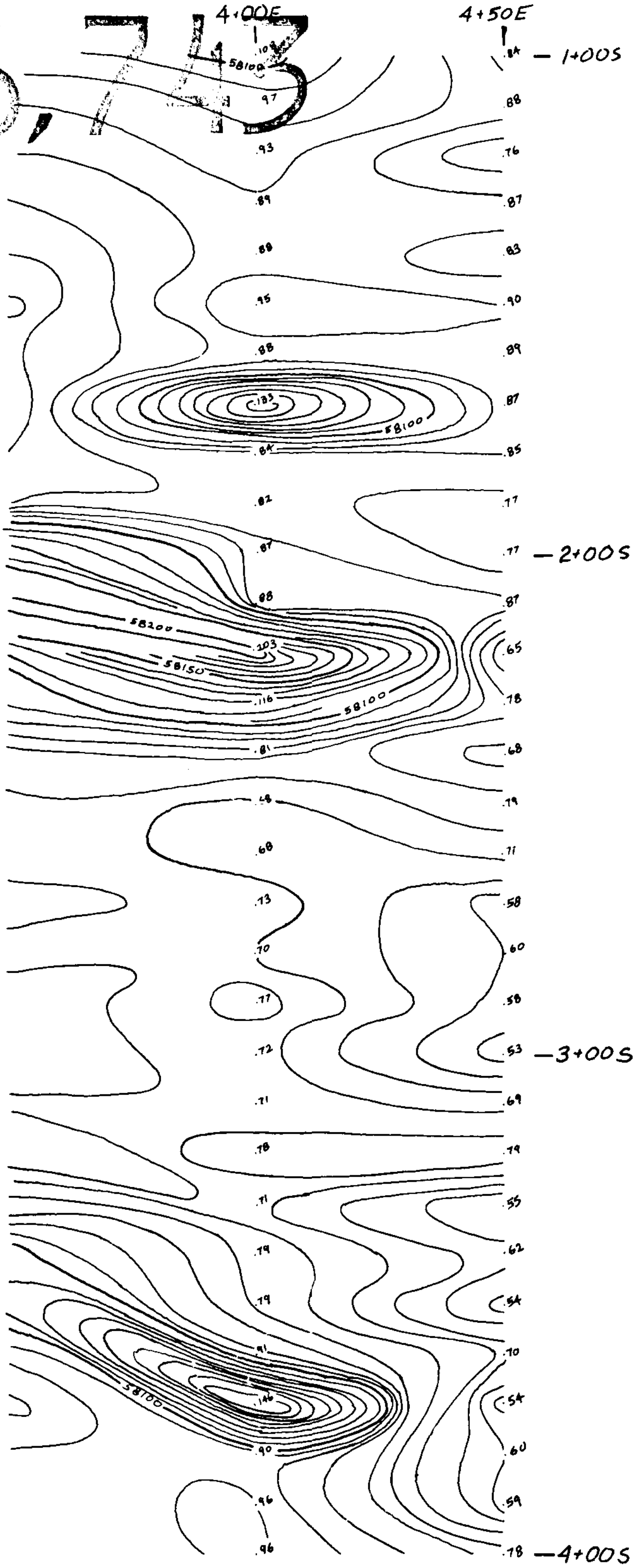
Magnetometer Survey

instrument: Scintrex MP2

operator: Bryan T. Muloin B.Sc. B.Ed.

