2 of 4

040

PRINCETON RESOURCES CORP.

Summary Progress Report
on the
Bissett Creek Project
for the 1985 Calender Year

February 1986

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TABLE OF CONTENTS

1.0 INTRODUCTION

Hill Mining Consultants Ltd. (H.M.C.) was authorized by D. Copeland of Princeton Resources Corporation (Princeton) to carry out the required environmental permitting work for the Bissett Creek Project on September 30th, 1985. On the 10th October 1985, Princeton requested H.M.C. to submit a proposal and estimate of costs which would cover their further involvement in the project.

The scope of work of this proposal for this work was to be as follows:

(1) Completion of the environmental and permitting work.
(2) On-site monitoring of construction and operation.
(3) Review of assaying and metallurgical testwork.
(4) Preparation of an independent ore reserve estimate.
(5) Preparation of a prefeasibility study report.

The proposal was submitted to Princeton on the 29th October, 1985 and accepted by Princeton early in November. The summary progress report which follows deals with the subjects shown above in the scope of work and in somewhat the same order. The sections have been entitled:

Environmental and Permitting Work
Site Work and Construction
Assaying of the Drill Core Sampling
Metallurgical Testwork
Geology, Diamond Drilling and Ore Reserves
Preparation for and Mining of the Bulk Sample
Pre-Feasibility Study

2.0 ENVIRONMENTAL AND PERMITTING WORK

H.M.C. prepared a review of all the permitting that would be required for Princeton to start production from its Bissett Creek property and also prepared applications for the permits as soon as the necessary information became available.

The permits applied for, together with the dates on which they were submitted are set out below:

Permission for a Mining & Milling Operation	N.R.	24/09/85
Approval for Disposal of Liquid Waste	M.O.E.	24/10/85
Application to Take Water	M.O.E.	24/10/85
Mineral Industries Information Fact Sheet	M.O.E.	24/10/85
Certificate of Approval (Air)	M.O.E.	02/12/85
Notice of Project	M.O.E.	05/11/85

After discussions with different officials of the Ministry of Environment the application for approval for disposal of liquid wastes was revised and re-submitted on the 6th November, 1985.

A meeting was held with officials of the M.O.E. on the 12th November, 1985 in Toronto to discuss the further necessary work for obtaining certificates of approval for the dust producing equipment. Some further information has been provided as to the equipment to be used, but subsequent discussions have shown that an overall approval will not be issued until all information as to equipment and dust collection has been submitted. At year end the outstanding information that has not yet been obtained is on

/3.

the dryer and the method of dust collection to be used during its operation.

Some 10 water and 4 sediment samples have been taken from the water sheds of Grants and Bissett Creeks. Exhibit 1 sets out a select tabulation of the water samples and assays. In general it would appear that the somewhat acidic waters at the headwaters of the streams get progressively diluted and more neutral with the increase in flow downstream. Except for the somewhat excessive amount of iron in the upstream water, the water is very pure and more than meets the required drinking water standards.

3.0 SITE WORK AND CONSTRUCTION

Princeton has picked out a site for its camp and mill, which is approximately a mile south of the actual deposit. The site was chosen for its proximity to a substantial body of surface water, Berwick Lake and the nature of the terrain, which has a gently rolling aspect with substantial amounts of overburden. The relative locations of the site and deposit has been highlighted on Figure 1 and the layout of the camp mill and tailings pond has been detailed on Figure 2.

The size of the tailings pond is such that the main pond will be able to hold sufficient for about 2 months of steady milling, that is 4,500 m.tons. The pond was designed so that excess water will decanted into a second settling pond, before being reused, or discharged from the system. The main and settling ponds have both been provided with plastic liners to minimize seepage from the pond into the surrounding overburden.

/4.

The mill and camp have been situated at higher elevations than the pond itself and all surface drainage from the area will tend to flow into the pond, which should eliminate any possibility of adverse environmental impact from inadvertant spillages. The relative locations of the facilities at the plant site have been shown on Figure 2.

Clearing of the site was complete by the middle of October and the camp was established shortly after mill construction was started in the third week of October. By year end the mill building was completed except for some sheeting and insulation and the crusher circuit and bins were installed with some work to complete on the cribbing and ramp to the coarse ore bin. The majority of the milling equipment was on site but not installed. One major piece of equipment, the rotary dryer, had not been purchased. The proposed flow sheet has been included in this summary as Figure 3.

4.0 ASSAYING OF THE DRILL CORE SAMPLES

All drill core samples have been inspected and their graphite content visually estimated by the site geologists. It was very soon found that a substantial correction factor was needed to correlate the visual estimates with the chemical assays of the contained graphite. The average reduction factor has been estimated to be a little less than four, but it is very apparent that the factor could be as high as 8 and as low as 2. Some preliminary estimates of grade were made by using the results of the preliminary metallurgical test work, but once the main 1985

/5.

drill program was underway Lakefield research carried out more definitive metallurgical testing and assayed some of the then current drill core samples for contained graphitic carbon content by chemical means. The procedure used is to remove any carbon in carbonates by an acid bath, followed by a short term ignition of the sample at 3,000°F. The gas that is given off is then passed through various adsorbtion tubes to remove all constituents that might interfere with the determination of the amount of carbon dioxide produced and then the carbon dioxide is itself adsorbed. The amount of graphite is calculated from the weight of carbon dioxide that has been adsorbed. A initial 90 samples were assayed by Lakefield. Subsequent assaying has been carried out by Erana Mines Ltd. (Erana) who were advised to use similar equipment and procedures to that used by Lakefield. R. Down the metallurgical consultant reviewed Lakefield's assaying procedures and described the recommended procedures with Erana. Erana reran an initial 42 samples previously assayed by Lakefield with reasonable correlations. A table showing the comparisons is included here As Exhibit 2. A further suite of samples will be chosen from the whole set, to be carried out by an independent experienced assayor that will be chosen by R. Down for further check assaying. At year end about two-thirds of the assays needed to carry out the ore reserve estimate had been completed.

5.0 METALLURGICAL TESTWORK

Some initial testwork was carried out by Erana to determine if indeed an attractive product could be obtained from samples of the drill core, once this was established the work of determining the most effective grind and the best flow sheet for the material was turned over to Lakefield. Lakefield carried out an initial series of tests on samples of drill core to determine the recovery of the coarse +100 mesh graphite under various conditions of grind and flotation. The work showed that the +100 mesh graphite could be prepared with recoveries ranging from 50 - 67% with L.O.I. assays ranging from 85 - 95% C(g).

Lakefield then composited equal weights of the rejects from the 90 drill core samples which they had assayed and then carried out further testing, which could be used for flow sheet development of the pilot plant and to determine if a saleable product could be prepared from the -100 mesh graphite. The head assay grade of this composite was approximately 2.0% C(g). The results of the tests were encouraging because what is believed to be saleable products were obtained for both the +100 and the -100 mesh products, which had assays of 87% and 82% C(g) respectively. The tests showed that with the preferred milling procedure a recovery of 90% of the total graphite could be expected.

The plus 100 mesh product was obtained by 3 stages of flotation and a final gravity concentration. The -100 mesh product was obtained by regrinding the tailings from the +100 mesh product and putting them through two further stages of flotation. Lakefield issued their report on December 20th, 1985 and since that time no further bench scale testwork has been done.

R. Down the metallurgical consultant supervised the Lakefield work and prepared a preliminary flowsheet for the project here included as Figure 3. The circuit has since been modified to include a regrind mill and some cleaner cells to handle the -100 mesh product.

6.0 GEOLOGY, DIAMOND DRILLING AND ORE RESERVES

The drilling on the property commenced in 1984 and by the end of that year some 1,041 feet had been completed in seven holes.

The 1985 drill program has consisted of deepening 3 of the holes drilled in 1984 and completing some 99 new holes for a total footage of 16,488.5 feet. It should be noted that the majority of the foregoing holes set out on a regular grid with a spacing of 50 meters. Some closer spaced drilling was carried out at 25 meter spacing, where this was felt to be justified because of higher grade intersections in adjoining holes. Some very closely spaced drilling was done at approximately 10 meter spacing, especially to test the continuity of the mineralization and this amounted to 378 feet in 18 holes.

The area covered by this drill program where the better grade material is intersected was approximately 400 meters square. The 1985 drill program was completed on the 30th November, 1985.

The geology of the area appears at first glance to be reasonably simple. The rocks in the area are biotite gneisses which appear to be graphitic in two particular beds or units separated by an intermediate low grade bed of a variable width. The beds appear to dip to the east at approximately 10 - 15°. The graphite in the lower unit appears to pinch and finger out to the north and east with the graphitic upper unit becoming stronger and better grade. The northernmost sections have insufficient drilling to reach a firm conclusion as to the extent of the deposit, but whatever information there is indicates that the upper unit could well continue to make ore grade material, so essentially the deposit is open in this direction. Down dip to the east the upper unit appears to continue to show good grades, but very little drilling has been done so that there is a good potential for further mineralization in this direction. The area where the graphitic units outcrop to the west have been well delineated by drilling and the grade of the units to the south have been found to be economically unattractive, so it would appear that there is no potential for extending the deposit in these directions.

H.M.C., as part of their work in estimating ore reserves, will prepare a summary of the local geology and will discuss the potential mineralization on the property. H.M.C. as of year end had prepared a drill hole plan with sections showing the geology and the sample intersection. The ore reserve estimate will be prepared as soon as the assay work has been completed.

7.0 PREPARATION FOR AND MINING OF THE BULK SAMPLE

Part of the work in November was to review those areas of the deposit where what is now estimated to be average grade material, that is 2.75% C(g) or better, was easily available for mining at surface. Initially five sites were chosen and these have been shown on Figure 4. The area designated as pit 2 was discarded due to the depth of overburden and proximity to the swamp. A grid at 5 meter spacing for percussion testholing was laid out and the holes were to be drilled 12 ft. deep with 6 ft. long samples being taken. This initial testwork was to be assayed on a priority basis by Erana Mines Ltd. The test pits were to be designed using the results from the test hole program.

The position at year end was that all pit areas had been stripped ready for drilling and some 18 test holes had been taken in No. 1 pit area, together with some drilling in pits 4 & 5, none of the assay results from the samples were available at year end.

It was estimated that the following tonnages could be mined from the pit areas should the grade of the test hole drilling confirm the expected grade of the areas as estimated from the diamond drilling.

Pit	1	1,500	M.T.
	2	500	
	3	500	
	4	1,000	
	5	1,500	
	Total	5,000	M.T.

8.0 PREFEASIBILITY STUDY

H.M.C., as the final part of their work-scope, is to prepare a prefeasibility study, which besides providing estimates of the capital and operating costs for the potential operation will incorporate the results of the ore reserve estimate and the sales scenario that Princeton believes to be likely and will evaluate the project economics, using this foregoing material.

/10.

H.M.C. will not start work on this phase of their work until the ore reserve estimate has been completed and the pilot mill is operating successfully. In preparation for this study H.M.C. has prepared a preliminary economic evaluation making several assumptions, which are believed to be realistic. The evaluation, which has been included in with this summary as Exhibit 3 shows that the project is economically attractive given the validity of the assumptions that have been made and it is well worth while proceeding with the test program.

/11.

EXHIBIT 1

Some Select Results of the Baseline Water Analysis

Sample No.	Sample Location	P.H.	Total Dissolved Solids	Arsenic	Iron	Copper
			Mg/L.			
	Grants Creek Watershed					
7	At out flow to Ottawa River	6.7	44	0.0005	0.34	0.005
9	At main fork of Creek	6.9	48	0.0005	0.57	0.010
8	Sth. Tributary	6.6	45	0.0005	0.44	0.005
3	Down Stream from Deposit	6.4	43	0.0007	4.50	0.010
2	Near Deposit	6.3	167	0.0005	1.11	0.005
	Bissett Creek Watershed					
10	At junction with Black Creek	7.0	8	0.0005	0.47	0.005
6	Down Stream from Deposit	6.3	7	0.0005	1.95	0.0075
5	Berwick Lake	6.6	7	0.0005	0.10	0.005
	Drinking Water Standards	6.0 - 8.5	500	0.05	0.30	1.000

EXHIBIT 2 18/02/86

Comparison of Erana and Lakefield Assays

Sample	Hole	From	To	Width	Erana % C(g)	Lakefield % C(g)
6246	85 - 25	16	26	10	0.88	0.90
6248	"	40	50	10	2.16	2.21
6250	"	60	70	10	1.78	1.79
6252	"	80	90	10	2.08	2.00
6254	"	125	135	10	0.21	0.32
6256	"	144	154	10	3.14	2.94
6258	85 - 25	164	174	10	3.22	3.30
6260	85 - 26	5	15	10	1.56	1.51
6262	"	30	45	15	1.01	1.00
6264	"	60	70	10	2.14	1.97
6266	"	80	90	10	1.94	1.95
6268	"	108	120	12	2.10	2.09
6270	"	130	140	10	0.42	0.39
6272	"	153	163	10	3.20	3.17
6274	"	173	183	10	2.46	2.46
6276	"	192	202	10	1.55	1.48
6278	"	212	222	10	3.12	3.00
6280	85 - 26	232	241	9	2.75	2.77
6282	85 - 28	30	40	10	0.79	0.92
6284	"	50	60	10	0.71	0.63
6286	"	70	80	10	2.93	3.02
6288	"	90	105	15	1.80	1.88
6290	85 - 28	128	138	10	3.11	3.14
6292	85 - 20	180	190	10	3.23	3.11
6294	85 - 20	200	210	10	3.20	3.33
6296	"	220	230	10	3.15	3.00
6298	85 - 20	240	250	10	2.81	2.62
6300	85 - 29	12	25	13	2.23	1.79
7502	85 - 29	35	45	10	1.45	1.21
7504	"	55	65	10	2.04	1.74
7508	85 - 29	135	145	10	3.12	3.09
7510	85 - 30	2	12	10	1.32	1.06
7520	"	102	112	10	2.40	2.20
7522	"	153	163	10	2.65	2.47
7524	85 - 30	173	183	10	3.12	3.02
7526	85 - 30	193	203	10	3.35	3.58
7528	85 - 31	20	32	12	1.79	1.70
7530	"	50	62	12	1.38	1.38
7534	85 - 31	130	140	10	3.12	3.10
7538	85 - 32	3	15	12	2.15	1.80
7546	85 - 33	25	40	15	2.06	1.86
7548	85 - 33	55	70	15	1.42	1.39

Statistical Tests

Mean	2.17		2.10
STD Dev.	0.88		0.88
Variance	40.43		42.06
Covariance		0.77	
Correl. Coeff.		0.99	

EXHIBIT 3

Preliminary Bissett Creek Economics

Data

Probable sales of graphite 15,000 t.p.y.
Estimate Average Sale Price Can. $1,000/ton (U.S. $700/ton).
Estimated Mill Recovery 85%.
Average Mined Grade 2.9% graphite.
Assumed strip ratio for grade control 1:1 and easy mining.

Mining and Milling Rate

Required amount of mined graphite 17,650 t.p.y.

Required amount of milling 608,620 t.p.y. or 1,750 t.p.d.[1]
mining 1,217,240 t.p.y. or 4,870 t.p.d. rock.[2]

Operating Costs

	Cost	Crew
Mining Cost	$ 1.79/ton rock[3] $ 3.59/ton rock	47
Milling Cost	$ 6.92	44
Power	$ 1.50	
Administration	$ 1.53	13
TOTALS	$13.54/ton	104

Cost of Mining 1 ton ore $11.75/ton

Economically attractive cut-off grade 1.4% graphite.

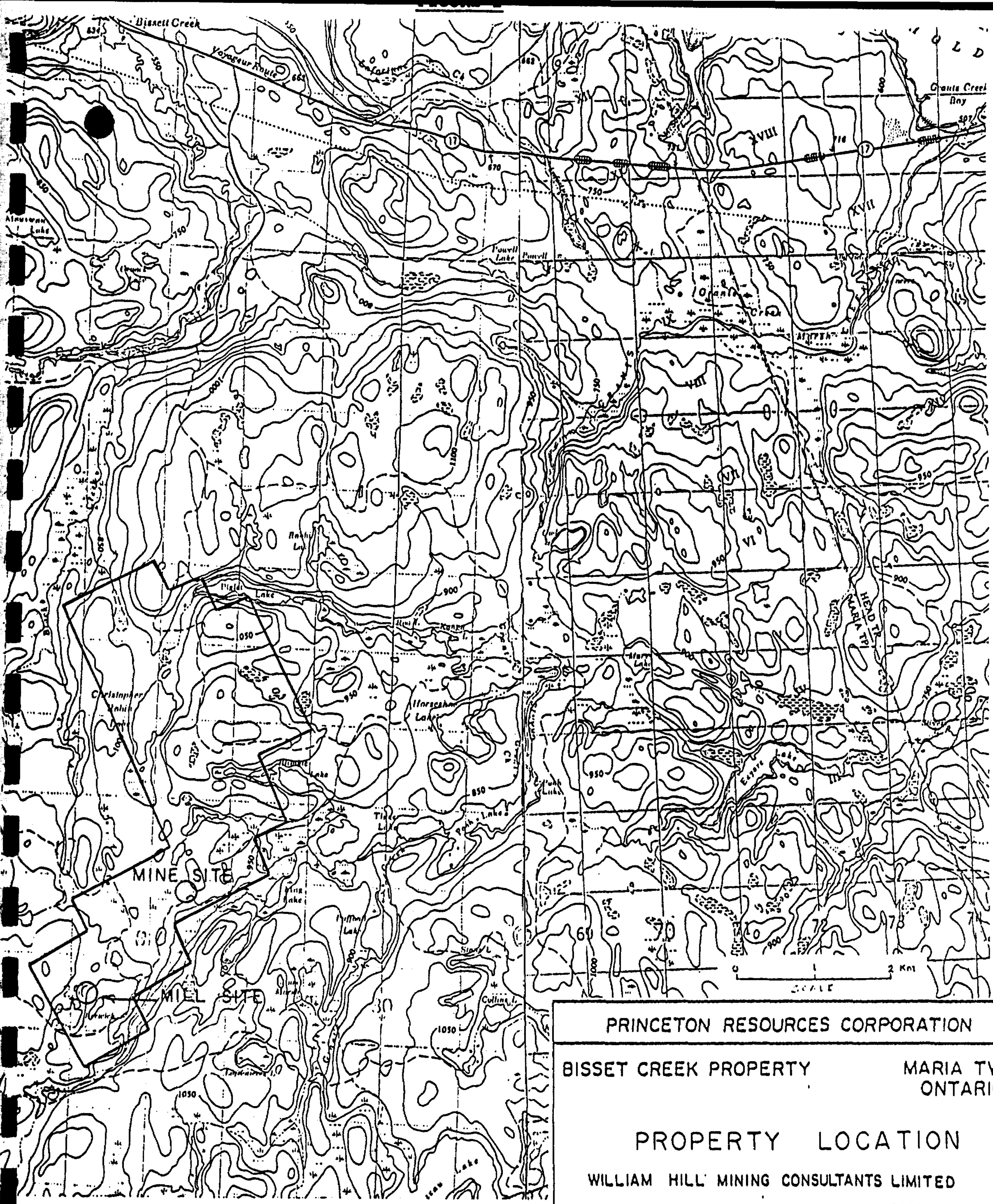
Expected Revenue/Ton $24.65.

The revenue cost ratio is 1.82:1, which should give the basis of an attractive operation.

Alternatively total gross profit/year is $6.8 million so that a plant costing up to $23.8 million would still allow an attractive investment.[4]

The minimum amount of reserves which would warrant such an operation is about 5,000,000 tons which would give a project life of 8 years.

Notes:
1. Based on 350 operating days/yr.
2. Based on 250 operating days/yr.
3. Assumes easy mining conditions.
4. The quoted capital cost gives a 3½ year payback.



PRINCETON RESOURCES CORPORATION

BISSET CREEK PROPERTY

MARIA TWP, ONTARIO

PROPERTY LOCATION

WILLIAM HILL MINING CONSULTANTS LIMITED

SCALE	DATE	N.T.S.	FIG. Nº
			1

FIGURE 2

ssible layout of tailings
area. To be refined later
necessary.

rimary Pond

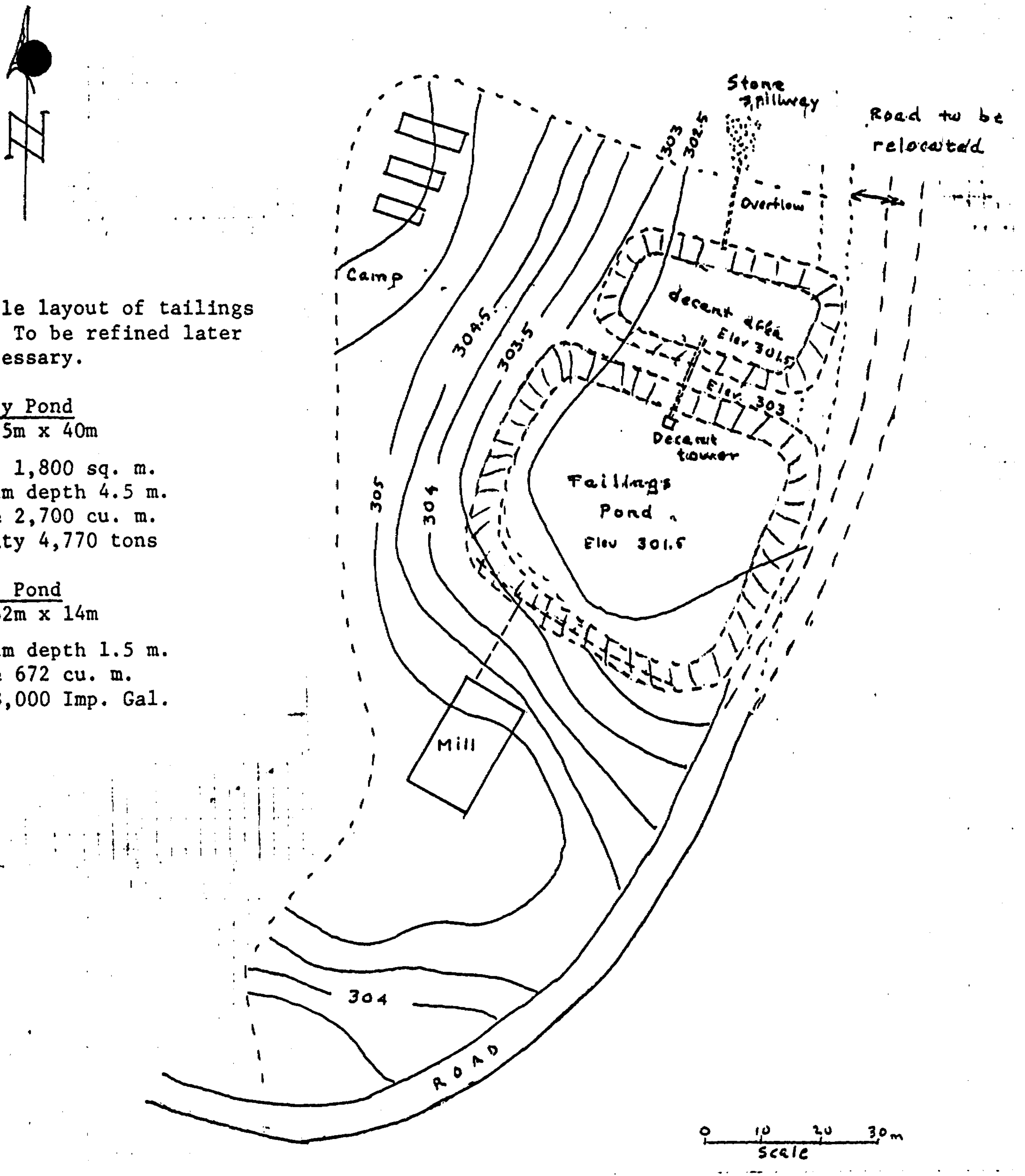
45m x 40m

rea: 1,800 sq. m.
Minimum depth 4.5 m.
olume 2,700 cu. m.
apacity 4,770 tons

ecant Pond

32m x 14m

Minimum depth 1.5 m.
olume 672 cu. m.
148,000 Imp. Gal.



Contour Interval 0.5m

PRINCETON RESOURCES CORPORATION

BISSET CREEK PROPERTY
MARIA TWP, ONTARIO

MILL SITE AND TAILINGS POND AREA

WILLIAM HILL MINING CONSULTANTS LIMITED

SCALE	DATE
1:1000	Oct. 1985

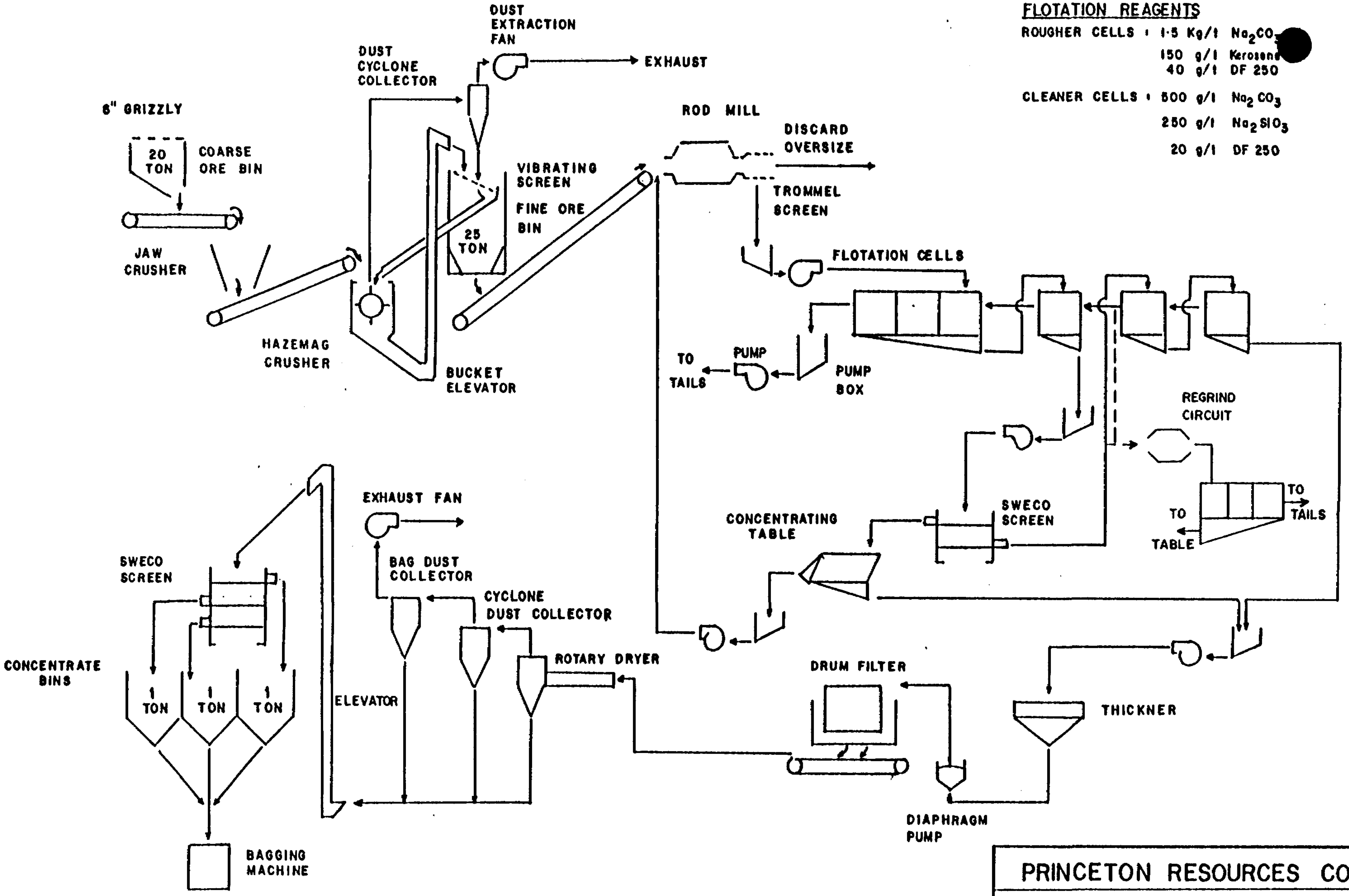


FIGURE 5

FLOTATION REAGENTS

ROUGHER CELLS :	1·5 Kg/t	Na_2CO_3
	150 g/t	Kerosen
	40 g/t	DF 250
CLEANER CELLS :	500 g/t	Na_2CO_3
	250 g/t	Na_2SiO_3
	20 g/t	DF 250

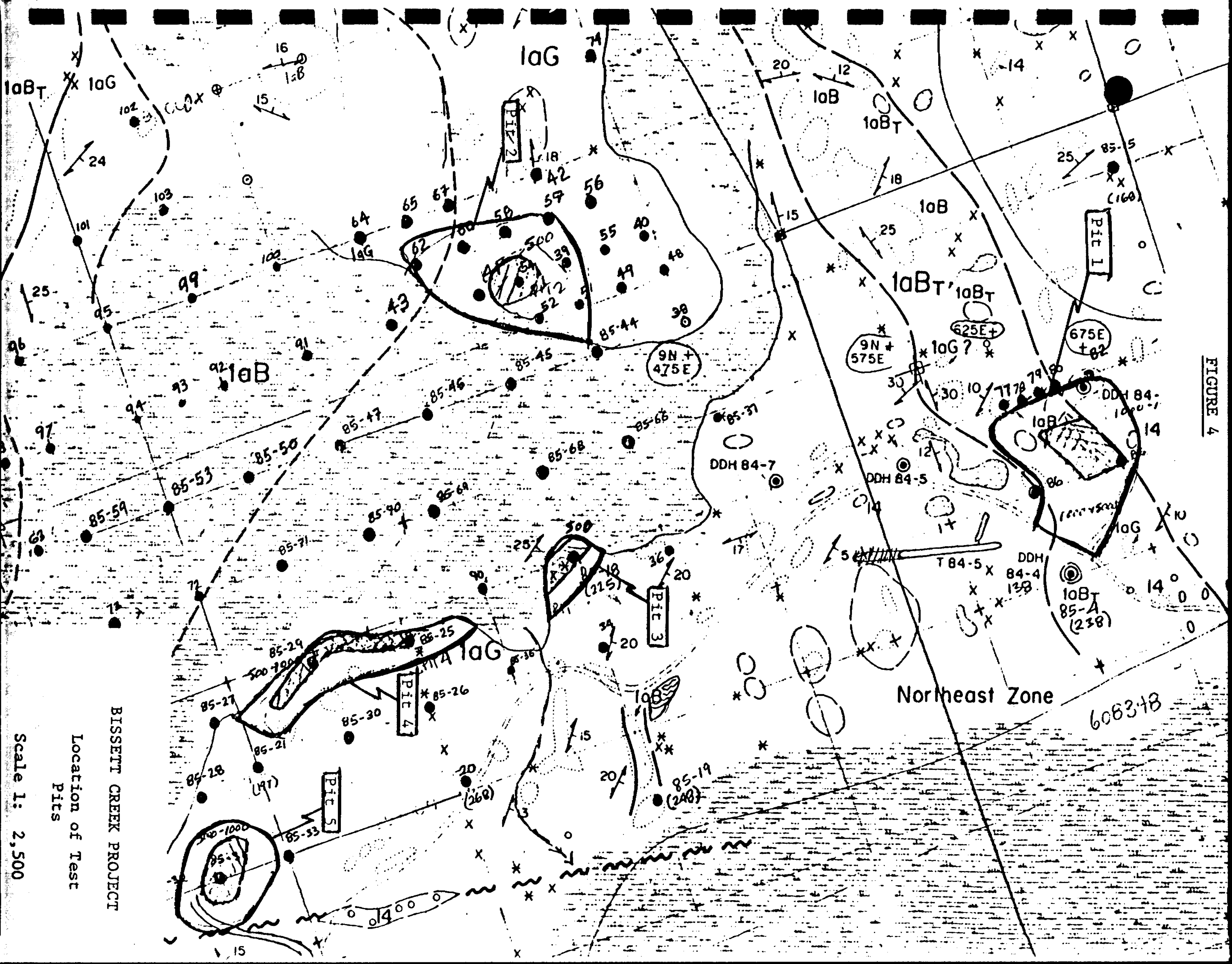
PRINCETON RESOURCES CORP.

MARIA TWP. - BISSETT AREA
GRAPHITE PILOT PLANT
BENEFICATION FLOWSHEET

WILLIAM HILL MINING CONSULTANTS LIMITED

FROM RICHARD F. DOWN OCT. 1985

FIGURE 4



BISSETT CREEK PROJECT

Location of Test Pits

Scale 1: 2,500

PRINCETON RESOURCES LTD.

A PROPOSAL FOR ASSISTING WITH THE BISSETT CREEK EXPLORATION AND PILOT MILL PROJECT

OCTOBER 1985

WILLIAM
HILL MINING
CONSULTANTS
LIMITED

PRINCETON RESOURCES LTD.

A PROPOSAL FOR ASSISTING WITH THE BISSETT CREEK EXPLORATION AND PILOT MILL PROJECT

October 1985

Prepared By

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TABLE OF CONTENTS

1.0 INTRODUCTION

This proposal and scope of work is submitted by William Hill Mining Consultants Limited (H.M.C.) in response to a verbal request from D. Copeland of Princeton Resources Corp. (Princeton) given on October 18th, 1985.

It is understood that H.M.C.'s role in the field will be one of owner's representative who will ensure that Princeton's intentions are carried out. The reports and estimates are to be written with H.M.C. in the role of an Independent Consultant.

This proposal as well as setting out H.M.C.'s understanding of the scope of services also deals with the scheduling, manning and estimated cost of the work. Resumes of H.M.C.'s personnel, who may be employed on the job, are included.

/2.

2.0 SCOPE OF THE SERVICES

2.1 Introduction

As noted previously H.M.C.'s role in the field shall be that of owners representative, who will work with the existing contractors, consultants and Princeton personnel to ensure that Princeton's intentions are carried out within the limited amount of time available. H.M.C. will also provide liaison where necessary between the groups and will ensure that Princeton's management are kept fully informed as to progress at the site.

H.M.C.'s understanding of Princeton's requirements are that within the time frame that is allowed for the work the following will have been completed, or made available:

1. A stockpile of some 60-100 tons of flake graphite grading 85-90% graphitic carbon, which has been produced by mining and milling a bulk sample from the deposit.

2. An independent estimate of the ore reserves outlined in the part of the deposit that has been explored.

3. An independent estimate of the capital and operating cost of a suitably sized plant that could mine and beneficiate the material in the deposit.

2.2 Preparatory Work

This work will include the preparation of a work schedule and an estimated schedule of expenditures broken down by month and ordered in such a way that it can be directly compared to the schedule of expenditures shown in the Memorandum offering the flow-through shares of Princeton.

A detailed schedule of the H.M.C. personnel will also be prepared to complement the one prepared for this proposal.

2.3 Environmental and Permitting Work

This work is presently ongoing and the initial descriptions of the project have been delivered and discussed with the relevant authorities. The future work will be to complete an environmental base line study and to ensure that the necessary permission for the project is given.

An additional part of this work will be to review the other permits that are required by the Province and to ensure that the proper applications are made and the permits obtained in a timely fashion.

2.4 Geology and Ore Reserve Estimates

This work will include a site visit by an H.M.C. geologist who will prepare an independent review of the project together with any recommendations that are believed to be relevant to the work in hand. The remainder of the work will be done out of the Toronto Offices, largely by technicians.

The work will consist of:

(a) The site visit and discussions with Princeton's consulting geologist.

(b) The preparation of recommendations for further, or other exploration work.

(c) The preparation of recommendations for ensuring that the independent estimate of the ore reserves is valid.

(d) The execution of some selected geostatistics, specifically the preparation of variograms.

(e) The preparation of the necessary plans and/or sections and the calculation of a preliminary ore reserve estimate for the area that has been drilled and explored.

2.5 Pilot Mill and Plant Construction

This work will be carried out by a member of H.M.C.'s staff who will stay on site and act as Princeton's representative. The intent is that the construction of the plant will be monitored and properly expedited. The work shall include the following specific items:

(a) Expediting progress.

(b) Monitoring and reviewing the work.

(c) Ensuring that Princeton's executives and staff are fully cognizant of progress, and possible problems and likely delays.

(d) Ensuring that the work schedule is met and improved on, as much as is possible.

(e) Ensuring that the environmental aspects of the work are dealt with in a satisfactory manner and that the relevant regulations are adhered to.

(f) Ensuring that the agreed on specifications for the plant are met, or exceeded.

2.6 Mining

This work will largely be carried out by H.M.C.'s site representative, but it will in all probability require a site visit by a more senior member of H.M.C.'s staff. The work will include the following specific items:

(a) Ensuring that the proper areas are mined, so as to obtain mill feed that is representative of the deposit, and at the required head grade.

(b) Expediting the progress of the excavation.

(c) Ensuring that the proper safety precautions are taken and that the environmental aspects are dealt with.

(d) Ensuring that a proper and/or reasonable head sample of the mined material is taken.

2.7 Metallurgical Testwork

H.M.C. personnel will act mainly as liaison between Princeton and its established consultants and metallurgical laboratories. The work will include:

(a) Ensuring that proper testwork is carried out, so that the pilot plant procedures can be established reasonably well.

(b) Ensuring that sufficient testwork has been done to so as to be able to upgrade the graphite concentrates, if this is found to be necessary.

(c) To ensure that the trade off between concentrate grade and recovery can be established.

(d) To ensure that sufficient testwork is done to satisfy the environmental authorities and that the planned waste disposal procedures are acceptable.

2.8 Milling Operations

A member of H.M.C.'s staff will act both as site representative and will also supplement and reinforce Princeton's metallurgical consultant whenever necessary. The work will include:

(a) The provision of overall technical assistance and overview of the milling program.

(b) Ensuring that the concentrate is of acceptable grade and quality.

(c) Ensuring that there are no environmental concerns with the operation and that the waste is disposed of in an acceptable fashion.

(d) Ensuring that the project is completed in a timely fashion and the availability of equipment is maximized.

(e) Ensuring that Princeton's executives and staff are provided with sufficient information as to the progress of the work.

2.9 Studies and Reports

H.M.C. will provide two reports covering the exploration and pilot plant work, as follows:

(a) An Independent Consultant's year end progress report, which will include the following material:

- A description of the progress to date.
- A summary of the expenditures to date.
- A review of the committed funding to the end of the program.

(b) A preliminary pre-feasibility study, which as a minimum would only include the consideration of the following aspects:

- An ore reserve estimate, which has already been described under geology and exploration.
- The choice of the proper rate of mining.
- A capital and preproduction cost estimate.
- An operating cost estimate.
- A consideration of the economics of producing graphite from the deposit.

3.0 EXECUTION OF THE WORK

3.1 Organization of the Work

H.M.C. will carry out the work with a small team from its offices at 80 Richmond Street West, Suite 705, Toronto, Ontario. The organization is intended to reflect the importance of close liaison between H.M.C. and Princeton.

A Team Manager will direct all activities and have responsibility for the control of the schedule, technical performance and productivity of the team. Resumes outlining the qualifications and experience of the team have been included in the last section.

The key members of the team are:

P.H. Cowdery	Team Manager	Responsible for the proper liaison with the client and direction of the work.
W. Hill	Alternate Team Manager	Responsible for overall quality control.
D. Crossley	Site Representative	Will carry out all environmental work, permitting and direction of work at site.

T. Bottrill	Senior Geologist	To review and comment on geology and exploration work.
M. Taylor	Geologist	Responsible for the calculation of ore reserves.
G.L. Shadford	Metallurgist	To provide technical direction for the pilot mill operation supplementary to Princeton's metallurgical consultant.

3.2 Implementation of the Work

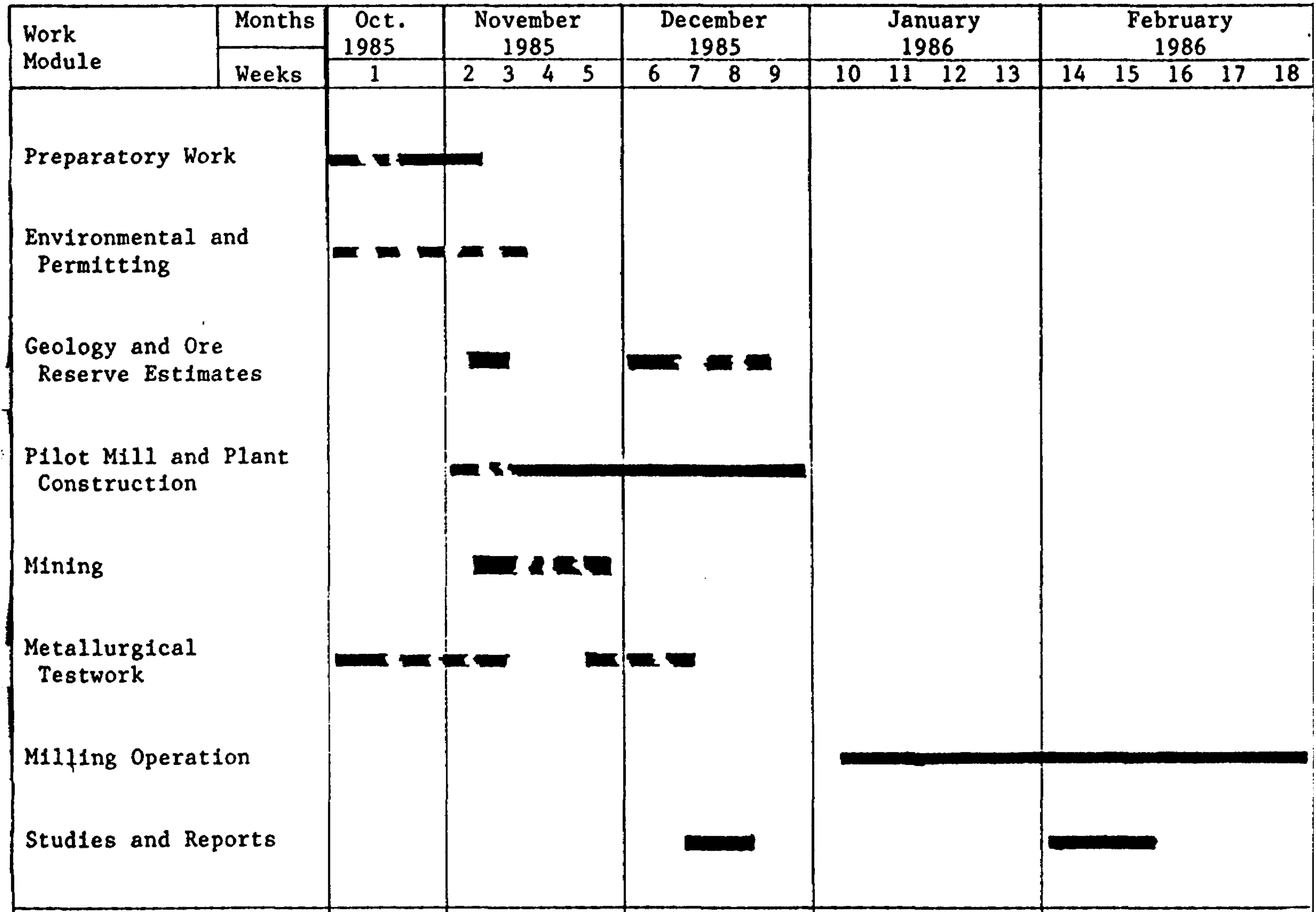
As noted previously the environmental base line and permitting work is under way. The other aspects of the work will be started as soon as the relevant data is reviewed in the case of the geological review and as called for by the schedule, for the other aspects. The current schedule directly follows this section as Plate I.

3.3 Cost Estimate

The estimated cost of the H.M.C. services is dependant to a certain extent upon the progress at site, but a best estimate, which is based on present knowledge, has been included here as Plate II. The total cost of services, excluding the initial environmental work, but including labor and out of pocket expenses, is estimated to be $89,425. The breakdown of these costs, estimated month by month, has been set out in the second half of Plate I.

PLATE I

WORK SCHEDULE AND H.M.C. MONTHLY BUDGET



	Oct. 1985	November 1985	December 1985	January 1986	February 1986
Estimated H.M.C. Costs					
Labour	11,500	13,200	16,125	15,025	13,125
Expenses	1,000	5,400	12,775	1,000	2,000
TOTAL	12,500	18,600	28,900	16,025	15,125

/12.

PLATE II

DETAILED BREAKDOWN OF ESTIMATED COSTS

Item	Estimated Man Days	Unit Rate	Cost
A. H.M.C. LABOUR			
1. Preparatory Work			
Initial Site Visit			
Schedule of Work and Monthly Budget	10	$575	$ 5,750
Schedule of H.M.C. Personnel	1	$575	$ 575
2. Environmental and Permitting Work			
Environmental Baseline Work	5	$425	$ 2,125
Other Permitting	5	$425	$ 2,125
3. Geology and Ore Reserves			
Site Visit and Recommendation	1	$575	$ 575
	7	$475	$ 3,325
Preparation for and Review of the Geostatistics	4	$350	$ 1,400
Preparation for and Calculation of Ore Reserves	3	$575	$ 1,725
	10	$350	$ 3,500
4. Pilot Mill and Plant Construction			
On Site Supervision	43	$325	$13,975
5. Mining			
Site Review	3	$575	$ 1,725
On Site Supervision	Included in with Const.		
6. Metallurgical Testwork			
Review of Work Scope	4	$575	$ 2,300
Continued Liaison	3	$575	$ 1,725
7. Milling Operations			
Supplementary Technical Assistants	5	$575	$ 2,875
On Site Supervision	53	$325	$17,225
8. Studies and Reports			
Year End Progress Report	7	$575	$ 4,025
Pre-feasibility Study	7	$575	$ 4,025
Sub-Total H.M.C. Labour			$68,975

Item	Estimated Man Days	Unit Rate	Cost
B. OUT OF POCKET EXPENSES			
1. Preparatory Work			
Initial Site Visit		$400	$ 400
2. Environmental and Permitting Work			
1 Trip to Site		$400	$ 400
2 Misc. Trips		$250	$ 500
Allowance for Additional Testwork			$ 2,500
3. Geology and Ore Reserves			
2 Trips to Site		$400	$ 800
Geostatistics			$ 7,500
Drafting of Ore Reserve Plans and Sections			$ 3,000
4. Pilot Mill and Plant Construction			
4 Trips to Site		$400	$ 1,600
5. Mining			
1 Trip to Site		$400	$ 400
6. Metallurgical Testwork			
3 Trips to Laboratories		3 @$300 1 @$175	$ 1,075
7. Milling Operations			
5 Trips to Site		$400	$ 2,000
8. Studies and Reports			
Misc. Drafting			$ 1,000
Allowance for Copying and Word Processing			$ 1,000
Sub-Total Out of Pocket Expenses			$22,175
TOTAL COST OF WORK			$89,425

/14.

4.0 WILLIAM HILL MINING CONSULTANTS LIMITED - QUALIFICATIONS AND EXPERIENCE

4.1 Personnel

The firm of William Hill Mining Consultants Limited is comprised of a strong staff of seasoned professionals with many years of substantial experience in the geological, mining and metallurgical disciplines, both in engineering and project management functions. Their professional record includes work in most countries of the world and with most metal and mineral commodities. The personnel selected for this work program have particular experience in project management and feasibility studies.

4.2 Related Project Experience

William Hill Mining Consultants Limited has worked on many mining projects in the last few years and a list of some of the more relevant ones follows:

Superior Graphite, (1977)

The work included the design of an open pit together with estimates of capital and operating costs for a proposed graphite mine in Saskatchewan.

Breakwater Resources Ltd., (1982)

The work consisted of a study which included an economic evaluation of three graphite properties in Quebec and Ontario, as well as an overview of the graphite market and mining scene.

/15.

Cullaton Lake Gold Mine Ltd., (1980-1982)

The work included the execution of the pre-feasibility and feasibility studies. H.M.C. acted as the project manager during the mine development and mill construction phases of the project. H.M.C. commissioned the environmental studies and obtained the necessary permitting for the operation.

Asamera Minerals (U.S.) Inc., (1982-1983)

H.M.C. carried out the conceptual mining studies and a pre-feasibility study. H.M.C. then completed the initial development of the metallurgical test program and mill flow sheet and in addition completed the final feasibility study for the project.

4.3 Work Experience of the Team

Immediately following this section the resumes of the following members of William Hill Mining Consultants Ltd. have been included:

W. Hill
P.H. Cowdery
G.L. Shadford
T. Bottrill
D. Crossley
M. Taylor

RESUMES

WILLIAM HILL
President
William Hill Mining Consultants Limited

QUALIFICATIONS AND EXPERIENCE

PROFESSIONAL SKILLS:

Management:	Continuously employed in the mining industry since 1949 and first attained Mine Manager's position in 1963 in charge of a one million ton per year iron ore mine involving all aspects of operation including administration, production, concentrator, schedules, transport and shipping of ore. Later in the same iron mining company continued as Director of Engineering of the entire operation involving 4.5 million tons of iron ore shipments per year. Since 1968 in the consulting practice, which was taken over by William Hill Mining Consultants Limited; started as Vice President and continued as President since 1980.
Operations:	Work as a consultant or as an employee of a producing company has involved work with at least 25 minerals in at least 30 countries, including open pit and underground mining and leaching of ores in place and on surface dumps.
Engineering and Construction:	The work involved mine development such as shaft sinking, headframes, declines and development and stope preparation; construction on such projects as concentrators, long conveyorways, railway facilities and seaport loadout terminals. The foregoing work including acting as Project Manager or as owner's representative.
Estimating:	Work in the past 20 years has involved extensive cost estimation, as an integral part of evaluations of properties resulting in qualifying reports or feasibility studies which have been used for the purposes of bank financing of major projects.

William Hill

ACADEMIC QUALIFICATIONS:	B.A. Sc. Mining, University of Toronto, 1958.
PROFESSIONAL AFFILIATIONS:	Association of Professional Engineers of Ontario Canadian Institute of Mining and Metallurgy American Institute of Mining and Metallurgical Engineers Designated Consulting Engineer of the A.P.E.O.
LANGUAGES:	English and Spanish, fluent. French and Portuguese, working knowledge.

EMPLOYMENT RECORD:

1968 - Present	William Hill Mining Consultants Limited and predecessor companies.	
	1980 - Present:	William Hill Mining Consultants Limited President.
	1973 - 1980	William Hill, Mining Engineer, Proprietor.
	1968 - 1973	Prospection Limited, Vice President and Senior Associate of C.C. Huston & Associates.
1963 - 1968	Compania Minera Santa Fe (subsidiary of PHIBRO-Solomon Corporation).	
	1967 - 1968	Director of Engineering.
	1963 - 1967	Mine Manager.
1958 - 1963	Cerro de Pasco Corporation.	
	1961 - 1963	General Pit Foreman.
	1958 - 1961	Mine Foreman.

William Hill

1957	Roche Mines Ltd., Toronto, Exploration field party head.
1956	Eldorado Mining & Refining Ltd., Uranium City, stope miner.
1955	Campbell Red Lake Mines Ltd., Red Lake, Ontario, underground miner.
1953	International Nickel Co. Ltd., Sudbury, Ontario, convertor puncher.
1952	Bagamac and Redwood Mines Ltd., Gowganda, Ontario, assistant in exploration party.
1951	International Nickel Co. Ltd., Sudbury, Ontario, labourer in nickel concentrator.
1949	Roche Long Lac Gold Mines Ltd., Toronto, exploration labourer in uranium project, Lake Superior area.

PETER H. COWDERY
Senior Mining Engineer
William Hill Mining Consultants Limited

QUALIFICATIONS AND EXPERIENCE

PROFESSIONAL SKILLS:

Management: Had responsibility for the engineering and operation of a 2,000 t.p.d. underground cut and fill operation employing up to 350 employees with an annual budget of $3,500,000 (1968$); was a member of the management bargaining team for several contracts; resolved numerous grievances through contract procedures; initiated and controlled safety and training programmes which were successful in reducing the accident rate of the underground operations; successfully introduced management concepts recommended by the American Management Association; acted as front line supervisor at several mines throughout Canada.

Operations: Uranium, gold, lead and zinc, asbestos, limestone, sand and gravel, mining and engineering open pit and underground mining including shaft sinking, declines, blasting, conveying.

Estimating: Comparative cost studies for underground and open pit mining; mine capital, development and operating costs for several feasibility studies; major mine development including shaft sinking for a mine preproduction project; preparation of operating budgets for several mines ranging from 200-2,000 t.p.d.

Engineering: In charge of engineering departments of several mines; designed rockwork, prepared bid documents, evaluated bids and acted as owners' representative on several shaft sinking and deepening projects; carried out many studies on the choice of mine hoists, mine ventilation layout, mine expansion and contraction programmes; initiated long range mine planning procedures for a 2,000 t.p.d. underground operation; executed feasibility studies for gold and uranium mines; carried out research and measurement of uranium radiation in mines; designed conveyor and bin storage systems; carried out several ore

	reserve estimations; developed property evaluation techniques based on decision theory and used these techniques for evaluating several projects.
Statistical Analysis:	Made regular use of statistical techniques in ore reserve estimation and validation; used geostatistical techniques in ore reserve estimation.
Computer Work:	Carried out computer programming to develop a financial analysis package for use in long range planning; used many packaged financial and statistical programmes in the course of mine engineering work; familiarity with and used multivariable statistical analysis in geological exploration work.
Financial Analysis:	Carried out the financial analysis of precious metal property for use in a feasibility study.
ACADEMIC QUALIFICATIONS AND CONTINUING EDUCATION	B.Sc. Mining Engineering, Royal School of Mines, England 1949. General Management Course, American Management Association 1968. Management Science Certificate, University of Alberta, 1974. M.B.A., University of Alberta, 1976.
PROFESSIONAL AFFILIATIONS:	Association of Professional Engineers of Ontario.
EMPLOYMENT RECORD:	
1981 - Present	William Hill Mining Consultants Limited, Senior Mining Engineer. Planning and costing of various types of mining operations. Extensive experience in the application of risk analysis techniques to the evaluation of feasibility of production from mineral deposits and to the calculations of the present worth of mining companies. Application of statistical procedures to the calculation of ore reserves and resource estimates. Costing and evaluation of gold, uranium, copper, coal and graphite properties.

Peter H. Cowdery

1976 - 1980	Brinco Ltd., Montreal and Toronto. Senior Mine Engineer on various projects including: 1,500 t.p.d. uranium project in Labrador; 150,000 t.p.yr. fibre asbestos project in Quebec; 350 t.p.d. gold project in Manitoba; carried out several mine evaluations.
1960 - 1976	Eldorado Nuclear, 2,000 t.p.d. underground uranium operation, Saskatchewan. Positions held:

Supt. of Divisional Planning	6 years
Mine Superintendent	4-½ years
Chief Mine Engineer	3-½ years
Mine Captain	½ years
Planning Engineer	2 years
Mine Shift Boss	1 year

1957 - 1959	Eldorado Nuclear, 200 t.p.d. underground uranium operation, Port Radium, N.W.T., Chief Mine Engineer and Mine Shift Boss.
1956 - 1957	Lake Asbestos of Quebec Ltd., 5,000 t.p.d. asbestos open pit, Black Lake, Quebec. Mine Engineer on layout and planning of open pit, also on design work in the dredging and drainage work necessary in the preproduction phase.
1954 - 1955	Chibougamau Explorers Ltd., 500 t.p.d. copper-gold underground mine, Chibougamau, Quebec. Chief Mine Engineer during development phase of operation, responsible for development and stoping layout.
1954	Standard Lime Co., 1,000 t.p.d. open pit limestone plant, Joliette, Quebec. Plant Engineer in charge of design and planning work in quarries, sand pit and lime plant.
1953 - 1954	Montauban Mines Ltd., 500 t.p.d. lead-zinc underground mine, Montauban, Quebec. Chief Engineer in charge of all engineering work during production phase.

1952	Lamaque Gold Mines, 1,500 t.p.d. gold underground mine, Bourlamaque, Quebec. Mine Surveyor.
1951 - 1952	Cons. Candego Mines, 50 t.p.d. lead, zinc, silver underground and open pit mine, Gaspe, Quebec. Resident Engineer in charge of all engineering work on property in development and initial production phases.
1950 - 1951	Cons. Beattie Gold Mines, 1,000 t.p.d. underground gold mine, Duparquet, Quebec. Underground Shift Boss.
1949 - 1950	Hollinger Gold Mines, 5,000 t.p.d. gold mines, Timmins, Ontario, Miner.

PUBLICATIONS: "The Use of Multiple Regression Analysis in Estimating Turnover and Training Costs at Beaverlodge", C.I.M.M., July 1976.

"Systematic Early Evaluation Spurs Decisions", The Northern Miner, September 16, 1982.

LANGUAGES: English, French (working knowledge).

PERSONAL DATA:
Born: April 29, 1929, England
Citizenship: British/Canadian
Health: Excellent
Height: 5'8-½"
Weight: 164 lbs.
Marital Status: Married

GEORGE L. SHADFORD, P.Eng.
Metallurgist
William Hill Mining Consultants Limited

QUALIFICATIONS AND EXPERIENCE

PROFESSIONAL SKILLS:

Management:	First employed in the mining industry in 1950 and has performed senior functions such as Mill Superintendent, Project Manager, Project Engineer and Chief Chemist. Has had experience in the engineering field as Regional Manager, Manager of Minerals Processing, Project Manager and Process Engineer. Experience has included supervision of design, construction, commissioning and maintenance of metallurgical plants. Experience has also included labour-management bargaining and negotiation of contracts and in negotiation with senior people in industry and government both domestically and internationally.
Operations:	Experience has included operation and maintenance of metallurgical facilities in copper, lead, zinc and germanium extraction.
Estimating and Purchasing:	Both supervisory and direct experience in capital costs of grass-roots metallurgical plant and ancillary facilities, operating costs and the preparation of budgets and engineering and construction schedules. Experience includes specification of equipment and materials and purchasing and expediting.
Engineering and Construction:	Engineering experience has included the design of plant and ancillary facilities, plant expansion, modification and modernization. Construction experience has included the function of owner's Project Manager on a grass-roots copper mining project including the metallurgical plant, dock loading facilities, general and engineering offices and staff housing. Further experience was in the direct management of the construction of a complex pyrometallurgical/hydrometallurgical plant for the extraction of germanium and subsequently the supervision of the prime contractor when the plant capacity was doubled. Was also responsible for the construction of numerous smaller projects.
Financial Analysis:	Has participated in feasibility studies, cash flows and flows and profitability analyses.

eorge L. Shadford

ACADEMIC QUALIFICATIONS AND CONTINUING EDUCATION:	B.Sc., University of South Africa 1947. Postgraduate and Miscellaneous Courses: Business Administration, Chemical Engineering, Capital Investment Analysis, Management and Industrial Training.
PROFESSIONAL AFFILIATIONS:	Association of Professional Engineers of Ontario. Canadian Institute of Mining and Metallurgy. Canadian Mineral Processors.
LANGUAGES:	English and Afrikaans, spoken and written. A good working knowledge of Spanish, German and Dutch.

EMPLOYMENT RECORD:

1983 - Present

Ongoing participation in process development and design for the germanium extraction facility of Musto Explorations Ltd. at St. George, Utah.

Participation in the commissioning and start-up of the Tintaya Copper Project in Peru, an 8,000 metric ton per day copper concentrator facility in Peru, designed and built by SNC Inc.

Responsible for the metallurgical input of a training program for senior staff of the Indian Bureau of Mines at their headquarters in Nagpur, India. The program included training in the production of feasibility studies, process development and plant design. The Kendadih copper property was used to produce a model feasibility study. The total program was carried out under the auspices of the United Nations by SNC Inc.

Participation in the design of a pilot plant for the production of boron nitride fibres for The Electrofuel Manufacturing Company.

Review of the metallurgical operations of Atlas Consolidated Mining and Development Corporation of the Philippines with recommendations for improvement to operations and maintenance. This work was done under the auspices of William Hill Mining Consultants Limited.

Responsible for the metallurgical and surface facilities portion of the feasibility study of the Wenatchee Gold Project (Cannon Mine) of Asamera Inc. in Washington State, U.S.A. The work included capital and operating cost estimates and participation with the Asamera staff in process development at Hazen Research at Golden, Colorado. The complete study was done by William Hill Mining Consultants Limited.

Analysis of the metallurgical operations, including verification of production, of the Key Lake Uranium Mine. This work was done for the Bank of Montreal under the auspices of William Hill Mining Consultants Limited.

Analysis of various gold and base metal mining projects for Pecos Resources Ltd. and Lincoln Resources Inc. under the auspices of William Hill Mining Consultants Limited.

1981 - 1982 HSA Reactors Limited, Director, Engineering and Production.

A high-technology research and development company, also manufacturing electrochemical reactors for the recovery of metals from dilute waste streams.

1980 - 1981 The Cambrian Engineering Group Limited, Toronto. Manager, Ontario Region.

A consulting engineering company, supplying engineering, procurement, construction, research and development services to industry and government. Responsible for all aspects of management for both the Ontario Region and international operations.

1976 - 1980 The SNC Group, Toronto, Manager of Mineral Processing.

Project Manager of a team formed to provide capital cost estimates, financial and contract analysis and assistance in negotiation of a U.S.$400 Million contract between Minero Peru and a third party. Services were provided in Lima, Peru.

Consultant to an investment group in Argentina on the Sierra Pintada uranium project. Services were provided in Buenos Aires.

Participant in both a Federal Government and an Ontario Government trade mission to South America.

Project Engineer on the Mount Pleasant feasibility study for the production of tungsten and molybdenum concentrates by flotation and hydrometallurgical processes.

Project Engineer for the Rio Algom, Panel Mine uranium project, a 3,000 t.p.d. plant at Elliot Lake.

1973 - 1975 Granisle Copper Limited, British Columbia. Mill Superintendent.

Responsible for managing a 14,000 tons per day copper mill. This included budgeting, cost control, operations, maintenance and labour negotiations.

1971 - 1973 Palabora Mining Company Limited, South Africa. Project Engineer.

Participation in project engineering, feasibility studies and design of plant expansions and modifications to the company's extensive metallurgical operations. Assistant Concentrator Superintendent. Operation of a 60,000 tons per day copper and iron concentrator, employing 250 technical and operating personnel.

1968 - 1971 Cerro de Pasco Corporation, Peru.

Concentrator Superintendent, Cerro de Pasco - responsible for managing a 5,000 tons per day complex, lead-zinc mill. This included budgets, operations and maintenance, cost control, research and development and design and construction of improvements to the plant employing 280 technical and operating personnel. Responsible for improvements to the operation resulting in estimated savings of U.S.$2.5 million annually through reduced smelter charges. (In 1969, operating costs of the mill were U.S.$2.10 per ton of ore milled.)

Concentrator Superintendent, Casapalca - responsible for managing a 1,600 tons per day copper-lead-zinc mill.

[illegible]orge L. Shadford

1963 - 1968	Northgate Exploration Limited, Eire. Mill Superintendent, Gortdrum Mines Ltd. - owner's project manager for surface facilities during design and construction of these facilities by Bechtel Canada. Subsequently responsible for commissioning and management of the 1,500 tons per day copper milling facility. Chief Chemist, Irish Base Metals - engaged in the production activities of the Tynagh Mine.
1954 - 1963	Tsumeb Corporation Limited, South-West Africa. Germanium Plant Superintendent - participated in the development of an entirely new and original process for the recovery of germanium with recovery of arsenic. Subsequently responsible for the engineering design, construction and commissioning of a commercial plant. Managed the operating facility.
1952 - 1954	McLaughlan & Lazar, Chemical Engineers, Johannesburg, South Africa - consultant.
1950 - 1952	Positions with Kilembe Mines, Uganda and Rhokana Corporation, Zambia.

TERENCE J. BOTTRILL
Senior Geologist
William Hill Mining Consultants Limited

QUALIFICATIONS AND EXPERIENCE

PROFESSIONAL SKILLS:

Management	Employed as an economic geologist since 1968. Has held positions of increasing responsibility, including in 1981 the overall management of exploration programmes in North America for major European mining company, and in the mid 1970's, the overall on-site management of a major underground and surface exploration programme in Mexico for a Canadian-Mexican joint venture and
Research	Developed various exploration programmes, emphasizing the overall geological environment in providing guidelines for exploration through study of many different deposit types, including porphyry-copper, sedimentary, volcanogenic and vein deposits of base and precious metals. Experience in developing geostatistical techniques and computer applications in mineral exploration.
Staff Geology	Examination and evaluation of mineral properties and exploration proposals in many different parts of the world, including Canada, U.S.A., Mexico, Chile, Argentina and Philippines. In cooperation with other specialists carried out planning studies of different metals, countries and regions of North America for exploration or development of acquisition strategies. Evaluation and establishment of ore-reserves, and participation in feasibility studies for different deposit types.
Exploration	Involvement in programmes for various deposit types in numerous regions, including direct familiarity with most exploration techniques including geophysics and geochemistry at scales from mine detail to reconnaissance, and in most exploration environments. These projects resulted in the discovery of four new mineral deposits in Canada, the U.S.A. and Mexico. Specialized knowledge in geological environments of ore-formation and use of lithogeochemistry in alteration and pathfinder element prospecting.

[illegible]rence J. Bottrill

ACADEMIC QUALIFICATIONS:	B.Sc. Hons. Leicester University, 1968.
PROFESSIONAL AFFILIATIONS:	Association of Professional Engineers of Ontario. Geological Association of Canada (Vice-Chairman; Mineral Deposits Division 1984-85). Canadian Institute of Mining and Metallurgy. Institution of Mining and Metallurgy (U.K.); Chartered Engineer (U.K.). Prospectors and Developers Association. Association of Exploration Geochemists.
LANGUAGES:	English, fluent. Spanish, working knowledge.
EMPLOYMENT RECORD:	
1984 - Present	Senior Geologist, William Hill Mining Consultants Limited.
1983 - 1984	Independent Consultant to the Mineral industry.
1981 - 1983	Samim Canada Ltd. Chief Geologist: to establish, staff, supervise and manage exploration programmes in Canada and U.S.A.; represent company on joint-venture management committees; evaluation of properties, exploration proposals and advanced projects for exploration or acquisition; preparation of budgets, reports, etc.
1978 - 1981	Rio Algom Limited. Senior Research Geologist (1979 - 1981): management of in-house and contract research; development of new programmes and techniques including the Luminex system; assistance and advice to senior management on various aspects of entire corporate programme; property reviews; ore reserve calculations. Area Geologist, Eastern U.S.A., (1978 - 1979): evaluation of projects and properties in Eastern U.S.A.

Terence J. Bottrill

1970 - 1978	Inco Limited. Senior Staff Geologist and Chief Geologist, U.S.A., (1976 - 1978): development of exploration programmes in Western U.S.A. for base and precious metals, particularly in Nevada and California; evaluation of deep-sea manganese nodule programme. Project Geologist, Mexico, (1974 - 1976): development of programmes for Au-Ag exploration; property examinations; overall direct on-site management of underground and surface exploration, Guanajuato Au-Ag vein district. Staff Geologist, Toronto, (1970 - 1974): development of programmes, Keweenawan District, Michigan; development of porphyry-copper exploration, worldwide; various research and staff functions.
1968 - 1970	Geological Survey of Canada. Physical Scientist. Assistant to Head of Uranium programme; research on uraniferous conglomerates.
1967 (Summer)	Wheal Jane Mines, Cornwall, U.K. Exploration Assistant.

JOSEPH DANIEL CROSSLEY
Geologist
William Hill Mining Consultants Limited

QUALIFICATIONS AND EXPERIENCE

EDUCATION: University of Toronto
B.A.Sc. in Applied Geology, 1954

ASSOCIATIONS: Association of Professional Engineers of Ontario
Holder of Commercial Pilot Licence

EXPERIENCE:

1981 - Present William Hill Mining Consultants Limited

Cullaton Lake, Northwest Territories, Precambrian area - Developing underground gold mine. In charge of underground development, sampling, diamond drilling and plant construction.

Botanamo area, Venezuela - Supervising diamond drilling and geological mapping. Precambrian geology.

1979 - 1981 Prospection Limited

Cullaton Lake, Northwest Territories. In charge of surface diamond drill programme and underground development on Precambrian gold property.

Geological exploration for gold and base metals (copper and nickel) in the Norton Lake, Ontario area. Precambrian.

Joseph D. Crossley

1978 - 1979	Prospection (Oman) Limited Geological and geochemical exploration for copper. Geological mapping.
1976 - 1978	VHAM Consulting Engineers, Sarnia, Ontario. Field Engineer on construction projects.
1975 - 1976	Renzy Mines, Toronto, Ontario. Geological exploration on Precambrian shield area, Fiskenaesset, Greenland. Plane table mapping on chromite deposits. Sampling of chromite and ruby deposits.
1974 - 1975	VHAM Consulting Engineers, Sarnia, Ontario. Field Engineer on construction projects.
1971 - 1974	Lambton Engineering, Sarnia, Ontario. Municipal Engineering.
1966 - 1971	Elliot Exploration Service, Toronto, Ontario. 1967 - 1971 Chief Geologist for silver-lead-zinc mine at Darwin, California, U.S.A. Underground mapping, diamond drill supervision, mine surveying, ore reserve calculations. Some surface exploration and property examination including copper and tungsten. 1966 - 1967 Geological, geophysical and geochemical exploration, essentially for copper in Precambrian areas of Ontario and Quebec.
1961 - 1966	R.A. Geisler & Renzy Mines, Toronto, Ontario Geologist. Geological, geophysical and geochemical exploration for copper and nickel in Quebec (Precambrian). Diamond drill supervision. Geological, geophysical and geochemical exploration for silver, lead, zinc and copper in Nova Scotia (Palaeozoic).

Joseph D. Crossley

1960 - 1961	Lambton Engineering Co., Sarnia, Ontario. Municipal Engineering.
1959 - 1960	Mine Management Consultants, Mano River, Liberia. Field Geologist on iron property. Diamond drill supervision, sampling.
1956 - 1959	City of Sarnia, Engineering Department, Sarnia, Ontario. Municipal Engineering.
1955 - 1956	United Keno Hill Mines, Elsa, N.W.T. Mine Geologist in silver-lead-zinc mine (Palaeozoic). Underground mapping, diamond drill supervision, ore reserve calculations. Surface plane table mapping.
UNDERGRADUATE EXPERIENCE:	Reconnaissance geology, Precambrian shield. Mine geology in iron mine. Underground miner.

MARTIN JOHN TAYLOR
Geologist
William Hill Mining Consultants Limited

EDUCATION: Bachelor of Science, Geology 1970.
University of Bristol, England.

EMPLOYMENT RECORD:

1973 - Present	William Hill Mining Consultants Limited/Prospection Limited, Toronto - Geologist. Planning and operating exploration programmes from grass-roots to detailed drilling. Operating and supervising geophysical, geochemical, geological and drilling programmes for uranium, base and precious metals in Northern Ontario, Quebec and Montana. Also 1973 - 1976 in Sultanate of Oman on major copper/chromium exploration project. Ore reserve calculations and property evaluations.
1971 - 1973	Lynx-Canada Explorations Ltd., Toronto - Geologist. Diamond drill supervision with subsequent underground mapping in 250 t.p.d. zinc mine. Direction and operation of geochemical, geophysical and geological surveys in Grenville Province, Ontario. Discussions re option agreements, local public relations and lectures.
1970	Canadian Superior Explorations Ltd., Vancouver - Geologist.
June - Dec.	Exploration for base metals, N. Central, B.C.

PERSONAL STATISTICS:

Born: Ruislip, England, May 25, 1949
Marital Status: Married

CITIZENSHIP: Canadian and British.

PROFESSIONAL AFFILIATIONS: Canadian Institute of Mining and Metallurgy
Prospectors and Developers Association.

3 of 4

63.4697

NORTHWEST GEOLOGICAL CONSULTING LTD.
656 FORESTHILL PLACE, PORT MOODY, B.C., CANADA V3H 3A1
TELEPHONE (604) 461-8863

GEOLOGY AND 1985 DIAMOND DRILLING, BISSETT CREEK GRAPHITE PROPERTY

BY
UWE SCHMIDT, B.Sc., F.G.A.C.
Mar. 7, 1986

GEOLOGY AND 1985 DIAMOND DRILLING,

BISSETT CREEK GRAPHITE PROPERTY

MARIA TOWNSHIP, ONTARIO
NTS 31L/1E
LAT. 46° 08' N. LONG. 78° 04'

FOR

PRINCETON RESOURCES CORPORATION

BY

UWE SCHMIDT, B.Sc., F.G.A.C.

NORTHWEST GEOLOGICAL CONSULTING LTD.

Mar. 7, 1986

TABLE OF CONTENTS

APPENDICES

LIST OF ILLUSTRATIONS

1. SUMMARY AND RECOMMENDATIONS

The Bissett Creek graphite property of Princeton Resources Corporation is located in Maria Township, Ontario approximately 300 km north-northeast of Toronto. In 1984 the company outlined encouraging stratabound flake graphite mineralization in a Middle Precambrian calcareous quartzofeldspathic gneiss.

In 1985, an expanded program of mapping, diamond drilling and sampling was carried out from May to December. This work outlined 3.8 million tonnes of graphitic gneiss grading 3.05% graphitic carbon.

The company has also constructed a 100 ton per day pilot test mill on the property and has stockpiled a 4,000 tonne bulk sample at the mill site.

Test milling will establish the relationship of assay grade to large scale flotation recovery. Test work on the product is needed to determine its physical properties, flake size distribution and marketability.

To date less than half the known graphitic gneiss has been explored by diamond drilling. In particular, sections of the western limits of known graphite, north of the present drilling and a large area lying between the B and E zones have good exploration potential.

Exploration of these areas is recommended pending favourable mill test results.

GEOLOGICAL ASSOCIATION OF CANADA
UWE SCHMIDT
FELLOW

Respectfully submitted,

Uwe Schmidt, B.Sc., F.G.A.C.

2. INTRODUCTION

From May to December 1985 the writer carried out and supervised a program of mapping and diamond drilling on behalf of Princeton Resources Corporation on the company's Maria Township graphite property. This was the second year of the program, which began in in November 1984 as a limited mapping, trenching and diamond drilling project.

In 1985 additional drill targets were located and tested. However most of the drilling concentrated on the near surface western extension of the 1984 discovery zone. This western extension contains 3.8 million tonnes of graphitic gneiss grading 3.05% graphitic carbon and lies within a much larger tonnage averaging better than 1.5% graphitic carbon.

Analytical work carried out to date, suggests that a high quality large flake graphite product can be produced from this material. Additional test work is needed to determine the economics of the project and scale of operation.

To this end, the company erected a 100 ton per day pilot test plant on the property. A 4,000 tonne surface sample was mined and stockpiled at the test plant site. Construction of the pilot mill is nearing completion and milling should commence in the near future.

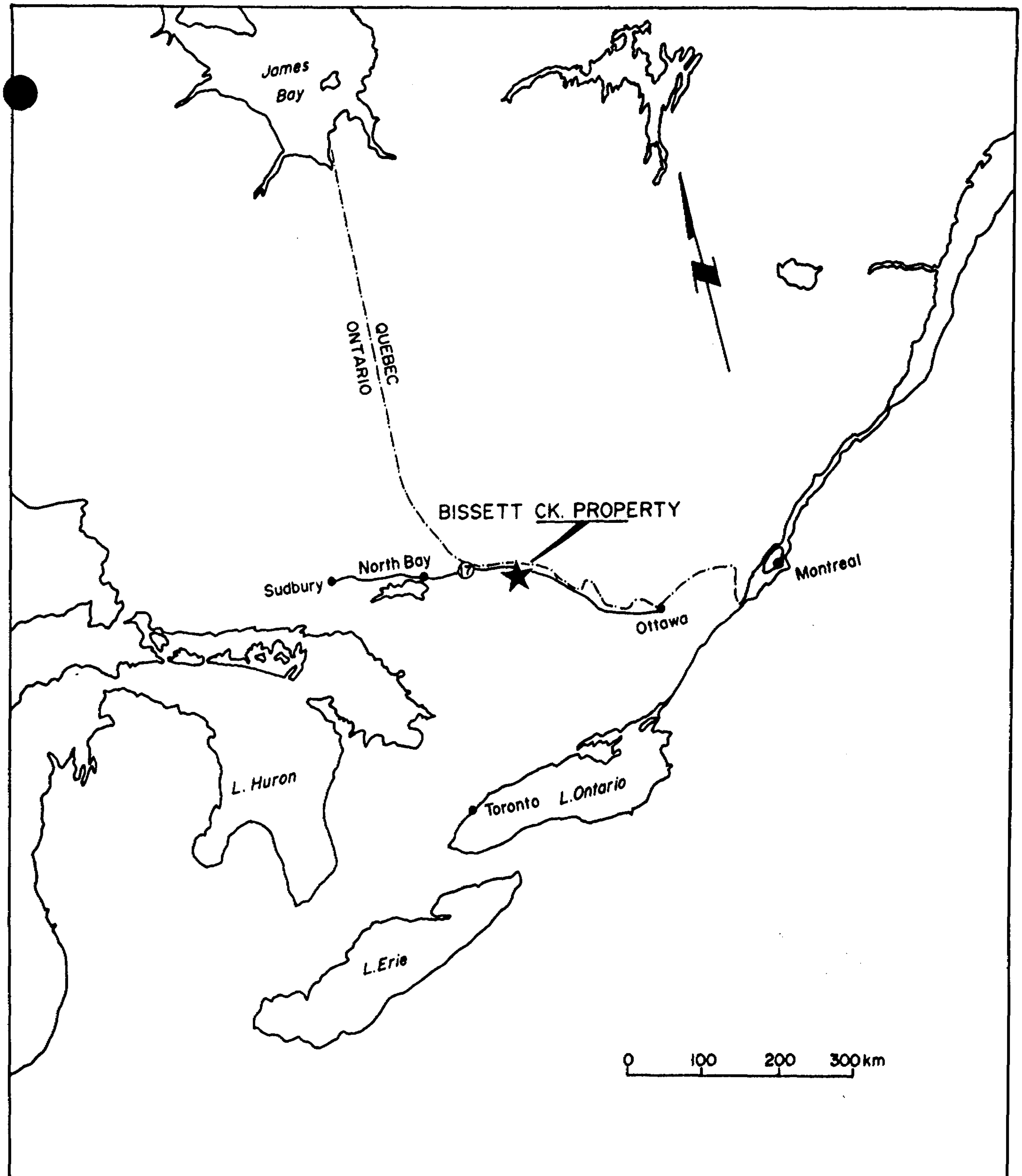
The writer's responsibilities were primarily geological and therefore this report is restricted to that area.

3. PROPERTY, LOCATION AND ACCESS

The Bissett Creek property of Princeton Resources Corporation is located in Maria Township, northern Ontario, approximately 300 km north-northeast of Toronto. The property consists of 49 contiguous unpatented mining claims the details of which are as follows:

LOT	CONCESSION	NORTH HALF	SOUTH HALF
19	5	EO 830700	EO 830701
	6	EO 800889	EO 830699
	7		EO 800888
20	5	EO 777268	EO 777267
	6	EO 777270	EO 777269
	7	EO 800887	EO 830698
21	4	EO 608369	
	5	EO 608376	EO 608368
	6	EO 777271	EO 777272
	7	EO 800886	EO 830697
22	4	EO 608349	EO 608372
	5	EO 608367	EO 608370
	6	EO 777274	EO 777273
	7	EO 800885	EO 830696
23	4	EO 608348	EO 608373
	5	EO 608350	EO 608371
	6	EO 830694	EO 830695
24	4	EO 608347	EO 608374
	5	EO 800880	EO 800881
25	3	EO 608302	
	4	EO 608306	EO 608346
	5		EO 800884
26	3	EO 608303	
	4	EO 608305	EO 608304
27	3	EO 608363	EO 608366
	4		EO 608362
28	3	EO 608364	EO 608365
	4		EO 608361
			TOTAL 49

The property is located south of the Trans-Canada Highway (Highway 17), approximately 53 km east of the town of Mattawa.



GEOLOGICAL ASSOCIATION OF CANADA
UWE SCHMIDT
FELLOW

PRINCETON RESOURCES CORPORATION

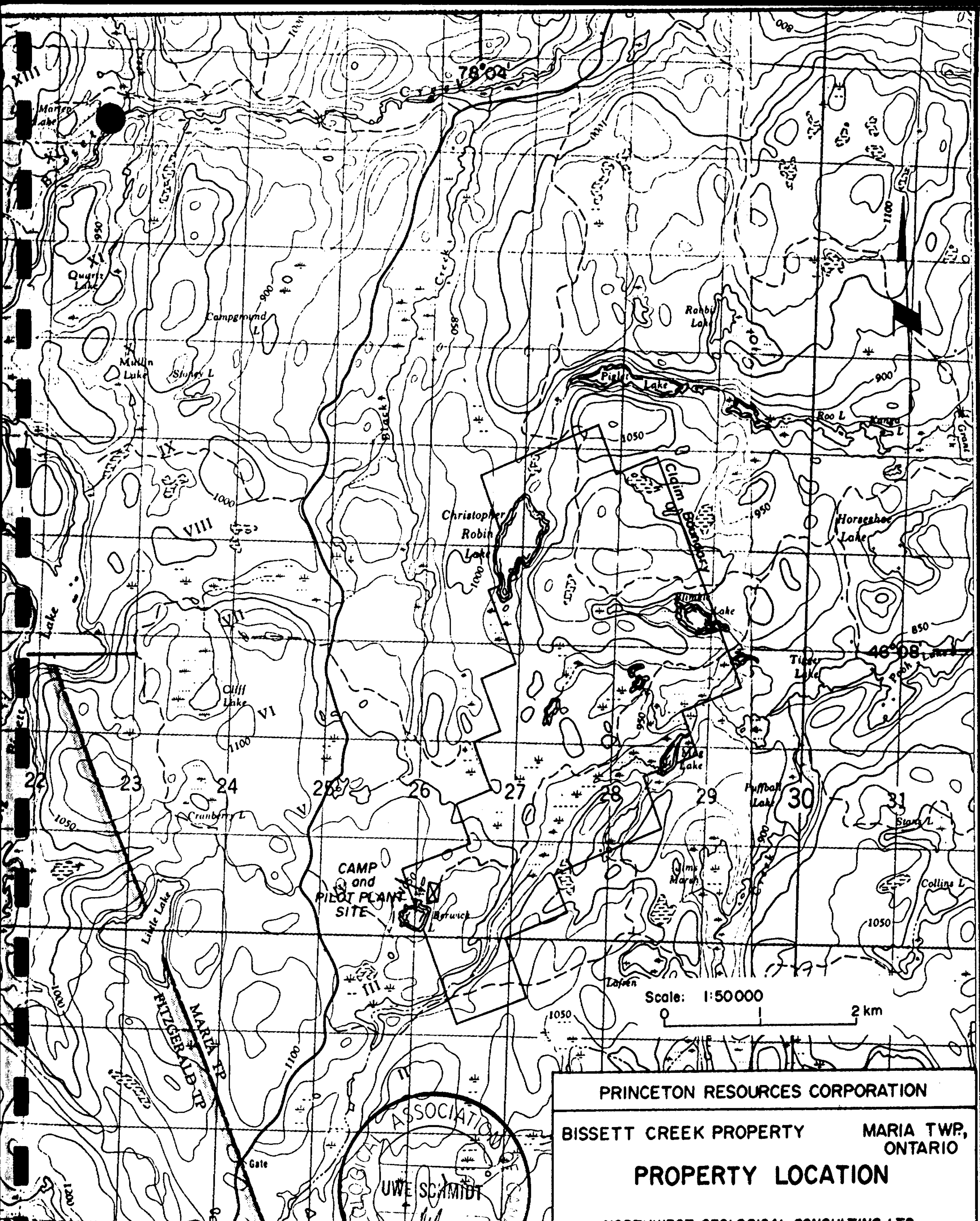
BISSETT CREEK PROPERTY

MARIA TWP.,
ONTARIO

LOCATION

NORTHWEST GEOLOGICAL CONSULTING LTD.
to accompany a report by U.Schmidt,

SCALE	DATE	N.T.S.	FIG. Nº
1:7,500,000	Mar., 1986	31L /1E	1



GEOLOGICAL ASSOCIATION OF CANADA
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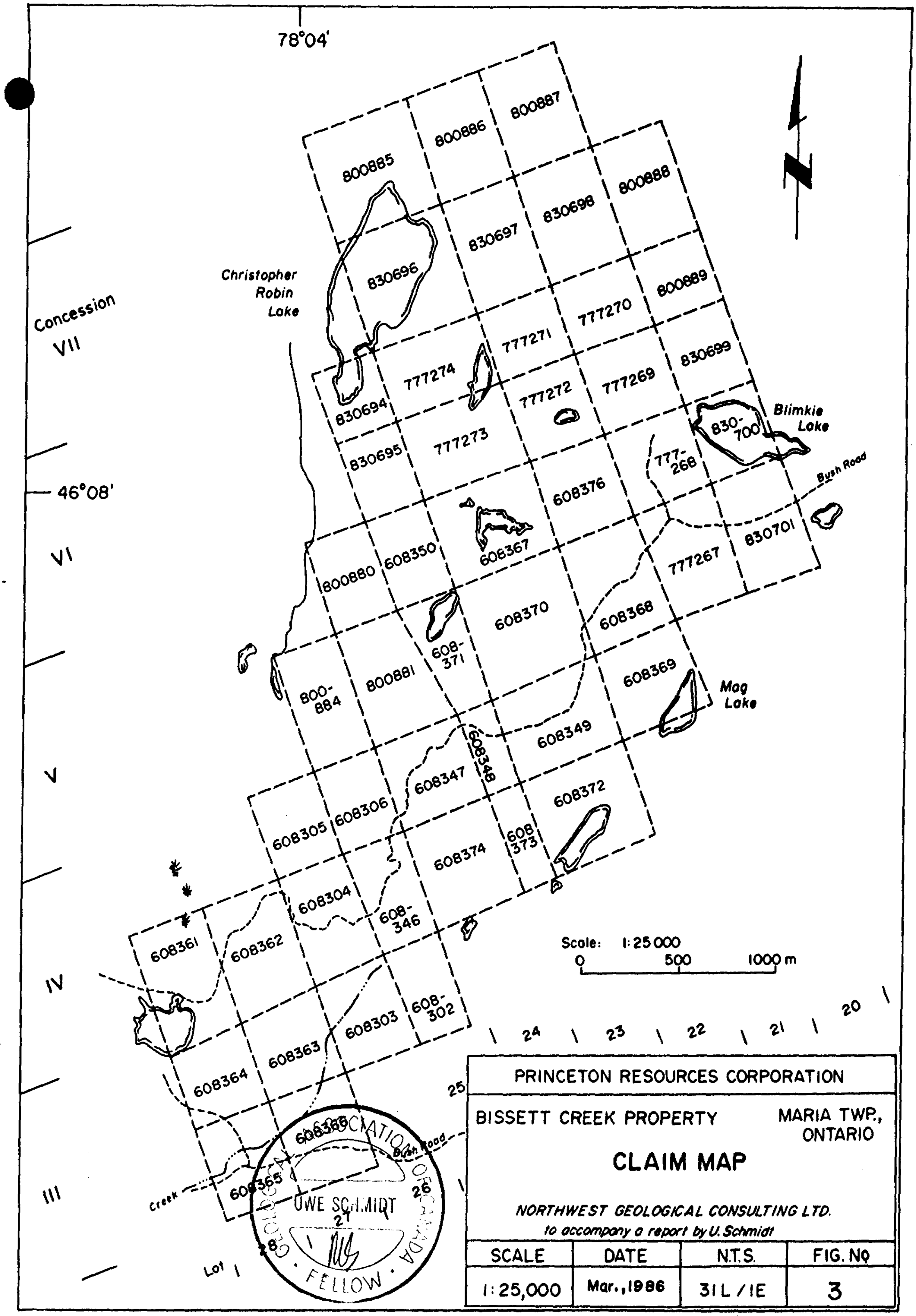
PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY — **MARIA TWP, ONTARIO**

PROPERTY LOCATION

NORTHWEST GEOLOGICAL CONSULTING LTD.
to accompany a report by U.Schmidt,

SCALE	DATE	N.T.S.	FIG. Nº
1: 50,000	Mar., 1986	31 L/1E	2



UWE SCHMIDT

GEOLOGICAL ASSOCIATION OF CANADA · FELLOW ·

PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY

MARIA TWP.,
ONTARIO

CLAIM MAP

NORTHWEST GEOLOGICAL CONSULTING LTD.
to accompany a report by U. Schmidt

SCALE	DATE	N.T.S.	FIG. NO
1:25,000	Mar., 1986	31 L / 1E	3

It is accessible by motor vehicle via the Trans-Canada Highway which, along this section, connects North Bay and Ottawa.