10/87

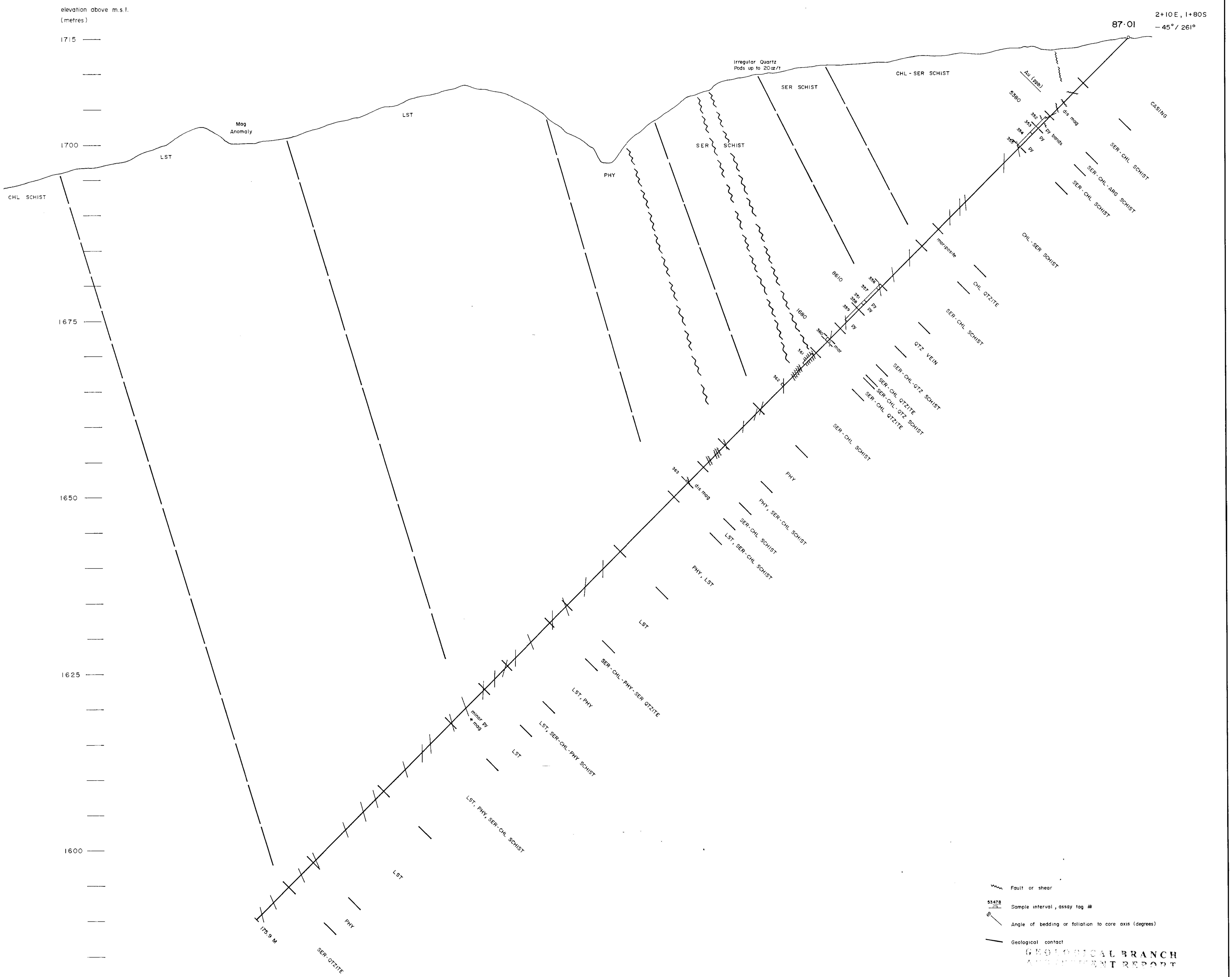
FIGURE 18e (16)



SOUTH GOSSAN MAGNETOMETER SURVEY

B.T.MULDIN
10/87

FIGURE 18f (17)



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,743

CATHEDRAL GOLD CORPORATION

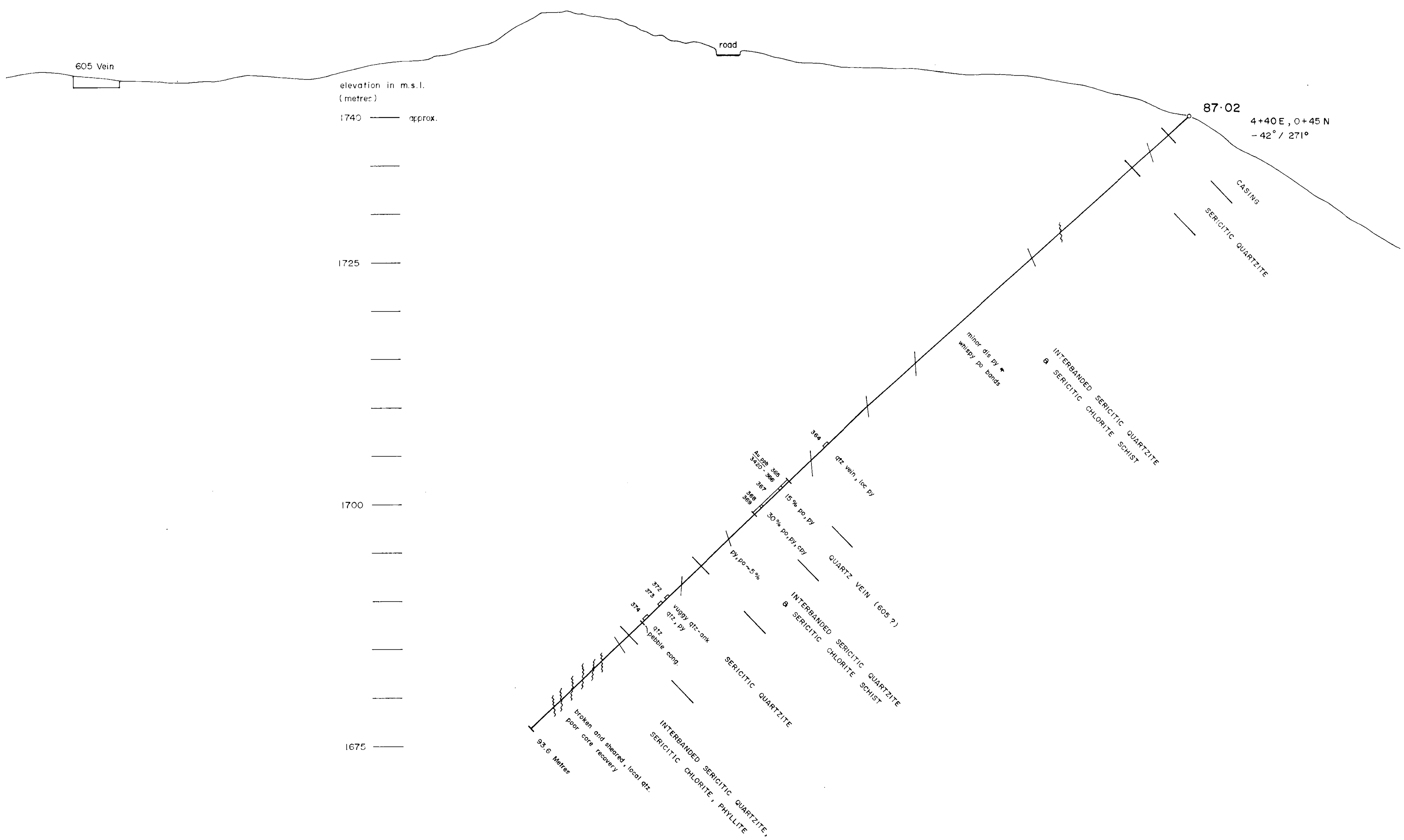
CUNNINGHAM CREEK

FIGURE 19 N.T.S. 93-A/14W

DDH 87·01 (18)

5 0 5 10 15 20 Metres

SCALE:	1 : 250	GEOLOGIST:	P. DELANCEY / J. WALKER
DATE:	FEBRUARY 1988	DRAWN BY:	g.e.l.