The turn-off from Highway 17 onto the Bissett Creek road is located 2 km east of the village of Bissett Creek. This gravel surfaced forestry haulage road heads south from the highway. The road leading to the claims joins the Bissett Creek road and heads east, approximately 13 km south of the highway. This winding bush road crosses the property boundary at Berwick Lake, a distance of 2 km from the Bissett Creek road. Just east of this location Princeton Resources has established a trailer base camp and constructed a pilot test plant. The road to camp has been upgraded to accommodate semi-trailer traffic. From the camp, the road traverses the claims in a northeasterly direction. The main area of interest lies north of this road approximately 2 km from the camp.

From the eastern limit of the property the road continues in a northerly direction to rejoin the Bissett Creek road.

In addition to good access, the property is located near a siding of the C.P.R. railway line, power transmission lines and a natural gas pipeline. These lie parallel to the Trans-Canada Highway.

4. PHYSIOGRAPHY

The property is located in rolling, hilly terrain at a local height of land. Elevations range from 900 ft. (275 m) to 1050 ft. (320 m).

A mixed forest of conifers and hardwoods cover the claims.

Stands of merchantable red and white pine occur near the western margin of the property.

Rock exposure is generally limited to road cuts, ridge crests and breaks in slope. Soil cover is variable and characterized as sandy, glaciofluvial deposits over ridge areas and thicker deposits of glacial stream and lake sediments at lower elevations. Low lying areas tend to be swampy and covered by a moderately thick growth of stunted cedar and swamp grasses.

Areas of hard resistant gneissic rocks have the least soil cover and are often barren. Graphite bearing areas occur in recessive weathering areas but are identified by red-brown soil colouration and by the presence of graphite flakes in the soil.

5. HISTORY

The property was first staked by F. Tagliamonte and associates in 1980. Donegal Resources Ltd. optioned the property in the same year, carried out a magnetometer survey, limited trenching and dropped the option in the same year. Hartford Resources Inc. acquired the claims in 1981 and in 1982 carried out a program of line cutting, VLF-EM surveying and trenching. D. G. Innes, consulting geologist, examined and reported on the property in the same year. In 1983 Hartford extended the claim block.

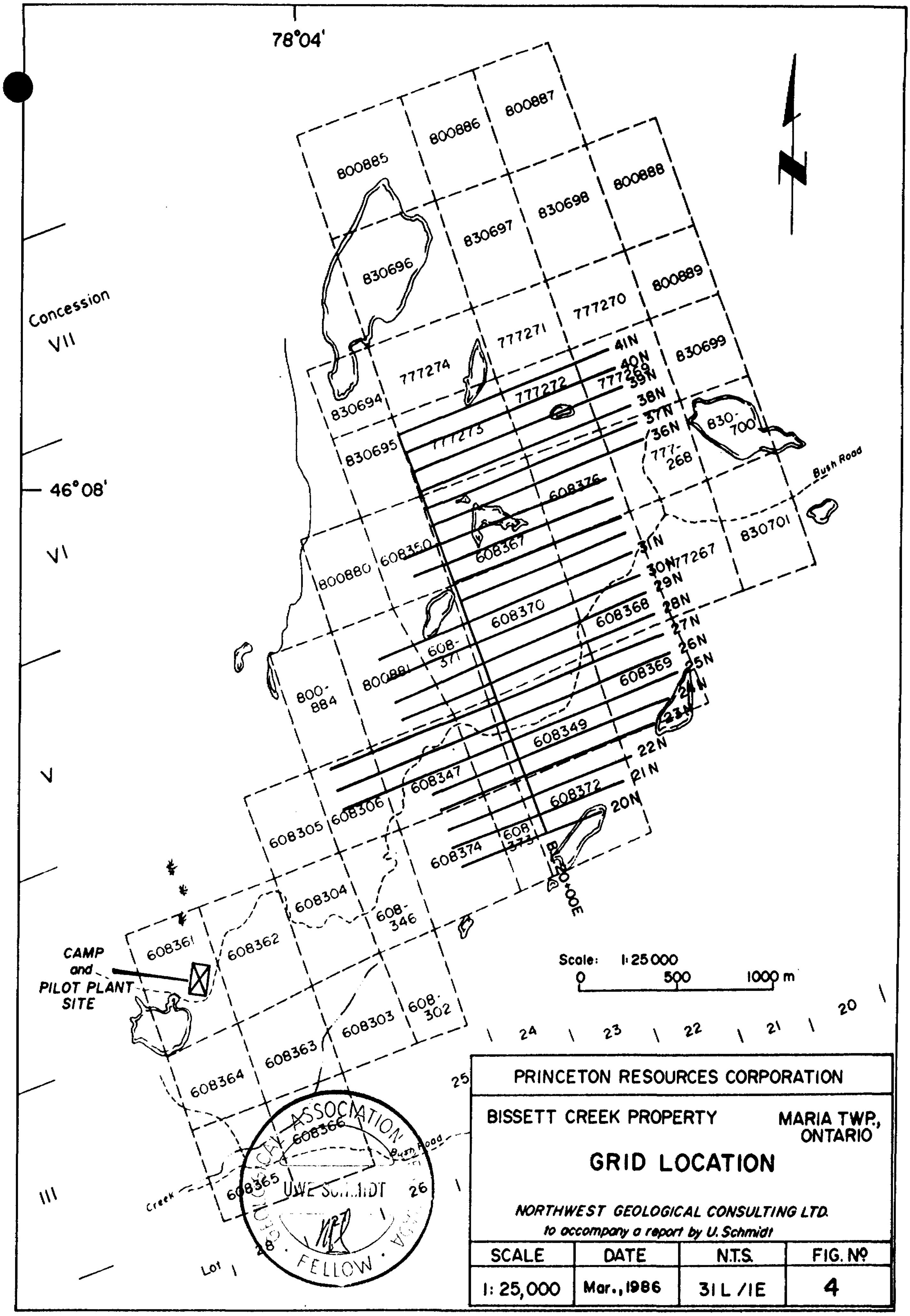
In 1984 Princeton Resources Corporation acquired 100% interest in the property through its acquisition of Hartford Resources Inc. Princeton Resources carried out a program of geological mapping, trenching, sampling and diamond drilling under the writer's supervision during November and December, 1984. Five trenches, having a total length of 285 metres were excavated, blasted, and sampled, and seven diamond drill holes with a total footage of 1041 ft. (317m), were completed in that time.

In 1985, Princeton continued exploration with an expanded program of geological mapping, magnetic survey, diamond drilling and bulk sampling. A trailer base camp was established and a pilot test plant was constructed at the camp site. Work on the claims has continued since May 1985. Presently, the pilot test mill is in the final stages of construction and the test milling of 4,000 tonnes of selected graphitic surface samples is scheduled.

6. SUMMARY OF WORK CARRIED OUT

In 1985 Princeton Resources continued their exploration work under the writer's direction. The 1985 program commenced with the extension of geological grid mapping over the centre of the property. (see fig.4 and 9). Mapping was carried out during May and early June. During this stage the writer was assisted by geologist Scott Frostad.

Diamond drilling commenced on July 5 and continued until the end of November. The earlier drilling was carried out with a skid mounted JKS 300 drill. In early October the JKS 300 drill was mounted on a Bombardier to allow diamond drilling in the swamp covered western northeast zone and a second drill, a Longyear 38, was brought onto the property on Oct. 15. This



PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY

MARIA TWP,
ONTARIO

GRID LOCATION

NORTHWEST GEOLOGICAL CONSULTING LTD.
to accompany a report by U. Schmidt

SCALE	DATE	N.T.S.	FIG. Nº
1: 25,000	Mar., 1986	31 L /1E	4

machine was used for detail drilling in two areas of the northeast zone. All core drilling was completed on Dec. 1.

In all, 99 vertical BQ diamond drill holes were completed in 1985. The total footage drilled 1985 was 16,836 (3,131 m). This total includes about 30 shallow unnamed test holes which were drilled to outline surface sample sites. The shallow hole footage totalled 348 ft. (106m). The combined 1985-86 drilling totals 17,881 ft. (5450 m) in 106 holes. A summary of the diamond drill hole statistics is appended to this report and all hole locations are shown on the Geology map (fig 9) at 1:2,500 scale.

Most of the drilling in 1985 concentrated on the near surface extension of the northeast zone. This area, referred to as the western northeast zone, is largely covered by swamp. Ninety-seven holes were drilled in the northeast zone. The majority were drilled at a 50 metre by 50 metre spacing. A detail grid spacing of 25 m by 25 m was used in one area and one fence of holes was drilled at a 10 m spacing to determine the continuity of the graphite horizons.

In January and February of 1986, percussion drill sampling was carried out in 5 areas and 4,000 tonnes were mined from 3 sites. This work will not be described in this report.

During the period from Oct. 2 to Dec.4 the writer was assisted by geologist Leo Lindinger and from Oct. 26 on, geologist John Scott joined the project. Additional support staff included: Bryan Belanger, geophysical operator and equipment operator, Rick Scanlon, mining technician and Dan

Charbonneau, sampler.

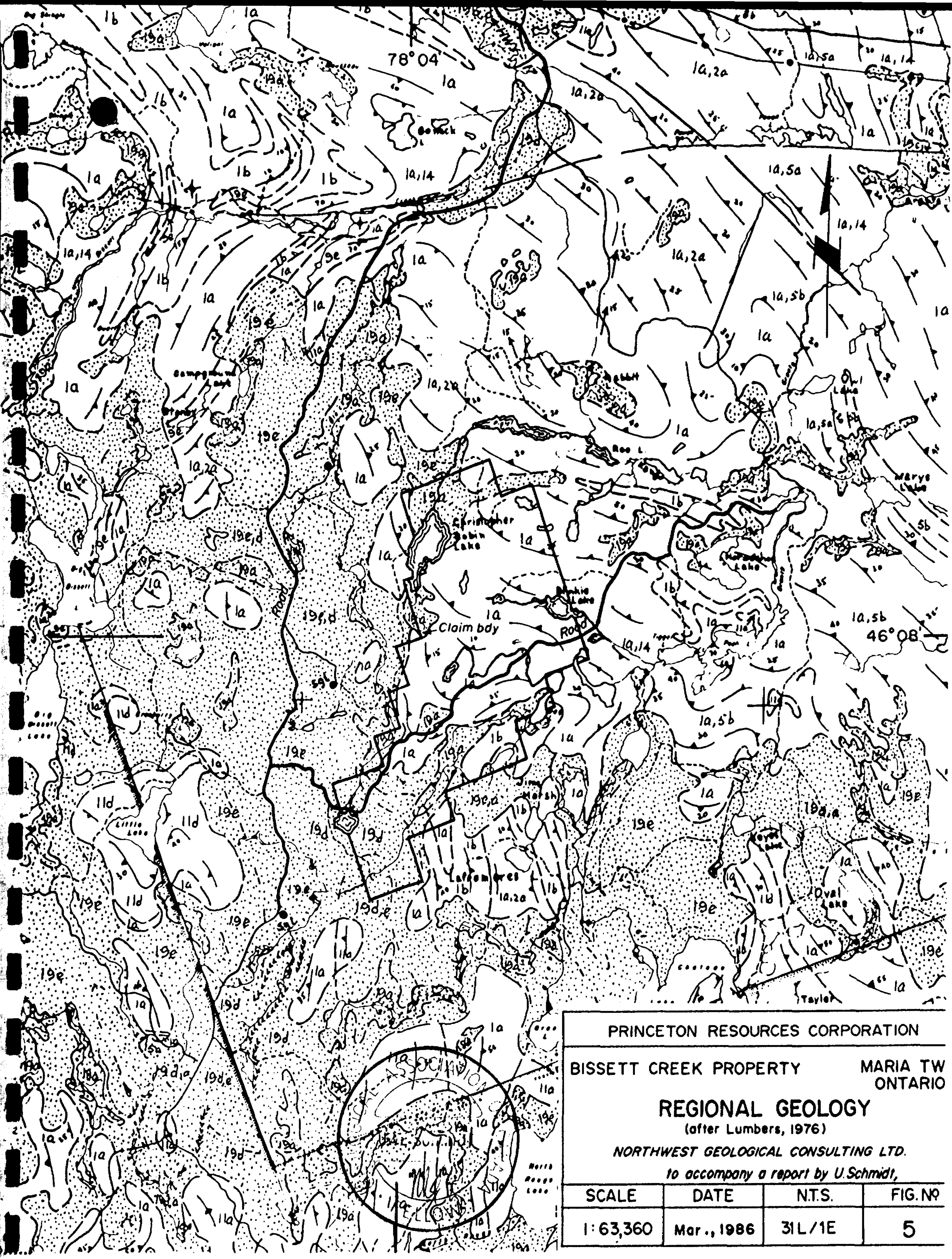
Grid line cutting and magnetometer survey were contracted to Rayan Exploration Ltd., of North Bay, Ontario. Diamond drilling was contracted to Triangle Diamond Drilling and pilot mill construction was carried out by Erana Mines Limited of Sudbury Ontario.

All 1985 diamond drill core is stored at the camp site.

7. REGIONAL GEOLOGY

The Bissett Creek property lies within the Ontario Gneiss Segment of the Grenville Structural Province of the Canadian Shield. This area is characterized by quartzofeldspathic gneisses which have undergone upper amphibolite facies grade of regional metamorphism with metamorphic temperatures estimated to have reached the 600-700° C range. The Ontario Gneiss Segment is distinguished from other areas of the same belt by having northwesterly dominant foliation and structural trends.

Mapping by the ODM (Lumbers, 1976) indicates that the property and the surrounding area are underlain predominantly by Middle Precambrian metasedimentary rocks. These are, coarse and medium grained, biotite-K-feldspar- quartz-plagioclase gneisses which are the high grade metamorphic equivalents of impure sandstone, arkose and argillite. These highly deformed and recrystallized rocks have been folded into northwest trending, northeast dipping recumbent folds which are refolded by large broad open folds. Greater than 10% of the rocks are composed of remobilized quartz and feldspar migmatite.



PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY

MARIA TW
ONTARIO

REGIONAL GEOLOGY

(after Lumbers, 1976)

NORTHWEST GEOLOGICAL CONSULTING LTD.

to accompany a report by U.Schmidt,

SCALE	DATE	N.T.S.	FIG.Nº
1:63,360	Mar., 1986	31L/1E	5

- LEGEND -

(after Lumbers, 1976, Ontario Division of Mines)

	Pleistocene and Recent
19	Glaciofluvial and lacustrine deposits
Late Precambrian	
11	Monsonitic to Granitic intrusive rocks.
14	Granitic pegmatite dykes
Middle to Late Precambrian	
5	Calc-silicate and garnetiferous gneiss
Middle Precambrian	
1	Migmatitic Biotite Gneiss (impure meta-sandstone)
1a	Medium grained biotite-K-feldspar-quartz-plagioclase gneiss
1b	Coarse grained biotite-K-feldspar-quartz-plagioclase gneiss

8. PROPERTY GEOLOGY

The property is predominantly underlain by Middle Precambrian aged meta-sedimentary rocks of unit 1a of Lumbers 1976. For mapping purposes this unit was divided into three sub-units: 1aG, graphitic gneiss; 1aBT, transitional gneiss and 1aB, barren gneiss.

Unit 1aG is the graphite bearing unit. It is a distinctive recessive weathering unit, commonly exposed along road cuts, hill tops, breaks in slope and on occasion in cliff faces. It is a calcareous, red-brown to pale yellow-brown weathering biotite-amphibole-quartzofeldspathic gneiss. Graphite, pyrite and pyrrhotite occur throughout. Graphite occurs in concentrations from 1 to 10% by volume and a flake size range of 1 to 6 mm in diameter. Pyrite and pyrrhotite occur in concentrations ranging from 1 to 5% but are rarely observed in outcrop because of weathering. It is the weathering of pyrite which gives this unit its colouration and recessive, friable character. A fresh surface of unit 1aG is rarely observed. In drill core the unit is pale to medium grey-green in colour.

On a property scale, 1aG occurs as a gently to moderately east dipping unit, sandwiched between an underlying and overlying barren, non-calcareous gneiss (unit 1aB). The western edge of the graphitic gneiss is truncated by erosion. The eastern limit of graphite is determined by the overlying barren gneiss contact.

A total thickness of at least 250 ft. (76m) has been demonstrated by drilling. Unit 1aG is uniformly mineralized by low grade flake graphite in the range of 1 to 2%, higher grades occur within and near the structural base of the unit. These bands range in thickness from 10 to 98 ft. (3 to 30 metres).

The limits of graphitic gneiss exposure form an irregular area with a north-south length of 2.1 km. East-west dimensions reach a maximum of 1.2 km. The graphitic gneiss exposures taper dramatically toward the north and south before being lost through structural displacement or erosion.

On a smaller scale, broad open folds are recognized and vertical faults have been recognized and inferred from drill core. These faults have easterly and east-northeasterly strikes and occur at intervals of 200 to 250 metres. Their effect has been to rotate uniformly dipping blocks around vertical axes. Displacement across the faults appears to minor.

Unit 1aB, barren gneiss is a pale to medium grey resistant weathering unit. Bodies of 1aB often occur as steep-sided outcrops. In general this unit is darker and commonly contains red garnet. In outcrop several varieties of barren gneiss are recognized. These are pale to medium grey biotite-amphibole-quartzofeldspathic gneiss. Amphiboles are dark green to black in comparison to the predominately pale green amphiboles of the graphitic gneiss. Occasional biotite rich mafic bands occur. Pink biotite-quartzofeldspathic gneiss has also been recognized but is a minor component.

An intermediate unit, 1aBT transitional gneiss, typically is a biotite-muscovite-garnet quartzofeldspathic gneiss.

Muscovite is the distinguishing mica and garnets are a characteristic mauve colour. The unit may contain variable concentrations of graphite. On surface it is usually barren and contains no sulphides. The transitional gneiss has been observed below graphitic gneiss on the west side of the grid and as a unit within the graphitic gneiss.

Two intrusive units are recognized on surface. These are dykes and sills of coarse grained biotite-muscovite-quartz-feldspar pegmatite and a dark green lamprophyre. The pegmatite forms small, blocky, white, resistant outcrops. A late Precambrian age and unit 14 has been assigned to this rock type after Lumbers 1978. A coarse grained pink biotite-quartz-feldspar-pegmatitic phase is also recognized but this unit is believed to be the product of peak regional metamorphism and is probably much older than unit 14. The pink pegmatite tends to be weakly foliated and occurs in sills, sub-parallel to gneissosity. Contacts are generally gradational. Unit 14, as mapped on figure 9 may include both varieties.

Lamprophyre dykes of Cambrian age are only observed in trenches T84-1 and 2, but at too small a scale to include in the 1:2,500 scale mapping. This unit is more commonly observed in drill core, where it occurs as dykes along vertical faults.

9. DIAMOND DRILLING

Geological mapping in 1985 outlined a much larger area of graphitic mineralization than was known in late 1984. The mapping defined five new potential drill targets which were designated zones A to E. The 1985 drill program began by testing two of these,(C and B), before commencing detailed drilling of the northeast zone.

Three holes (8,9,10) were drilled in the C zone. Near surface mineralization was found to be low grade.

Drilling within the B zone and an area south of the B zone, also returned low visual grade estimates.

Holes 14 to 17 tested the eastern extension of the northeast zone. These were also lower in visual estimates than anticipated from last years drilling. Holes 18 to 21 were drilled west of the 1984 northeast zone. These indicated a westward extension of the higher grade horizons of the northeast zone. It also became apparent that the zone was rising to the northwest and would rise to surface under a swamp. This area is now referred to as the western northeast zone.

Holes 22 to 24 were drilled in the A zone. This area was drilled because of promising surface exposures but drilling indicates low to moderate grades over narrow widths.

From hole 25 on, drilling concentrated on the western extension of the northeast zone. Drilling was carried out at a 50 metre by 50 metre spacing. A tighter drill spacing was used in a few selected areas. In these, a 25 metre drill spacing was used.

10. DRILL CORE GEOLOGY

The surface mappable units were further sub-divided for the purposes of core logging. The graphitic gneiss (1aG) was divided into five mappable units (1-5). The transitional gneiss was not sub-divided but was found to have a greater mineralogical variety than was recognized on surface. The barren gneiss (1aB) was divided in to 6 units (10-15). Igneous rocks were observed in greater variety in drill core than on surface. Five igneous rock types were given letter designations. The diamond drill log legend follows this page.

Unit 1aG, Graphitic Gneiss is a calc-silicate bearing calcareous meta-sedimentary unit. This is evident in the mafics minerals which are lighter in colour than in the barren units. Garnets are pale pink but generally absent. Biotite is a brown colour and amphiboles are a pale green colour. Sillimanite is occasionally observed.

The two dominant rock types, units 1 and 2 have similar mineralogy and texture. Unit 2 is a darker variety of 1. Unit 1 and 2 have a coarse texture caused by abundant quartz and feldspar segregations.

Unit 3 is a darker and finer grained variety of 1 and 2. This unit is typically medium to dark green and finely banded. Quartz and feldspar segregations are uncommon in this rock type.

Unit 4 and 5 are uncommon varieties.

The transitional gneiss was assigned the letter T in drill core. It is a muscovite bearing biotite-garnet gneiss. Small mauve coloured garnets and muscovite are characteristic of this rock type. Sillimanite may be present and occasionally occurs in the absence of muscovite.

DIAMOND DRILL LOG LEGEND

1aG GRAPHITIC GNEISS

1	Light grey and grey-green banded biotite-amphibole gneiss
2	Medium grey and grey-green banded biotite-amphibole gneiss.
3	Dark grey-green finely banded biotite-amphibole gneiss
4	Medium grey biotite-sillimanite gneiss
5	Dark grey banded biotite-amphibole gneiss

1aBT TRANSITIONAL GNEISS

T	Biotite-muscovite-garnet gneiss ±sillimanite ±graphite garnets commonly mauve

1aB BARREN GNEISS

10	Light grey biotite ±garnet gneiss
11	Medium grey biotite gneiss ±dark green amphibole ±red garnet
12	Dark grey biotite ±garnet gneiss
13	Dark biotite-amphibole gneiss
14	Pink leucocratic biotite ±garnet gneiss
15	Medium grey biotite-garnet-sillimanite gneiss

IGNEOUS

B	Amphibolite (basic intrusive)
L	Lamprophyre: Dark green dykes and sills
M	Migmatite: Pink and pale green migmatite
P	Pegmatite: White and pink coarse grained biotite-quartz-feldspar
Q	Quartz vein

The barren gneiss (1aB) is a pale to dark grey-green non-calcareous unit. Black biotite, dark green amphiboles and red garnets distinguish the units from the graphite bearing varieties. Although graphite is often observed in low concentrations in the transitional gneiss, no graphite has been observed in the barren gneiss. Units 10-13 are texturally similar and are distinguished by colour. Unit 14 is a distinctive pink colour. This unit was often used as a marker to distinguish barren interbands from the basal barren gneiss sequence.

Igneous rocks in drill core were assigned letters. Unit B is an uncommon strongly foliated sulphide bearing amphibolite.

Dark green lamprophyre dykes were often seen along sub-vertical faults. This rock type was designated L.

Unit M, migmatite and unit P, pegmatite, in some cases occurred together and appear to be gradational. More commonly P is a coarse white and pink quartz-feldspar-biotite pegmatite and M is pink and pale green in colour with weak gneissosity and gradational contacts.

11. MINERALIZATION

Flake graphite occurs in 1aG graphitic gneiss and in variable concentration in unit 1aBT, transitional gneiss. No mineralization has been observed in the barren gneiss. The graphite occurs as oval to sub-rounded flakes in a size range from 1-6 mm in diameter. Two to three mm diameters are the most common.

Low concentrations (1-1.5%) of graphite, pyrite and pyrrhotite occur disseminated throughout the calcareous graphitic host rocks. Pyrite plus pyrrhotite are present in concentrations of 1 to 5%.

The largest flake diameters occur in unit 1 and 2, where flakes are often observed next to quartz and feldspar segregations. In general higher quartz and feldspar bearing varieties are lower in grade.

Unit 3, dark grey-green finely banded gneiss, tends to have a smaller but more uniform 1 to 2 mm average flake size. Quartz and feldspar segregations are notably absent in this unit.

Graphite concentrations in core were estimated in volume %. Visual estimates are significantly higher than the weight % graphite assays. In the western northeast zone 10 to 15% volume estimates returned assays of 3 to 3.5%.

12. SAMPLING AND ANALYTICAL PROCEDURE

Two analytical methods were employed during the program. This first was a weight % flake graphite recovered as a floatation product from bench scale testing. This method was employed primarily to determine whether graphite recovery was feasible and whether floatation could a provide high enough carbon content to produce a marketable product.

Floatation recoveries required an optimum sample size of about 5 kg. This sample size was achieved by splitting drill core in 10 ft. intervals.

Alternate samples were sent to Lakefield Research in Lakefield and Porto Metal Mills Ltd. in Sudbury, Ont. Early assays returned variable results between the two laboratories. The former typically returning lower assays to visual estimates than the latter. As a result of assay variations, Leco furnace assays were adopted by both labs. These results correlated well and the technique was subsequently used for all assaying.

In this assay method, a 4 to 5 kg sample is crushed to -1/2" size. The sample is then pulverized to -10 mesh and split four times. One quarter of the sample is further pulverized, 100% to -100 mesh. Ten grams of the -100 mesh material is leached with 10% Nitric acid to remove carbonates. Two 0.5 gram samples are ignited in a Leco furnace and averaged to produce a graphitic carbon assay. The procedure is repeated if the two analyses vary by more than 0.2%

Assays are plotted on drill logs and individual sections. Drill core logs and sections are bound under separate cover.

13. GEOLOGICAL ORE RESERVES

A total of 3.8 million tonnes of graphitic gneiss grading 3.05% graphitic carbon have been outlined by diamond drilling in the western northeast zone. This tonnage occurs in gently southeast dipping horizons within lower grade graphitic gneiss. The higher grade sections, occur in up to 3 horizons. In cross-section, true thicknesses range from 15 to 30 metres. Commonly, a second horizon with a thickness ranging from 3 to 6 metres occurs in the same section. The larger horizons are traceable over a 350 metre strike length. Grade and thickness decrease in the southwest, northeast and down dip directions.

The distribution of all assays from the northeast zone indicates that there are at least two assay populations. This is graphically shown in Fig. 6. The higher grade population represents the mappable higher grade sections of the northeast zone. The writer chose a cutoff grade of 2.5% C(G) (graphitic carbon) because this is close to the grade which naturally divides the two populations. Secondly, this cutoff produces an optimum tonnage figure of material grading in excess of 3% C(G).

Ore calculations are based on blocks measuring 70 x 70 x 10 metres. Block sides are oriented parallel to the zone's dip and strike directions. Ore block locations are shown on figure 8. This figure and a tabulation of tonnage are appended to this report.

The distribution of tonnage grading in excess of 2.5% C(g), is graphically shown in fig 7. It is evident that most of the tonnage is near surface. Close to 3 million of the 3.8 million tonnes lies within 34 metres of the bedrock surface.

In calculating ore reserves for the northeast zone, the writer aimed at producing tonnage and grade figures which are representative of the geology of the zone. Continuity between sections, correlation of assays, visual grade estimates and geology were important factors. Isolated high assay, narrow and discontinuous horizons were ignored. This figure has not been evaluated in terms of mining feasibility and no mining dilution and stripping ratio have been calculated.

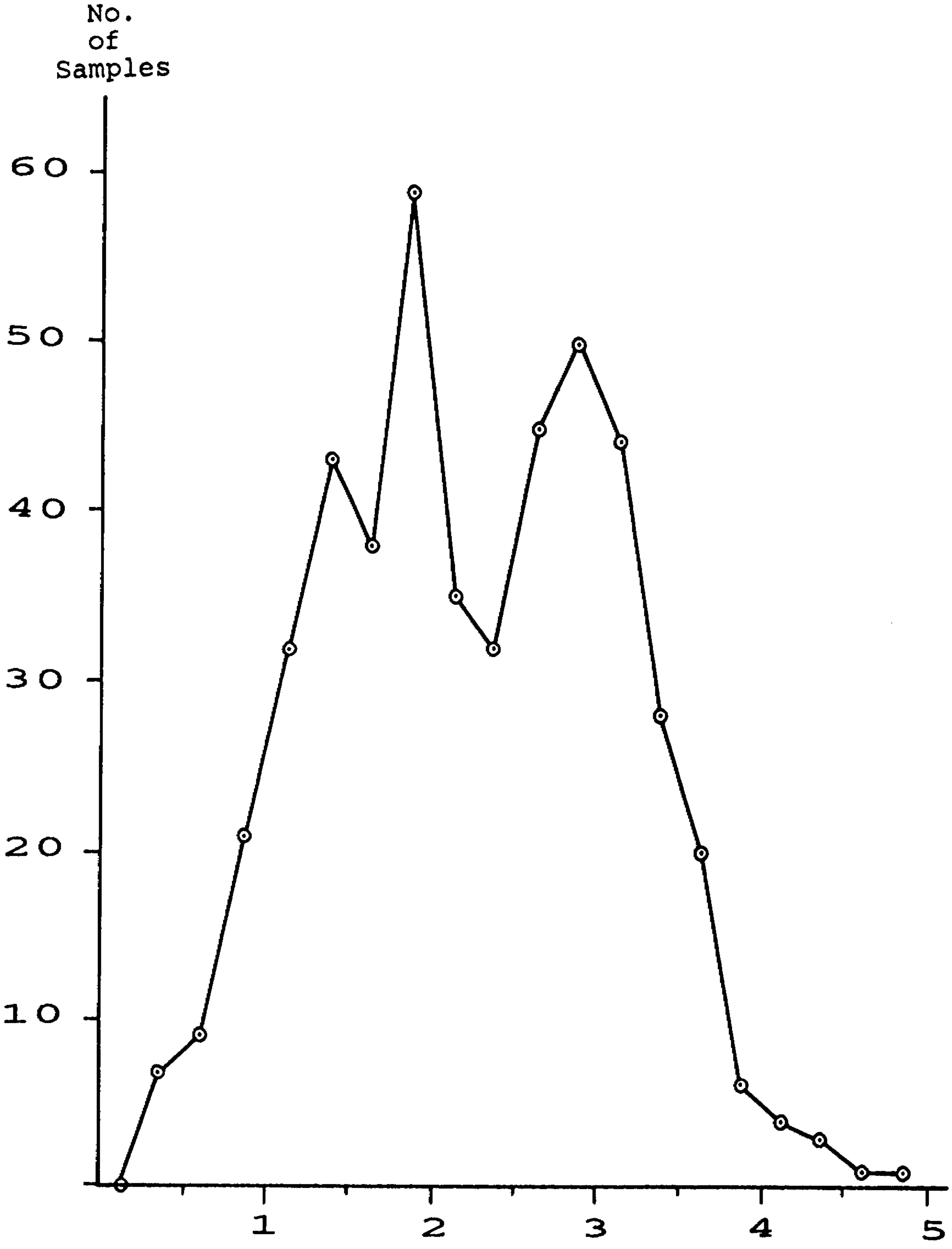


Fig. 6

Assay Distribution
Western Northeast Zone

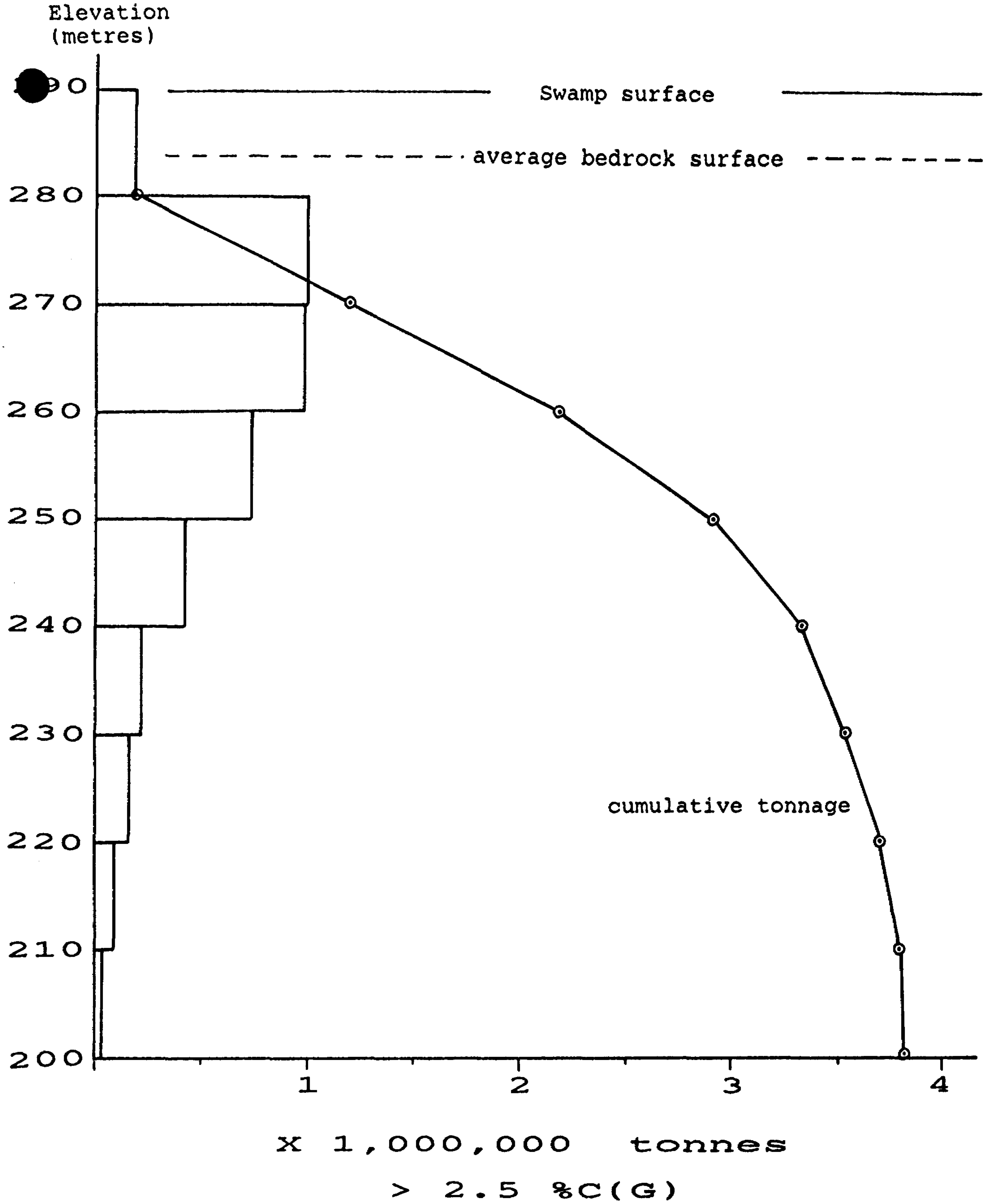


Fig.7

Tonnage Distribution
Western Northeast Zone

Complete data on the relationship of graphitic carbon assays to full scale flotation are presently not available. Further information also needs to be gathered on the physical properties of the final product. This will allow a more refined calculation of cutoff grade. The pilot testing program will help to answer these questions.

14. CONCLUSIONS

The 1985 exploration program has outlined 3.8 million tonnes of flake graphite bearing gneiss grading an average of 3.05% C(G). The deposit is the near surface, up dip extension of the northeast zone which was outlined in 4 drill holes in 1984. The northeast zone continues to have additional tonnage potential in the vicinity of the 1984 drilling.

Grid mapping in 1985 outlined a much larger area of graphitic gneiss than was previously known. Most of this area remains to be explored by drilling. In particular, sections of the western limits of known graphite, north of the present drilling, has good potential. Also a large area lying between the B and E zones requires further exploration.

15. REFERENCES

Bates, R. (1969): Geology of The Industrial Rocks and Minerals.

Howard, I (1985): Natural Graphite, A review of the World Supply Demand Situation. Private, unpublished report.

Innes, D.G. (1982): Geological Report Tagliamonte Graphite Property Maria Township, Ontario

Lawson, P. (1984): Insulants and Refractories in Mining Annual Review, p. 113.

(1984): Mineral Commodity Summaries, Bureau of Mines, U.S. Dept. of the Interior.

Lumbers, S.B. (1976): Mattawa-Deep River Area (Eastern Half) District of Nipissing and Country Renfrew. Ont. Div. of Mines Preliminary Map P. 1197, Scale 1:63,360.

Pettifer, L. (1980): Natural Graphite - The Dawn of Tight Markets, Industrial Minerals, Sept. 1980.

Robbins, J. (1984) Graphite-drawing on mixed sources, Industrial Minerals, July, 1984 p. 37

Schmidt, U. (1985): Preliminary Report on Geology, Diamond Drilling and Trenching on Bissett Creek Graphite Property, Maria Township, Ontario.

Wynne-Edwards, H.R. (1972): The Grenville Province, in Variations in Tectonic Styles in Canada, G.A.C. Special Paper 11 ed. Price, R.A. and Douglas, R.J.W.

Wyslouzil, D.M., Buchan, R., (1985): Mineralogical Examination of 15 DDH Core Samples for Princeton Resources Corp. Progress Report No. 1.