Fault or shear

53478 Sample interval, assay tag #

Angle of bedding or foliation to core axis

Geological contact

CATHEDRAL GOLD CORPORATION

CUNNINGHAM CREEK

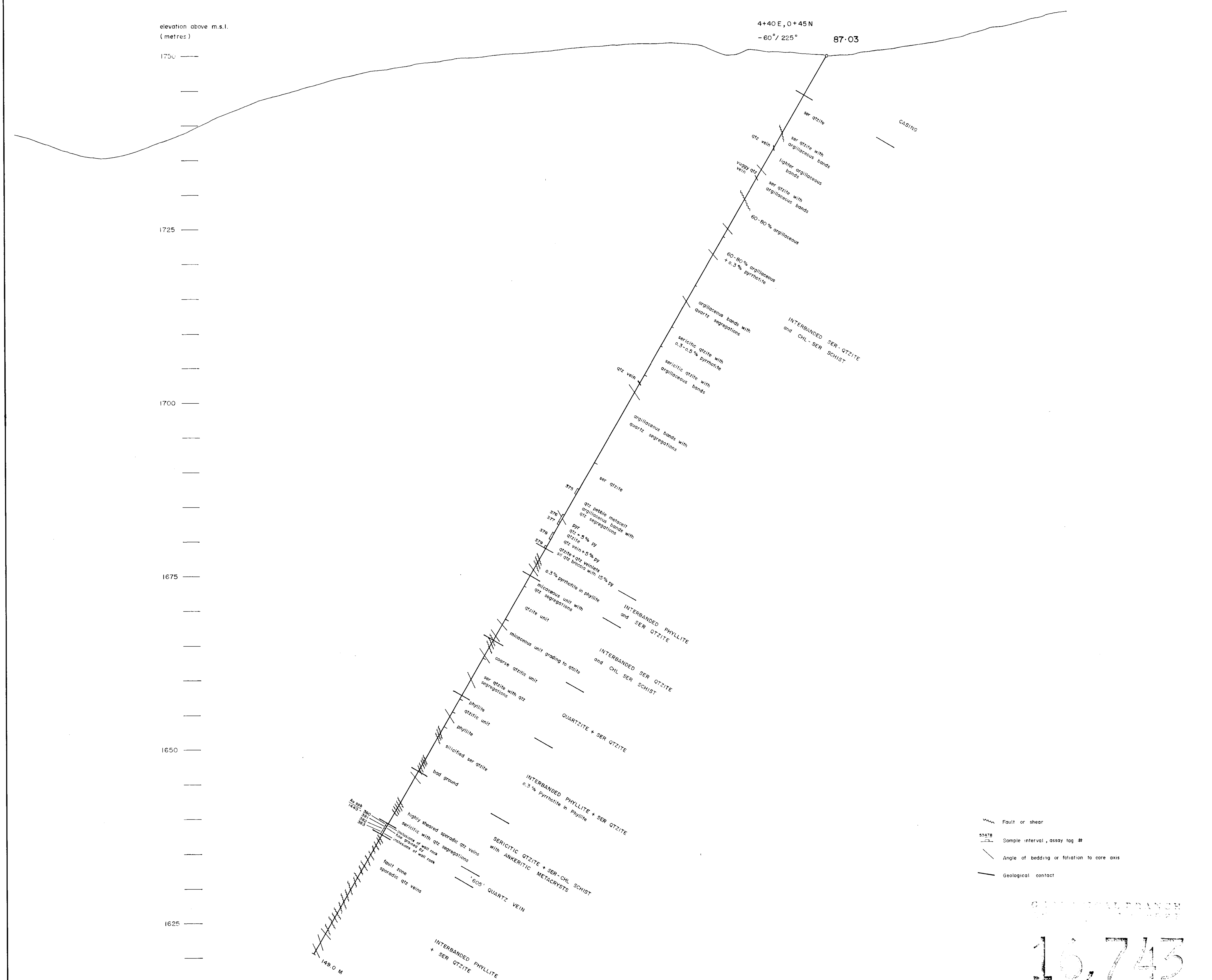
FIGURE 20 N.T.S. 93·A/14W

DDH 87·02

(19)

5 0 5 10 15 20 Metres

SCALE: 1 : 250	GEOLOGIST: P. DELANCEY / J. WALKER
DATE: FEBRUARY 1988	DRAWN BY:



CATHEDRAL GOLD CORPORATION

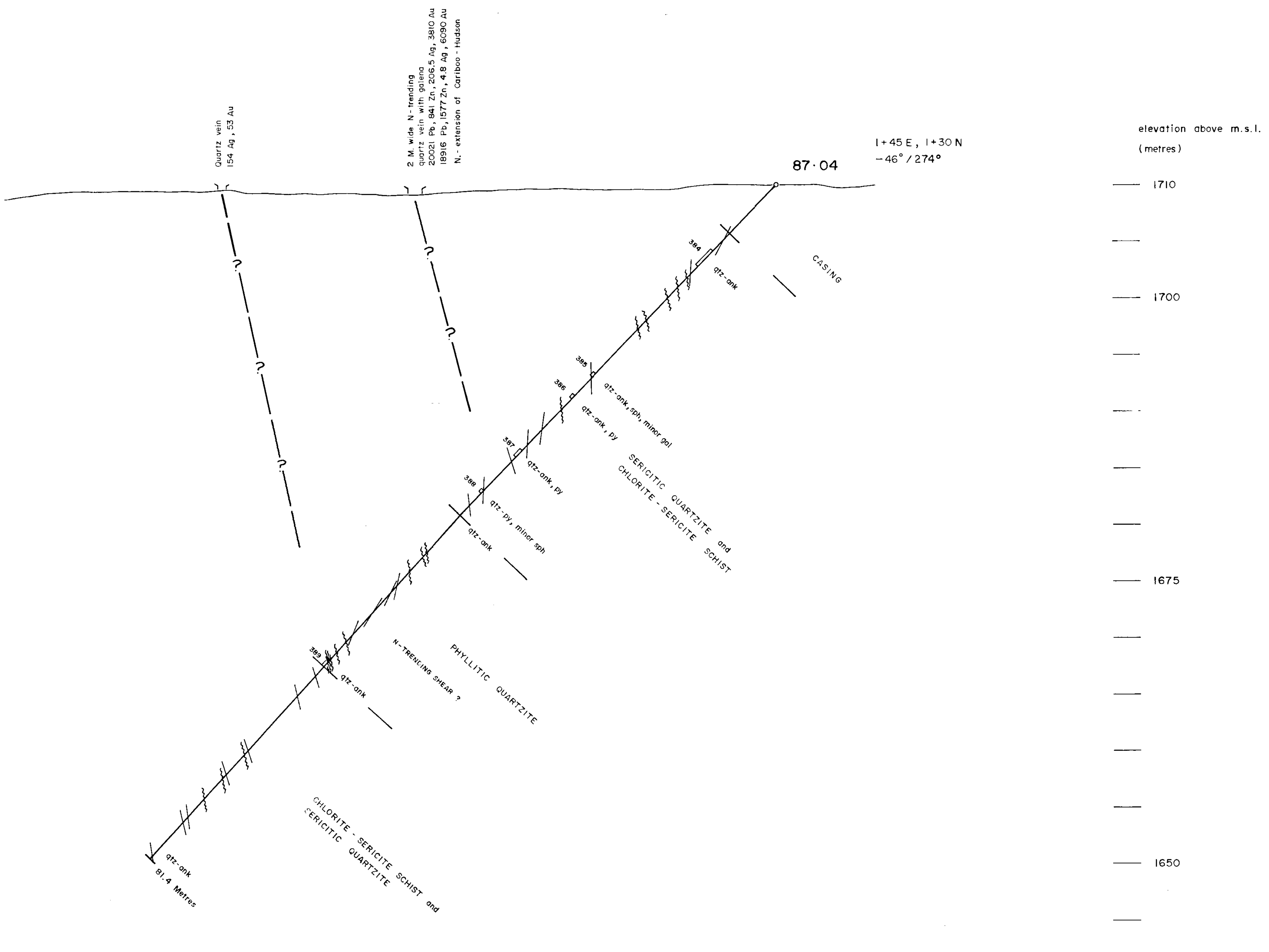
CUNNINGHAM CREEK

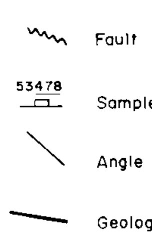
FIGURE 21 N.T.S. 93·A/14W

DDH 87·03 (20)