APPENDIX A

BISSETT CREEK PROJECT DIAMOND DRILL RECORD

DDH	ZONE	GRID COORDINATES		SURVEYED COORDINATES		COLLAR ELEVATION FT.	HOLE DEPTH FT.	CUMM. TOTAL FT.	SPOTTED	COMPLETE	MARKED	TAGGED	SURVEYED	DATE STARTED Y M D	DATE COMPLETED Y M D	ASSAYS				REMARKS
		NORTH (M)	EAST (M)	NORTH (M)	EAST (M)											MARKED	SPLIT	SENT	RECEIVED	
84-1	S	22 + 40	13 + 35			961.3	147	147						84 11 29	84 11 30					
84-2	S	21 + 97	12 + 47			958.0	163	310						84 11 30	84 12 01					
84-3	N	23 + 87	13 + 75			948.2	138	448						84 12 01	84 12 02					
84-4	NE	25 + 00	18 + 55	2,503.14	1,853.55	934.58	138	586						84 12 02	84 12 02					
84-5	NE	25 + 86	17 + 84	2,586.14	1,784.74	943.52	138	724						84 12 02	84 12 03					
84-6	NE	25 + 94	18 + 95	2,593.44	1,892.29	960.97	168	892						84 12 03	84 12 04					
84-7 /	NE	26 + 02	17 + 20	2,602.13	1,718.76	957.22	153	1,045						84 12 04	84 12 04					
85-8	C	38 + 75	20 + 48			981.0	123	123						85 07 05	85 07 06					
85-9	C	37 + 72	20 + 45			958.0	123	246						85 07 06	85 07 07					
85-10	C	36 + 75	20 + 46			941.59	122	368						85 07 07	85 07 08					
85-11	B	30 + 97	20 + 02			981.0	248	616						85 07 08	85 07 10					
85-12	B	30 + 00	19 + 07			954.7	168	784						85 07 10	85 07 11					
85-13	B	29 + 01	18 + 75			964.6	118	902						85 07 17	85 07 17					
85-14	NE	28 + 00	19 + 76			958.0	198	1,100						85 07 18	85 07 19					
85-15	NE	27 + 00	19 + 50	2,699.88	1,950.90	957.00	168	1,268						85 07 19	85 07 19					
85-16	NE	26 + 01	19 + 50	2,599.42	1,949.01	949.55	150	1,418						85 07 20	85 07 23					
85-17	NE	25 + 00	19 + 49	2,499.25	1,949.33	1,050.0	158	1,576						85 07 24	85 07 24					
85-4	NE	25 + 00	18 + 55				100	1,676						85 07 24	85 07 25					EXTENSION OF 84-4
85-18	NE	26 + 00	16 + 00	2,599.65	1,599.94	955.74	225	1,901						85 07 25	85 07 26					
85-19	NE	24 + 61	16 + 00	2,460.38	1,598.30	912.35	248	2,149						85 07 31	85 08 01					
85-20	NE	25 + 05	15 + 05	2,503.34	1,503.10	939.90	268	2,417						85 08 02	85 08 03					
85-21	NE	25 + 50	14 + 00	2,546.11	1,396.15	950.42	197	2,614						85 08 03	85 08 04					
85-22	A	27 + 01	24 + 02			948.2	158	2,772						85 08 05	85 08 05					
85-23	A	26 + 00	23 + 97			951.4	138	2,910						85 08 06	85 08 06					
85-24	A	24 + 98	23 + 58			921.9	129	3,039						85 08 08	85 08 08					

BISSETT CREEK PROJECT DIAMOND DRILL RECORD

DDH	ZONE	GRID COORDINATES		SURVEYED COORDINATES		COLLAR ELEVATION FT.	HOLE DEPTH FT.	CUMM. TOTAL FT.	SPOTTED	COMPLETE	MARKED	TAGGED	SURVEYED	DATE STARTED	DATE COMPLETED	ASSAYS				REMARKS
		NORTH (M)	EAST (M)	NORTH (M)	EAST (M)									Y M D	Y M D	MARKED	SPLIT	SENT	RECEIVED	
85-25	NE	25 + 85	15 + 00	2,584.38	1,498.04	952.24	208	3,247						85 08 13	85 08 14					
85-26	NE	25 + 50	14 + 92	2,546.71	1,496.57	957.62	258	3,505						85 08 14	85 08 15					
85-27	NE	25 + 72	13 + 83	2,576.35	1,383.57	951.10	168	3,673						85 08 16	85 08 17					
85-28	NE	25 + 41	13 + 47	2,540.517	1,353.37	947.70	158	3,831						85 08 17	85 08 18					
85-29	NE	25 + 95	14 + 49	2,593.96	1,449.08	958.73	178	4,009						85 08 18	85 08 21					
85-30	NE	25 + 50	14 + 50	2,548.33	1,448.99	957.09	218	4,227						85 08 22	85 08 22					
85-31	NE	25 + 00	13 + 56	2,496.14	1,353.23	977.30	218	4,445						85 08 23	85 08 24					
85-32	NE	25 + 01	13 + 15	2,495.79	1,316.54	957.33	168	4,613						85 08 27	85 08 28					
85-33	NE	25 + 00	15 + 99	2,495.99	1,398.12	971.04	268	4,881						85 08 29	85 08 30					
85-34	NE	25 + 51	15 + 97	2,549.31	1,601.35	957.51	308	5,189						85 08 30	85 09 06					
85-35	NE	25 + 55	15 + 48	2,553.27	1,550.64	943.98	268	5,457						85 09 06	85 09 08					
85-36	NE	25 + 86	16 + 51	2,587.97	1,649.94	956.64	281	5,738						85 09 08	85 09 10					
85-7	NE	26 + 02	17 + 20				175	5,913						85 09 10	85 09 11					EXTENSION OF 84-7
85-37	NE	26 + 46	17 + 00	2,645.45	1,702.15	948.32	268	6,181						85 09 12	85 09 14					
85-5	NE	25 + 86	17 + 84				110	6,291						85 09 14	85 09 14					EXTENSION OF 84-5
85-38	NE	27 + 00	17 + 00	2,699.03	1,698.70	949.11	48	6,339						85 09 16	85 09 16					ABANDONED
85-39	NE	27 + 50	16 + 50	2,747.64	1,652.13	959.92	238	6,577						85 09 16	85 09 18					
85-40	NE	27 + 50	16 + 94	2,748.22	1,695.76	964.78	258	6,835						85 09 19	85 09 26					
85-41	NE	27 + 50	16 + 00	2,747.28	1,601.85	946.31	218	7,053						85 09 27	85 09 28					
85-42	NE	28 + 00	16 + 50	2,802.61	1,645.77	944.88	248	7,301						85 09 28	85 10 05					
85-43	NE	27 + 50	15 + 50	2,746.09	1,553.65	944.88	198	7,499						85 10 06	85 10 08					
85-44	NE	27 + 00	16 + 50	2,697.90	1,648.90	945.71	238	7,737						85 10 08	85 10 09					
85-45	NE	27 + 00	16 + 00	2,696.08	1,597.86	944.88	219	7,956						85 10 09	85 10 11					
85-46	NE	27 + 00	15 + 50	2,696.98	1,552.00	944.88	199	8,155						85 10 13	85 10 14					

BISSETT CREEK PROJECT DIAMOND DRILL RECORD

DDH	ZONE	GRID COORDINATES		SURVEYED COORDINATES		COLLAR ELEVATION FT.	HOLE DEPTH FT.	CUMM. TOTAL FT.	SPOTTED	COMPLETE	MARKED	TAGGED	SURVEYED	DATE STARTED			DATE COMPLETED			ASSAYS				REMARKS
		NORTH (M)	EAST (M)	NORTH (M)	EAST (M)									Y	M	D	Y	M	D	MARKED	SPLIT	SENT	RECEIVED	
85-47	NE	27 + 00	15 + 00	2,695.35	1,499.29	944.88	158	8,313						85	10	16	85	10	16					
85-48	NE	27 + 25	17 + 00	2,721.59	1,699.23	956.88	147	8,460						85	10	15	85	10	16					
85-49	NE	27 + 25	16 + 75	2,722.40	1,674.40	959.96	147	8,607						85	10	18	85	10	18					
85-50	NE	27 + 00	14 + 50	2,695.87	1,450.34	944.88	168	8,775						85	10	17	85	10	18					
85-51	NE	27 + 25	16 + 50	2,722.53	1,651.69	958.48	147	8,922						85	10	18	85	10	18					
85-52	NE	27 + 25	16 + 25	2,721.74	1,626.99	951.37	147	9,069						85	10	18	85	10	18					
85-53	NE	27 + 00	14 + 00	2,694.59	1,400.17	944.88	198	9,267						85	10	19	85	10	21					
85-54	NE	27 + 50	16 + 25	2,747.14	1,627.94	954.75	147	9,414						85	10	18	85	10	18					
85-55	NE	27 + 50	16 + 75	2,748.21	1,677.42	960.55	147	9,561						85	10	20	85	10	20					
85-56	NE	27 + 75	16 + 75	2,772.70	1,677.60	962.06	128	9,689						85	10	20	85	10	21					
85-57	NE	27 + 75	16 + 50	2,773.41	1,652.68	961.27	147	9,836						85	10	21	85	10	21					
85-58	NE	27 + 75	16 + 22	2,773.55	1,627.07	959.80	147	9,983						85	10	22	85	10	22					
85-59	NE	27 + 00	13 + 50	2,693.94	1,349.72	944.88	78	10,061						85	10	21	85	10	21					
85-60	NE	27 + 75	16 + 00	2,769.12	1,601.78	953.47	147	10,208						85	10	21	85	10	22					
85-61	NE	27 + 00	13 + 00	2,693.42	1,300.78	944.88	38	10,246						85	10	22	85	10	22					BARREN
85-62	NE	27 + 75	15 + 75	2,771.69	1,576.76	946.67	147	10,393						85	10	22	85	10	22					
85-63	NE	27 + 00	13 + 25	2,693.54	1,325.81	944.88	42	10,435						85	10	23	85	10	23					
85-64	NE	28 + 00	15 + 50	2,803.37	1,546.27	951.30	150	10,585						85	10	22	85	10	23					
85-65	NE	28 + 00	15 + 75	2,803.06	1,571.07	950.41	150	10,735						85	10	24	85	10	24					
85-66	NE	26 + 50	16 + 50	2,649.27	1,651.79	944.88	266	11,001						85	10	23	85	10	25					
85-67	NE	28 + 00	16 + 00	2,802.50	1,595.72	958.62	147	11,148						85	10	24	85	10	24					
85-68	NE	26 + 50	16 + 00	2,648.62	1,602.48	944.88	228	11,376						85	10	25	85	10	26					
85-69	NE	26 + 50	15 + 41	2,648.71	1,543.43	944.88	197	11,573						85	10	26	85	10	27					

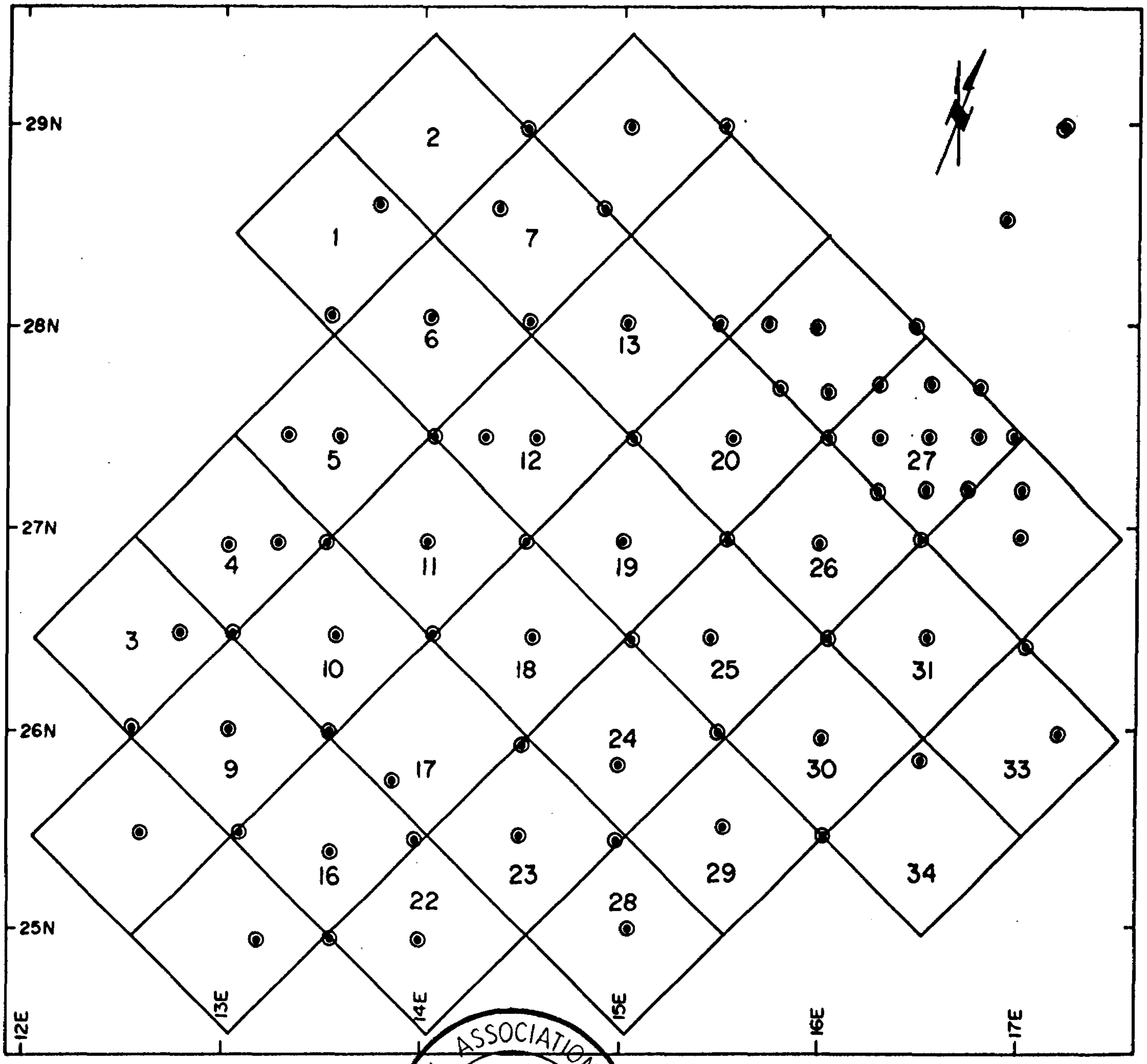
BISSETT CREEK PROJECT DIAMOND DRILL RECORD

DDH	ZONE	GRID COORDINATES		SURVEYED COORDINATES		COLLAR ELEVATION FT.	HOLE DEPTH FT.	CUMM. TOTAL FT.	SPOTTED	COMPLETE	MARKED	TAGGED	SURVEYED	DATE STARTED			DATE COMPLETED			ASSAYS				REMARKS
		NORTH (M)	EAST (M)	NORTH (M)	EAST (M)									Y	M	D	Y	M	D	MARKED	SPLIT	SENT	RECEIVED	
85-70	NE	26 + 50	15 + 00	2,647.65	1,503.61	944.88	187	11,760						85	10	27	85	10	28					
85-71	NE	26 + 50	14 + 50	2,647.90	1,453.98	944.88	197	11,957						85	10	28	85	10	29					
85-72	NE	26 + 50	14 + 00	2,648.68	1,403.68	944.88	138	12,095						85	10	29	85	10	29					
85-73	NE	26 + 50	13 + 50	2,648.53	1,354.79	944.88	110	12,205						85	10	30	85	10	30					
85-74	NE	28 + 50	17 + 00	2,855.89	1,692.55	949.53	267	12,472						85	10	30	85	10	31					
85-75	NE	26 + 50	13 + 00	2,648.65	1,302.69	944.88	76	12,548						85	10	31	85	10	31					
85-76	NE	29 + 00	17 + 25	2,901.57	1,721.88	956.29	283	12,831						85	10	31	85	11	01					
85-77	NE	26 + 00	18 + 50	2,598.65	1,848.22	960.70	157	12,988						85	11	01	85	11	02					
85-78	NE	26 + 00	18 + 60	2,598.53	1,859.15	960.54	157	13,145						85	11	02	85	11	02					
85-79	NE	26 + 00	18 + 70	2,598.18	1,868.93	961.26	157	13,302						85	11	02	85	11	03					
85-80	NE	26 + 00	18 + 80	2,598.13	1,882.29	961.35	157	13,459						85	11	03	85	11	03					
85-81	NE	26 + 50	12 + 75	2,648.88	1,276.27	944.88	57	13,516						85	11	04	85	11	04					
85-82	NE	26 + 00	19 + 00	2,598.81	1,899.26	959.59	397	13,913						85	11	04	85	11	06					
85-83	NE	26 + 00	12 + 50	2,601.57	1,252.02	944.88	108	14,021						85	11	04	85	11	05					
85-84	NE	26 + 00	13 + 00	2,601.95	1,301.56	944.88	107	14,128						85	11	05	85	11	06					
85-85	NE	25 + 50	19 + 00	2,550.01	1,901.39	938.60	157	14,285						85	11	06	85	11	07					
85-86	NE	25 + 50	18 + 50	2,548.44	1,851.23	933.85	157	14,442						85	11	07	85	11	07					
85-87	NE	26 + 00	13 + 50	2,600.50	1,351.81	944.88	147	14,589						85	11	06	85	11	07					
85-88	NE	25 + 50	13 + 00	2,549.21	1,307.31	944.88	148	14,737						85	11	07	85	11	08					
85-89	NE	25 + 50	12 + 50	2,549.47	1,257.12	944.88	108	14,485						85	11	08	85	11	09					BARREN
85-90	NE	26 + 00	15 + 50	2,601.88	1,547.97	944.88	143	14,988						85	11	09	85	11	10					
85-91	NE	27 + 00	15 + 00	2,746.26	1,504.04	944.88	158	15,146						85	11	13	85	11	14					
85-92	NE	27 + 50	14 + 50	2,746.06	1,454.47	944.88	104	15,250						85	11	15	85	11	15					

BISSETT CREEK PROJECT DIAMOND DRILL RECORD

DDH	ZONE	GRID COORDINATES NORTH (M)	GRID COORDINATES EAST (M)	SURVEYED COORDINATES NORTH (M)	SURVEYED COORDINATES EAST (M)	COLLAR ELEVATION FT.	HOLE DEPTH FT.	CUMM. TOTAL FT.	SPOTTED	COMPLETE	MARKED	TAGGED	SURVEYED	DATE STARTED Y M D	DATE COMPLETED Y M D	ASSAYS MARKED	ASSAYS SPLIT	ASSAYS SENT	ASSAYS RECEIVED	REMARKS
85-93	NE	27 + 50	14 + 25	2,746.31	1,429.15	944.88	79	15,329						85 11 16	85 11 16					
85-94	NE	27 + 50	14 + 00	2,746.51	1,403.58	944.88	57	15,386						85 11 16	85 11 17					
85-95	NE	28 + 00	14 + 00	2,805.78	1,401.67	944.88	98	15,484						85 11 17	85 11 17					
85-96	NE	28 + 00	13 + 50	2,806.0	1,352.0	944.88	68	15,552						85 11 18	85 11 18					
85-97	NE	27 + 50	13 + 50	2,746.64	1,355.92	944.88	69	15,621						85 11 19	85 11 19					
85-98	NE	27 + 50	13 + 25	2,746.68	1,330.04	944.88	54	15,675						85 11 20	85 11 20					BARREN
85-99	NE	28 + 00	14 + 50	2,804.15	1,451.04	944.88	117	15,792						85 11 20	85 11 21					
85-100	NE	28 + 00	15 + 00	2,803.06	1,500.61	944.88	147	15,939						85 11 23	85 11 24					
DETAIL HOLES PIT 1							288	16,227						85 11 21	85 11 23					
DETAIL HOLES NEAR HOLE 5							60	16,287						85 11 24	85 11 24					
85-101	NE	28 + 50	14 + 00	2,861.40	1,385.2	946.38	65	16,352						85 11 26	85 11 26					
85-102	NE	29 + 00	14 + 50	2,860.00	1,450.4	944.88	58	16,410						85 11 27	85 11 27					
85-103	NE	28 + 50	14 + 50	2,859.97	1,436.9	944.88	98	16,508						85 11 27	85 11 28					
85-104	NE	28 + 50	15 + 00	2,859.8	1,488.1	951.86	149	16,657						85 11 28	85 11 29					
85-105	NE	29 + 00	15 + 00	2,900.00	1,501.5	954.81	109	16,766						85 11 29	85 11 30					
85-106	NE	29 + 00	15 + 50	2,901.2	1,549.4	967.73	70	16,836						85 11 30	85 11 30					

APPENDIX B



● *Vertical diamond drill hole*

2 *Ore block*

Scale 50 0 50 100 metres

GEOLOGICAL ASSOCIATION OF CANADA
UWE SCHMIDT
FELLOW

PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY

MARIA TWP,
ONTARIO

WESTERN NORTHEAST ZONE

NORTHWEST GEOLOGICAL CONSULTING LTD.
to accompany a report by U.Schmidt

SCALE	DATE	N.T.S.	FIG.Nº
as shown	March 1986	31L/1E	8

DL.Phillips Draughting

BISSETT CREEK
WESTERN NORTHEAST ZONE
GEOLOGICAL ORE RESERVES

BLOCK	1		2		3		4	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280	30,713	3.02	43,517	3.14	3,213	2.55	2,835	2.89
270	26,933	3.10	28,681	3.18	2,929	2.64	4,063	2.87
260								
250								
240								
230								
220								
210								
200								
TOTALS	57,646	3.06	72,198	3.16	6,142	2.59	6,898	2.88

142884

BLOCK	5		6		7		9	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280			24,287	2.86	71,205	2.96		
270	39,454	3.09	73,852	3.10	98,753	3.10	16,490	3.07
260			60,953	3.17	50,369	3.16	16,065	3.00
250			9,214	3.09			2,363	3.04
240								
230								
220								
210								
200								
TOTALS	39,454	3.09	168,306	3.09	220,327	3.07	34,918	3.04

463 005

BLOCK	10		11		12		13	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280					14,317	2.85	3,308	2.81
270	85,192	3.02	99,698	3.01	100,265	2.99	65,772	3.26
260	41,344	3.13	56,936	3.14	48,668	3.21	31,421	3.22
250								
240								
230								
220								
210								
200								
TOTALS	126,536	3.06	156,634	3.06	163,250	3.04	100,501	3.23

546 921

Total 1.152 810

BLOCK	16		17		18		19	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280								
270	17,577	3.56	24,617	3.21	41,438	3.04	44,321	3.12
260	36,099	3.44	77,348	3.18	103,052	3.05	101,540	3.03
250	29,909	3.21	90,389	3.15	104,659	3.09	81,223	2.99
240			22,963	3.39	23,861	3.25	8,741	3.14
230								
220								
210								
200								
TOTALS	83,585	3.38	215,317	3.19	273,010	3.08	235,825	3.04

BLOCK	20		22		23		24	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280								
270	3,686	3.42						
260	8,600	3.25					19,750	3.08
250	3,898	3.10	3,213	3.27	20,412	2.70	51,975	2.85
240			17,813	3.11	82,498	3.13	102,533	2.98
230					45,596	3.16	47,675	2.99
220					16,537	3.36	7,560	3.02
210								
200								
TOTALS	16,184	3.25	21,026	3.13	165,043	3.11	229,493	2.96

BLOCK	25		26		27		28	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280								
270	7,088	2.88	43,943	3.08	80,967	2.92		
260	91,618	2.83	6,946	3.12	16,859	2.90		
250	58,826	2.86						
240	30,996	2.99					2,362	3.46
230	6,804	3.14					30,712	3.12
220							62,323	2.93
210							47,581	2.93
200							12,663	2.83
TOTALS	195,332	2.88	50,889	3.09	97,826	2.92	155,641	2.97

BLOCK	29		30		31		33	
LEVEL (metres)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)	TONNES	%C(G)
290								
280								
270			44,604	3.09	13,466	2.75	5,387	2.75
260	26,649	2.89	39,643	3.00	95,492	2.94	45,888	2.85
250	19,940	3.12	86,137	3.09	27,783	3.10	105,793	3.25
240	26,885	2.90	37,186	2.87			25,137	3.06
230	68,135	2.89	10,584	2.86				
220	80,420	2.82						
210	34,020	2.86						
200	4,394	2.91						
TOTALS	260,443	2.88	218,154	3.02	136,741	2.95	182,205	3.11

BLOCK	34		LEVEL TOTAL	WEIGHTED AVERAGE %C(G)	CUMM. TOTAL
LEVEL (metres)	TONNES	%C(G)			
290			0	0.00	0
280			193,395	2.98	193,395
270	28,917	2.95	998,093	3.06	1,191,488
260	7,844	2.99	983,084	3.06	2,174,572
250	39,832	3.04	735,566	3.07	2,910,138
240	34,776	3.11	415,751	3.06	3,325,889
230			209,506	3.01	3,535,395
220			166,840	2.92	3,702,235
210			81,601	2.90	3,783,836
200			17,057	2.85	3,800,893
TOTALS	111,369	3.03	3,800,893	3.05	

APPENDIX C

The Properties and Markets of Graphite

Graphite is a soft, crystalline form of carbon which has many unique properties that make it a desired product in many applications. The term graphite includes a variety of structural types both on a macroscopic and microscopic scale. These variations in structure affect the mineral's physical and chemical characteristics and therefore its application.

Graphite can be naturally occurring or produced synthetically from coal, petroleum byproducts or from natural graphite. World production is around 2 million tonnes annually. Of this, about one quarter is natural graphite. There is little overlap in applications of the two varieties. High energy costs involved in manufacturing synthetic graphite make it unlikely that this product will compete effectively in natural graphite markets.

Although graphite is crystalline, it is a commonly accepted practice in the industry to restrict this term to varieties of flake graphite which are visible to the unaided eye.

Natural graphite occurs in bedded, vein and contact metamorphic deposits. Each deposit has a product with unique physical and chemical characteristics.

Amorphous graphite is a term used to describe cryptocrystalline varieties. The three most commonly used commercial terms for the mineral are crystalline flake, crystalline lump and amorphous lump.

The principal impurities in natural graphite are other minerals from the enclosing schistose host rocks. These are quartz, mica, feldspar, and clay.

In general, coarse flake graphite from bedded deposits is preferred in most natural graphite applications because vein and contact metamorphic deposits are likely to contain higher and variable concentrations of impurities.

The softness, low specific gravity, perfect basal cleavage and resulting slippery character make it ideal for metal manufacturing. Its refractory nature and immunity to most corrosive reagents make it an ideal product for use in the metallurgical and chemical industries. The largest use of graphite is in foundry facings, crucibles and mold facing applications.

Graphite is a common mineral but rarely occurs in economic concentrations. The major producers of natural graphite are China, the Soviet Union, India, Mexico, North and South Korea, Austria, Czechoslovakia, Madagascar, West Germany, Norway and Sri Lanka. World production in 1982 totalled 535,000 tonnes.

GRAPHITE MARKETS

Graphite has traditionally been produced in a relatively few developing countries. Political stability, reliability of supply and financial considerations are becoming important factors in its markets. The most noticeable effect has been the end producers swing to using graphite from a variety of origins (Robbins, 1984).

Graphite prices are usually based on a negotiated price between producer, agent and user. Although prices are important, reliability of supply and product performance may outweigh pricing considerations.

Present uses of graphite are:

- -crucibles
- -graphite bonded magnesia refractory bricks and graphite alumina applications in steel making
- -foundry facings
- -recarburiser in steel making
- -mechanical seals and gaskets
- -lubricants
- -electrodes
- -electric motor brushes
- -dry batteries
- -moderator in atomic reactors
- -brake linings
- -conductive coatings
- -additive to paint, explosives, fertilizers and chemicals
- -alloy with metal for bearings

One of the fastest growing applications has been in graphite-magnesia refractory bricks. Consumption of graphite in this area is tied to the modernization of the steel making industry. The trend from conventional to electric arc furnaces is continuing and is expected to produce continued expansion in the graphite-magnesia refractories market.

The increased use of manufactured graphite fibre composites in structural applications in the aircraft and construction industries may also have a beneficial effect on natural graphite consumption because a large portion of natural graphite production is consumed as a raw material for synthetic graphite products.

Future commercial and military applications are expected to grow in areas of high temperature applications where graphite's high temperature strength, thermal and electrical conductivity, corrosion and thermal shock resistance have no competition.

Prices paid to producers, as reported in the June, 1984 issue of Industrial Minerals, ranged from US$ 494 to $1,140 per tonne for four size ranges of Madagascar flake. Two grades of Brazilian flake ranged from US$ 420 to $2,250 per tonne and three Sri Lankan lump and powder grades ranged from US$ 180 to $1,250 per tonne.

In 1983, the U.S.A. consumed 38,000 tons of natural graphite. Consumers are located primarily in the northeastern Great Lakes region. The main uses were estimated to be: raising carbon content in steel, 26%; refractories, 21%; dressings and molds in foundry operations, 13%; lubricants, 8%; brake linings, 7%; crucibles, 7%; and other; 18%. Of this consumption crystalline flake accounted for 15% by quantity and 26% by value. Flake graphite was imported from Brazil, Madagascar and China. The U.S. Bureau of Mines predicts an annual demand increase of 3% per year for natural graphite through 1990.

APPENDIX D

CERTIFICATE OF QUALIFICATIONS

I, Uwe Schmidt, of 656 Foresthill Place, Port Moody, B.C. do hereby declare:

(1) I am a 1971 graduate of the University of British Columbia with a B.Sc. degree in Geology.

(2) I am a Fellow of the Geological Association of Canada.

(3) I have practiced my profession continuously since graduation.

(4) I have managed various mineral exploration projects in the Yukon Territory, British Columbia and Ontario over the past 14 years.

(5) This report is based on field work carried out by me or under my supervision and on selected publications and reports.

UWE SCHMIDT

Uwe Schmidt, B.Sc., F.G.A.C.

March 7,1986
Port Moody, B.C

1of4

010

Mineralogical Examination

of

15 DDH Core Samples for

PRINCETON RESOURCES CORP.

Progress Report No. 1

Project No. LR 3005

NOTE:

This report refers to the samples as received.

The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of Lakefield Research.

LAKEFIELD RESEARCH
A Division of Falconbridge Limited
Lakefield, Ontario
November 5, 1985

INTRODUCTION

In conjunction with the current testwork being carried out by Lakefield Research on graphitic samples from Princeton Resources Corp., request was made for petrographic examination of 15 drill core samples. Specific request was made for the determination of a) minerals present and the proportions, b) implications of mineral assemblages on original rock type, c) grade of metamorphism, and d) textures, relationships and implications for recovery of any graphite present.

Fifteen pol-thin sections were prepared and examined.

LAKEFIELD RESEARCH

D. M. Wyslouzil

D.M. Wyslouzil, P. Eng.,

Manager

R Buchan

R. Buchan, P. Eng.,

Head, Mineralogy

RESULTS

Table 1 lists the mineral assemblages present in pol-thin section with estimated proportions of each. Sample 85-21-50 is quite different from the others and is described separately. It is classified as a porphyritic mica peridotite.

The samples represent a suite of biotite schists with variations in content of amphibole, clinopyroxene, chlorite, carbonate and graphite. The latter occurs in 7 of the 14 sections, ranging in content up to an estimated 8 % by volume.

The "average" biotite schist contains about 45 % fresh granular feldspar, 25 % quartz and 10 % brown biotite, the latter oriented along planes of schistosity and often concentrated in certain layers. The feldspar is mainly potassic, consisting of orthoclase and microcline with lesser well twinned albite. Chlorite is a major component in several sections where it replaces feldspar, amphibole or biotite. Metamorphic laths of muscovite are of later formation than the biotite which they crosscut; colourless elongate grains of amphibole (tremolite) occur in five sections but hornblende grains are present in sample 85-39-228; clinopyroxene (diopside) is a major component of sample 85-25-28 where it occurs in coarse blocky anhedral grains; garnet has typical rounded poikiloblastic textures in five sections where it is a minor component only; carbonate displays textures indicative of secondary replacement as intergranular patches and fracture infillings. Ubiquitous trace minerals include sphene, apatite and zircon. Sulphides occur usually in trace amounts and consist of pyrite and/or pyrrhotite with rare traces of chalcopyrite.

Brief comments on the individual samples are given on the following pages.

From the petrographic examination, it is concluded that the suite represents a metasedimentary sequence with amphibole and pyroxene-rich layers decended from calcareous bands. The main mineral assemblage, feldspar-quartz-biotite, is potassium rich and has a granitic composition. The grade of regional metamorphism interpreted from the mineral assemblages is upper medium grade with the development of garnet, amphibole and diopside.

Results - Continued

As noted in the text, flakes of graphite up to 1.5 mm were noted in the sections. Most of the graphite occurs as isolated flakes in the schist but intergrowths with biotite, chlorite or sulphides do occur. The fine lamellar intergrowths with chlorite in particular will be extremely difficult to liberate but these intergrowths represent less than ~3 % of the total graphite.

SAMPLE NO. 85-21-50 PTS No. 154

Minerals	Est. % by Volume
Serpentine	40 - 45
Carbonate	30 - 35
Phlogopite	15 - 20
Ilmenite/Magnetite/Rutile or Perovskite/Leucoxene	2 - 3
Pyrite/Pyrrhotite	<1

Description: The fine grained dark massive hand sample shows a porphyritic texture in pol-thin section. Phenocrysts of olivine have been completely replaced by serpentine and carbonate. The matrix is a mixture of flaky phlogopite, serpentine and carbonate with disseminated grains of oxides and sulphides. All the oxides are highly altered to leucoxene but from the relict textures observed they were originally titaniferous magnetite, ilmenite, rutile or perhaps perovskite. Most of the small sulphide grains are pyrite with occasional grains of pyrrhotite.

The potassic nature of the groundmass with an ultramafic assemblage classifies the rock as an altered porphyritic mica peridotite.

Results - Continued

Sample 85-39-09 (PTS 159)

Traces of myrmekite are present in the section. The coarse elongate tremolite crystals are often accompanied by coarse laths of graphite. Scattered blocky grains of pyrrhotite are also associated with graphite.

Sample 85-39-53 (PTS 156)

Several large blocky grains of perthite (microcline + albite) occur in this sample. Blocky grains of a dark purplish mineral are tentatively identified as rutile. Long flakes of graphite, occasionally showing warping, are developed parallel to the plane of schistosity. They show strong crystallizing features, crosscutting the granular quartz/feldspar.

Sample 85-39-68 (PTS 157)

Several layers are heavily chloritized with amphibole, biotite and probably feldspar replaced by the chlorite. Within these layers, biotite shows evidence of exfoliation and disorientation with break-up of the coarse laths. Grains of metamorphic garnet are elongated somewhat along the direction of schistosity. Flakes of graphite show their typical relationships in PTS 157. The coarse flakes are generally associated with biotite and some finer intergrowths occur between layers of biotite or chlorite. Pyrite, accompanied by minor marcasite, occurs in a narrow fracture filling along a chloritized layer. This suggests that it is of late formation, following the retrograde chloritization.

Results - Continued

Sample 85-39-79 (PTS 161)

This section differs considerably from the others in texture and mineral proportions. The granular feldspar has been heavily altered to sericite and chlorite so that no determination of feldspar type was possible. Graphite is abundant in flakes up to 1.5 mm long. The strong schistosity of the rock is affected more by the graphite orientation than by the biotite which is less abundant. Sulphides show a close relationship to the graphite. Streaks of pyrite are molded along and penetrate the graphite flakes indicating their later formation. Carbonate forms coarse replacement patches in the section and sphene is more prolific than in any other section. It forms small lozenge-shaped grains which are commonly dark brown, semi-opaque and appear to be metamict or partly altered in their cores.

Sample 85-39-93 (PTS 164)

This section contains a high proportion of brown biotite and replacement patches of chlorite. Occasional coarse flakes of metamorphic muscovite have developed which crosscut biotite.

Sample 85-39-175 (PTS 168)

Fairly typical with fresh granular feldspar, scattered round grains of garnet, but no traces of graphite.

Sample 85-39-228 (PTS 155)

In contrast to the other samples, the biotite in this section is green. It occurs with blocky grains of hornblende in a feldspar/quartz granular matrix which is slightly more siliceous than the others.

Results - Continued

Sample 85-39-235 (PTS 167)

Flakes of olive-green biotite and clusters of muscovite laths occur in a typical quartz/feldspar granular matrix.

Sample 85-12-81 (PTS 165)

Very coarse flakes of biotite and muscovite are a feature of this schist.

Sample 85-12-85 (PTS 158)

Very similar to previous sample except for presence of coarse grained poikiloblastic garnets.

Sample 85-12-125 (PTS 166)

Coarse plates of blocky tremolite and zones of chlorite alteration are similar to those in PTS 157. Flakes of graphite are often warped and do not always lie along the plane of schistosity. Pyrite occurs as blocky grains and as streaky remobilized fracture fillings.

Sample 85-12-138 (PTS 163)

Typical biotite schist with no graphite.

Sample 85-24-104 (PTS 160)

Very similar in texture and mineral composition to PTS 164, the section shows layers or bands of chloritized biotite and/or feldspar with scattered flakes of graphite. Traces of garnet and a few small grains of clinopyroxene are also present.

Results - Continued

Sample 85-25-28 (PTS 162)

Coarse blocky grains of clinopyroxene (diopside) occur in different layers with very coarse grained biotite. The coarse grain size is also apparent in the apatite and sphene crystals which are also present in one of the layers. No graphite is present but pyrrhotite with traces of chalcopyrite is relatively abundant. A dark green euhedral mineral is tentatively identified as a brittle mica which has been chloritized.

Table No. 1 - Estimated Mineral Proportions in PTS of Samples from Princeton Resources Corp.

Sample	PTS	Or	Fp M'cl	Ab	Qtz	Bi	Musc	Amph	C'Pyx	Ga	Chl	Carb	Sph	Ap	Z	Gra	Py	Po	Others
85-39-09	159	20	15	10	30	5	-	10	-	-	Tr	1	1	1	Tr	1	-	1	Cp
85-39-53	156	15	35	1	30	10	Tr	-	-	-	-	Tr	-	Tr	Tr	4	1	-	Rut.
85-39-68	157	35	8	1	25	12	1	2	-	1	10	-	-	Tr	Tr	1	1	1	Marc.
85-39-79	161	[	25	]	30	3	-	Tr	-	-	10	12	3	Tr	Tr	8	4	-	Seri.
85-39-93	164	20	-	1	30	25	1	1	-	-	20	-	Tr	-	Tr	Tr	Tr	-	
85-39-175	168	30	25	3	20	15	1	-	-	1	-	1	-	Tr	Tr	-	Tr	Tr	
85-39-228	155	30	15	1	35	8	-	4	-	-	-	Tr	1	Tr	Tr	-	Tr	Tr	Il.
85-39-235	167	25	35	3	15	4	4	-	-	-	1	5	-	Tr	Tr	-	-	-	Il. Mag
85-12-81	165	25	30	3	20	10	8	-	-	-	-	Tr	-	Tr	-	-	Tr	-	
85-12-85	158	35	12	8	25	10	4	-	-	1	-	1	-	Tr	Tr	-	-	Tr	
85-12-125	166	20	20	5	20	8	-	10	-	-	10	2	Tr	-	Tr	2	2	-	
85-12-138	163	33	25	1	30	6	1	-	-	-	-	1	Tr	Tr	Tr	-	-	-	Mag.
85-24-104	160	20	5	8	25	18	1	-	Tr	1	15	-	-	-	Tr	1	1	-	
85-25-28	162	15	-	20	25	15	-	-	10	1	2	1	1	1	-	-	-	3	Cp.

Abbreviations:

Fp - Feldspar
Or - Orthoclase
M'cl - Microcline
Qtz - Quartz
Bi - Biotite
Musc - Muscovite
Amph - Amphibole

C'pyx - Clinopyroxene
Ga - Garnet
Chl - Chlorite
Carb - Carbonate
Sph - Sphene
Ap - Apatite
Z - Zircon
Il - Ilmenite

Gra - Graphite
Py - Pyrite
Po - Pyrrhotite
Cp - Chalcopyrite
Rut - Rutile
Marc - Marcasite
Seri - Sericite
Mag - Magnetite

An Investigation of

THE RECOVERY OF GRAPHITE

from samples

submitted by

PRINCETON RESOURCES CORP.

Progress Report No.1

Project No. L.R. 3005

Note:

This report refers to the samples as received.

The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of Lakefield Research.

LAKEFIELD RESEARCH

A Division of Falconbridge Limtied
Lakefield, Ontario
December 20, 1985

INDEX

INTRODUCTION

This report contains the results of testwork conducted on bulk and drill core samples submitted by Princeton Resources Corporation between July and November, 1985.

In a letter dated July 15, 1985, Mr. D. Copeland of Princeton Resources requested that we conduct testwork in two areas:

a) Develop a procedure for determining the recoverable flake graphite content of core samples

b) On bulk samples conduct flowsheet development testwork to assist in design and operation of a pilot plant.

Mr. R.F. Down acted as Metallurgical Consultant for the flowsheet development stage and the results and direction of the program were frequently discussed in meetings and telephone conversations with Mr. Copeland and Mr. Down.

LAKEFIELD RESEARCH

D.M. Wyslouzil, P. Eng.,

Manager.

K.W. Sarbutt,

Chief Project Engineer.

Experimental Work by: R.G. Irwin

J. McCarthy

SUMMARY

1. Core Evaluation

1.1. Development of Procedure

Testwork was conducted on a bulk sample assaying 0.95 % C (graphitic) to develop a grinding and concentration procedure to recover a graphite concentrate. The objective was to maximize the amount and grade of a plus 100 mesh graphite concentrate.

The basic procedure followed in these tests involved rod mill grinding or disc pulverizing of the minus 6 mm ore followed by graphite rougher flotation. The rougher concentrate was screened at 100 mesh and the +100 mesh fraction was cleaned by flotation and gravity separation. The tests were evaluated on ignition loss analyses (L.O.I.) of the final concentrate and the size distribution of the final concentrates. The plus 100 mesh graphite content was calculated from the percent weight recovery of the final concentrate and L.O.I. analysis.

The grinding conditions are summarized in Table 1 and the test conditions and results in Tables 2 and 3.

Table No. 1 - Primary Sample Preparation

Test No.	Procedure	Product % +20 mesh
1	Rod mill grind to minus 20 mesh	0
2	Rod mill grind to minus 20 mesh	0
3	Rod mill grind to minus 20 mesh	0
6	Screen on 20 mesh, pulverize o'size, repeat 3 times	4.5
7	Screen on 20 mesh, grind o'size, dry in rod mill	11
8	Screen on 20 mesh, pulverize o'size once at gap of 0.07 in.	11
9	Stage pulverize to minus 10 mesh	15
10	Screen on 20 mesh, pulverize o'size once at gap of 0.07 in.	15
11	Pulverize entire sample once at gap of 0.07 in.	23
12	Pulverize entire sample once at gap of 0.07 in.	23

Summary - Continued

1. Core Evaluation - Cont'd

Table No. 2 - Test Conditions

Test No.	Rougher Flotation								No. of Cleaners	Prod. Screened 100 Mesh	Gravity* Sep'n
	Reagent Additions						pH	Time			
	Depressant	g/t	Collector	g/t	Frother	g/t					
Std.	Na_2CO_3	1500	Kerosene	150	Pine Oil	35	10.0	5	-	Feed	No
1	Na_2CO_3	1500	Kerosene	150	Pine Oil	70	10.0	6	3	Ro.Conc.	No
2	Na_2CO_3	1500	Fuel Oil	150	DF250	20	9.9	5	1	Cl.Conc.	S.P.
3	Na_2CO_3	1500	Fuel Oil	160	DF250	25	10.0	10	2	Cl.Conc.	S.P.
			Lannagol	160							
6	Na_2CO_3	1500	Kerosene	150	Pine Oil	35	9.9	5	0	Ro.Conc.	No
					DF250	40					
7	Na_2CO_3	1500	Kerosene	150	DF250	40	9.8	5	0	Ro.Conc.	No
8	Na_2CO_3	1500	Kerosene	150	DF250	80	9.8	7	0	Ro.Conc.	No
9	Na_2CO_3	1500	Fuel Oil	150	DF250	60	-	7	2	Cl.Conc.	No
			Lannagol	20							
10	Na_2CO_3	1500	Kerosene	100	DF250	24	9.9	5	2	1st Cl.C	M.S.
11	Na_2CO_3	1500	Kerosene	100	DF250	20	9.8	5	2	Ro.Conc.	M.S.
12	Na_2CO_3	1500	Kerosene	100	DF250	20	9.1	5	-	Ro.Conc.	M.S.
	Sod. Sil.	500	Lannagol	20							

* S.P. refers to Superpanner Concentrate

M.S. refers to Mozley Mineral Separator.

Table No. 3 - Test Results

Test No.	Rougher Conc.			Final Conc.					
	Weight %	Assay,%		Weight %	Assay,%		+100 Mesh Graphite Content,%	% Recy* C(G)	% Weight +35 mesh
		L.O.I.	C(G)		L.O.I.	C(G)			
1	1.11	40.2	-	0.94	76.9	-	0.72	76	17.5
2	3.21	34.6	28.7	0.69	92.1	87.7	0.64	67	12.4
3	5.04	21.2	-	0.75	83.1	-	0.62	65	26.1
6	2.30	-	-	1.76	50.5	-	0.89	94	50.0
7	3.30	-	-	2.07	40.1	-	0.83	87	38.0
8	3.96	-	-	2.69	34.4	-	0.92	97	53.0
9	2.27	-	-	1.10	63.0	-	0.69	73	38.0
10	2.27	-	-	0.85	85.2	-	0.72	76	41.1
11	2.21	-	-	1.00	74.5	-	0.75	79	34.1
12	2.59	-	-	0.49	94.0	-	0.46	48	15.0

* Assume all L.O.I. in conc. as graphite, graphite head 0.95

Summary - Continued

1. Core Evaluation - Cont'd

High-grade products with good weight recoveries were obtained after pulverizing either the plus 20 mesh or the minus 6 mm material as in Tests 10 and 11. High-grade products were obtained after rod milling but the product was somewhat finer and weight recoveries lower. In Test 12 the +100 mesh rougher concentrate was treated by gravity separation instead of a 2nd cleaner concentrate. The gravity separation response was poor in this test. A high grade product was obtained but the recovery was low.

From this testwork the procedure decided upon for evaluation of the core samples based on simplicity and metallurgical efficiency was:

(a) Crush sample using disc pulverizer to approximately 80 percent passing 200 mesh (0.07 inch opening in pulverizer).

(b) Float a graphite concentrate with 1.5 kg/t Na_2CO_3, 150 g/t Kerosene, 40 g/t DF250.

(c) Screen rougher concentrate at 100 mesh.

(d) Clean +100 mesh by flotation with 500 g/t Na_2CO_3, 250 g/t Na_2SiO_3, 20 g/t DF250.

(e) Upgrade +100 mesh cleaner concentrate by gravity separation on Mozley mineral separator. Combine Mozley tailing with cleaner tailing.

(f) Size final concentrate at 20, 35 and 65 mesh. Assay fractions for L.O.I.

(g) Calculate +100 mesh graphite content based on rougher concentrate weight and L.O.I. and cleaner concentrate weight and L.O.I.

Summary - Continued

1. Core Evaluation - Cont'd

1.2. +100 mesh Graphite Determination

76 core samples were treated by the procedure outlined above. The results are shown in Table 4.

Six of the samples had previously been analysed for C (graphitic) and the relationship between the assayed graphite content and the +100 mesh graphite based on the rougher concentrate from the test is shown in Figure 1.

Subsequent core samples were analysed for C (g) and the +100 mesh graphite content estimated. The results are shown in Table 5.

Table No. 4 - 100 mesh Graphite Determination

Sample Number	Ro. Conc. +100 Mesh		Cleaner Concentrate						% +100 Mesh Graphite	
	Weight	Assay %	Weight	Assay %	Size Distr. % Wgt. Ret.				Based on	Based on
	%	LOI	%	LOI	20M	35 M	65 M	100 M	Ro. Conc.	Cl. Conc.
6101	2.91	69.7	2.31	85.5	5.0	39.5	43.8	11.7	2.03	1.98
6102	1.86	67.4	1.44	84.4	3.8	34.3	47.8	14.2	1.25	1.22
6103	1.93	63.5	1.40	84.9	1.4	25.7	50.7	22.1	1.23	1.19
6104	3.26	61.2	2.12	91.9	0.7	14.6	51.1	33.6	2.00	1.95
6105	2.26	74.6	1.79	92.0	3.3	31.6	46.8	18.3	1.69	1.65
6106	3.84	57.7	2.70	78.3	1.1	19.8	49.0	30.1	2.22	2.11
6107	2.70	65.8	2.11	82.1	3.1	33.1	48.0	15.8	1.77	1.73
6108	4.25	62.3	2.98	84.5	0.5	21.8	55.9	21.8	2.65	2.52
6109	4.61	53.0	3.03	76.6	0.7	16.2	53.0	30.1	2.44	2.32
6110	3.08	68.0	2.25	90.5	1.1	25.2	50.7	23.0	2.10	2.04
6116	1.86	67.4	1.35	90.1	2.9	30.2	48.9	18.0	1.25	1.22
6117	1.43	68.8	1.09	89.1	1.8	29.5	52.1	16.6	0.98	0.97
6118	1.89	64.5	1.34	88.6	3.3	33.2	48.0	15.5	1.22	1.19
6119	1.79	68.6	1.34	90.1	2.2	31.1	50.4	16.3	1.23	1.21
6121	1.50	65.2	1.10	86.6	2.7	31.2	47.5	18.6	0.98	0.95
6122	1.69	65.4	1.26	86.1	1.2	26.9	49.8	22.1	1.11	1.09
6123	1.51	56.1	0.99	82.5	1.5	27.3	62.6	8.6	0.85	0.81
6124	1.62	63.7	1.15	86.1	1.2	25.8	48.8	24.2	1.03	0.99
6125	2.03	70.7	1.59	88.8	2.2	27.9	60.8	9.1	1.44	1.41
6126	3.02	56.0	2.10	77.3	1.7	26.3	56.9	15.2	1.69	1.62
6127	2.99	44.6	1.97	63.9	0.3	14.4	67.1	18.2	1.34	1.26
6128	2.55	62.0	1.81	84.7	1.1	23.1	59.9	15.9	1.58	1.53
6130	1.44	64.6	1.01	86.9	5.4	42.4	37.9	14.3	0.93	0.88
6132	3.45	70.4	2.68	87.0	4.8	39.2	41.1	14.9	2.43	2.33
6134	1.67	64.6	1.14	89.2	11.9	63.9	5.3	18.9	1.08	1.02
6136	2.89	63.3	2.01	87.6	9.9	33.3	40.7	16.1	1.83	1.76
6138	3.77	68.8	2.95	85.8	1.3	25.7	55.3	17.7	2.59	2.53
6140	4.20	59.6	3.00	79.6	1.7	28.8	51.0	18.5	2.50	2.39
6142	1.69	67.4	1.24	88.6	4.4	38.7	39.1	17.7	1.14	1.10
6144	2.23	71.1	1.71	90.8	1.5	31.1	50.9	16.6	1.58	1.55
6146	2.44	77.3	2.03	91.1	3.7	37.3	51.7	7.4	1.89	1.85
6148	3.87	67.3	2.88	86.6	2.3	31.8	46.9	19.0	2.60	2.49
6150	2.43	75.7	1.96	92.2	2.5	32.8	42.8	21.9	1.84	1.80
6152	1.99	65.8	1.48	86.0	0.7	29.1	62.9	7.4	1.31	1.27
6154	2.75	66.1	2.02	87.0	1.2	27.6	52.0	19.3	1.82	1.76
6156	1.51	69.9	1.13	89.8	5.8	38.9	40.3	15.0	1.05	1.01
6158	1.12	63.0	0.78	86.6	5.0	36.3	41.3	17.5	0.71	0.68
6160	3.49	60.0	2.97	69.2	8.1	48.8	35.4	7.7	2.09	2.05
6162	1.37	74.0	1.08	91.2	2.8	37.3	41.5	18.4	1.01	0.99
6164	2.05	67.4	1.56	85.3	6.1	43.8	39.0	11.2	1.39	1.33
6166	4.43	53.9	2.69	81.3	0.6	21.3	50.0	28.2	2.39	2.19
6168	1.86	70.3	1.50	85.4	4.9	41.8	40.5	12.8	1.31	1.28
6170	1.90	67.9	1.51	83.9	5.3	40.9	38.9	14.9	1.29	1.27
6172	2.36	64.6	1.73	85.9	5.6	40.3	48.2	5.9	1.53	1.49
6174	2.96	69.3	2.41	82.6	4.5	38.9	44.8	11.9	2.05	1.99
6177	1.39	49.0	0.93	71.0	2.7	35.9	54.4	7.1	0.68	0.66
6180	3.29	70.7	2.52	87.7	1.8	30.4	48.3	19.5	2.33	2.21
6182	2.75	51.7	1.81	74.9	1.4	29.8	60.4	8.4	1.43	1.36
6190	1.31	58.4	0.88	83.0	8.5	43.5	33.3	14.7	0.77	0.73
6192	2.23	74.3	1.70	94.6	2.9	35.4	41.2	20.6	1.66	1.61
6194	2.38	64.4	1.79	82.7	3.1	32.7	46.0	18.3	1.54	1.48
6196	3.38	69.7	2.70	85.5	1.5	26.9	50.9	20.7	2.36	2.31
6198	1.74	73.1	1.31	92.6	7.6	42.8	37.5	12.1	1.27	1.22
6200	1.08	59.7	0.71	83.7	5.0	41.1	39.7	14.2	0.65	0.60
6202	1.65	79.4	1.39	92.7	3.9	36.1	44.6	15.4	1.31	1.29
6204	2.31	74.8	1.97	86.2	3.8	39.4	44.4	12.4	1.73	1.70
6206	2.25	49.4	1.23	80.0	2.4	34.2	48.8	14.6	1.11	0.99
6208	1.04	60.5	0.69	86.1	5.8	32.4	43.2	18.7	0.63	0.60
6210	2.93	82.5	2.57	92.6	6.1	44.5	45.3	4.0	2.42	2.38
6212	1.25	54.7	0.81	78.1	4.9	39.6	43.9	11.6	0.68	0.64
6214	1.39	55.3	0.91	81.3	1.6	31.5	47.3	19.6	0.77	0.74
6216	2.20	53.2	1.70	66.6	9.4	48.7	32.6	9.4	1.17	1.13
6218	1.27	53.5	0.90	73.2	1.1	27.9	46.4	24.6	0.68	0.66
6220	1.32	62.5	0.91	89.0	1.7	21.4	53.9	23.1	0.82	0.81
6222	1.50	66.1	1.19	82.0	1.3	31.4	60.7	6.7	0.99	0.98
6224	0.98	59.2	0.67	83.2	2.2	36.3	44.4	17.0	0.58	0.56
6266	2.52	73.0	2.05	87.1	6.1	37.1	40.3	16.5	1.84	1.79
6228	4.23	61.0	2.96	83.4	3.5	29.1	42.1	25.3	2.58	2.47
6230	0.67	55.4	0.41	82.9	8.4	42.2	36.1	13.4	0.37	0.34
6232	2.61	66.6	1.95	86.0	4.6	42.9	41.1	11.4	1.74	1.68
6234	0.68	54.4	0.41	85.1	1.2	34.9	42.2	21.7	0.37	0.35
6236	1.50	55.0	1.06	74.9	3.3	33.3	49.8	13.6	0.82	0.80
6238	4.31	49.1	2.71	73.9	0.6	16.5	52.2	30.8	2.12	2.00
6240	4.80	67.5	3.79	83.6	3.5	32.6	45.6	18.3	3.24	3.17
6242	0.96	67.1	0.74	85.3	2.0	32.2	63.1	2.7	0.64	0.63
6244	2.41	70.1	1.85	89.4	0.5	21.1	47.6	30.8	1.69	1.66

FIGURE 1

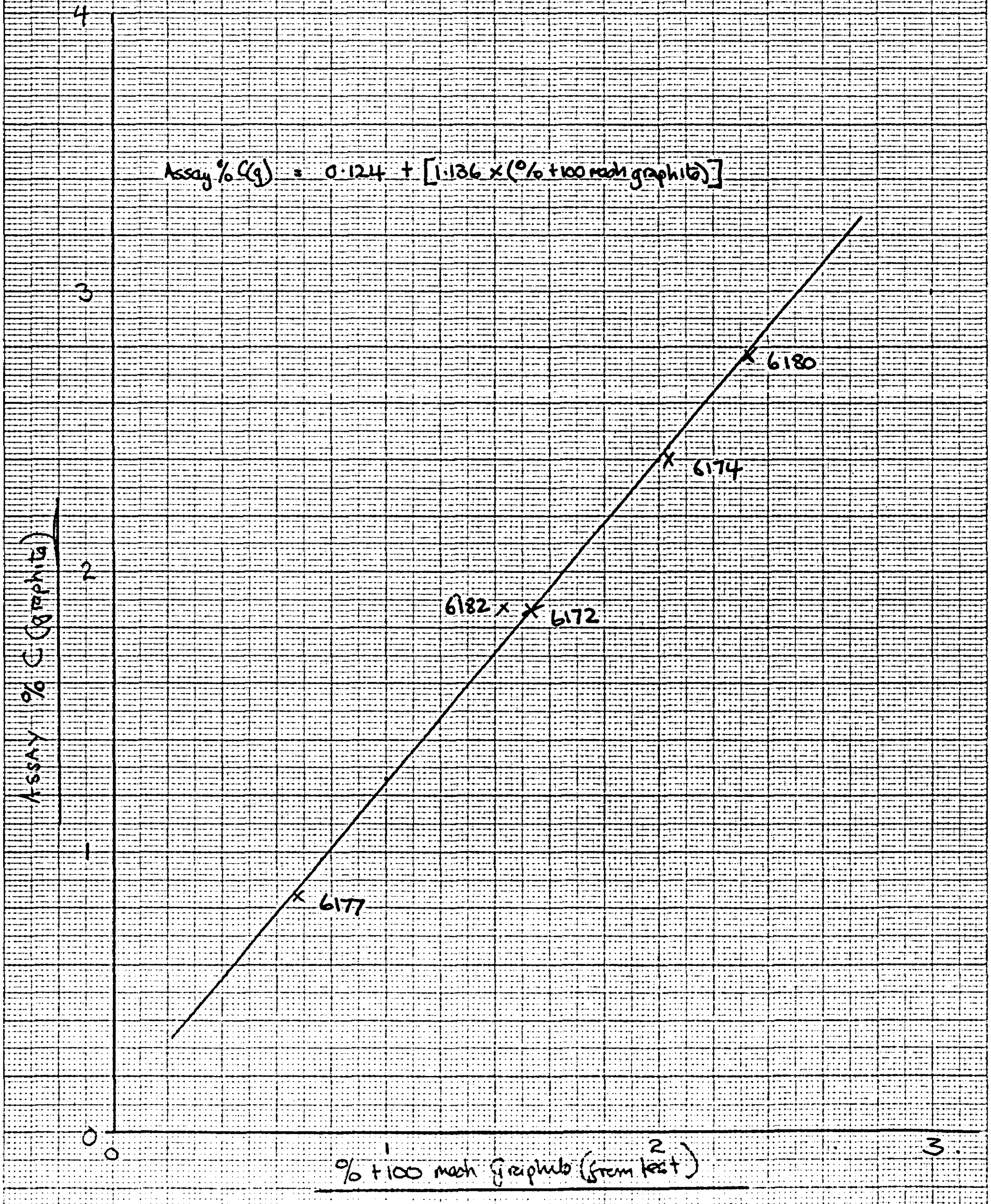

Assay % C(g) = 0·124 + [1·136 x (% +100 mesh graphite)]
4
3
2
1
0
0
1
2
3
6180
6174
6182
6172
6177
ASSAY % C (graphite)
% +100 mesh Graphite (from test)

Table No. 5 - Core Analyses

Sample Number	Assay % C (g)	% +100 mesh Graphite est.
6246	0.90	0.68
6248	2.21	1.84
6250	1.79	1.47
6252	2.00	1.65
6254	0.32	0.17
6256	2.94	2.48
6258	3.30	2.80
6260	1.51	1.22
6262	1.00	0.77
6264	1.97	1.63
6266	1.95	1.61
6268	2.09	1.73
6270	0.39	0.23
6272	3.17	2.68
6274	2.46	2.06
6276	1.48	1.19
6278	3.00	2.53
6280	2.77	2.33
6282	0.92	0.70
6284	0.63	0.45
6286	3.02	2.55
6288	1.88	1.55
6290	3.14	2.65
6292	3.11	2.63
6294	3.33	2.82
6296	3.00	2.53
6298	2.62	2.20
6300	1.79	1.47
7502	1.21	0.96
7504	1.74	1.42
7506	2.14	1.77
7508	3.09	2.61
7510	1.06	0.82
7512	1.24	0.98
7514	1.46	1.18
7516	1.25	0.99
7518	0.94	0.72
7520	2.20	1.83
7522	2.47	2.07
7524	3.02	2.55
7526	3.58	3.04
7528	1.70	1.39
7530	1.38	1.11
7532	1.48	1.19
7534	3.10	2.62
7536	1.86	1.53
7538	1.80	1.48
7540	1.07	0.83
7542	2.49	2.08
7544	2.09	1.73
7546	1.86	1.53
7548	1.39	1.11
7550	1.08	0.84
7552	0.83	0.62
7554	2.46	2.06
7556	2.41	2.01
7558	2.59	2.17
7560	2.66	2.23
7562	1.38	1.11
7564	1.13	0.89
7566	2.20	1.83
7568	1.66	1.35
7570	3.34	2.83
7572	3.46	2.94
7574	2.79	2.35
7576	1.99	1.64
7578	1.41	1.13
7580	3.25	2.75
7582	2.57	2.15
7584	2.61	2.19
7586	2.68	2.25
7588	1.97	1.63
7590	2.08	1.72
7592		
7594	1.00	0.77
7596	2.67	2.24
7598	0.95	0.73
7600	3.22	2.73
7602	3.57	3.03
7604	2.52	2.11
7606	1.68	1.37
7608	1.13	0.89
7610	1.30	1.04
7612	1.40	1.12
7614	3.12	2.64
7628	1.43	1.15
7630	2.78	2.34
7632	3.73	3.17
7634	2.83	2.38
7636	0.93	0.71
7638	1.20	0.95

Summary - Continued

2. Flowsheet Development

2.1. Head Sample

A composite was prepared from equal weights of the samples listed in Table No. 5.

The composite assayed: 2.01 % C (graphitic)

2.2. Testwork

Tests conducted to examine the effects of replacing the pulverizing stage with a rod mill grind, and decreasing the amounts of reagent on the grade and recovery of a +100 mesh graphite concentrate and also to investigate the grade and recovery of a -100 mesh concentrate. The conditions and results of the tests are summarized in Table No. 6. The final flowsheet developed and followed in Test B11 is shown in Figure 2.

Summary - Continued

2. Flowsheet Development - Cont'd

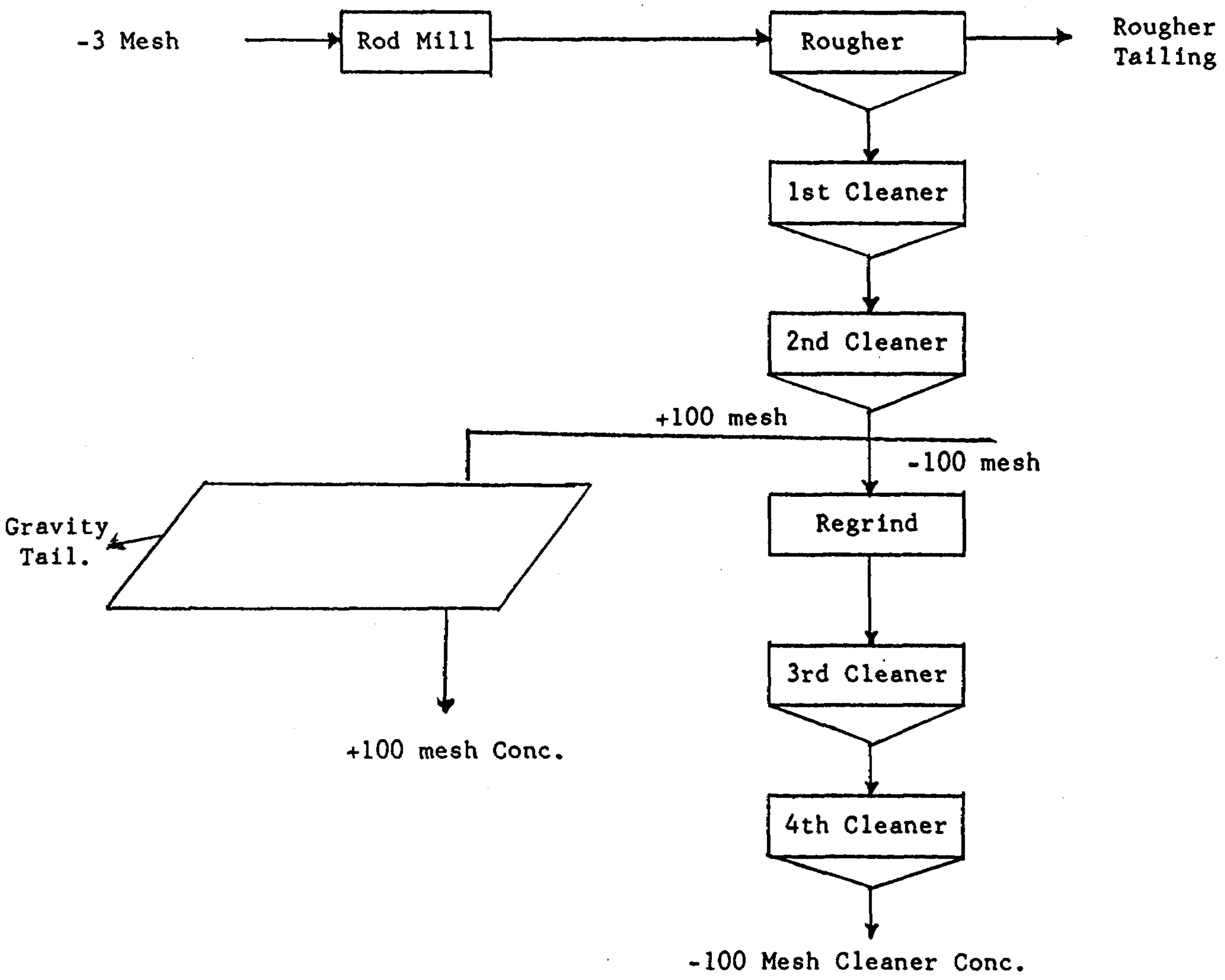
Table No. 6 - Flowsheet Development Tests

Test No.	Grind			Reagents, g/t				Product	Weight %	Assay % C(g)	% Dist. C(g)	+100Mesh Conc. %+35 Mesh
	Equip.	Time	%+20 Mesh	Na_2CO_3	Na_2SiO_3	Kerosene	DF250					
B4	Pul.	-	27.2	1610	550	100	27	+100 Mesh Conc.	1.75	81.0	69.3	35.1
								-100 mesh Conc.	0.47	75.3	17.2	
								Rougher Tailing	95.91	0.25	11.7	
B5	Rod	7.5	11.0	1610	550	100	27	+100 Mesh Conc.	1.89	83.9	75.6	28.9
								-100 Mesh Conc.	0.40	68.7	13.0	
								Rougher Tailing	95.67	0.20	9.1	
B6	Rod	5	14.3	1610	550	100	27	+100 Mesh Conc.	1.98	82.4	79.9	28.3
								-100 Mesh Conc.	0.28	57.6	8.0	
								Rougher Tailing	95.79	0.21	9.8	
B7	Rod	10	8.8	1610	550	100	27	+100 Mesh Conc.	1.93	84.8	77.6	22.8
								-100 Mesh Conc.	0.34	68.3	11.1	
								Rougher Tailing	95.87	0.20	9.1	
B8	Rod	7.5	11.0	1500	-	40	40	Rougher Conc.	3.38	58.6	93.2	-
								Rougher Tailing	96.62	0.15	6.8	-
B9	Rod	7.5	11.0	2250	600	20	60	+100 M Flot.Conc.	2.22	68.7	72.7	-
								-100 Mesh Conc.	0.55	70.3	18.5	
								Rougher Tailing	96.24	0.18	8.2	
B10	Rod	7.5	11.0	1900	600	-	40	+100 M Flot.Conc.	2.62	65.7	84.2	-
								-100 Mesh Conc.	0.39	45.6	8.6	
								Rougher Tailing	96.18	0.14	6.57	
B11	Rod	7.5	2.3	2200	1300	-	50	+100 Mesh Conc.	1.71	87.4	72.4	20.0
								-100 M. Cl.Conc.	0.45	82.1	17.7	
								Rougher Tailing	96.11	0.14	6.5	

Summary - Continued

2. Flowsheet Develoment - Cont'd

Figure 2 - Test B11 Flowsheet



Summary - Continued

2. Flowsheet Development - Cont'd

Replacing the pulverizing with a short rod mill grind resulted in a finer grind and graphite concentrate, but weight recovery was higher to the +100 mesh concentrate. Decreasing the grind time further resulted in substantial tramp oversize which could not be handled in the flotation stage.

Upgrading of the minus 100 mesh concentrate was difficult and substantial amounts of gangue were being recovered. Regrinding prior to the final cleaner stages resulted in an improvement in grade.

The +100 mesh gravity concentrate was low grade but the grade could be improved by adjusting the gravity separation, as in Test B11.

The products from Test 11 were also assayed for L.O.I.:

+100 mesh Conc. - 90.5 % L.O.I. (1200°C)

-100 mesh Conc. - 87.1 % L.O.I. (1200°C)

3. Bulk Concentrate Production and Analyses

210 kg of a bulk sample assaying 2.4 % C (g) received at Lakefield on October 7, 1985, was processed through crushing, pulverizing, flotation and gravity separation to produce 3.5 kg of +100 mesh gravity concentrate assaying 86.3 % C(g), 90.0 % L.O.I. The size analysis of the concentrate was:

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 14	2.2	2.2	97.8
20	6.5	8.7	91.3
28	21.8	30.5	69.5
35	24.1	54.6	45.4
48	24.0	78.6	21.4
65	11.7	90.3	9.7
100	6.6	96.9	3.1
- 100	3.1	100.0	-
Total	100.0	-	-

SUMMARY - Continued

3. Bulk Concentrate Production and Analyses - Cont'd

Samples of the bulk concentrate and head sample as well as some selected concentrates from the core evaluation work were submitted for a semi-quantitative spectrographic analysis. The results are shown in Table 7.

Table 7 - Semi-Quantitative Spectrographic Analysis of Graphite Concentrates

Element	Concentrate Sample Source						
	Bulk Head	Bulk Conc.	6101	6105	6109	6166	6177
Assay, % L.O.I.	-	90	85.5	92.0	76.6	81.3	71.0
Semi-Quantitative Spectrographic Analysis							
Si	H	MH	H	MH	H	H	H
Fe	MH	M	M	M	MH	MH	MH
Al	MH	M	M	M	MH	MH	MH
Na	MH	ML	ML	L	M	M	MH
Mg	M	ML	MH	MH	MH	MH	MH
Ca	M	L	M	ML	MH	MH	MH
K	ND	ND	ND	ND	ML	ML	M
Zr	ML	ML	T	T	T	T	T
Ti	ML	ML	ML	ML	ML	ML	ML
Pb	VL	ND	T	T	T	T	T
V	VL	ND	ST	ST	ND	ND	ST
Cr	VL	ND	T	ST	T	T	T
Mn	T	T	T	T	T	T	T
Cu	T	ST	ST	ST	ND	ND	ST
Ba	T	T	T	T	VL	T	T
Zn	ST	ND	T	T	T	T	T
Sn	ST	ND	ST	ND	ND	ND	ND
Mo	ST	ND	ST	T	ST	ST	ST
Ni	ST	ND	ST	ST	ST	ST	ST
Bi	ST	VST	ND	ND	ND	ND	ND
Ag	ST	ND	ST	ST	ST	ST	ST
Co	ST	VST	ND	ND	ST	ST	ST
Sr	ND	ND	ND	ND	T	T	T

H - High 3-30%
MH - Medium High 1-10%
M - Medium 0.3-3%
ML - Medium Low 0.1-1%

L - Low 0.03-0.3 %
VL - Very Low 0.01-0.1 %
T - Trace 0.003-0.03 %
ST - Slight Trace 0.001-0.01 %
ND - None Detected

Summary - Continued

4. Tailings Evaluation

An acid producing potential test and a leachate extraction test were conducted on samples of the bulk flotation tailing from the bulk concentrate production test.

The acid producing potential test was conducted following the initial test procedure developed by B.C. Research for the Department of the Environment (Project 1499). The acid producing potential was 3.7 kg/t and the acid consuming ability 13.7 kg/t. The results show that the tailing will not be a source of acid mine drainage.

Leachate extraction tests were conducted following the procedure detailed in Regulation 309 of the Environmental Protection Act of Ontario. The analyses of the natural pH and acid pH solutions are shown in Table 8.

Table No. 8 - Water Analyses

	Concentration, mg/L	
	Natural Leachate	Acid Leachate
Cu	0.19	0.20
Pb	<0.02	<0.02
Zn	0.02	0.19
As	<0.01	0.013
Cd	0.04	0.04
Cr	0.04	0.04
Ba	0.05	0.07
Se	<0.20	<0.20
Hg	<0.001	<0.001
U	<2	<2
F	0.24	0.04
CN^- (Free)	<0.02	<0.02
Cl^-	0.12	1.03
Ag	<0.03	<0.03
NO_3	<0.50	<0.50
B	<0.02	0.02

DETAILS OF TESTS

1. Core Evaluation Procedure Development
2. Core Evaluation
3. Flowsheet Development Tests
4. Concentrate Production
5. Tailings Evaluation

1. Core Evaluation Procedure Development

Purpose:	A preliminary test following a standard flotation procedure.
Procedure:	The sample was stage ground to minus 14 mesh. The ground sample was floated to recover graphite.
Feed:	4 kg minus 1/4 mesh composite sample.
Grind:	Stage ground in lab rod mill containing 15.2 kg of steel rods to minus 14 mesh. Stages of 10 and 2 minutes.

Conditions:

Stage	Reagents Added, grams/tonne			Time, minutes		pH
	Na_2CO_3	Kerosne	Pine Oil	Cond.	Froth	
Stage grind to minus 14 mesh. Decant to remove excess water						
Rougher Flotation:						
Flotation	1500	150	50	3	3	10.1
	-	-	25	1	3	-
Screen rougher concentrate on 100 mesh. Filter the undersize. Refloat the oversize to recover a high grade graphite concentrate.						
1st Cleaner	-	-	-	1	5	-
2nd Cleaner	-	-	-	1	3	-
3rd Cleaner	-	-	-	1	2	-

Stage	Rougher	Cleaner
Flotation Cell	1000 g Agitair	250 g Agitair
Speed: r.p.m.	1600	1000
% Solids	50	

Metallurgical Results

Product	Weight %	Assays, % L.O.I.,1000°C	% Distribution L.O.I.
1. Cleaner Concentrate	0.94	76.9	40.8
2. 1-3rd Cl. Tailing	0.17	4.23	0.4
3. -100 mesh Ro. Conc.	1.45	23.5	19.2
4. Rougher Tailing	97.44	0.72	39.6
Head (calculated)	100.00	1.77	100.0

Calculated Grades and Recoveries

Products 1 plus 2	1.11	65.8	51.2
Products 1 to 3	2.66	40.2	60.4

Test No. 1 - Continued

Screen Fraction Analysis - Flotation Cl. Conc.

Mesh Size	Weight %	Assays, % L.O.I,
+ 28	4.2	87.2
- 28 + 35	13.3	96.9
- 35 + 48	29.5	78.0
- 48 + 65	25.3	79.7
- 65	27.7	83.7
Head (calculated)	100.0	82.9

Screen Analyses

Cleaner Concentrate 1

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	0.6	0.6	99.4
28	3.6	4.2	95.8
35	13.3	17.5	82.5
48	29.5	47.0	53.0
65	25.3	72.3	27.7
- 65	27.7	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 14	0.1	0.1	99.9
20	7.8	7.9	92.1
28	14.8	22.7	77.3
35	13.1	35.8	64.2
48	15.5	51.3	48.7
65	11.1	62.4	37.6
100	8.2	70.6	29.4
150	6.4	77.0	23.0
200	4.1	81.1	18.9
- 200	18.9	100.0	-
Total	100.0	-	-

Test No. 2

Purpose:	To conduct a flotation test with a fuel oil Lannagol OP-6 mixture as collector followed by gravity separation.
Procedure:	As below.
Feed:	4 kg minus 1/4 inch composite sample.
Grind:	Stage ground in lab rod mill to minus 14 mesh (two stages of 8 minutes and 3 minutes).

Conditions:

Stage	Reagents Added, grams/tonne			Time, minutes		pH
	Na_2CO_3	Fuel Oil	DF250	Cond.	Froth	
Rougher Flotation	1500 -	150 -	10 10	3 1	2 3	10.0 -
Screen rougher concentrate on 100 mesh to remove U/S and clean the plus 100 mesh.						
Cleaner	-	-	2	1	5	-
The flotation cleaner concentrate was treated on a superpanner separator to make a high grade product.						

Stage	Rougher	Cleaner
Flotation Cell	1000 g D-2	250 g Agitair
Speed: r.p.m.	1500	1000
% Solids	50	

Metallurgical Results

Product	Weight %	Assays, %		% Distribution	
		C(G)	L.O.I.	C(G)	L.O.I.
1. Superpanner Conc.	0.69	87.7	92.1	64.0	35.9
2. Superpanner Tailing	0.10	13.2	15.7	1.4	0.9
3. Cleaner Tailing	0.15	1.15	2.21	0.2	0.2
4. -100 Mesh Ro. Conc.	2.27	13.3	20.1	31.8	25.8
5. Rougher tailing	96.79	<0.05*	0.68	2.6	37.2
Head (calculated)	100.00	0.95	1.77	100.0	100.0
Head (direct)	-	1.14	-	-	-

Calculated Grades and Recoveries

Products 1 to 4	3.21	28.7	34.6	97.4	62.8
Products 1 to 3	0.94	66.0	69.6		
Products 1 plus 2	0.79	78.3	82.4		

Test No. 2 - Continued

Screen Fraction Analysis - Superpanner Concentrate

Mesh Size	Weight %	Assays, %	
		C(G)	L.O.I.
+ 35	12.4	92.9	96.5
- 35 + 48	27.5	91.4	94.0
- 48 + 65	27.5	90.5	91.6
- 65	32.6	84.9	89.8
Head (calc.)	100.0	89.2	92.3

Screen Analyses

Superpanner Concentrate

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 28	2.4	2.4	97.8
35	10.0	12.4	87.6
48	27.5	39.9	60.1
65	27.5	67.4	32.6
- 65	32.6	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 14	0.1	0.1	99.9
20	9.9	10.0	90.0
28	15.6	25.6	74.4
35	16.4	42.0	58.0
48	14.4	56.4	43.6
65	10.9	67.3	32.7
100	8.3	75.6	24.4
150	6.4	82.0	18.0
200	4.0	86.0	14.0
- 200	14.0	100.0	-
Total	100.0	-	-

Test No. 3

Purpose: To determine the effect of a finer primary grind.

Procedure: As below.

Feed: 4 kg minus 1/4 inch bulk sample.

Grind: Stage grind to minus 20 mesh in lab rod mill.

Conditions:

<table>
<tr><th rowspan="2">Stage</th><th colspan="3">Reagents Added, grams/tonne</th><th colspan="2">Time, minutes</th><th rowspan="2">pH</th></tr>
<tr><th>Na_2CO_3</th><th>Fuel Oil*</th><th>DF250</th><th>Cond.</th><th>Froth</th></tr>
<tr><td colspan="7">The sample was dry screened on 20 mesh and the oversize ground 10 minutes at 65 percent solids in the rod mill. The ground product was screened on 20 mesh and the oversize reground for 5 minutes. The mill product was screened and the oversize reduced to minus 20 mesh with a pestal and mortar. The combined minus 20 mesh was then transferred to a D-2 flotation cell.</td></tr>
<tr><td>Rougher</td><td>1500</td><td>80</td><td>12.5</td><td>2</td><td>5</td><td>10.0</td></tr>
<tr><td></td><td>-</td><td>80</td><td>12.5</td><td>1</td><td>5</td><td>-</td></tr>
<tr><td>Ro. 1st Cleaner</td><td>-</td><td>-</td><td>-</td><td>1</td><td>5</td><td>-</td></tr>
<tr><td>Ro. 2nd Cleaner</td><td>-</td><td>-</td><td>-</td><td>1</td><td>4</td><td>-</td></tr>
<tr><td colspan="6">The cleaner concentrate was screened on 100 mesh and the plus 100 mesh was gravity separated using the superpanner.</td><td></td></tr>
</table>

* 50/50 mixture of Fuel Oil and Lannagol OP-6

Stage	Rougher	Ro. 1st Cl.	Ro. 2nd Cl.
Flotation Cell	5000 g D-2	1000 g D-2	500 g D-1
Speed: r.p.m.	1600	1000	1200

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	% Distribution L.O.I.
1. Superpanner Conc.	0.75	83.1	32.1
2. Superpanner Tailing	0.15	6.53	0.5
3. -100 mesh Ro.Cl.Conc.	0.92	44.3	21.0
4. Rougher Cl. Tailing	3.22	4.26	1.5
5. Rougher Tailing	94.96	0.92	44.9
Head (calculated)	100.00	1.94	100.0

Calculated Grades and Recoveries

Products 1 plus 2	0.90	70.34	32.6
Products 1 to 3	1.82	57.18	53.6
Products 1 to 4	5.04	21.24	55.1

Test No. 3 - Continued

Screen Analysis

Rougher Tailing

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 28	10.3	10.3	89.7
35	15.8	26.1	73.9
48	19.2	45.3	54.7
65	13.1	58.4	41.6
100	10.2	68.6	31.4
150	8.3	76.9	23.1
200	5.2	82.1	17.9
- 200	17.9	100.0	-
Total	100.0	-	-

Test No. 4

Purpose: To evaluate the graphite content of Sample SN 6174 by stage grinding to minus 20 mesh, floating graphite as in test 3, cleaning and screening out minus 100 mesh fines and final upgrading by gravity as in test 3.

Procedure: As noted and as shown below. A 2000 gram sample of minus 1/4 inch ore sample was pre-screened on 20 mesh, then stage ground in a laboratory rod mill, screening after each stage.

Feed: 2000 grams minus 1/4 inch Sample SN 6174 ore.

Grind: 5 minutes and 3 minutes at 65 percent solids on plus 20 mesh fraction in a laboratory rod mill.

Conditions:

Stage	Reagents Added, g/t				Time, minutes			pH
	Na_2CO_3	Metso Gran Na_2SiO_3	Fuel* Oil	DF250	Grind	Cond.	Froth	
Screen -1/4" ore in 20 mesh								
Stage grind +20 mesh oversize in rod mill					5, 3	-	-	-
Screen on 20 mesh after each stage.								
Transfer to 1000 gram D-1 cell.								
Graphite Flotation:								
Condition	1500	-	-	-	-	2	-	10.5
G. Ro. Conc. 1	-	-	80	12	-	2	3	-
	-	-	-	4	-	1	2	-
G. Ro. Conc. 2	-	-	40	4	-	1	3	-
Combine and clean graphite conc. 1+2 (twice in 250 g D-1 cell)								10.2
G. 1st Cleaner	-	-	-	-	-	1	3	9.5
	-	-	-	2	-	1	2	-
G. 2nd Cleaner	-	-	-	-	-	1	4	-

* Fuel Oil Emulsion

Stage	G. Rougher Float
Flotation Cell	1000 g D-1
Speed: r.p.m.	1800

Test No. 4 - Continued

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	% Distribution L.O.I.	% Distribution C(G)
1. Cleaner Conc. +100 mesh	2.90	77.4	66.3	93.5*
2. Cleaner Conc. -100 mesh	0.40	60.3	7.1	
3. 2nd Cleaner Tailing	0.46	10.4	1.4	
4. 1st Cleaner Tailing	0.87	6.38	1.6	
5. Rougher Tailing	95.37	0.84	23.6	
Head (calculated)	100.00	3.39	100.0	

Head Analysis - C(G) = 2.40

* Calculated from C(G) Head and assuming all L.O.I. in conc. as C(G)

Test No. 5

Purpose: To repeat the conditions of Test 4 on sample SN 6180 in order to evaluate the graphite content, size distribution and flotation reponse of another ore sample.

Procedure: As in test 4.

Feed: 2000 grams minus 1/4 inch Sample SN 6180 ore.

Grind: 5 minutes and 3 minutes at 65 percent solids on plus 20 mesh fraction in a laboratory rod mill.

Conditions:

Stage	Reagents Added, grams/tonne			Time, minutes			pH
	Na_2CO_3	Fuel Oil Emul.	DF250	Grind	Cond.	Froth	
Screen -1/4 inch ore on 20 mesh.							
Stage grind +20 mesh oversize in rod mill				5,3	-	-	-
Screen on 20 mesh after each stage							
Transfer minus 20 mesh pulp to 1500 g D-1 cell.							
Graphite Flotation:							8.2
Condition	1500	-	-	-	2	-	10.4
G. Ro. Conc. 1	-	80	12	-	2	3	-
	-	-	4	-	1	2	-
G. Ro. Conc. 2	-	40	4	-	1	3	-
G. 1st Cleaner	-	-	-	-	1	3	-
	-	-	2	-	1	2	-
G. 2nd Cleaner	-	-	-	-	1	4	-

Metallurgical Results

Products	Weight %	Assays, %		% Distribution	
		L.O.I.	C(G)	L.O.I.	C(G)
1. Cleaner Conc. +100 mesh	3.69	72.7	69.7	58.7	97.1*
2. Cleaner Conc. -100 mesh	0.57	74.7	-	9.3	-
3. 2nd Cleaner Tailing	0.27	11.0	-	0.7	-
4. 1st Cleaner Tailing	2.05	7.81	-	3.5	-
5. Rougher Tailing	93.42	1.36	-	27.8	-
Head (calculated)	100.00	4.57	-	100.0	-

Head Analysis: c(G) = 2.76

* Calculated from C(G) Head, assuming all L.O.I. in conc. C(G)

Test No. 6

Purpose:	To determine the effect on flake graphite flotation of pulverizing a sample to 80-90% passing 20 mesh.
Procedure:	The sample was dry screened on 20 mesh and the plus 20 mesh fed to a double plate pulverizer. The product was rescreened on 20 mesh. This was continued until the product was +80% passing 20 mesh.
Feed:	2 kg minus 3 mesh bulk sample.
Grind:	Pulverized as below.