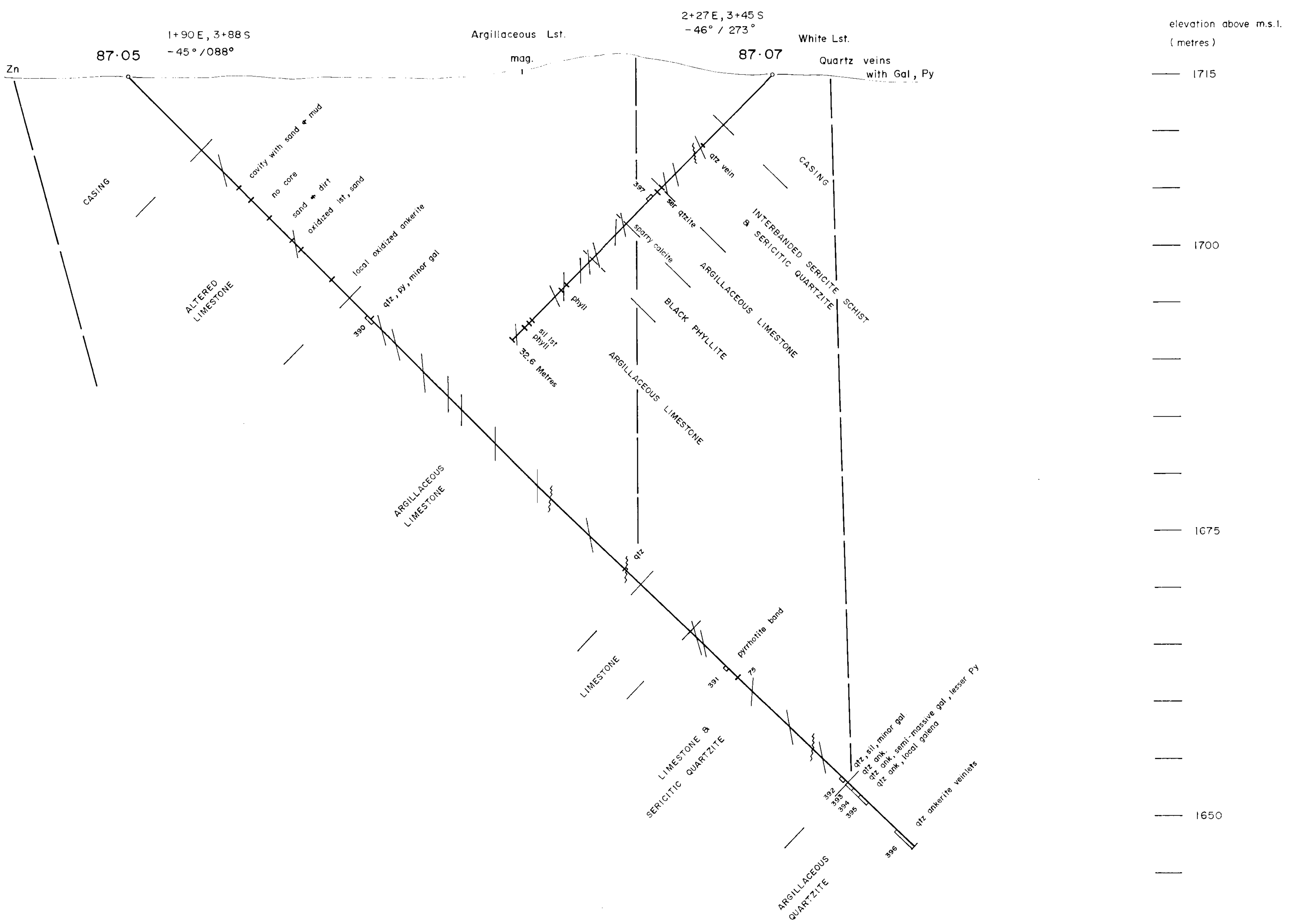
5 0 5 10 15 20 Metres

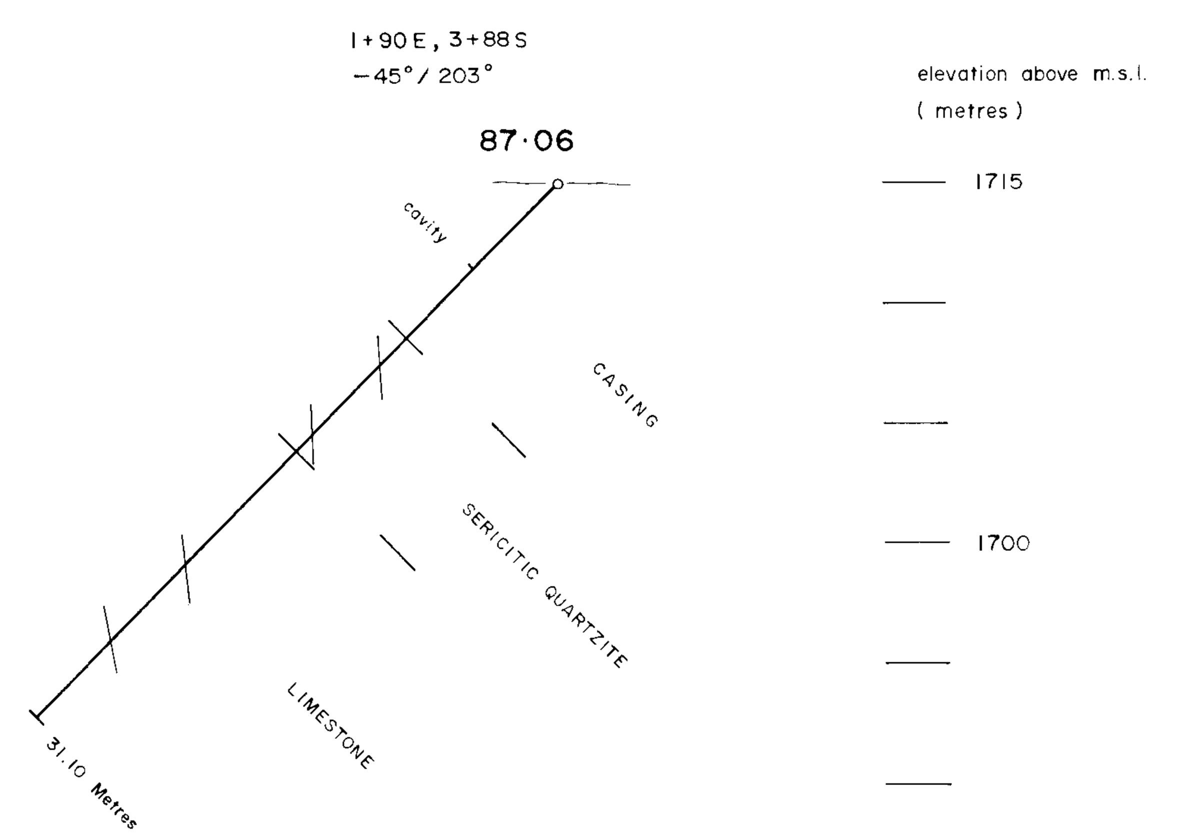
SCALE: 1 : 250	GEOLOGIST: P. DELANCEY / J. WALKER
DATE:	DRAWN BY:





CATHEDRAL GOLD CORPORATION	
CUNNINGHAM CREEK	
FIGURE 22	N.T.S. 93-A / 14W
DDH 87·04 (21)	
5 0 5 10 15 20 Metres	
SCALE : 1 : 250	GEOLOGIST : P. DELANCEY / J. WALKER
DATE : FEBRUARY 1988	DRAWN BY : g.e.l.





Fault or shear

Sample interval, assay tag #

Angle of bedding or foliation to core axis

Geological contact

16,743

CATHEDRAL GOLD CORPORATION

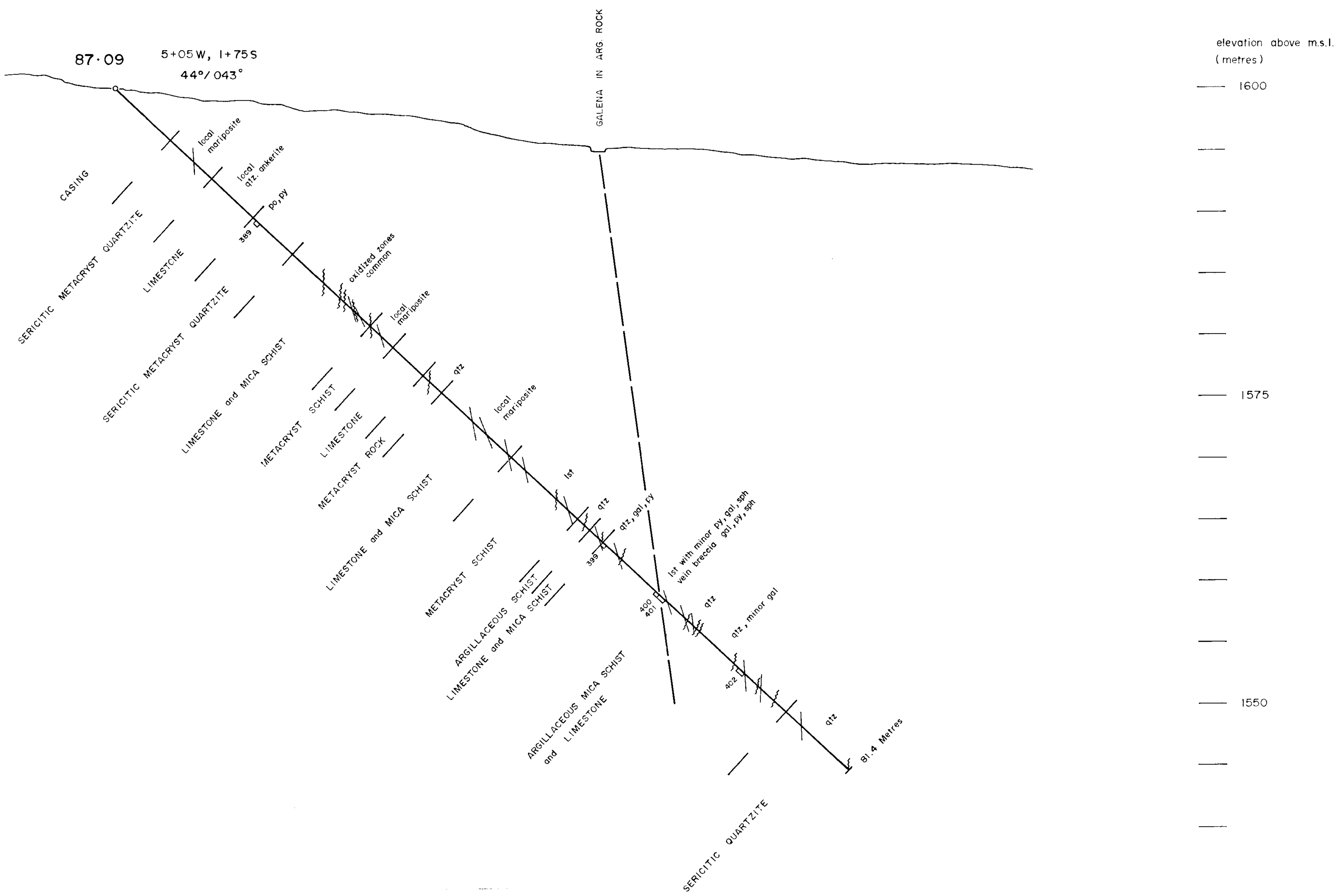
CUNNINGHAM CREEK

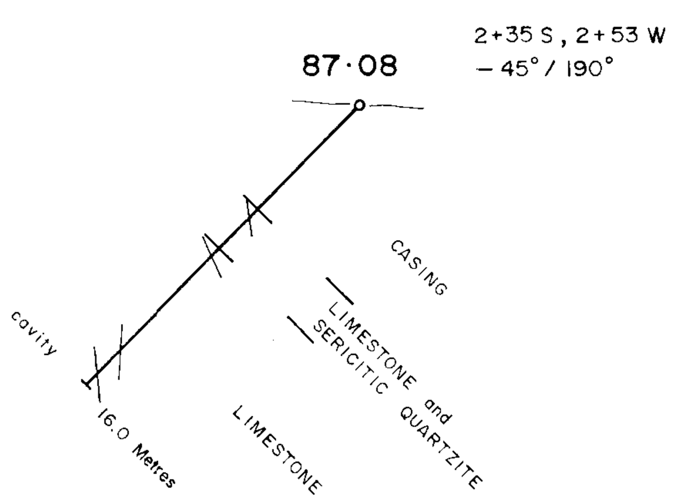
FIGURE 23 N.T.S. 93·A/14W

DDH's 87·05,06 + 07

5 0 5 10 15 20 Metres

SCALE :	1 : 250	GEOLOGIST :	P. DELANCEY / J. WALKER
DATE :	FEBRUARY 1988	DRAWN BY :	g.e.l.