Conditions:

Stage	Reagents Added, g/tonne				Time, minutes		pH
	Na_2CO_3	Kerosene	Pine Oil	DF250	Cond.	Froth	
Grind:	Sample was cone crushed to minus 1/4 inch and screened on 20 mesh. The oversize was fed through the pulverizer (gap set at 0.122 inches). The product was screened on 20 mesh and the product repassed and screened. The gap was decreased to 0.087 inches and the sample repassed with screening twice. The gap was further reduced to 0.072 and the plus 20 mesh repassed once. The weight of +20 mesh remaining was 170 grams. The sample was recombined for flotation.						
Rougher	1500	150	35	40	5	5	9.9
	The rougher concentrate was screened on 100 mesh.						

Stage	Rougher
Flotation Cell	1000 g D-2
Speed: r.p.m.	1500
% Solids	33

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	C(T)	% Distribution L.O.I.
1. +100 mesh Ro. Conc.	1.76	50.5	47.7	78.
2. -100 mesh ro. Conc.	0.54	-	-	-
3. Rougher Tailing	97.70	-	-	-
Head (calculated)	100.00	-	-	-

Test No. 6 - Continued

Screen Analysis

+100 Rougher Concentrate

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 28	18.3	18.3	81.7
48	51.9	70.2	29.8
100	26.5	96.7	3.3
- 100	3.3	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 20	4.5	4.5	95.5
28	24.1	28.6	71.4
35	19.6	48.2	51.8
48	14.8	63.0	37.0
65	10.6	73.6	26.4
100	7.2	80.8	19.2
- 100	19.2	100.0	-
Total	100.0	-	-

Test No. 7

Purpose: To determine the effect of flake graphite recovery of dry grinding in the rod mill.

Procedure: The sample was screened on 20 mesh and the oversize ground for 5 minutes in the rod mill. The weight of plus 20 mesh remaining was 210 grams.

Feed: 2 kg minus 3 mesh bulk sample.

Grind: Rod Mill Dry.

Conditions:

Stage	Reagents Added, grams per tonne			Time, minutes		pH
	Na_2CO_3	Kerosene	DF250	Cond.	Froth	
Rougher	1500	150	40	5	5	9.8

The rougher concentrate was screened on 100 mesh.

Metallurgical Results

Product	Weight %	Assays, %		% Distribution
		L.O.I.	C(T)	L.O.I.
1. +100 mesh Ro. Conc.	2.07	40.1	38.5	73.
2. -100 mesh Ro. Conc.	1.23	-	-	-
3. Rougher Tailing	96.70	-	-	-
Head (calculated)	100.00	-	-	-

Test No. 7 - Continued

Screen Analyses

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 28	9.9	9.9	90.1
48	48.3	58.2	41.8
100	36.2	94.4	5.6
- 100	5.6	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 20	9.1	9.1	90.9
28	15.5	24.6	75.4
35	16.6	41.2	58.8
48	15.1	56.3	43.7
65	11.9	68.2	31.8
100	8.6	76.8	23.2
- 100	23.2	100.0	-
Total	100.0	-	-

Test No. 8

Purpose: To determine the effect of pulverizing the +20 mesh material in one pass at a pulverizer gap setting of 0.072 inches.

Procedure: The sample was screened on 20 mesh and the oversize passed through the pulverizer once. Weight of plus 20 mesh remaining 220 grams.

Feed: 2 kg minus 3 mesh bulk sample.

Grind: Pulverized at gap of 0.072 inches.

Conditions:

Stage	Reagents Added, grams/tonne			Time, minutes		pH
	Na_2CO_3	Kerosene	DF250	Cond.	Froth	
Rougher	1500	150	80	5	7	9.8

The rougher concentrate was screened on 100 mesh.

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	C(T)	% Distribution L.O.I.
1. +100 mesh Ro. Conc.	2.69	34.4	33.0	81.
2. -100 mesh Ro. Conc.	1.27	-	-	-
3. Rougher Tailing	96.04	-	-	-
Head (calculated)	100.00	-	-	-

Test No. 8 - Continued

Screen Analyses

+100 Rougher Concentrate

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 28	20.9	20.9	79.1
48	51.0	71.9	28.1
100	24.9	96.8	3.2
- 100	3.2	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 20	6.7	6.7	93.3
28	21.8	28.5	71.5
35	18.6	47.1	52.9
48	14.5	61.6	38.4
65	10.5	72.1	27.9
100	7.3	79.4	20.6
- 100	20.6	100.0	-
Total	100.0	-	-

Test No. 9

Purpose: To determine the effect of crushing to minus 10 mesh.

Procedure: As below.

Feed: 2 kg minus 3 mesh bulk sample.

Grind: Sample was stage pulverized to minus 10 mesh.

Conditions:

Stage	Reagents Added, g/t				Time, minutes		pH
	Na_2CO_3	Fuel Oil	Lannagol OP-6	DF250	Cond.	Froth	
Rougher	1500	150	20	40	5	4	-
	-	-	-	20	1	3	-
1st Cleaner	-	-	-	-	2	3	-
2nd Cleaner	-	-	-	-	2	3	-

Metallurgical Results

Products	Weight %	Assays, % L.O.I.	% Distribution L.O.I.
1. +100 Cleaner Conc.	1.10	63.0	61.
2. -100 Cleaner Conc.	0.54	-	-
3. Cleaner Tailing	0.63	-	-
4. Rougher Tailing	97.73	-	-
Head (calculated)	100.00	-	-

Screen Fraction Analysis Concentrate

+ 28 mesh	5.6	81.4	7.2
- 28 + 48 mesh	51.2	62.5	50.2
- 48 + 100 mesh	38.3	60.8	36.6
- 100 mesh	4.9	78.7	6.0
Head (calculated)	100.0	63.7	100.0

Test No. 9 - Continued

Screen Analysis

Rougher Tailing

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 14	13.4	13.4	86.6
20	15.3	28.7	71.3
28	12.5	41.2	58.8
35	11.5	52.7	47.3
48	10.4	63.1	36.9
65	9.4	72.5	27.5
100	7.0	79.5	20.5
- 100	20.5	100.0	-
Total	100.0	-	-

Test No. 10

Purpose:	To produce a high grade coarse flake graphite concentrate as per test No. 8.
Procedure:	The sample was prepared by screening on 20 mesh with the O/S pulverized in one pass. Rougher flotation conducted followed by one cleaner and screening on 100 mesh. The plus 100 mesh was recleaned and fed to the Mozley separator.
Feed:	2 kg minus 3 mesh ore blend.
Grind:	Screen on 20 mesh. O/S pulverized one pass at 0.07 inch gap.

Conditions:

Stage	Reagents Added, grams/tonne			Time, minutes		pH
	Na_2CO_3	Kerosene	DF250	Cond.	Froth	
Screen on 20 mesh. Pulverize O/S one pass, gap of 0.07 inches.						
Rougher Flotation:						
Rougher	1500	100	20	2	5	9.9
1st Cleaner	-	-	4	1	4	-
Screen 1st Cleaner Concentrate on 100 mesh, reclean the O/S.						
2nd Cleaner	-	-	4	1	3	-
Pass the 2nd cleaner concentrate over the Mozley separator.						

Stage	Rougher	Cleaner
Flotation Cell	1000 g D-1	250 g D-1
Speed: r.p.m.	1500	900
% Solids	33	-

Test No. 10 - Continued

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	% Distribution L.O.I.
1. M.S. Conc. +20 Mesh	0.03	-	-
2. M.S. Conc. +35 mesh	0.33	-	-
3. M.S. Conc. +65 mesh	0.40	-	-
4. M.S. Conc. +100 mesh	0.09	-	-
5. M.S. Tailing	0.42	-	-
6. Cleaner Tailing	0.71	-	-
7. -100 mesh Ro. Conc.	0.29	-	-
8. Rougher Tailing	97.73	-	-
Head (calculated)	100.00	-	-

Calculated Grades and Recoveries

Products 1 to 4	0.85	85.2	-
Products 1 to 5	1.27	-	-
Products 1 to 6	1.98	-	-
Products 1 to 7	2.27	-	-

Screen Analysis

M.S. Concentrate

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	2.9	2.9	97.1
35	38.2	41.1	58.9
65	45.6	86.7	13.3
100	9.8	96.5	3.5
- 100	3.5	100.0	-
Total	100.0	-	-

Test No. 11

Purpose: To determine the effect of pulverizing the entire sample one pass at gap of 0.07 inches.

Procedure: The entire sample was passed through the pulverizer with a gap of 0.07 inches. Rougher flotation was conducted followed by screening on 100 mesh. The +100 mesh was cleaned 2 times and then fed to the Mozley separator.

Feed: 2 kg minus 3 mesh ore blend.

Grind: Pulverize one pass at gap of 0.07 inches.

Conditions:

Stage	Reagents Added, grams/tonne				Time, minutes		pH
	Na_2CO_3	Sod.Sil	Kerosene	DF250	Cond.	Froth	
Pulverize entire sample one pass at gap of 0.07 inches							
Rougher Flotation:							
Rougher	1500	-	100	20	2	5	9.8
Screen rougher concentrate on 100 mesh and clean the O/S using sodium silicate.							
1st Cleaner	500	250	-	-	2	4	10.1
2nd Cleaner	500	250	-	-	2	3	10.3
Pass the 2nd cleaner concentrate over the Mozley separator.							

Stage	Rougher	Cleaner
Flotation Cell	1000 g D-1	250 g D-1
Speed: r.p.m.	1500	900
% Solids	33	

Test No. 11 - Continued

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	% Distribution L.O.I.
1. M.S. Conc. +20 mesh	0.03	-	-
2. M.S. Conc. +35 mesh	0.33	-	-
3. M.S. Conc. +65 mesh	0.54	-	-
4. M.S. Conc. +100 mesh	0.10	-	-
5. M.S. Tailing	0.13	-	-
6. Cleaner Tailing	0.38	-	-
7. -100 mesh Ro. Conc.	0.70	-	-
8. Rougher tailing	97.79	-	-
Head (calculated)	100.00	-	-

Calculated Grades and Recoveries

Products 1 to 4	1.00	74.5	-
Products 1 to 5	1.13	-	-
Products 1 to 6	1.51	-	-
Products 1 to 7	2.21	-	-

Screen Analysis

M.S. Concentrate

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 20	2.4	2.4	97.6
35	31.7	34.1	65.9
65	51.2	85.3	14.7
100	9.8	95.1	4.9
- 100	4.9	100.0	-
Total	100.0	-	-

Test No. 12

Purpose: To determine the effect of omitting the flotation cleaner stages before the Mozley separator.

Procedure: The pulverized feed was conditioned at high density before flotation.

Feed: 2 kg minus 3 mesh ore blend.

Grind: Pulverize entire sample one pass at 0.07 inch gap.

Conditions:

Stage	Reagents Added, grams/tonne					Time, minutes		pH
	Na_2CO_3	Sod. Sil.	Kerosene	Lannagol OP-6	DF250	Cond.	Froth	
Pulverize sample one pass, gap 0.07 inches.								
Rougher Flotation:								
Condition 1	1500	500	-	-	-	2	-	9.2
Condition 2	-	-	100	20	20	2	-	-
Float	-	-	-	-	-	1	5	8.9
Screen on 100 mesh.								
Plus 100 mesh to Mozley separator.								

Metallurgical Results

Product	Weight %	Assays, % L.O.I.	% Distribution L.O.I.
1. M.S. Conc. +20 mesh	0.01	-	-
2. M.S. Conc. +35 mesh	0.07	-	-
3. M.S. Conc. +65 mesh	0.29	-	-
4. M.S. Conc. +100 mesh	0.12	-	-
5. M.S. Tailing	0.52	-	-
6. -100 mesh Ro. Conc.	1.58	-	-
7. Rougher Tailing	97.41	-	-
Head (calculated)	100.00	-	-

Calculated Grades and Recoveries

Products 1 to 4	0.49	94.0	-
Products 1 to 5	1.01	-	-
Products 1 to 6	2.59	-	-

Test No. 12 - Continued

Screen Analyses

M.S. Concentrate

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	1.9	1.9	98.1
35	13.1	15.0	85.0
65	53.3	68.3	31.7
100	22.4	90.7	9.3
- 100	9.3	100.0	-
Total	100.0	-	-

Rougher Tailing

+ 8	0.2	0.2	99.8
10	2.2	2.4	97.6
14	6.0	8.4	91.6
20	14.6	23.0	77.0
28	16.2	39.2	60.8
35	11.1	50.3	49.7
48	11.6	61.9	38.1
65	8.2	70.1	29.9
100	6.0	76.1	23.9
- 100	23.9	100.0	-
Total	100.0	-	-

2. CORE EVALUATION

The Determination of Recoverable +100 mesh Graphite Flake from Individual Core Samples

The following procedure was developed to recover coarse graphite flake from the core samples.

(a) The sample was jaw crushed and cone crushed. A sample of 2100 g was riffled from the sample and passed once through a disc pulverizer set with a gap of 0.07 inches. This product was approximately 80 percent passing 200 mesh. A charge of 2000 g was used as flotation feed.

(b) Rougher flotation was conducted in a 1000 g cell agitated in a Denver D-2 flotation machine. Reagents added were 1.5 kg/t Na_2CO_3, 150 g/t Kerosene and 40 g/t DF250. The flotation time varied from 5 to 15 minutes.

(c) The rougher concentrate was screened on a 100 mesh screen to remove the undersize.

(d) The +100 mesh was cleaned in a 500 g cell using a Denver D-1 flotation machine. Reagents added were 500 g/t Na_2CO_3, 250 g/t Na_2SiO_3 and 20 g/t DF250.

(e) The flotation cleaner concentrate was further upgraded using a Mozley separator. The cleaner tailing and Mozley tailing were combined.

(f) All products were filtered, dried and assayed. The +100 mesh graphite concentrate was dry screened on 20, 35 and 65 mesh screens with the fractions assayed for LOI.

2. Core Evaluation - Continued

Purpose: To recover the +100 mesh graphite.

Procedure: As indicated below.

Feed: 2 kg minus 5 mm core sample.

Grind: Pulverize

Conditions:

Stage	Reagents Added, g/t				Time, minutes		pH
	Na_2CO_3	Metso Gran.	Kerosene	DF250	Cond.	Froth	
Sample pulverized one pass, no screening at gap of 0.07 inches.							
Rougher Flotation:	1500	-	150	40	2	5-15	9.5-10.5
Screen the Ro. Conc. on 100 mesh. Clean the +100 mesh Ro. Conc.							
+100 M Ro. Conc. Cl.	500	250	-	20	2	3-5	10.5
Upgrade the +100 mesh Ro. Cl. Conc. using the Mozley separator. Combine the Ro. Cl. Tail. and Mozley Tail.							

Stage	Rougher	Cleaner
Flotation Cell	1000 g D-2	500 g D-1
Speed rpm	1800	1200

SAMPLE NUMBER :6101

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.3	0.12	93.2
+35 Mesh	18.2	0.91	86.1
+65 Mesh	20.2	1.01	83.1
+100 Mesh	5.4	0.27	89.4
Comb.Cl.Conc.(calc.)	46.1	2.31	85.5
Cl.Tail.	11.9	0.60	8.4
+100 Mesh Ro.Conc.(calc.)	58.0	2.91	69.7
-100 Mesh Ro.Conc.	30.9	1.55	
Rougher Tail.	1903.2	95.54	
Head (calc.)	1992.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.98
Based on +100 Mesh Ro.Conc.	2.03

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.99	4.99	95.01
35	39.48	44.47	55.53
65	43.82	83.30	16.70
100	11.71		

SAMPLE NUMBER :6102

Product	Weight		Assay %
	g.	%	L.O.I.
Cl.Conc.+20 Mesh	1.1	0.05	94.0
+35 Mesh	9.9	0.49	84.5
+65 Mesh	13.8	0.69	82.0
+100 Mesh	4.1	0.20	89.7
Comb.Cl.Conc.(calc.)	28.9	1.44	84.4
Cl.Tail.	8.3	0.41	8.3
+100 Mesh Ro.Conc.(calc.)	37.2	1.86	67.4
-100 Mesh Ro.Conc.	33.9	1.69	
Rougher Tail.	1932.9	96.45	
Head (calc.)	2004	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.22
Based on +100 Mesh Ro.Conc.	1.25

Size Distribution Cleaner Conc.

MESH	% Ret.		% Pass.
	Ind.	Cum.	Cum.
20	3.81	3.81	96.19
35	34.26	38.06	61.94
65	47.75	82.01	17.99
100	14.19		

SAMPLE NUMBER :6103

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.4	0.02	91.1
+35 Mesh	7.2	0.36	79.3
+65 Mesh	14.2	0.71	84.4
+100 Mesh	6.2	0.31	92.0
Comb.Cl.Conc.(calc.)	28.0	1.40	84.9
Cl.Tail.	10.6	0.53	7.0
+100 Mesh Ro.Conc.(calc.)	38.6	1.93	63.5
-100 Mesh Ro.Conc.	34.2	1.71	
Rougher Tail.	1925.8	96.36	
Head (calc.)	1998.6	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.19
Based on +100 Mesh Ro.Conc.	1.23

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.43	1.43	98.57
35	25.71	27.14	72.86
65	50.71	76.43	23.57
100	22.14		

SAMPLE NUMBER :6104

Product	Weight		Assay %
	g.	%	L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	92.0
+35 Mesh	6.2	0.31	89.9
+65 Mesh	21.8	1.09	91.4
+100 Mesh	14.3	0.71	93.6
Comb.Cl.Conc.(calc.)	42.6	2.12	91.9
Cl.Tail.	22.9	1.14	4.1
+100 Mesh Ro.Conc.(calc.)	65.5	3.26	61.2
-100 Mesh Ro.Conc.	64.4	3.21	
Rougher Tail.	1876.8	93.53	
Head (calc.)	2006.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.95
Based on +100 Mesh Ro.Conc.	2.00

Size Distribution Cleaner Conc.

MESH	% Ret.		% Pass.
	Ind.	Cum.	Cum.
20	0.70	0.70	99.30
35	14.55	15.26	84.74
65	51.17	65.73	34.27
100	33.57		

SAMPLE NUMBER :6105

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.2	0.06	95.1
+35 Mesh	11.4	0.57	92.3
+65 Mesh	16.9	0.84	91.1
+100 Mesh	6.6	0.33	93.1
Comb.Cl.Conc.(calc.)	36.1	1.79	92.0
Cl.Tail.	9.5	0.47	8.5
+100 Mesh Ro.Conc.(calc.)	45.6	2.26	74.6
-100 Mesh Ro.Conc.	53.1	2.64	
Rougher Tail.	1914.8	95.10	
Head (calc.)	2013.5	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.65
Based on +100 Mesh Ro.Conc.	1.69

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.32	3.32	96.68
35	31.58	34.90	65.10
65	46.81	78.39	21.61
100	18.28		

SAMPLE NUMBER :6106

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.6	0.03	89.3
+35 Mesh	10.7	0.53	70.8
+65 Mesh	26.5	1.32	77.0
+100 Mesh	16.3	0.81	85.0
Comb.Cl.Conc.(calc.)	54.1	2.70	78.3
Cl.Tail.	22.9	1.14	8.9
+100 Mesh Ro.Conc.(calc.)	77.0	3.84	57.7
-100 Mesh Ro.Conc.	82.1	4.10	
Rougher Tail.	1845.6	92.06	
Head (calc.)	2004.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.11
Based on +100 Mesh Ro.Conc.	2.22

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.11	1.11	98.89
35	19.78	20.89	79.11
65	48.98	68.76	31.24
100	30.13		

SAMPLE NUMBER :6107

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.3	0.06	92.8
+35 Mesh	14.0	0.70	87.7
+65 Mesh	20.3	1.01	74.5
+100 Mesh	6.7	0.33	91.3
Comb.Cl.Conc.(calc.)	42.3	2.11	82.1
Cl.Tail.	11.8	0.59	7.4
+100 Mesh Ro.Conc.(calc.)	54.1	2.70	65.8
-100 Mesh Ro.Conc.	42.3	2.11	
Rougher Tail.	1909.5	95.19	
Head (calc.)	2005.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.73
Based on +100 Mesh Ro.Conc.	1.77

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.07	3.07	96.93
35	33.10	36.17	63.83
65	47.99	81.09	18.91
100	15.84		

SAMPLE NUMBER :6108

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.02	89.3
+35 Mesh	13.0	0.65	82.6
+65 Mesh	33.3	1.67	84.1
+100 Mesh	13.0	0.65	87.4
Comb.Cl.Conc.(calc.)	59.6	2.98	84.5
Cl.Tail.	25.4	1.27	10.2
+100 Mesh Ro.Conc.(calc.)	85.0	4.25	62.3
-100 Mesh Ro.Conc.	60.8	3.04	
Rougher Tail.	1853.1	92.71	
Head (calc.)	1998.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.52
Based on +100 Mesh Ro.Conc.	2.65

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.50	0.50	99.50
35	21.81	22.32	77.68
65	55.87	77.68	22.32
100	21.81		

SAMPLE NUMBER :6109

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.4	0.02	90.2
+35 Mesh	9.9	0.49	72.7
+65 Mesh	32.4	1.61	75.2
+100 Mesh	18.4	0.91	81.0
Comb.Cl.Conc.(calc.)	61.1	3.03	76.6
Cl.Tail.	31.8	1.58	7.6
+100 Mesh Ro.Conc.(calc.)	92.9	4.61	53.0
-100 Mesh Ro.Conc.	81.2	4.03	
Rougher Tail.	1840.0	91.36	
Head (calc.)	2014.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.32
Based on +100 Mesh Ro.Conc.	2.44

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.65	0.65	99.35
35	16.20	16.86	83.14
65	53.03	69.23	30.77
100	30.11		

SAMPLE NUMBER :6110

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.5	0.02	93.2
+35 Mesh	11.5	0.57	90.3
+65 Mesh	23.1	1.14	90.1
+100 Mesh	10.5	0.52	91.3
Comb.Cl.Conc.(calc.)	45.6	2.25	90.5
Cl.Tail.	16.8	0.83	7.1
+100 Mesh Ro.Conc.(calc.)	62.4	3.08	68.0
-100 Mesh Ro.Conc.	70.6	3.49	
Rougher Tail.	1890.8	93.43	
Head (calc.)	2023.8	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.04
Based on +100 Mesh Ro.Conc.	2.10

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.10	1.10	98.90
35	25.22	26.32	73.68
65	50.66	75.88	24.12
100	23.03		

SAMPLE NUMBER :6116

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	92.4
+35 Mesh	8.2	0.41	87.5
+65 Mesh	13.3	0.66	90.7
+100 Mesh	4.9	0.24	92.6
Comb.Cl.Conc.(calc.)	27.2	1.35	90.1
Cl.Tail.	10.2	0.51	6.9
+100 Mesh Ro.Conc.(calc.)	37.4	1.86	67.4
-100 Mesh Ro.Conc.	39.3	1.95	
Rougher Tail.	1937.3	96.19	
Head (calc.)	2014	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.22
Based on +100 Mesh Ro.Conc.	1.25

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.94	2.94	97.06
35	30.15	33.09	66.91
65	48.90	79.04	20.96
100	18.01		

SAMPLE NUMBER :6117

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.4	0.02	89.7
+35 Mesh	6.4	0.32	87.5
+65 Mesh	11.3	0.57	89.0
+100 Mesh	3.6	0.18	92.1
Comb.Cl.Conc.(calc.)	21.7	1.09	89.1
Cl.Tail.	6.8	0.34	4.2
+100 Mesh Ro.Conc.(calc.)	28.5	1.43	68.8
-100 Mesh Ro.Conc.	30.3	1.52	
Rougher Tail.	1937.3	97.05	
Head (calc.)	1996.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.97
Based on +100 Mesh Ro.Conc.	0.98

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.84	1.84	98.16
35	29.49	31.34	68.66
65	52.07	81.57	18.43
100	16.59		

SAMPLE NUMBER :6118

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.9	0.04	92.7
+35 Mesh	9.0	0.45	86.5
+65 Mesh	13.0	0.64	88.8
+100 Mesh	4.2	0.21	91.5
Comb.Cl.Conc.(calc.)	27.1	1.34	88.6
Cl.Tail.	11.0	0.55	5.3
+100 Mesh Ro.Conc.(calc.)	38.1	1.89	64.5
-100 Mesh Ro.Conc.	39.7	1.97	
Rougher Tail.	1939.6	96.14	
Head (calc.)	2017.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.19
Based on +100 Mesh Ro.Conc.	1.22

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.32	3.32	96.68
35	33.21	36.53	63.47
65	47.97	81.18	18.82
100	15.50		

SAMPLE NUMBER :6119

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.6	0.03	92.0
+35 Mesh	8.4	0.42	89.0
+65 Mesh	13.6	0.68	89.8
+100 Mesh	4.4	0.22	92.9
Comb.Cl.Conc.(calc.)	27.0	1.34	90.1
Cl.Tail.	9.1	0.45	4.9
+100 Mesh Ro.Conc.(calc.)	36.1	1.79	68.6
-100 Mesh Ro.Conc.	34.5	1.71	
Rougher Tail.	1943.1	96.49	
Head (calc.)	2013.7	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.21
Based on +100 Mesh Ro.Conc.	1.23

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.22	2.22	97.78
35	31.11	33.33	66.67
65	50.37	81.48	18.52
100	16.30		

SAMPLE NUMBER :6121

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.6	0.03	92.1
+35 Mesh	6.9	0.34	82.1
+65 Mesh	10.5	0.52	87.0
+100 Mesh	4.1	0.20	92.1
Comb.Cl.Conc.(calc.)	22.1	1.10	86.6
Cl.Tail.	8.0	0.40	6.3
+100 Mesh Ro.Conc.(calc.)	30.1	1.50	65.2
-100 Mesh Ro.Conc.	28.3	1.41	
Rougher Tail.	1952.3	97.10	
Head (calc.)	2010.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.95
Based on +100 Mesh Ro.Conc.	0.98

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.71	2.71	97.29
35	31.22	33.94	66.06
65	47.51	78.73	21.27
100	18.55		

SAMPLE NUMBER :6122

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	84.2
+35 Mesh	6.8	0.34	81.5
+65 Mesh	12.6	0.63	86.5
+100 Mesh	5.6	0.28	90.8
Comb.Cl.Conc.(calc.)	25.3	1.26	86.1
Cl.Tail.	8.6	0.43	4.6
+100 Mesh Ro.Conc.(calc.)	33.9	1.69	65.4
-100 Mesh Ro.Conc.	32.7	1.63	
Rougher Tail.	1939.5	96.68	
Head (calc.)	2006.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.09
Based on +100 Mesh Ro.Conc.	1.11

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.19	1.19	98.81
35	26.88	28.06	71.94
65	49.80	76.68	23.32
100	22.13		

SAMPLE NUMBER :6123

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	77.5
+35 Mesh	5.4	0.27	73.5
+65 Mesh	12.4	0.62	85.2
+100 Mesh	1.7	0.08	92.0
Comb.Cl.Conc.(calc.)	19.8	0.99	82.5
Cl.Tail.	10.5	0.52	6.3
+100 Mesh Ro.Conc.(calc.)	30.3	1.51	56.1
-100 Mesh Ro.Conc.	47.6	2.37	
Rougher Tail.	1930.6	96.12	
Head (calc.)	2008.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.81
Based on +100 Mesh Ro.Conc.	0.85

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.52	1.52	98.48
35	27.27	28.79	71.21
65	62.63	89.90	10.10
100	8.59		

SAMPLE NUMBER :6124

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	86.6
+35 Mesh	6.3	0.30	83.0
+65 Mesh	11.9	0.56	85.8
+100 Mesh	5.9	0.28	90.1
Comb.Cl.Conc.(calc.)	24.4	1.15	86.1
Cl.Tail.	9.9	0.47	8.3
+100 Mesh Ro.Conc.(calc.)	34.3	1.62	63.7
-100 Mesh Ro.Conc.	56.5	2.67	
Rougher Tail.	2028.0	95.71	
Head (calc.)	2118.8	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.99
Based on +100 Mesh Ro.Conc.	1.03

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.23	1.23	98.77
35	25.82	27.05	72.95
65	48.77	74.59	25.41
100	24.18		

SAMPLE NUMBER :6125

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.7	0.03	95.6
+35 Mesh	8.9	0.44	88.3
+65 Mesh	19.4	0.97	88.1
+100 Mesh	2.9	0.14	93.3
Comb.Cl.Conc.(calc.)	31.9	1.59	88.8
Cl.Tail.	8.9	0.44	5.8
+100 Mesh Ro.Conc.(calc.)	40.8	2.03	70.7
-100 Mesh Ro.Conc.	41.3	2.06	
Rougher Tail.	1926.4	95.91	
Head (calc.)	2008.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.41
Based on +100 Mesh Ro.Conc.	1.44

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.19	2.19	97.81
35	27.90	30.09	69.91
65	60.82	88.71	11.29
100	9.09		

SAMPLE NUMBER :6126

Product	Weight		Assay %
	g.	%	L.O.I.
Cl.Conc.+20 Mesh	0.7	0.03	88.3
+35 Mesh	11.1	0.55	75.7
+65 Mesh	24.0	1.20	76.5
+100 Mesh	6.4	0.32	82.0
Comb.Cl.Conc.(calc.)	42.2	2.10	77.3
Cl.Tail.	18.4	0.92	7.0
+100 Mesh Ro.Conc.(calc.)	60.6	3.02	56.0
-100 Mesh Ro.Conc.	64.3	3.20	
Rougher Tail.	1883.4	93.78	
Head (calc.)	2008.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.62
Based on +100 Mesh Ro.Conc.	1.69

Size Distribution Cleaner Conc.

MESH	% Ret.		% Pass.
	Ind.	Cum.	Cum.
20	1.66	1.66	98.34
35	26.30	27.96	72.04
65	56.87	83.18	16.82
100	15.17		

SAMPLE NUMBER :6127

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.1	.00	71.9
+35 Mesh	5.7	0.28	56.7
+65 Mesh	26.5	1.32	66.8
+100 Mesh	7.2	0.36	58.7
Comb.Cl.Conc.(calc.)	39.5	1.97	63.9
Cl.Tail.	20.5	1.02	7.4
+100 Mesh Ro.Conc.(calc.)	60.0	2.99	44.6
-100 Mesh Ro.Conc.	96.9	4.84	
Rougher Tail.	1846.6	92.17	
Head (calc.)	2003.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.26
Based on +100 Mesh Ro.Conc.	1.34

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.25	0.25	99.75
35	14.43	14.68	85.32
65	67.09	81.52	18.48
100	18.23		

SAMPLE NUMBER :6128

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.4	0.02	89.2
+35 Mesh	8.4	0.42	82.5
+65 Mesh	21.8	1.08	84.3
+100 Mesh	5.8	0.29	89.0
Comb.Cl.Conc.(calc.)	36.4	1.81	84.7
Cl.Tail.	15.1	0.75	7.2
+100 Mesh Ro.Conc.(calc.)	51.5	2.55	62.0
-100 Mesh Ro.Conc.	68.1	3.38	
Rougher Tail.	1896.8	94.07	
Head (calc.)	2016.4	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.53
Based on +100 Mesh Ro.Conc.	1.58

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.10	1.10	98.90
35	23.08	24.18	75.82
65	59.89	82.97	17.03
100	15.93		

SAMPLE NUMBER :6130

Product	Weight		Assay %
	g.	%	L.O.I.
Cl.Conc.+20 Mesh	1.1	0.05	94.2
+35 Mesh	8.6	0.43	86.1
+65 Mesh	7.7	0.38	85.0
+100 Mesh	2.9	0.14	91.7
Comb.Cl.Conc.(calc.)	20.3	1.01	86.9
Cl.Tail.	8.5	0.42	11.2
+100 Mesh Ro.Conc.(calc.)	28.8	1.44	64.6
-100 Mesh Ro.Conc.	16.5	0.82	
Rougher Tail.	1961.1	97.74	
Head (calc.)	2006.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.88
Based on +100 Mesh Ro.Conc.	0.93

Size Distribution Cleaner Conc.

MESH	% Ret.		% Pass.
	Ind.	Cum.	Cum.
20	5.42	5.42	94.58
35	42.36	47.78	52.22
65	37.93	80.30	19.70
100	14.29		

SAMPLE NUMBER :6132

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.6	0.13	86.1
+35 Mesh	21.1	1.05	84.7
+65 Mesh	22.1	1.10	88.3
+100 Mesh	8.0	0.40	90.1
Comb.Cl.Conc.(calc.)	53.8	2.68	87.0
Cl.Tail.	15.4	0.77	12.4
+100 Mesh Ro.Conc.(calc.)	69.2	3.45	70.4
-100 Mesh Ro.Conc.	16.3	0.81	
Rougher Tail.	1922.9	95.74	
Head (calc.)	2008.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.33
Based on +100 Mesh Ro.Conc.	2.43

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.83	4.83	95.17
35	39.22	44.05	55.95
65	41.08	80.30	19.70
100	14.87		

SAMPLE NUMBER :6134

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.7	0.14	93.9
+35 Mesh	14.5	0.73	88.9
+65 Mesh	1.2	0.06	91.1
+100 Mesh	4.3	0.22	86.9
Comb.Cl.Conc.(calc.)	22.7	1.14	89.2
Cl.Tail.	10.5	0.53	11.2
+100 Mesh Ro.Conc.(calc.)	33.2	1.67	64.6
-100 Mesh Ro.Conc.	11.8	0.59	
Rougher Tail.	1948.6	97.74	
Head (calc.)	1993.6	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.02
Based on +100 Mesh Ro.Conc.	1.08

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	11.89	11.89	88.11
35	63.88	75.77	24.23
65	5.29	69.16	30.84
100	18.94		

SAMPLE NUMBER :6136

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	4.0	0.20	91.5
+35 Mesh	13.4	0.67	88.7
+65 Mesh	16.4	0.82	85.7
+100 Mesh	6.5	0.32	87.8
Comb.Cl.Conc.(calc.)	40.3	2.01	87.6
Cl.Tail.	17.7	0.88	8.0
+100 Mesh Ro.Conc.(calc.)	58.0	2.89	63.3
-100 Mesh Ro.Conc.	13.2	0.66	
Rougher Tail.	1936.7	96.45	
Head (calc.)	2007.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.76
Based on +100 Mesh Ro.Conc.	1.83

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	9.93	9.93	90.07
35	33.25	43.18	56.82
65	40.69	73.95	26.05
100	16.13		

SAMPLE NUMBER :6138

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	89.0
+35 Mesh	15.3	0.76	82.8
+65 Mesh	32.9	1.63	86.8
+100 Mesh	10.5	0.52	86.8
Comb.Cl.Conc.(calc.)	59.5	2.95	85.8
Cl.Tail.	16.6	0.82	7.8
+100 Mesh Ro.Conc.(calc.)	76.1	3.77	68.8
-100 Mesh Ro.Conc.	57.7	2.86	
Rougher Tail.	1885.6	93.37	
Head (calc.)	2019.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.53
Based on +100 Mesh Ro.Conc.	2.59

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.34	1.34	98.66
35	25.71	27.06	72.94
65	55.29	81.01	18.99
100	17.65		

SAMPLE NUMBER :6140

Product	Weight g.	 %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.0	0.05	84.9
+35 Mesh	17.4	0.86	76.7
+65 Mesh	30.8	1.53	79.3
+100 Mesh	11.2	0.56	84.3
Comb.Cl.Conc.(calc.)	60.4	3.00	79.6
Cl.Tail.	24.1	1.20	9.7
+100 Mesh Ro.Conc.(calc.)	84.5	4.20	59.6
-100 Mesh Ro.Conc.	73.1	3.63	
Rougher Tail.	1856.4	92.17	
Head (calc.)	2014	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.39
Based on +100 Mesh Ro.Conc.	2.50

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	 Cum.	% Pass. Cum.
20	1.66	1.66	98.34
35	28.81	30.46	69.54
65	50.99	79.80	20.20
100	18.54		

SAMPLE NUMBER :6142

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.1	0.05	91.8
+35 Mesh	9.6	0.48	86.0
+65 Mesh	9.7	0.48	90.9
+100 Mesh	4.4	0.22	88.6
Comb.Cl.Conc.(calc.)	24.8	1.24	88.6
Cl.Tail.	9.0	0.45	8.9
+100 Mesh Ro.Conc.(calc.)	33.8	1.69	67.4
-100 Mesh Ro.Conc.	17.9	0.89	
Rougher Tail.	1949.7	97.42	
Head (calc.)	2001.4	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.10
Based on +100 Mesh Ro.Conc.	1.14

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.44	4.44	95.56
35	38.71	43.15	56.85
65	39.11	77.82	22.18
100	17.74		

SAMPLE NUMBER :6144

Product	Weight g.	 %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.5	0.02	97.0
+35 Mesh	10.7	0.53	91.5
+65 Mesh	17.5	0.87	90.3
+100 Mesh	5.7	0.28	90.7
Comb.Cl.Conc.(calc.)	34.4	1.71	90.8
Cl.Tail.	10.4	0.52	5.7
+100 Mesh Ro.Conc.(calc.)	44.8	2.23	71.1
-100 Mesh Ro.Conc.	48.0	2.39	
Rougher Tail.	1918.0	95.38	
Head (calc.)	2010.8	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.55
Based on +100 Mesh Ro.Conc.	1.58

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	 Cum.	% Pass. Cum.
20	1.45	1.45	98.55
35	31.10	32.56	67.44
65	50.87	81.98	18.02
100	16.57		

SAMPLE NUMBER :6146

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.5	0.07	93.5
+35 Mesh	15.2	0.75	90.1
+65 Mesh	21.1	1.05	91.3
+100 Mesh	3.0	0.15	93.7
Comb.Cl.Conc.(calc.)	40.8	2.03	91.1
Cl.Tail.	8.4	0.42	10.1
+100 Mesh Ro.Conc.(calc.)	49.2	2.44	77.3
-100 Mesh Ro.Conc.	31.5	1.56	
Rougher Tail.	1932.8	95.99	
Head (calc.)	2013.5	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.85
Based on +100 Mesh Ro.Conc.	1.89

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.68	3.68	96.32
35	37.25	40.93	59.07
65	51.72	88.97	11.03
100	7.35		

SAMPLE NUMBER :6148

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.3	0.06	88.2
+35 Mesh	18.4	0.92	83.6
+65 Mesh	27.1	1.35	87.2
+100 Mesh	11.0	0.55	90.1
Comb.Cl.Conc.(calc.)	57.8	2.88	86.6
Cl.Tail.	19.6	0.98	10.4
+100 Mesh Ro.Conc.(calc.)	77.4	3.86	67.3
-100 Mesh Ro.Conc.	20.3	1.01	
Rougher Tail.	1909.4	95.13	
Head (calc.)	2007.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.49
Based on +100 Mesh Ro.Conc.	2.60

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.25	2.25	97.75
35	31.83	34.08	65.92
65	46.89	78.72	21.28
100	19.03		

SAMPLE NUMBER :6150

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.0	0.05	95.7
+35 Mesh	12.9	0.64	92.6
+65 Mesh	16.8	0.84	92.4
+100 Mesh	8.6	0.43	90.8
Comb.Cl.Conc.(calc.)	39.3	1.96	92.2
Cl.Tail.	9.5	0.47	7.6
+100 Mesh Ro.Conc.(calc.)	48.8	2.43	75.7
-100 Mesh Ro.Conc.	27.9	1.39	
Rougher Tail.	1931.4	96.18	
Head (calc.)	2008.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.80
Based on +100 Mesh Ro.Conc.	1.84

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.54	2.54	97.46
35	32.82	35.37	64.63
65	42.75	75.57	24.43
100	21.88		

SAMPLE NUMBER :6152

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.2	0.01	94.2
+35 Mesh	8.7	0.43	87.6
+65 Mesh	18.8	0.93	84.8
+100 Mesh	2.2	0.11	88.9
Comb.Cl.Conc.(calc.)	29.9	1.48	86.0
Cl.Tail.	10.3	0.51	7.2
+100 Mesh Ro.Conc.(calc.)	40.2	1.99	65.8
-100 Mesh Ro.Conc.	56.4	2.79	
Rougher Tail.	1927.4	95.23	
Head (calc.)	2024	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.27
Based on +100 Mesh Ro.Conc.	1.31

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.67	0.67	99.33
35	29.10	29.77	70.23
65	62.88	91.97	8.03
100	7.36		

SAMPLE NUMBER :6154

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.5	0.02	92.9
+35 Mesh	11.3	0.56	88.3
+65 Mesh	21.3	1.05	86.1
+100 Mesh	7.9	0.39	87.3
Comb.Cl.Conc.(calc.)	41.0	2.02	87.0
Cl.Tail.	14.9	0.73	8.5
+100 Mesh Ro.Conc.(calc.)	55.9	2.75	66.1
-100 Mesh Ro.Conc.	79.6	3.92	
Rougher Tail.	1895.7	93.33	
Head (calc.)	2031.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.76
Based on +100 Mesh Ro.Conc.	1.82

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.22	1.22	98.78
35	27.56	28.78	71.22
65	51.95	79.51	20.49
100	19.27		

SAMPLE NUMBER :6156

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.3	0.06	91.7
+35 Mesh	8.8	0.44	91.1
+65 Mesh	9.1	0.45	89.1
+100 Mesh	3.4	0.17	87.3
Comb.Cl.Conc.(calc.)	22.6	1.13	89.8
Cl.Tail.	7.6	0.38	11.0
+100 Mesh Ro.Conc.(calc.)	30.2	1.51	69.9
-100 Mesh Ro.Conc.	27.8	1.39	
Rougher Tail.	1947.3	97.11	
Head (calc.)	2005.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.01
Based on +100 Mesh Ro.Conc.	1.05

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	5.75	5.75	94.25
35	38.94	44.69	55.31
65	40.27	79.20	20.80
100	15.04		

SAMPLE NUMBER :6158

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	89.1
+35 Mesh	5.8	0.28	85.8
+65 Mesh	6.6	0.32	87.1
+100 Mesh	2.8	0.14	86.4
Comb.Cl.Conc.(calc.)	16.0	0.78	86.6
Cl.Tail.	6.9	0.34	8.3
+100 Mesh Ro.Conc.(calc.)	22.9	1.12	63.0
-100 Mesh Ro.Conc.	27.3	1.34	
Rougher Tail.	1988.1	97.54	
Head (calc.)	2038.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.68
Based on +100 Mesh Ro.Conc.	0.71

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	5.00	5.00	95.00
35	36.25	41.25	58.75
65	41.25	77.50	22.50
100	17.50		

SAMPLE NUMBER :6160

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	4.8	0.24	76.5
+35 Mesh	29.1	1.45	64.0
+65 Mesh	21.1	1.05	70.5
+100 Mesh	4.6	0.23	88.1
Comb.Cl.Conc.(calc.)	59.6	2.97	69.2
Cl.Tail.	10.5	0.52	7.7
+100 Mesh Ro.Conc.(calc.)	70.1	3.49	60.0
-100 Mesh Ro.Conc.	10.8	0.54	
Rougher Tail.	1925.9	95.97	
Head (calc.)	2006.8	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.05
Based on +100 Mesh Ro.Conc.	2.09

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	8.05	8.05	91.95
35	48.83	56.88	43.12
65	35.40	84.23	15.77
100	7.72		

SAMPLE NUMBER :6162

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.6	0.03	91.9
+35 Mesh	8.1	0.40	90.9
+65 Mesh	9.0	0.45	91.1
+100 Mesh	4.0	0.20	92.1
Comb.Cl.Conc.(calc.)	21.7	1.08	91.2
Cl.Tail.	5.7	0.28	8.3
+100 Mesh Ro.Conc.(calc.)	27.4	1.37	74.0
-100 Mesh Ro.Conc.	13.2	0.66	
Rougher Tail.	1966.0	97.98	
Head (calc.)	2006.6	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.99
Based on +100 Mesh Ro.Conc.	1.01

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.76	2.76	97.24
35	37.33	40.09	59.91
65	41.47	78.80	21.20
100	18.43		

SAMPLE NUMBER :6164

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.9	0.09	90.8
+35 Mesh	13.7	0.68	83.0
+65 Mesh	12.2	0.61	86.4
+100 Mesh	3.5	0.17	87.8
Comb.Cl.Conc.(calc.)	31.3	1.56	85.3
Cl.Tail.	9.9	0.49	10.8
+100 Mesh Ro.Conc.(calc.)	41.2	2.05	67.4
-100 Mesh Ro.Conc.	15.8	0.79	
Rougher Tail.	1948.7	97.16	
Head (calc.)	2005.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.33
Based on +100 Mesh Ro.Conc.	1.39

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	6.07	6.07	93.93
35	43.77	49.84	50.16
65	38.98	82.75	17.25
100	11.18		

SAMPLE NUMBER :6166

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	88.3
+35 Mesh	11.5	0.57	74.5
+65 Mesh	27.0	1.35	80.8
+100 Mesh	15.2	0.76	87.3
Comb.Cl.Conc.(calc.)	54.0	2.69	81.3
Cl.Tail.	34.9	1.74	11.4
+100 Mesh Ro.Conc.(calc.)	88.9	4.43	53.9
-100 Mesh Ro.Conc.	27.9	1.39	
Rougher Tail.	1889.3	94.18	
Head (calc.)	2006.1	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.19
Based on +100 Mesh Ro.Conc.	2.39

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.56	0.56	99.44
35	21.30	21.85	78.15
65	50.00	71.30	28.70
100	28.15		

SAMPLE NUMBER :6168

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.5	0.07	90.6
+35 Mesh	12.7	0.63	83.6
+65 Mesh	12.3	0.61	85.9
+100 Mesh	3.9	0.19	87.6
Comb.Cl.Conc.(calc.)	30.4	1.50	85.4
Cl.Tail.	7.3	0.36	7.4
+100 Mesh Ro.Conc.(calc.)	37.7	1.86	70.3
-100 Mesh Ro.Conc.	27.4	1.35	
Rougher Tail.	1958.2	96.78	
Head (calc.)	2023.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.28
Based on +100 Mesh Ro.Conc.	1.31

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.93	4.93	95.07
35	41.78	46.71	53.29
65	40.46	82.24	17.76
100	12.83		

SAMPLE NUMBER :6170

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.6	0.08	90.3
+35 Mesh	12.4	0.62	82.1
+65 Mesh	11.8	0.59	83.2
+100 Mesh	4.5	0.22	88.4
Comb.Cl.Conc.(calc.)	30.3	1.51	83.9
Cl.Tail.	7.9	0.39	6.6
+100 Mesh Ro.Conc.(calc.)	38.2	1.90	67.9
-100 Mesh Ro.Conc.	22.2	1.11	
Rougher Tail.	1946.5	96.99	
Head (calc.)	2006.9	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.27
Based on +100 Mesh Ro.Conc.	1.29

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	5.28	5.28	94.72
35	40.92	46.20	53.80
65	38.94	79.87	20.13
100	14.85		

SAMPLE NUMBER :6172

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.9	0.10	94.6
+35 Mesh	13.7	0.70	85.0
+65 Mesh	16.4	0.84	85.0
+100 Mesh	2.0	0.10	90.5
Comb.Cl.Conc.(calc.)	34.0	1.73	85.9
Cl.Tail.	12.4	0.63	6.4
+100 Mesh Ro.Conc.(calc.)	46.4	2.36	64.6
-100 Mesh Ro.Conc.	44.2	2.25	
Rougher Tail.	1872.7	95.39	
Head (calc.)	1963.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.49
Based on +100 Mesh Ro.Conc.	1.53

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	5.59	5.59	94.41
35	40.29	45.88	54.12
65	48.24	88.53	11.47
100	5.88		

SAMPLE NUMBER :6174

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.9	0.11	89.1
+35 Mesh	16.4	0.94	82.2
+65 Mesh	18.9	1.08	80.7
+100 Mesh	5.0	0.29	89.0
Comb.Cl.Conc.(calc.)	42.2	2.41	82.6
Cl.Tail.	9.5	0.54	9.9
+100 Mesh Ro.Conc.(calc.)	51.7	2.96	69.3
-100 Mesh Ro.Conc.	27.9	1.60	
Rougher Tail.	1668.8	95.45	
Head (calc.)	1748.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.99
Based on +100 Mesh Ro.Conc.	2.05

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.50	4.50	95.50
35	38.86	43.36	56.64
65	44.79	83.65	16.35
100	11.85		

SAMPLE NUMBER :6177

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.5	0.03	87.5
+35 Mesh	6.6	0.34	61.5
+65 Mesh	10.0	0.51	74.0
+100 Mesh	1.3	0.07	90.0
Comb.Cl.Conc.(calc.)	18.4	0.93	71.0
Cl.Tail.	8.9	0.45	3.5
+100 Mesh Ro.Conc.(calc.)	27.3	1.39	49.0
-100 Mesh Ro.Conc.	26.2	1.33	
Rougher Tail.	1915.4	97.28	
Head (calc.)	1968.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.66
Based on +100 Mesh Ro.Conc.	0.68

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.72	2.72	97.28
35	35.87	38.59	61.41
65	54.35	90.22	9.78
100	7.07		

SAMPLE NUMBER :6180

Product	Weight		Assay %
	g.	%	L.O.I.
Cl.Conc.+20 Mesh	0.9	0.04	89.7
+35 Mesh	15.4	0.77	87.0
+65 Mesh	24.5	1.22	87.0
+100 Mesh	9.9	0.49	90.3
Comb.Cl.Conc.(calc.)	50.7	2.52	87.7
Cl.Tail.	15.6	0.78	15.4
+100 Mesh Ro.Conc.(calc.)	66.3	3.29	70.7
-100 Mesh Ro.Conc.	50.1	2.49	
Rougher Tail.	1895.8	94.22	
Head (calc.)	2012.2	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	2.21
Based on +100 Mesh Ro.Conc.	2.33

Size Distribution Cleaner Conc.

MESH	% Ret.		% Pass.
	Ind.	Cum.	Cum.
20	1.78	1.78	98.22
35	30.37	32.15	67.85
65	48.32	78.70	21.30
100	19.53		

SAMPLE NUMBER :6182

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.5	0.03	83.0
+35 Mesh	10.6	0.54	70.3
+65 Mesh	21.5	1.09	75.1
+100 Mesh	3.0	0.15	88.8
Comb.Cl.Conc.(calc.)	35.6	1.81	74.9
Cl.Tail.	18.5	0.94	7.1
+100 Mesh Ro.Conc.(calc.)	54.1	2.75	51.7
-100 Mesh Ro.Conc.	47.6	2.42	
Rougher Tail.	1862.3	94.82	
Head (calc.)	1964	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.36
Based on +100 Mesh Ro.Conc.	1.43

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.40	1.40	98.60
35	29.78	31.18	68.82
65	60.39	90.17	9.83
100	8.43		

SAMPLE NUMBER :6190

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.5	0.07	85.8
+35 Mesh	7.7	0.38	78.2
+65 Mesh	5.9	0.29	86.5
+100 Mesh	2.6	0.13	87.7
Comb.Cl.Conc.(calc.)	17.7	0.88	83.0
Cl.Tail.	8.6	0.43	7.8
+100 Mesh Ro.Conc.(calc.)	26.3	1.31	58.4
-100 Mesh Ro.Conc.	16.2	0.81	
Rougher Tail.	1963.5	97.88	
Head (calc.)	2006	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.73
Based on +100 Mesh Ro.Conc.	0.77

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	8.47	8.47	91.53
35	43.50	51.98	48.02
65	33.33	76.84	23.16
100	14.69		

SAMPLE NUMBER :6192

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.0	0.05	95.5
+35 Mesh	12.2	0.60	95.7
+65 Mesh	14.2	0.70	94.7
+100 Mesh	7.1	0.35	92.5
Comb.Cl.Conc.(calc.)	34.5	1.70	94.6
Cl.Tail.	10.6	0.52	8.2
+100 Mesh Ro.Conc.(calc.)	45.1	2.23	74.3
-100 Mesh Ro.Conc.	42.8	2.11	
Rougher Tail.	1935.8	95.66	
Head (calc.)	2023.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.61
Based on +100 Mesh Ro.Conc.	1.66

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.90	2.90	97.10
35	35.36	38.26	61.74
65	41.16	76.52	23.48
100	20.58		

SAMPLE NUMBER :6194

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.1	0.05	88.8
+35 Mesh	11.8	0.59	78.2
+65 Mesh	16.6	0.82	83.2
+100 Mesh	6.6	0.33	88.2
Comb.Cl.Conc.(calc.)	36.1	1.79	82.7
Cl.Tail.	11.9	0.59	9.0
+100 Mesh Ro.Conc.(calc.)	48.0	2.38	64.4
-100 Mesh Ro.Conc.	31.0	1.54	
Rougher Tail.	1933.6	96.07	
Head (calc.)	2012.6	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	1.48
Based on +100 Mesh Ro.Conc.	1.54

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.05	3.05	96.95
35	32.69	35.73	64.27
65	45.98	78.67	21.33
100	18.28		

SAMPLE NUMBER :6196

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	91.5
+35 Mesh	14.6	0.73	81.8
+65 Mesh	27.6	1.38	85.7
+100 Mesh	11.2	0.56	89.6
Comb.Cl.Conc.(calc.)	54.2	2.70	85.5
Cl.Tail.	13.7	0.68	6.9
+100 Mesh Ro.Conc.(calc.)	67.9	3.38	69.7
-100 Mesh Ro.Conc.	20.0	1.00	
Rougher Tail.	1918.1	95.62	
Head (calc.)	2006	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.31
Based on +100 Mesh Ro.Conc.	2.36

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.48	1.48	98.52
35	26.94	28.41	71.59
65	50.92	77.86	22.14
100	20.66		

SAMPLE NUMBER :6198

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.0	0.10	94.2
+35 Mesh	11.3	0.56	92.4
+65 Mesh	9.9	0.49	92.4
+100 Mesh	3.2	0.16	92.6
Comb.Cl.Conc.(calc.)	26.4	1.31	92.6
Cl.Tail.	8.5	0.42	12.7
+100 Mesh Ro.Conc.(calc.)	34.9	1.74	73.1
-100 Mesh Ro.Conc.	26.5	1.32	
Rougher Tail.	1949.5	96.95	
Head (calc.)	2010.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.22
Based on +100 Mesh Ro.Conc.	1.27

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	7.58	7.58	92.42
35	42.80	50.38	49.62
65	37.50	80.30	19.70
100	12.12		

SAMPLE NUMBER :6200

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.7	0.04	91.5
+35 Mesh	5.8	0.29	84.5
+65 Mesh	5.6	0.28	81.4
+100 Mesh	2.0	0.10	85.0
Comb.Cl.Conc.(calc.)	14.1	0.71	83.7
Cl.Tail.	7.3	0.37	13.4
+100 Mesh Ro.Conc.(calc.)	21.4	1.08	59.7
-100 Mesh Ro.Conc.	19.6	0.99	
Rougher Tail.	1932.7	97.92	
Head (calc.)	1973.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.60
Based on +100 Mesh Ro.Conc.	0.65

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.96	4.96	95.04
35	41.13	46.10	53.90
65	39.72	80.85	19.15
100	14.18		

SAMPLE NUMBER :6202

Product	Weight g.	 %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.1	0.05	96.7
+35 Mesh	10.1	0.50	93.2
+65 Mesh	12.5	0.62	91.8
+100 Mesh	4.3	0.21	93.0
Comb.Cl.Conc.(calc.)	28.0	1.39	92.7
Cl.Tail.	5.1	0.25	6.7
+100 Mesh Ro.Conc.(calc.)	33.1	1.65	79.4
-100 Mesh Ro.Conc.	19.5	0.97	
Rougher Tail.	1959.4	97.39	
Head (calc.)	2012	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.29
Based on +100 Mesh Ro.Conc.	1.31

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	 Cum.	% Pass. Cum.
20	3.93	3.93	96.07
35	36.07	40.00	60.00
65	44.64	80.71	19.29
100	15.36		

SAMPLE NUMBER :6204

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.5	0.07	96.2
+35 Mesh	15.6	0.78	87.1
+65 Mesh	17.6	0.88	83.8
+100 Mesh	4.9	0.24	88.9
Comb.Cl.Conc.(calc.)	39.6	1.97	86.2
Cl.Tail.	6.7	0.33	7.6
+100 Mesh Ro.Conc.(calc.)	46.3	2.31	74.8
-100 Mesh Ro.Conc.	20.9	1.04	
Rougher Tail.	1938.1	96.65	
Head (calc.)	2005.3	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.70
Based on +100 Mesh Ro.Conc.	1.73

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.79	3.79	96.21
35	39.39	43.18	56.82
65	44.44	83.84	16.16
100	12.37		

SAMPLE NUMBER :6206

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.6	0.03	80.4
+35 Mesh	8.4	0.42	76.5
+65 Mesh	12.0	0.60	81.4
+100 Mesh	3.6	0.18	83.1
Comb.Cl.Conc.(calc.)	24.6	1.23	80.0
Cl.Tail.	20.4	1.02	12.6
+100 Mesh Ro.Conc.(calc.)	45.0	2.25	49.4
-100 Mesh Ro.Conc.	18.2	0.91	
Rougher Tail.	1932.7	96.83	
Head (calc.)	1995.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.99
Based on +100 Mesh Ro.Conc.	1.11

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.44	2.44	97.56
35	34.15	36.59	63.41
65	48.78	82.93	17.07
100	14.63		

SAMPLE NUMBER :6208

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	89.1
+35 Mesh	4.5	0.22	81.3
+65 Mesh	6.0	0.30	88.6
+100 Mesh	2.6	0.13	87.7
Comb.Cl.Conc.(calc.)	13.9	0.69	86.1
Cl.Tail.	6.9	0.34	9.0
+100 Mesh Ro.Conc.(calc.)	20.8	1.04	60.5
-100 Mesh Ro.Conc.	12.9	0.64	
Rougher Tail.	1966.7	98.32	
Head (calc.)	2000.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.60
Based on +100 Mesh Ro.Conc.	0.63

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	5.76	5.76	94.24
35	32.37	38.13	61.87
65	43.17	75.54	24.46
100	18.71		

SAMPLE NUMBER :6210

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	3.2	0.16	96.2
+35 Mesh	23.2	1.14	93.4
+65 Mesh	23.6	1.16	91.2
+100 Mesh	2.1	0.10	94.6
Comb.Cl.Conc.(calc.)	52.1	2.57	92.6
Cl.Tail.	7.3	0.36	10.5
+100 Mesh Ro.Conc.(calc.)	59.4	2.93	82.5
-100 Mesh Ro.Conc.	45.4	2.24	
Rougher Tail.	1923.1	94.83	
Head (calc.)	2027.9	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	2.38
Based on +100 Mesh Ro.Conc.	2.42

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	6.14	6.14	93.86
35	44.53	50.67	49.33
65	45.30	89.83	10.17
100	4.03		

SAMPLE NUMBER :6212

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.8	0.04	86.4
+35 Mesh	6.5	0.32	75.7
+65 Mesh	7.2	0.36	78.0
+100 Mesh	1.9	0.09	82.9
Comb.Cl.Conc.(calc.)	16.4	0.81	78.1
Cl.Tail.	8.8	0.44	11.1
+100 Mesh Ro.Conc.(calc.)	25.2	1.25	54.7
-100 Mesh Ro.Conc.	18.8	0.93	
Rougher Tail.	1971.2	97.82	
Head (calc.)	2015.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.64
Based on +100 Mesh Ro.Conc.	0.68

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.88	4.88	95.12
35	39.63	44.51	55.49
65	43.90	83.54	16.46
100	11.59		

SAMPLE NUMBER :6214

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	89.9
+35 Mesh	5.8	0.29	79.0
+65 Mesh	8.7	0.43	81.1
+100 Mesh	3.6	0.18	84.6
Comb.Cl.Conc.(calc.)	18.4	0.91	81.3
Cl.Tail.	9.5	0.47	5.0
+100 Mesh Ro.Conc.(calc.)	27.9	1.39	55.3
-100 Mesh Ro.Conc.	22.9	1.14	
Rougher Tail.	1960.6	97.47	
Head (calc.)	2011.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.74
Based on +100 Mesh Ro.Conc.	0.77

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.63	1.63	98.37
35	31.52	33.15	66.85
65	47.28	78.80	21.20
100	19.57		

SAMPLE NUMBER :6216

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	3.2	0.16	71.8
+35 Mesh	16.6	0.83	59.7
+65 Mesh	11.1	0.55	71.4
+100 Mesh	3.2	0.16	80.2
Comb.Cl.Conc.(calc.)	34.1	1.70	66.6
Cl.Tail.	9.9	0.49	7.2
+100 Mesh Ro.Conc.(calc.)	44.0	2.20	53.2
-100 Mesh Ro.Conc.	11.9	0.59	
Rougher Tail.	1948.0	97.21	
Head (calc.)	2003.9	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.13
Based on +100 Mesh Ro.Conc.	1.17

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	9.38	9.38	90.62
35	48.68	58.06	41.94
65	32.55	81.23	18.77
100	9.38		

SAMPLE NUMBER :6218

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.2	0.01	82.2
+35 Mesh	5.0	0.25	63.4
+65 Mesh	8.3	0.42	73.1
+100 Mesh	4.4	0.22	84.1
Comb.Cl.Conc.(calc.)	17.9	0.90	73.2
Cl.Tail.	7.4	0.37	5.7
+100 Mesh Ro.Conc.(calc.)	25.3	1.27	53.5
-100 Mesh Ro.Conc.	25.2	1.26	
Rougher Tail.	1948.0	97.47	
Head (calc.)	1998.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.66
Based on +100 Mesh Ro.Conc.	0.68

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.12	1.12	98.88
35	27.93	29.05	70.95
65	46.37	74.30	25.70
100	24.58		

SAMPLE NUMBER :6220

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	93.0
+35 Mesh	3.9	0.19	86.3
+65 Mesh	9.8	0.49	88.4
+100 Mesh	4.2	0.21	92.8
	7.4		
Comb.Cl.Conc.(calc.)	18.2	0.91	89.0
Cl.Tail.	8.2	0.41	3.7
+100 Mesh Ro.Conc.(calc.)	26.4	1.32	62.5
-100 Mesh Ro.Conc.	28.1	1.40	
Rougher Tail.	1951.5	97.28	
Head (calc.)	2006	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.81
Based on +100 Mesh Ro.Conc.	0.82

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.65	1.65	98.35
35	21.43	23.08	76.92
65	53.85	75.27	24.73
100	23.08		

SAMPLE NUMBER :6222

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	91.9
+35 Mesh	7.5	0.37	81.1
+65 Mesh	14.5	0.72	81.2
+100 Mesh	1.6	0.08	91.0
Comb.Cl.Conc.(calc.)	23.9	1.19	82.0
Cl.Tail.	6.2	0.31	4.8
+100 Mesh Ro.Conc.(calc.)	30.1	1.50	66.1
-100 Mesh Ro.Conc.	25.1	1.25	
Rougher Tail.	1949.0	97.25	
Head (calc.)	2004.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.98
Based on +100 Mesh Ro.Conc.	0.99

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.26	1.26	98.74
35	31.38	32.64	67.36
65	60.67	92.05	7.95
100	6.69		

SAMPLE NUMBER :6224

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	85.2
+35 Mesh	4.9	0.24	74.0
+65 Mesh	6.0	0.30	88.7
+100 Mesh	2.3	0.11	88.2
Comb.Cl.Conc.(calc.)	13.5	0.67	83.2
Cl.Tail.	6.2	0.31	7.0
+100 Mesh Ro.Conc.(calc.)	19.7	0.98	59.2
-100 Mesh Ro.Conc.	8.2	0.41	
Rougher Tail.	1975.3	98.61	
Head (calc.)	2003.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.56
Based on +100 Mesh Ro.Conc.	0.58

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.22	2.22	97.78
35	36.30	38.52	61.48
65	44.44	80.74	19.26
100	17.04		

SAMPLE NUMBER :6226

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.5	0.12	94.2
+35 Mesh	15.3	0.76	86.1
+65 Mesh	16.6	0.83	85.0
+100 Mesh	6.8	0.34	91.7
Comb.Cl.Conc.(calc.)	41.2	2.05	87.1
Cl.Tail.	9.4	0.47	11.2
+100 Mesh Ro.Conc.(calc.)	50.6	2.52	73.0
-100 Mesh Ro.Conc.	16.4	0.82	
Rougher Tail.	1940.4	96.66	
Head (calc.)	2007.4	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.79
Based on +100 Mesh Ro.Conc.	1.84

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	6.07	6.07	93.93
35	37.14	43.20	56.80
65	40.29	77.43	22.57
100	16.50		

SAMPLE NUMBER :6228

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.1	0.10	86.7
+35 Mesh	17.3	0.86	78.4
+65 Mesh	25.0	1.25	83.3
+100 Mesh	15.0	0.75	88.8
Comb.Cl.Conc.(calc.)	59.4	2.96	83.4
Cl.Tail.	25.5	1.27	8.7
+100 Mesh Ro.Conc.(calc.)	84.9	4.23	61.0
-100 Mesh Ro.Conc.	19.7	0.98	
Rougher Tail.	1900.9	94.78	
Head (calc.)	2005.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.47
Based on +100 Mesh Ro.Conc.	2.58

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.54	3.54	96.46
35	29.12	32.66	67.34
65	42.09	71.21	28.79
100	25.25		

SAMPLE NUMBER :6230

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.7	0.03	91.2
+35 Mesh	3.5	0.17	83.3
+65 Mesh	3.0	0.15	82.6
+100 Mesh	1.1	0.05	77.4
Comb.Cl.Conc.(calc.)	8.3	0.41	82.9
Cl.Tail.	5.2	0.26	11.4
+100 Mesh Ro.Conc.(calc.)	13.5	0.67	55.4
-100 Mesh Ro.Conc.	24.7	1.23	
Rougher Tail.	1973.0	98.10	
Head (calc.)	2011.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.34
Based on +100 Mesh Ro.Conc.	0.37

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	8.43	8.43	91.57
35	42.17	50.60	49.40
65	36.14	78.31	21.69
100	13.25		

SAMPLE NUMBER :6232

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	1.8	0.09	92.5
+35 Mesh	16.9	0.84	85.3
+65 Mesh	16.2	0.80	85.1
+100 Mesh	4.5	0.22	89.1
Comb.Cl.Conc.(calc.)	39.4	1.95	86.0
Cl.Tail.	13.3	0.66	9.3
+100 Mesh Ro.Conc.(calc.)	52.7	2.61	66.6
-100 Mesh Ro.Conc.	20.0	0.99	
Rougher Tail.	1944.3	96.40	
Head (calc.)	2017	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.68
Based on +100 Mesh Ro.Conc.	1.74

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	4.57	4.57	95.43
35	42.89	47.46	52.54
65	41.12	84.01	15.99
100	11.42		

SAMPLE NUMBER :6234

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.1	.00	77.3
+35 Mesh	2.9	0.14	76.0
+65 Mesh	3.5	0.17	92.6
+100 Mesh	1.8	0.09	85.5
Comb.Cl.Conc.(calc.)	8.3	0.41	85.1
Cl.Tail.	5.4	0.27	7.3
+100 Mesh Ro.Conc.(calc.)	13.7	0.68	54.4
-100 Mesh Ro.Conc.	13.3	0.66	
Rougher Tail.	1980.5	98.66	
Head (calc.)	2007.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.35
Based on +100 Mesh Ro.Conc.	0.37

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	1.20	1.20	98.80
35	34.94	36.14	63.86
65	42.17	77.11	22.89
100	21.69		

SAMPLE NUMBER :6236

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.7	0.03	87.7
+35 Mesh	7.1	0.35	71.3
+65 Mesh	10.6	0.53	75.0
+100 Mesh	2.9	0.14	80.3
Comb.Cl.Conc.(calc.)	21.3	1.06	74.9
Cl.Tail.	8.7	0.43	6.2
+100 Mesh Ro.Conc.(calc.)	30.0	1.50	55.0
-100 Mesh Ro.Conc.	20.6	1.03	
Rougher Tail.	1953.2	97.47	
Head (calc.)	2003.8	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	0.80
Based on +100 Mesh Ro.Conc.	0.82

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.29	3.29	96.71
35	33.33	36.62	63.38
65	49.77	83.10	16.90
100	13.62		

SAMPLE NUMBER :6238

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	88.5
+35 Mesh	9.0	0.45	80.4
+65 Mesh	28.5	1.41	71.4
+100 Mesh	16.8	0.83	74.4
Comb.Cl.Conc.(calc.)	54.6	2.71	73.9
Cl.Tail.	32.3	1.60	7.2
+100 Mesh Ro.Conc.(calc.)	86.9	4.31	49.1
-100 Mesh Ro.Conc.	66.0	3.27	
Rougher Tail.	1862.6	92.41	
Head (calc.)	2015.5	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	2.00
Based on +100 Mesh Ro.Conc.	2.12

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.55	0.55	99.45
35	16.48	17.03	82.97
65	52.20	68.68	31.32
100	30.77		

SAMPLE NUMBER :6240

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	2.7	0.13	93.0
+35 Mesh	24.9	1.24	84.2
+65 Mesh	34.9	1.73	81.4
+100 Mesh	14.0	0.69	86.4
Comb.Cl.Conc.(calc.)	76.5	3.79	83.6
Cl.Tail.	20.2	1.00	6.2
+100 Mesh Ro.Conc.(calc.)	96.7	4.80	67.5
-100 Mesh Ro.Conc.	32.0	1.59	
Rougher Tail.	1887.2	93.62	
Head (calc.)	2015.9	100.00	

	% +100 Mesh Graphite In Sample
Based on Cl.Conc.	3.17
Based on +100 Mesh Ro.Conc.	3.24

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	3.53	3.53	96.47
35	32.55	36.08	63.92
65	45.62	78.17	21.83
100	18.30		

SAMPLE NUMBER :6242

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.3	0.01	93.2
+35 Mesh	4.8	0.24	85.1
+65 Mesh	9.4	0.47	85.2
+100 Mesh	0.4	0.02	84.6
Comb.Cl.Conc.(calc.)	14.9	0.74	85.3
Cl.Tail.	4.4	0.22	5.6
+100 Mesh Ro.Conc.(calc.)	19.3	0.96	67.1
-100 Mesh Ro.Conc.	20.2	1.00	
Rougher Tail.	1981.2	98.05	
Head (calc.)	2020.7	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	0.63
Based on +100 Mesh Ro.Conc.	0.64

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	2.01	2.01	97.99
35	32.21	34.23	65.77
65	63.09	95.30	4.70
100	2.68		

SAMPLE NUMBER :6244

Product	Weight g.	Weight %	Assay % L.O.I.
Cl.Conc.+20 Mesh	0.2	0.01	88.1
+35 Mesh	7.9	0.39	91.1
+65 Mesh	17.8	0.88	89.0
+100 Mesh	11.5	0.57	89.0
Comb.Cl.Conc.(calc.)	37.4	1.85	89.4
Cl.Tail.	11.2	0.56	5.6
+100 Mesh Ro.Conc.(calc.)	48.6	2.41	70.1
-100 Mesh Ro.Conc.	59.1	2.93	
Rougher Tail.	1909.5	94.66	
Head (calc.)	2017.2	100.00	

	% +100 Mesh Graphite in Sample
Based on Cl.Conc.	1.66
Based on +100 Mesh Ro.Conc.	1.69

Size Distribution Cleaner Conc.

MESH	% Ret. Ind.	% Ret. Cum.	% Pass. Cum.
20	0.53	0.53	99.47
35	21.12	21.66	78.34
65	47.59	68.72	31.28
100	30.75		

3. Flowsheet Development Tests

Test No. B3

Purpose:	To conduct a series of grinding tests to optimize the grinding conditions.
Procedure:	The grinding procedures are listed in the conditions table following. The ground products were filtered, dried and sampled for size analysis.

Conditions

Test B3A	Sample pulverized one pass at 0.07 inch gap
Test B3B	As in A.
Test B3C	2 kg of -4 mesh for 5 min. in small rod mill
Test B3D	2 kg of -6 mesh for 5 min. in small rod mill
Test B3E	2 kg of -6 mesh for 15 min. in small rod mill
Test B3F	10 kg of -4 mesh for 5 min. in large rod mill

SCREEN ANALYSES:

Test B3A - Pulverized one pass at 0.07 in gap

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 6	0.3	0.3	99.7
8	4.2	4.5	95.5
10	8.4	12.9	87.1
14	17.3	30.2	69.8
20	11.2	41.4	58.6
28	9.6	51.0	49.0
35	9.7	60.7	39.3
48	9.6	70.3	29.7
65	7.9	78.2	21.8
100	6.3	84.5	15.5
150	5.1	89.6	10.4
200	3.5	93.1	6.9
270	2.4	95.5	4.5
400	1.7	97.2	2.8
- 400	2.8	100.0	-
Total	100.0	-	-

Test No. B3 - Continued

Screen Analyses - Cont'd

Test B3B - Pulverized one pass at 0.07 inch gap

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 3	1.5	1.5	98.5
4	5.3	6.8	93.2
6	11.4	18.2	81.8
8	14.9	33.1	66.9
10	10.8	43.9	56.1
14	10.3	54.2	45.8
20	6.4	60.6	39.4
28	6.9	67.5	32.5
35	6.1	73.6	26.4
48	7.0	80.6	19.4
65	5.2	85.8	14.2
100	4.0	89.8	10.2
150	3.2	93.0	7.0
200	2.1	95.1	4.9
270	1.5	96.6	3.4
400	1.0	97.6	2.4
- 400	2.4	100.0	-
Total	100.0	-	-

Test B3C - 2 kg Rod Mill, 5 min. -4 mesh Feed

+ 6	6.3	6.3	93.7
8	2.6	8.9	91.1
10	2.5	11.4	88.6
14	3.8	15.2	84.8
20	4.4	19.6	80.3
28	9.5	29.1	70.9
35	10.7	49.8	50.2
48	15.1	54.9	45.1
65	12.1	67.0	33.0
100	9.4	76.4	23.6
- 100	23.6	100.0	-
Total	100.0	-	-

Test No. B3 - Continued

Screen Analyses - Cont'd

Test B3D - 2 kg Rod Mill 5 min. -6 mesh Feed

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 10	0.3	0.3	99.7
14	0.8	1.1	98.9
20	2.6	3.7	96.3
28	10.7	14.4	85.6
35	14.0	28.4	71.6
48	18.2	46.6	53.4
65	13.8	60.4	39.6
100	10.5	70.9	29.1
- 100	29.1	100.0	-
Total	100.0	-	-

Test B3E - 2 kg Rod Mill 15 min. -6 mesh Feed

+ 6	0.7	0.7	99.3
8	0.3	1.0	99.0
10	0.1	1.1	98.9
14	0.0	1.1	98.9
20	0.1	1.2	98.8
28	0.3	1.5	98.5
35	3.4	4.9	95.1
48	15.4	20.3	19.7
65	19.2	39.5	60.5
100	16.1	55.6	44.4
- 100	44.4	100.0	-
Total	100.0	-	-

Test B3F - 10 kg Rod mill 5 min. -4 mesh Feed

+ 14	0.8	0.8	99.2
20	6.0	6.8	93.2
28	16.2	23.0	77.0
35	17.2	40.2	59.8
48	15.6	55.8	44.2
65	12.0	67.8	32.2
100	9.1	76.9	23.1
- 100	23.1	100.0	-
Total	100.0	-	-

Test No. B4

Purpose: To determine the effect on recovery by replacing pulverization with rod mill grinding to determine recovery of -100 mesh graphite.

Procedure: The pulverized feed was conditioned at high density before flotaiton.

Feed: 4 kg minus 3 mesh Composite ore blend.

Grind: Pulverize entire sample one pass at 0.07 inch gap.

Conditions:

Stage	Reagents Added, g/t					Time, min.		pH
	Na_2CO_3	Sodium Silicate	Kerosene	Lanagol OP6	DF250	Cond.	Froth	
Pulverize sample one pass - gas = 0.07 inch								
ROUGHER FLOTATION:								
Condition 1	1500	-	-	-	-	2	-	-
Condition 2	-	-	100	20	20	2	-	-
Rougher	-	-	-	-	-	-	30	9.0
1st Cleaner	-	500	-	-	7	2	-	10.0
	-	-	-	-	-	-	7	9.5
2nd Cleaner	-	-	-	-	-	-	5	9.5
Screened ±100 mesh								
+100 to Mozley separator for upgrading.								
-100 mesh cleaned by flotation.								
3rd Cleaner	-	-	-	-	-	-	5	8.0
4th Cleaner	110	50	-	-	-	2	-	10.0
	-	-	-	-	-	-	5	9.6

Stage	Rougher	1st to 4th Cleaners
Flotation Cell	D-2	D-2
Speed rpm	1900	1500

Test No. B4 - Continued

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
Gravity Conc.	1.75	81.0	69.30
-100 mesh Cl. Conc.	0.47	75.3	17.17
Gravity Tail.	0.38	5.19	0.97
3rd Cleaner Tail.	0.15	3.15	0.23
2nd Cleaner Tail.	0.24	1.73	0.21
1st Cleaner Tail.	1.10	0.73	0.39
Rougher Tailing	95.91	0.25	11.73
Head (Calc.)	100.00	2.04	100.00

Combined Products

+100 mesh Flot. Conc.	2.13	67.44	70.27
-100 mesh Flot. Conc.	0.62	57.70	17.40
2nd Cleaner Conc.	2.75	65.26	87.67
1st Cleaner Conc.	2.99	60.09	87.87
Rougher Conc.	4.09	44.10	88.27

Screen Analysis - Rougher Tail.

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 8	1.1	1.1	98.9
10	4.3	5.4	94.6
14	11.7	17.1	82.9
20	10.1	27.2	72.8
28	8.2	35.4	64.6
35	7.8	43.2	56.8
48	7.5	50.7	49.3
65	6.9	57.6	42.4
100	6.0	63.6	36.4
150	6.1	69.7	30.3
200	4.9	74.6	25.4
270	4.4	79.0	21.0
400	3.8	82.8	17.2
- 400	17.2	100.0	-
Total	100.0	-	-

Test No. B4 - Continued

Screen Analyses - Cont'd

Mozley Conc.

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	2.6	2.6	97.4
35	32.5	35.1	64.9
65	47.4	82.5	17.5
100	11.0	93.5	6.5
- 100	6.5	100.0	-
Total	100.0	-	-

Test No. B5

Purpose: To determine the effect on recovery of replacing pulverization with rod mill grinding and to determine recovery of -100 mesh graphite.

Procedure: The ground feed was conditioned at high density before flotation.

Feed: 4 kg minus 3 mesh Composite ore blend.

Grind: 7 1/2 minutes in lab rod mill (in 2 lots, 2 kg per lot).

Conditions:

Stage	Reagents Added, g/t					Time, min.		pH
	Na_2CO_3	Sodium Silicate	Kerosene	Lanagol OP6	DF250	Cond.	Froth	
Rougher Flotation:								
Condition 1	1500	-	-	-	-	2	-	10.5
2	-	-	100	20	20	2	-	10.5
Float	-	-	-	-	-	-	30	10.4
1st Cleaner	-	500	-	-	7	2	-	10.7
	-	-	-	-	-	-	7	10.4
2nd Cleaner	-	-	-	-	-	-	5	9.7
Screened on 100 mesh. +100 to Mozley separator.								
-100 M 3rd Cl.	110	50	-	-	-	2	5	10.0
-100 M 4th Cl.	-	-	-	-	-	1	5	9.0

Stage	Rougher	1st to 4th Cleaners
Flotation Cell	D2	D2
Speed rpm	1900	1500

Test No. B5 - Continued

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
Gravity Conc.	1.89	83.9	75.61
-100 mesh Cl. Conc.	0.40	68.7	13.04
Gravity Tail.	0.64	5.88	1.79
3rd Cleaner Tail.	0.02	3.21	0.02
2nd Cleaner Tail.	0.15	1.11	0.08
1st Cleaner Tail.	1.24	0.59	0.35
Rougher Tailing	95.67	0.20	9.11
Head (Calc.)	100.00	2.10	100.00

Combined Products

+100 mesh Flot. Conc.	2.53	64.20	77.40
-100 mesh Flot. Conc.	0.41	66.32	13.06
2nd Cleaner Conc.	2.95	64.50	90.46
1st Cleaner Conc.	3.09	61.47	90.54
Rougher Conc.	4.33	44.06	90.89

Screen Analyses:

Rougher Tail.

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 6	1.3	1.3	98.7
8	2.9	4.2	95.8
10	2.1	6.3	93.7
14	2.2	8.5	91.5
20	2.5	11.0	89.0
28	5.2	16.2	83.8
35	7.7	23.9	76.1
48	13.0	36.9	63.1
65	12.4	49.3	50.7
100	11.7	61.0	39.0
150	10.6	71.6	28.4
200	7.5	79.1	20.9
270	5.5	84.6	15.4
400	4.2	88.8	11.2
- 400	11.2	100.0	-
Total	100.0	-	-

Test No. B5 - Continued

Screen Analyses - Cont'd

Mozley Conc.

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	1.0	1.0	99.0
35	27.9	28.9	71.1
65	50.5	79.4	20.6
100	12.3	91.7	8.3
- 100	8.3	100.0	-
Total	100.0	-	-

Test No. B6

Purpose:	To determine the effect of recovery of coarse graphite in a 5 minute rod mill grind product.
Procedure:	The ground feed was conditioned at high density before flotation.
Feed:	-3 mesh Composite sample.
Grind:	5 minutes in lab rod mill.

Conditions:

Stage	Reagents Added, g/t					Time, min.		pH
	Na_2CO_3	Sodium Silicate	Kerosene	Lanagol OP6	DF250	Cond.	Froth	
Grind sample 5 minutes in lab rod mill.								
Rougher Flotation:								
Condition 1	1500	-	-	-	-	2	-	10.3
2	-	-	100	20	20	2	-	10.3
Float	-	-	-	-	-	-	25	10.3
1st Cleaner	-	500	-	-	7	2	-	10.0
Float	-	-	-	-	-	-	7	9.5
2nd Cleaner	-	-	-	-	-	-	5	9.0
Screened ± 100 mesh								
+100 Mozley Separator								
-100 3rd Cl.	110	50	-	-	-	2	-	10.0
Float	-	-	-	-	-	-	5	10.0

Stage	Rougher	1st to 3rd Cleaners
Flotation Cell	D2	D2
Speed rpm	1900	1500

Test No. B6 - Continued

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
Gravity Conc.	1.98	82.4	79.93
-100 mesh Cl. Conc.	0.28	57.6	8.02
Gravity Tail.	0.50	6.37	1.57
3rd Cl. Tail.	0.03	1.45	0.02
2nd Cl. Tail.	0.26	1.41	0.18
1st Cl. Tail.	1.14	0.78	0.44
Rougher Tail.	95.79	0.21	9.83
Head (Calc.)	100.00	2.05	100.00

Combined Products

+100 mesh Flot. Conc.	2.49	66.98	81.50
-100 mesh Flot. Conc.	0.32	51.46	8.05
2nd Cleaner Conc.	2.81	65.21	89.55
1st Cleaner Conc.	3.07	59.81	89.73
Rougher Conc.	4.21	43.77	90.17

SCREEN ANALYSES:

Rougher Tail

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 6	1.2	1.2	98.8
8	3.2	4.4	95.6
10	2.5	6.9	96.1
14	3.8	10.7	89.3
20	3.6	14.3	85.7
28	6.0	20.3	79.7
35	8.3	28.6	71.4
48	10.8	39.4	60.6
65	11.2	50.6	49.4
100	10.7	61.3	38.7
150	9.9	71.2	28.8
200	7.3	78.5	21.5
270	5.5	84.0	16.0
400	4.4	88.4	11.6
- 400	11.6	100.0	-
Total	100.0	-	-

Test No. B6 - Continued

Screen Analyses - Cont'd

Mozley Conc.

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 20	1.2	1.2	98.8
35	27.1	28.3	71.7
65	49.2	77.5	22.5
100	11.6	89.1	10.9
- 100	10.9	100.0	-
Total	100.0	-	-

Test No. B7

Purpose:	To determine the effect of recovery of coarse graphite in a 10 minute rod mill grind product.
Procedure:	The ground feed was conditioned at high density before flotation.
Feed:	-3 mesh Composite sample
Grind:	10 minutes in lab rod mill.