Fault or shear

Sample interval, assay tag #

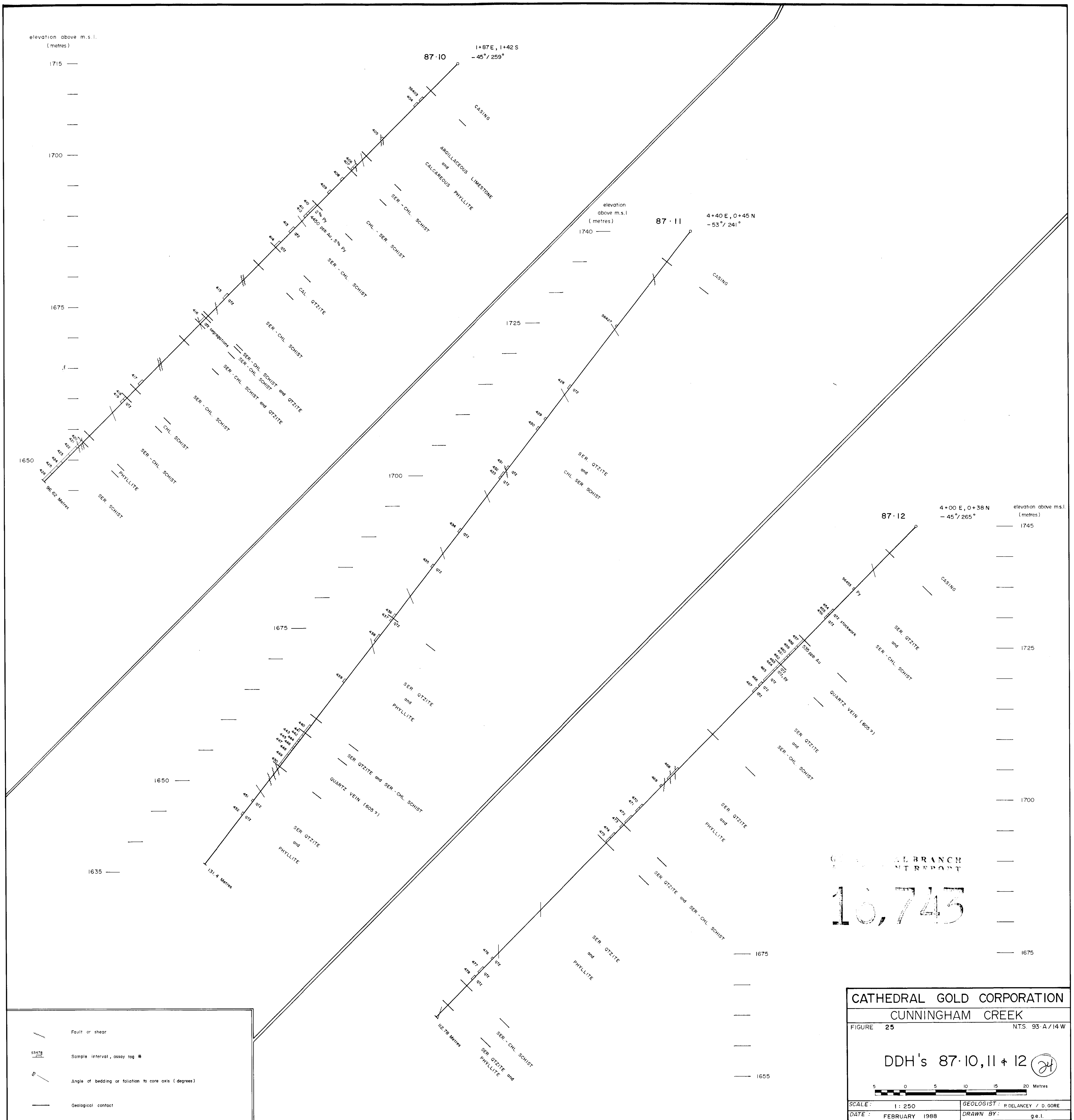
Angle of bedding or foliation to core axis

Geological contact

ICAL BRANCH
ENT REPORT

16,743

CATHEDRAL GOLD CORPORATION	
CUNNINGHAM CREEK	
FIGURE 24	N.T.S. 93-A/14W
DDH's 87·08,09 (23)	
5 0 5 10 15 20 Metres	
SCALE: 1 : 250	GEOLOGIST: P. DELANCEY / J. WALKER
DATE: FEBRUARY 1988	DRAWN BY: g.e.l.



elevation above m.s.l. (metres)
87·10
1+87E, 1+42S
-45°/259°
CASING
ARGILLACEOUS LIMESTONE and CALCAREOUS PHYLLITE
SER - CHL SCHIST
CHL - SER SCHIST
SER - CHL SCHIST
CAL QTZITE
SER - CHL SCHIST
SER - CHL SCHIST and QTZITE
SER - CHL SCHIST
SER - CHL SCHIST and QTZITE
SER - CHL SCHIST
CHL SCHIST
SER - CHL SCHIST
PHYLLITE
SER SCHIST
96.62 Metres
2% Py
4450 ppb Au, 5% Py
qtz segregations
87·11
4+40E, 0+45N
-53°/241°
CASING
SER QTZITE and CHL SER SCHIST
SER QTZITE and PHYLLITE
SER QTZITE and SER - CHL SCHIST
QUARTZ VEIN (605 ?)
SER QTZITE and PHYLLITE
131.4 Metres
87·12
4+00E, 0+38N
-45°/265°
CASING
qtz stockwork
535 ppb Au
SER QTZITE and SER - CHL SCHIST
QUARTZ VEIN (605 ?)
SER QTZITE and SER - CHL SCHIST
SER QTZITE and PHYLLITE
SER QTZITE and SER - CHL SCHIST
SER QTZITE and PHYLLITE
SER - CHL SCHIST
SER QTZITE and PHYLLITE
112.78 Metres
Fault or shear
Sample interval, assay tag #
Angle of bedding or foliation to core axis (degrees)
Geological contact
GEOLOGICAL BRANCH ASSESSMENT REPORT
16,745
CATHEDRAL GOLD CORPORATION
CUNNINGHAM CREEK
FIGURE 25
N.T.S. 93-A/14W
DDH's 87·10, 11 + 12
24
5 0 5 10 15 20 Metres
SCALE: 1:250
GEOLOGIST: P. DELANCEY / D. GORE
DATE: FEBRUARY 1988
DRAWN BY: g.e.l.