Conditions:

Stage	Reagents Added, g/t					Time, min.		pH
	Na_2CO_3	Sodium Silicate	Kerosene	Lanagol OP6	DF250	Cond.	Froth	
Grind sample 10 minutes in lab rod mill.								
ROUGHER:								
Condition 1	1500	-	-	-	-	2	-	10.2
2	-	-	100	20	20	2	-	10.4
Float	-	-	-	-	-	-	30	10.2
1st Cleaner	-	500	-	-	7	2	-	-
Float	-	-	-	-	-	-	7	-
2nd Cleaner	-	-	-	-	-	-	5	-
Float								
Screened ±100 mesh								
+100 mesh to Mozley separator.								
3rd Cleaner	110	50	-	-	-	2	-	10.0
Float	-	-	-	-	-	-	5	-

Test No. B4 - Continued

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
Gravity Conc.	1.93	84.8	77.56
-100 mesh Cl. Conc.	0.34	68.3	11.10
Gravity Tail.	0.58	6.48	1.80
3rd Cleaner Tail.	0.03	2.45	0.04
2nd Cleaner Tail.	0.13	1.25	0.08
1st Cleaner Tail.	1.12	0.60	0.32
Rougher Tailing	95.87	0.20	9.11
Head (Calc.)	100.00	2.11	100.00

Combined Products

+100 mesh Flot. Conc.	2.51	66.56	79.36
-100 mesh Flot. Conc.	0.37	62.59	11.14
2nd Cleaner Conc.	2.88	66.05	90.50
1st Cleaner Conc.	3.02	63.21	90.58
Rougher Concentrate	4.13	46.30	90.89

Screen Analysis:

Rougher Tailing

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 6	2.5	2.5	97.5
8	2.2	4.7	95.3
10	1.3	6.0	94.0
14	1.3	7.3	92.7
20	1.5	8.8	91.2
28	3.8	12.6	87.4
35	7.9	20.5	79.5
48	12.4	32.9	67.1
65	13.3	46.2	53.8
100	12.8	59.0	41.0
150	11.7	70.7	29.3
200	7.8	78.5	21.5
400	4.5	88.8	11.2
- 400	11.2	100.0	-
Total	100.0	-	-

Test No. B7 - Continued

Screen Analyses - Cont'd

Mozley Conc

Mesh Size (Tyler)	% Retained Individual	% Retained Cumulative	% Passing Cumulative
+ 20	0.4	0.4	99.6
35	22.4	22.8	77.2
65	53.6	76.4	23.6
100	13.5	89.9	10.1
- 100	10.1	100.0	-
Total	100.0	-	-

Test No. B8

Purpose:	To determine if decreasing reagent addition will affect recovery.
Procedure:	The ground feed was conditioned at high density before flotation.
Feed:	4 kg minus 3 mesh Composite.
Grind:	2 x 7 1/2 minutes in 2 kg lab rod mill.

Conditions:

Stage	Reagents Added, g/t					Time, min.		pH
	Na_2CO_3	Sodium Silicate	Kerosene	Lanagol OP6	DF250	Cond.	Froth	
ROUGHER:								
Condition 1	1500	-	-	-	-	2	-	-
2	-	-	20	20	20	2	-	-
Ro. 1 Float	-	-	-	-	-	-	5	-
Ro. 2 Float	-	-	20	20	20	1	2	-

Stage	Rougher
Flotation Cell	D2
Speed rpm	1800

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
Rougher Conc. No. 1	3.17	62.0	92.61
Rougher Conc. No. 2	0.21	5.81	0.56
Rougher Tailing	96.63	0.15	6.83
Head (Calc.)	100.00	2.12	100.00

Combined Products

Rougher Conc.	3.38	58.59	93.17

Test No. B9

Purpose:	To determine if decreasing reagent addition will affect recovery.
Procedure;	The ground feed was conditioned at high density before flotation.
Feed:	2 kg minus 3 mesh composite.
Grind:	7 1/2 minutes in 2 kg rod mill.

Conditions:

Stage	Reagents Added, g/t				Time, minutes	
	Na_2CO_3	Sodium Silicate	Kerosene	DF250	Cond.	Froth
Rougher						
Condition 1	1500	-	-	-	2	-
2	-	-	20	20	2	-
Float	-	-	-	20	-	4
	-	-	-	20	-	3
Cleaner 1						
Condition	500	500	-	-	2	-
Float	-	-	-	-	-	5
Cleaner 2	250	100	-	-	1	-
Float	-	-	-	-	-	4

Screened Conc. ±100 mesh.

Stage	Rougher	Cleaners 1 and 2
Flotation Cell	Agitair	D1
Speed rpm	1200	800

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
+100 mesh Cl. Conc.	2.22	68.7	72.74
-100 mesh Cl. Conc.	0.55	70.3	18.52
2nd Cleaner Tail.	0.07	1.53	0.05
1st Cleaner Tail.	0.91	1.03	0.45
Rougher Tailing	96.24	0.18	8.24
Head (Calc.)	100.00	2.10	100.00

Combined Products

2nd Cleaner Conc.	2.78	69.02	91.26
1st Cleaner Conc.	2.85	67.36	91.31
Rougher Conc.	3.76	51.33	91.76

Test No. B10

Purpose: To determine if by not using a kerosene addition, recovery will be affected.

Procedure: The ground feed was conditioned at high density before flotation.

Feed: 2 kg -3 mesh composite sample.

Grind: 7 1/2 minutes in 2 kg lab rod mill.

Conditions:

Stage	Reagents Added, g/t			Time, minutes	
	Na_2CO_3	Sodium Silicate	DF250	Cond.	Froth
Rougher					
Condition 1	1500	-	20	2	-
Float	-	-	-	-	7
1st Cleaner	200	500	20	2	5
2nd Cleaner	200	100	-	1	4

Screened Conc. ±100 mesh.

Stage	Rougher	Cleaners
Flotation Cell	Agitair	D1
Speed rpm	1000	1200

Metallurgical Results

Product	Weight %	Assays % C(g)	% Dist. C(g)
+100 mesh Cleaner Conc.	2.62	65.7	84.15
-100 mesh Cleaner Conc.	0.39	45.6	8.63
2nd Cleaner Tail.	0.09	4.05	0.18
1st Cleaner Tail.	0.72	1.34	0.47
Rougher Tailing	96.18	0.14	6.57
Head (Calc.)	100.00	2.05	100.00

Combined Products

2nd Cleaner Conc.	3.01	63.11	92.78
1st Cleaner Conc.	3.10	61.39	92.96
Rougher Concentrate	3.82	50.14	93.43

Test No. B11

Purpose: To determine if, by not using a kerosene addition, recovery will be affected in a large bulk flotation.

Procedure: The ground feed was conditioned at high density before flotation.

Feed: 10 kg -3 mesh composite.

Grind: 7 1/2 minutes in 30 kg rod mill.

Conditions:

Stage	Reagents Added, g/t			Time, minutes			pH
	Na_2CO_3	Sodium Silicate	DF250	Grind	Cond.	Froth	
Rougher Condition 1	1500	-	20	-	2	10	10.5
1st Cleaner	200	500	20	-	2	8	-
2nd Cleaner	200	100	-	-	2	8	-
Screened ±100 mesh							
+100 mesh to Mozley separation.							
Regrind	-	-	-	10	-	-	-
3rd Cleaner	200	500	10	-	2	6	10.8
4th Cleaner	100	200	-	-	-	6	-

Metallurgical Results

Product	Weight %	Assays %		% Dist. C(g)
		C(g)	LOI	
Gravity Conc.	1.71	87.4	90.5	72.39
-100 mesh Cl. Conc.	0.45	82.1	87.1	17.66
Gravity Tail.	0.44	7.77	-	1.65
4th Cleaner Tail.	0.02	22.6	-	0.26
3rd Cleaner Tail.	0.10	9.54	-	0.48
2nd Cleaner Tail.	0.13	7.25	-	0.47
1st Cleaner Tail.	1.03	1.16		0.58
Rougher Tailing	96.11	0.14	-	6.51
Head (Calc.)	100.00	2.07	-	100.00

Combined Products

+100 mesh Flot. Conc.	2.15	71.13	-	74.04
-100 mesh Flot. Conc.	0.57	65.49	-	18.14
3rd Cleaner Conc.	0.47	79.06	-	17.93
2nd Cleaner Conc.	2.73	70.14	-	92.45
1st Cleaner Conc.	2.86	67.22	-	92.92
Rougher Conc.	3.89	49.72	-	93.49

Test No. B11 - Continued

SCREEN ANALYSES:

Rougher Tail.

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 10	0.3	0.3	99.7
14	0.5	0.8	99.2
20	1.5	2.3	97.7
28	5.3	7.6	92.4
35	11.3	18.9	81.1
48	19.5	38.4	61.6
65	14.7	53.1	46.9
100	12.6	65.7	34.3
150	9.9	75.6	24.4
200	6.7	82.3	17.7
270	4.3	87.0	13.0
400	3.6	90.6	9.4
- 400	9.4	100.0	-
Total	100.0	-	-

4th Cleaner Conc.

+ 65	0.5	0.5	99.5
100	0.5	1.0	99.0
150	13.0	14.0	86.0
200	18.5	32.5	67.5
270	18.5	51.0	49.0
400	19.0	70.0	30.0
- 400	30.0	100.0	-
Total	100.0	-	-

Mozley Conc.

+ 20	1.0	1.0	99.0
28	5.2	6.2	93.8
35	13.8	20.0	80.0
48	24.4	44.4	55.6
65	23.8	68.2	26.8
100	16.8	85.0	15.0
- 100	15.0	100.0	-
Total	100.0	-	-

4. Concentrate Production

Test No. B1

Purpose:	To produce a bulk sample of larger flake graphite.
Procedure:	Seven x 15 kg samples of bulk graphite ore were individually roughed in a large Denver D7 cell. The combined concentrates were screened on 100 mesh. The oversize was further cleaned by flotation and tabling.
Feed:	14 x 15-kg charges pulverized one pass at 0.07 inch gap.

Conditions:

Stage	Reagents Added, g/t				Time, minutes		pH
	Na_2CO_3	Sodium Silicate	Kerosene	DF250	Cond.	Froth	
Rougher Cond.	1500	-	150	20	2	15	-
Combine the rougher concentrates and screen on 100 mesh. Clean the plus 100 mesh in a 2000 g Denver D2 cell.							
1st Cleaner	-	40	-	-	2	20	10.0
2nd Cleaner	-	40	-	-	2	20	10.2
Flotation cleaner concentrate was upgraded using a Wilfley shaking table.							

Metallurgical Results (Bulk Sample 1)

Product	Weight %	Assays % C(g)	LOI	% Dist. C(g)
Table Concentrate	1.65	89.9	90.0	61.6
Table Tailing	0.37	29.0	-	4.4
2nd Cleaner Tail.	0.19	31.4	-	2.5
1st Cleaner Tail.	0.79	15.6	-	5.1
-100 Rougher Conc.	1.78	19.1	-	14.1
Rougher Tailing	95.22	0.31	-	12.3
Head (Calc.)	100.00	2.41	-	100.0
Head (Direct)	-	2.42	-	-

Calculated Grades and Recoveries

+100 mesh Ro. Conc.	3.00	59.1	-	73.6

Test No. B1 - Continued

SCREEN ANALYSES:

Table Conc.

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 14	2.2	2.2	97.8
20	6.5	8.7	91.3
28	21.8	30.5	69.5
35	24.1	54.6	45.4
48	24.0	78.6	21.4
65	11.7	90.3	9.7
100	6.6	96.9	3.1
- 100	3.1	100.0	-
Total	100.0	-	-

Rougher Tail. Composite

+ 8	0.1	0.1	99.9
10	2.2	1.3	98.7
14	15.3	17.6	82.4
20	12.2	29.8	70.2
28	13.1	42.9	57.1
35	11.0	53.9	46.1
48	9.5	63.4	36.6
65	6.8	70.2	29.8
100	4.9	75.1	24.9
- 100	24.9	100.0	-
Total	100.0	-	-

5. TAILINGS EVALUATION

ACID PRODUCING POTENTIAL TEST

Purpose:	To conduct an acid producing potential test on the rougher tailing from Test B1.
Procedure:	Duplicate 10 g portions of pulverized sample were mixed in 100 mL of distilled water and stirred for 15 minutes. The samples were titrated to pH 3.5 with 1.0 Normal sulphuric acid and left stirring. The addition of acid was repeated until the pH was 3.5 for four hours.
Sample:	2 x 10 g of pulverized Test B1 tailing.
Acid:	1.0 N sulphuric acid

Acid Producing Potential Data

Time	1 N H_2SO_4 Added mL Cumulative SAMPLE 1	SAMPLE 2
0	1.0	1.2
1/2	1.6	1.6
1 1/2	1.8	1.9
3	2.2	2.2
5	2.4	2.4
6	2.6	2.6
7	2.8	2.8
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0

CALCULATIONS

$$\text{Acid Consuming Ability (kg/t)} = \frac{\text{mL of 1 N } H_2SO_4 \times 0.049 \times 1000}{\text{weight of sample in grams}}$$

$$\text{Acid Producing Potential (kg/t)} = \% \text{ S} \times 1000 \times \frac{98}{32}$$

$$\text{Acid Consuming Ability (kg/t)} = \frac{2.8 \times 0.049 \times 1000}{10}$$

$$= 13.7 \text{ kg/t}$$

where tailing sample assays 0.12 % S(T)

$$\text{Acid Producing Potential} = \frac{0.12}{100} \times 1000 \times \frac{98}{32}$$

$$= 3.7 \text{ kg/t}$$

Conclusions: The acid consuming ability was 13.7 kg/t while the acid producing potential was 3.7 kg/t.
The sample would not be an acid producer.

LEACHATE EXTRACTION TEST

Purpose: To determine the concentration of contaminants in leachate from a specific waste material.

Method:

(A) Equipment

1000 mL wide mouth cylindrical bottle with cap
pH meter
25 mL burette
1000 mL vacuum flask
12.5 cm diameter buckner funnel
Whatman No. 1 filter paper
0.5 N acetic acid*
De-aerated distilled water**, approx. 2.5 L

(B) Set-up Procedure

1. pH meter to be calibrated according to standard procedures using buffers 4.0 and 7.0.

2. *0.5 N acetic acid : (29.0 mL acetic acid per liter distilled water).

3. **De-aerated distilled water : distilled de-ionized water sparged with nitrogen for 30 minutes to de-oxygenate.

4. All glassware and equipment that comes in contact with the sample shall be washed as follows before each use:

4.1. Wash with 10 % nitric acid solution
4.2. Rinse twice with tap water
4.3. Rinse twice with distilled water.

(C) Leach Procedure

1. Do not allow the sample of waste material to dry.

2. Obtain an accurate moisture content on a sample of the waste material.

3. Weigh out a 50.0 g (dry equivalent weight) representative sample of the waste material.

4. Place the 50.0 g sample in a 1000 mL bottle.

5. Add 800 mL of de-aerated distilled water.

6. Cap the bottle securely and shake by hand for approx. 30 seconds.

Method: (C) Leach Procedure - Cont'd

7. Measure the pH of the solution in the bottle. If the pH is less than 5.0 ± 0.2, add 200mL of de-aerated water (less the volume of moisture in the sample) and proceed to step 13 after rotating the sample for 24 hours on the cyanide rolls.

8. If the pH is greater than 5.0 ± 0.2, add a sufficient volume of 0.5 N acetic acid to bring the pH to 5.0 ± 0.2.

Note: Do not exceed 200 mL 0.5 N acetic acid total addition during the procedure.

9. Cap the bottle securely and rotate on the cyanide rolls for 24 hours.

10. Monitor and adjust the pH of the solution to 5.0 ± 0.2 after 1 hour, 3 hours and 6 hours elapsed time.

11. If at the end of the 24 hour leach period, the pH of the solution is not below 5.2 and the maximum amount of acid has not been added, adjust the pH to 5.0 ± 0.2 and continue leaching for an additional 2 hours.

12. At the completion of the leach period, make up the total volume of liquid to 1000 mL with de-aerated distilled water (only when step 8 - acid leaching was used). Volume water required = 1000 - (800 + acetic acid volume + moisture content volume).

13. Filter the pulp in the buckner funnel using a Whatman No. 1 filter paper.

14. Transfer the leachate to a clean bottle for analysis.

Note: If the solution pH is less than 5.0 ± 0.2 as described in Step 7, only one leach test is required. If step 8 is used where acetic acid additions are required, a second leach test using neutral conditions (as per step 7) is also required.

Site-Specific Waste Test - Data Sheet

Test No. WD-DIS 1

Sample Origin:	Flotation tailing Test B1
Leach Type:	neutral
Sample Weight (as is):	57 grams
Sample Weight (dry):	50 grams
Moisture Contnet:	14 %

Leach Time hour	Pulp		0.5 N Acetic Acid Addition mL Cumulative
	pH	%	
0	10.0	ambient	Nil
1/2	9.8		Nil
1	9.8		
2	9.8		
3	9.7		
4	9.5		
5	9.5		
24	9.6		Nil

Test No. WD-DIS 2

Sample Origin:	Flotation tailing Test B1
Leach Type:	acid
Sample Weight (as is):	57 grams
Sample Weight (dry):	50 grams
Moisture Content:	14 %

0	4.6	ambient	9.4
1/2	5.2		Nil
1	5.2		
2	5.3-5.0		10.6
3	5.0		
4	5.0		
5	5.0		
24	5.4		12.8

RESIDUE

Element	Concentration, mg/L	
	Natural Leachate	Acid Leachate
Cu	0.19	0.20
Pb	<0.02	<0.02
Zn	0.02	0.19
As	<0.01	0.013
Cd	0.04	0.04
Cr	0.04	0.04
Ba	0.05	0.07
Se	<0.20	<0.20
Hg	<0.001	<0.001
U	<2.0	<2.0
F	0.24	0.04
CN(Free)	<0.02	<0.02
Cl^-	0.12	1.03
Ag	<0.03	<0.03
NO_3	<0.50	<0.50
B	<0.02	0.02

BULK SAMPLING PROGRAM

BISSETT CREEK

December, 1985 - February, 1986

Location: Bissett Creek, Maria Township, Ontario

By: Coastal Mountain Engineering Ltd. on behalf of Princeton Resources Corporation

TABLE OF CONTENTS

BULK SAMPLING PROGRAM - BISSETT CREEK

Introduction

The sampling and excavation of some 4,650 tonnes of crystalline flake graphite was carried out between December 3, 1985 and February 16, 1986. The program was technically very succesful as sampling, blasting and equipment techniques were established. However the program was hampered by severe winter conditions and the contractors lack of experience, consequently the time required for completion was substantially longer and costlier.

Site Locations

Initial sites were chosen on the basis of grade, overburden depths and ease of access (see Attached Fig. 1). Once established, an air-track drill was brought in to drill sample the sites on closer spacing and to further define the pit limits.

This resulted in sites #2 and #5 being eliminated at this time because of water and overburden. It is important to note that in the regular course of mining these areas would be easily mined, but due to budget and time constraints it was not practical to mine these at this time.

Pit Preparation

The pits were grade contoured to establish pit limits, (see drawings nos. 1 to 4) and then field surveyed to establish actual rock volumes and physical limits. An air-track drill was also used to increase the sample density and refine the grade contours.

Holes were drilled on five meter centers and two meter centers on lines between the existing ten meter spaced diamond drill holes. Air track holes were also drilled adjacent to core holes for comparison of assay results to determine if air track cuttings could be used for grade control.

Pit Samples

To facilitate assay turn-around and volume through-pit a laboratory facility was established at the project site.

Two separate facilities were established, a sample preparation building and an analytical trailer.

The sample preparation building contains facilities for weighing and drying, a small jaw crusher, disk pulverizer, splitters and dust fans. The analytical trailer houses preparation tables, scales, fume hood, drying ovens and a model WC112 LECO carbon analyser.

Specifications of the LECO are as follows:

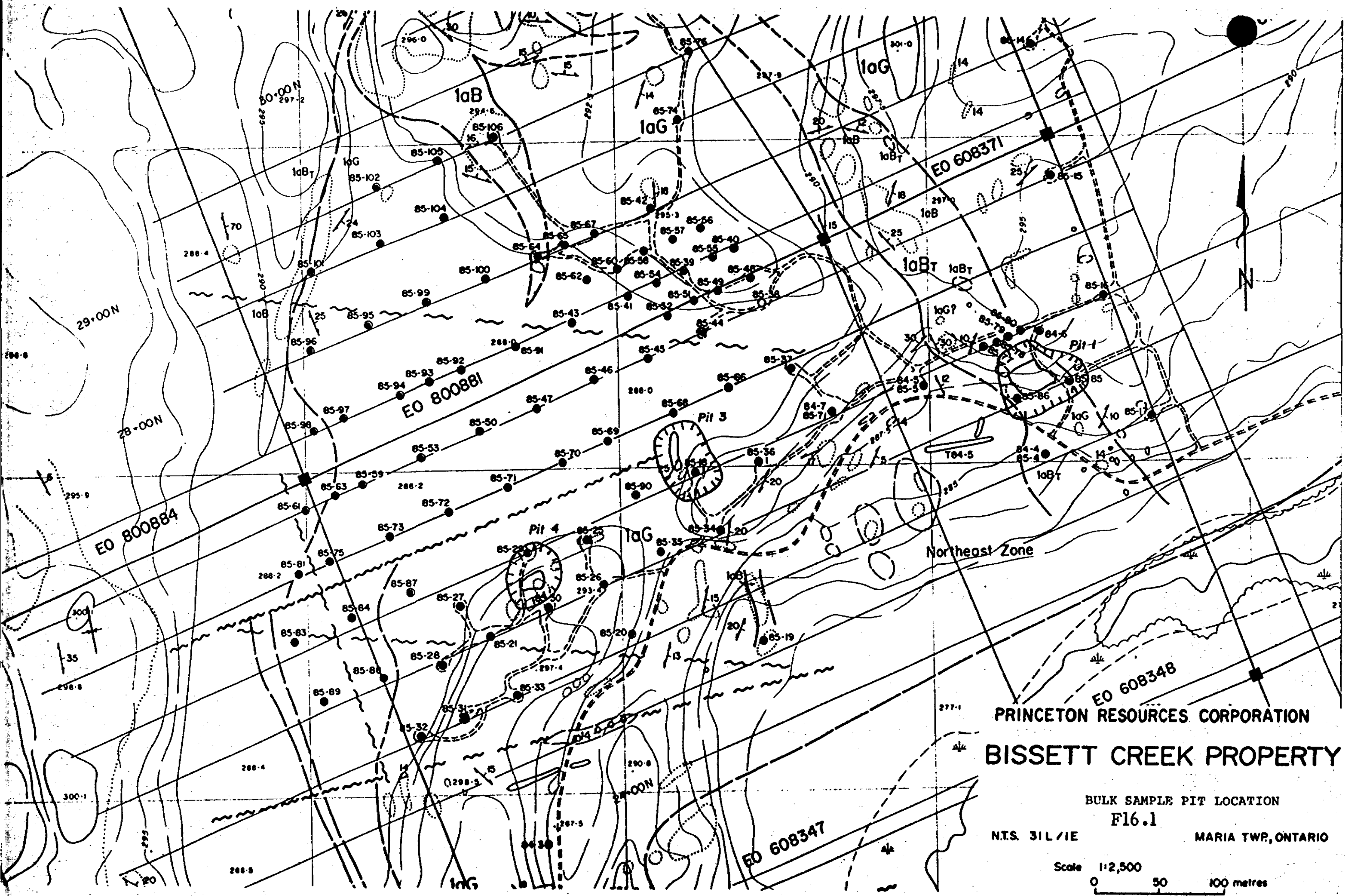
Sensitivity - 0.0001% C
Accuracy - +/- 0.75% C
Combustion Temp. - + 1700° C
Method of Analysis - Molecular sieve trap with thermal conductivity cell.

Carbon range and sample weight - 0-4% 1.0 gr.
0-8% 0.5 gr.
0-16% 0.25 gr.
0-40% 0.1 gr.
0-99.9% 0.05 gr.

Samples were taken from diamond drill core, air-track cuttings and as grab samples from haulage trucks.

Drill core - was visually inspected as to mineralized unit and then split in five foot runs.

Air-track holes - cuttings were collected in a sample cone over every five foot run.



PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY

BULK SAMPLE PIT LOCATION

F16.1

N.T.S. 31 L/1E

MARIA TWP, ONTARIO

Scale 1:2,500

0 50 100 metres

Haulage truck samples - a total of 3 lb. (1.4 kg) of material were collected on a random basis from each corner of the dump box. Half the sample was collected as the truck was loaded and the remaining half upon the truck being dumped.

All samples were assigned a number, location, drill hole interval or truck load, pit number and when appropriate were plotted on drawings.

The procedure for sample prep and analysis was laid out by R. Downs, metalurgical consultant after reviewing practises at Erana Mines Ltd. and Lakefield Research. The following is a brief summary.

1. Dry the samples, as received, in a drying oven at 105 to 110 degrees Celsius.
2. Crush the whole sample through a laboratory jaw crusher set to give an all minus 3 mm product.
3. Pass the whole sample through a riffle sampler. Retain one half and reject one half. Repeat the riffling procedure until the retained sample weighs 500 gms to 1000 gms.
4. Pulverize the 500 gms to 1000 gms sample through a disc pulverizer. The plates of the pulverizer should be set to give a pulverized product which is essentially (80%) minus 100 mesh.
5. Mix the whole of the pulverized sample by rolling it 20 times on a rolling cloth. Use a spatula to take approximately 250 gms of the sample into a sample bag.
6. Weigh 5 gms of sample into a 250 ml beaker (weight wl gms).
7. Add 100 ml of 10% nitric acid and boil for approximately 3 minutes.
8. Filter the sample. Wash the solids on the filter paper with distilled or de-ionized water.

9. Wash solids from filter paper back into beaker.
10. Dry solids in the beaker in a drying oven at 105 to 110 degrees Celsius.
11. Weigh dried solids (weight w2 gms).
12. Pulverize the dried solids using a mortar and pestle.
13. Weigh out duplicate 200 mg samples.
14. Use Leco apparatus to get duplicate carbon analyses (a1 and a2).
15. If difference between a1 and a2 is greater than 0.1% carbon, then repeat the Leco analysis, in duplicate.
16. Result to be reported is:

$$\% \text{ graphitic carbon} = \frac{(a1 + a2)}{2} \times \frac{w2}{w1}$$

Although the lab on site should have expedited assay results, continuous problems began to arise with the LECO machine itself. Problems with the sieve trap and gas chambers have caused repeated one week shutdowns.

Discussions are ongoing with the Leco Equipment Company to determine if another instrument is more suitable for analyzing the samples.

Bulk Sample Mining

The pits were initially drilled on a blast pattern of 4'x3'x10'. As no free faces were available for breakout and heavy freeze conditions prevailed, powder consumption was high.

Initial blasting yielded a high proportion of slabby material that will require some secondary breaking. By taking the pattern down to 3'x3'x10' and using TOVEX 5000 at the base of the holes, much better fragmentation was obtained. However, in no case was

100% of the blasted material eight inches or smaller.

Conventional medium sized contractors' equipment was used for drilling, blasting, loading and hauling to determine if a reasonably sized contractor could handle the open pit mining. The equipment compliment consisted of a Gardner-Denver air-track and 600 C.F.M. compressor, Fiat Allis 11-B cat, a Koring 105 hydraulic hoe equipped with a 1 3/4 yd. bucket and three tandem dumps with 10 yd. rock boxes.

The equipment was found to be very suitable despite the winter conditions. The hoe did not have problems with breakout but rather had problems in manuevering in the pit due to icing conditions. The same can be said for the haulage trucks, they made reasonably good turnaround times over the four kilometer haul despite icing conditions on the hills.

An extra cost incurred was the constant need to sand the road to ensure truck movement.

Excavated material was placed in seperate stockpiles near the mill. Each stockpile was labelled according to pit number and whether the material was oxidized or not.

Total material excavated is tabulated below:

Pit #1

Tonnes outlined	7545	2.9% C.
Tonnes excavated	3700	3.15% C.
Tonnes to mill	3200	3.25% (est.)

Pit #3

Tonnes outlined	1330	3.28% C.
Tonnes blasted	1050	3.20% C.
Tonnes to mill	800	3.20% C. (est.)

Pit #4

Tonnes outlined	450	3.4% C.
Tonnes blasted	750	3.2% C.
Tonnes to mill	650	3.2% C. (est.)

Cost of bulk sampling is tabulated below:

Labour	$9,500.00
Excavator	9,200.00
Dozer	1,200.00
Air track & consumables	4,300.00
Fuel	1,000.00
Support & engineering	2,200.00
Explosives	6,000.00
Haulage	8,000.00
Sampling	6,000.00
Total	$47,400.00

Based on 5,500 tonnes, cost per tonne was $8.61 or $7.80/ton.

Summary

The material from Pit #1 contained an upper oxidized zone; the material from Pit #3 tends to be siliceous and very competent, while the material in Pit #5 has a high proportion of large flake graphite.

The stockpiles should give a representative sample of the variable ore tenure that one might expect and consequently each stockpile should be run as an individual batch through the pilot plant to determine what variables may be encountered.

Large samples (say 10 pounds) should be collected for lab analysis to determine if sample volume has an effect on assay values.

Lab equipment and procedures should be refined until a satisfactory consistency and turnaround time is achieved.

CERTIFICATE OF QUALIFICATIONS

I, David J. Copeland, of 3626 West 1st Avenue, Vancouver, British Columbia, do hereby certify that:

(1) I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology, 1970.

(2) Since graduation I have been engaged in mineral exploration and mine development in Canada, United States of America, Mexico, South America, Australia, New Guinea and South East Asia.

(3) I am a registered member, in good standing, of the Association of Professional Engineers in British Columbia.

(4) I am a Consulting Engineer.

(5) I have carried out extensive work on this project and am familiar with the geologic setting and supervised the bulk sampling of the mineralized zones.

(6) I do own shares of the public company, Princeton Resources Corporation.

D.J. COPELAND

D.J. Copeland, P. Eng.

Vancouver, British Columbia
JULY 1986.

4 of 4 63.4697

070

APPENDIX E

DIAMOND DRILL CORE LOGS

Note: Some of the drill holes were previously submitted for assessment, however because of the differing setup of the logs, they were not culled out of this submission

To Accompany report by Uwe Schmidt, B.Sc., F.G.A.G. "Geology and 1985 Diamond Drilling, Bissett Creek Graphite Property", March 7, 1986.

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-4 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED JULY 24, 1985 FINISHED JULY 5, 1985 TOTAL DEPTH 238' (100' extension of 84-4)

LOCATION 25+00N 18+55E COLLAR ELEVN 934.58 BEDROCK ELEVN ____

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

NOTE: 85-4 is an EXTENSION of 84-4 from 138' to 238'

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C(G)	WT.% FLAKE
130 84-4				138					
140	3	138'-143' IaG GRAPHITIC GNEISS - med. grey green finely banded biotite - qtz - fs - graphitic gneiss	6165		10	1-2	5	1.93	
	5	- dark grey and blue green banded biotite-amphibole-garnet-musc.-graphitic gneiss		85°	<5		<5		
Box 1	P	143'-148.5' P PEGMATITE SILL - pink and green biotite - qtz-feld.-pegmatite sill - minor inclusions of IaG - has appearance of granitization of IaG - contacts 70° to C/A		148					
150	3	148.5'-182' IaG GRAPHITIC GNEISS. dark grey finely banded biotite-qtz-fs graphitic gneiss - cut by occasional pink feldspathic bands 153'-155' — fractured and cut by K feldspar veinlets	6166	20° 45° 85° 158	10	1-2		2.69	
160 Box 2	1	pale grey-green banded biotite-amphibole-qtzo-feldspathic graphitic gneiss with 1-2 cm bands of qtz-fs making up 10-20% of rock	6167	60° 169	<5 5-10 5 <5 5-10		5	2.41	
170		177'-178' grey thinly banded gneiss	6168	80°	5 5-10 <5 5	1-3		1.50	
180	1	Gradational contact		182					
Box 3	10	182'-187' IaB BARREN GNEISS - dark grey and white banded biotite-garnet-qtz-fs gneiss - minor pale beige and pale green migmatitic bands		85°	Tr				
190	2	187'-214' IaG GRAPHITIC GNEISS Gradational contact. medium grey and green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss - pink and pale grey quartzo-feldspathic bands	6169	80° 45° 193	<5 5			1.14	
200			6170	20° 5° 204	5-10			1.51	
Box 4	2	209'-210' biotite-garnet-pyrite, concentrated over 1'			5 Tr				

DIAMOND DRILL CORE LOG

HOLE 85-4 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
210 Box 4	2	1aG GRAPHITIC GNEISS (cont'd). P med grey and green banded biot.-amph.-qtz-fs. graphitic gneiss 210'-211.5' pale green biot-qtz-fs pegmatite; contact 80°		+ +	Tr	1	<5		
220 Box 5 230 Box 6 238	10 10	214'-238' 1aB BARREN GNEISS grey and white banded biotite-garnet-qtz-fs gneiss, white and beige qtz-fs segregations from 1-2 cm thick		10° 75°					
		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-5 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED SEPT. 14, 1985 FINISHED SEPT. 14, 1985 TOTAL DEPTH 248' (110' extension of 84-5)
LOCATION 25+86 N 17+84 E COLLAR ELEVN 943.62 BEDROCK ELEVN ____
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

NOTE: 85-5 is an EXTENSION of 84-5 from 138' to 248'

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
130 84-5 138									
140 Box 1 150	10	138'-171' 1aB BARREN GNEISS - leucocratic biotite-garnet-quartzo-feldspathic gneiss		10° 70° 25°					
160 Box 2 170	11	- leucocratic biotite-garnet-amphibole gneiss - minor and variable amphibole content - minor and variable muscovite content 169-171' dark green lamprophyre dyke		75° 30° 20°					
180	1	171'-184.5' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole-graphitic gneiss 171'-173' broken core.	171 7285 185	30° 40° 20° 30°	5-10 5	1-3	5	1.501	
Box 3 190	10	184.5'-222' 1aB BARREN GNEISS med. grey banded biotite-garnet gneiss		85°					
200 Box 4 210	10								

DIAMOND DRILL CORE LOG

HOLE 85-5 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
210 Box 4 220	11	1aB BARREN GNEISS (cont'd.) med to dark grey biotite-garnet-gneiss - minor variable amphibole content		75° 25°					
Box 5 230	1	222'-236' 1aG GRAPHITIC GNEISS pale grey and grey green banded graphitic gneiss - minor variable garnet content	222 7286 236	70°	<5	1-3	<5	1.867	
240 Box 6 248	11	236'-248' 1aB BARREN GNEISS med. grey banded biotite-garnet gneiss - with minor and variable amphibole content		80°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-7 PAGE 1 OF 2

PROJECT "BISSETT CREEK" CLAIM ____ CORE SIZE BQ ZONE NE

STARTED SEPT. 10, 1985 FINISHED SEPT. 11, 1985 TOTAL DEPTH 328'

LOCATION 26+02 N 17+20 E COLLAR ELEVN 957.22 BEDROCK ELEVN ____

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

NOTE: 85-7 is an EXTENSION of 84-7 from 153' to 328'

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
150 84-7									
85-7		153'-171.5' 1aB BARREN GNEISS		75° 30°					
160 BOX 1			158 7287 162	75° 45°	5			1.139	
170	3	171.5'-188' 1aG GRAPHITIC GNEISS -med-dark grey finely banded graphitic biotite-amphibole gneiss	170 7288		<5 10 5	1-3	<5 5	1.762	
	1	-pale grey and grey-green banded biotite-amphibole graphitic gneiss							
180 BOX 2	1		178 7289 188		<5 5			1.717	
190	11	188'-215.5' 1aB BARREN GNEISS -med grey banded biotite-garnet-amphibole gneiss		80°					
200 BOX 3				45° 85°					
210	11								
220 BOX 4 230	1 1	215.5'-235.5' 1aG GRAPHITIC GNEISS grey and grey-green banded biotite-amphibole-garnet-graphitic gneiss -minor and variable garnet content	215.6 7290	45° 75° 50°	5 <5 5 <5	1-3	5	1.713	

230.5

DIAMOND DRILL CORE LOG

HOLE 85-7 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
230 Box 4	1	laG GRAPHITIC GNEISS (cont'd). -pale grey and grey-green biotite-amphibole-garnet graphitic gneiss	2305		<5	1-3	<5		
Box 5	10	235.5'-239' laB BARREN GNEISS leucocratic biotite-garnet-amphibole gneiss 338'-339' pink and grey migmatite		+					
240	3	239'-241' laG GRAPHITIC GNEISS - med. grey & green finely banded biotite-amphibole graphitic gneiss	239 7291		5-10	1-2	5	1.350	
	T	241'-243.5' laBT TRANSITIONAL GNEISS - med. grey banded biotite-muscovite-garnet gneiss	244		<5	1-3			
250 Box 6 260	10	243.5'-285' laB BARREN GNEISS leucocratic banded biotite-garnet gneiss - med. grey banded biotite garnet gneiss - variable amphibole content; intermittent potassic alteration along hairline fractures.		80° 35° + + 20° 75°					
270 Box 7 280		275'-276' laG med. olive green finely banded graphitic gneiss (subunit 3)			5	1-3			
Box 8 290	2	285'-307' laG GRAPHITIC GNEISS med. grey-green banded biotite-amphibole gneiss	285 7292 295	40° 50°	5 10	1-3	5		
300	2	300'-302' green epidote alteration	7293 307	20°	5 5-10 5 5-10 10 5-10			1.574 (1.822)	
	T	307'-309' laBT TRANSITIONAL GNEISS - biotite-musc.-garnet gneiss + pale blue mineral?		+					
310 Box 9	14	309'-328' laB BARREN GNEISS leucocratic pink and grey biotite-garnet gneiss - mauve garnets							
320	13	dark green biotite-amphibole gneiss							
328	14	leucocratic biotite-amphibole gneiss		75°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-8 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE C

STARTED JULY 5, 1985 FINISHED JULY 6, 1985 TOTAL DEPTH 123'

LOCATION 38+75N 28+45E COLLAR ELEVN 981.0 BEDROCK ELEVN 977.0

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
		CASING							
	P	4'-6' P PEGMATITE - qtz-feld. pegmatite		+ +					
10 Box 1	1	6'-25.5' 1aG GRAPHITIC GNEISS pale-med. grey green, med. grained pyritic graphitic gneiss, interbanded with grey quartz feldspar injections	6 7294 16	75°	Tr <5 <5 <5	1-2	Tr		
20			7295					1.060	
		21'-22' pegmatite		+					
			26		<5	1-2			
30	P	25.5'-32.5' P. PEGMATITE pale grey green feldspar quartz biotite pegmatite		+ + + + + + +					
Box 2 40	1	32.5'-64.5' 1aG GRAPHITIC GNEISS pale grey green interbanded graphitic and pyritic gneiss 39'-40' garnet and biotite rich 47' 2" garnet & biotite	33 7296 48	80°	<5 <3 <5	1-2	Tr	1.20	
50 Box 3 60			7297 63					1.396	
	P	64.5'-68.5' P PEGMATITE -pale grey-green biotite-qtz-feldspar pegmatite with inclusions of 1aG.		+ + + + +					
70 Box 4	1	68.5'-80' 1aG GRAPHITIC GNEISS interbanded grey-green graphitic gneiss - pale grey-green biotite quartz-feldspar gneiss pyrrhotite	68.5 7298 78	80°	<5	1-2	Tr	1.331	
80	P	78'-100' P PEGMATITE		45° + +					

DIAMOND DRILL CORE LOG

HOLE 85-8 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
	P	P PEGMATITE (Cont'd) -pale green biotite-qtz-feldspar pegmatite - intermittently pyritic							
Box 5 90	P	- pink biotite-qtz-feldspar pegmatite -intermittently pyritic and chloritic contact 50°	100						
100		100'-123' IaG GRAPHITIC GNEISS			<5	1-2	5		
Box 6 110	2	med-dark grey biotite-chloritic quartzo-feldspathic graphitic gneiss - medium grained 102.5'-104.5' pegmatite 118-115.5' chloritized biotite quartzo-feldspathic pegmatite upper contact 25° to C/A lower contact 20° to C/A	6105 113	+ + 80°	5-10 ↓	1-2 ↓	5 ↓	1.79	
120 Box 7			6106 123	+ +	5-10 ↓ 10-15 ↓	1-2 ↓	5 ↓	2.70	
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-9 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE C

STARTED JULY 6, 1985 FINISHED JULY 7, 1985 TOTAL DEPTH 123'

LOCATION 37+72N 20+45E COLLAR ELEVN 958.0 BEDROCK ELEVN 946.5

ANGLE -90° AZIMUTH — LOGGED BY U. Schmidt

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE mm	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
10		CASING TO 8' BOULDERS							
Box 1 20	1/2	11.5'-108' IaG GRAPHITIC GNEISS pale to medium-grey-green interbanded chloritic quartzo-feldspathic gneiss - cut by narrow pegmatite dykes and sills - minor garnet-biotite rich sections -10-15% of rock consists of migmatitic qtz-biotite-feldspar segregations parallel to gneissosity -16'-17' biotite garnet.	11.5 7299 25.5	5° 85°	<5	1-4	<5	1.331	
30 Box 2 40	1	-25.5'-27' white quartz-biotite feldspar pegmatite -contact (upper) 30°	27 7300 41	85° 50°	<5	1-2	<5 PY PYRR	1.296	
50 Box 3 60		-45.5'-48' garnet, biotite, pyrrhotite, chlorite pyrite 2" -56'-57.5' weakly pyritic, biotite quartz feldspar pegmatite	7301 66		<5 5	1-2	<5	1.345	
70	1/2	Gradational Contact	7302 72					1.750	
Box 4 80	3	dark grey to grey-green biotite quartz-feldspar gneiss - blue green mottled feldspathic mineral aggregates	6107	75°	10-15 5-10		5	2.11	

DIAMOND DRILL CORE LOG

HOLE 85-9 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
Box 4		1aG Graphitic Gneiss (cont'd) -Chloritized biotite-muscovite quartzo-feldspathic gneiss -dark grey to blue-ish and greenish grey	6107 88	75	5-10	1-3	5	2.11	
90 Box 5	3	84-85'-unknown pale grey mineral 1mm diameter. 93' - 1" gouge	6108 98	30° 75 30° 30°	5 10-15 5-10 5	1-2		2.98	
100		106'- grey mottled texture for 1', blue-green talc, biotite, garnet.	6109 108	60°	5-10			3.03	
110 Box 6 120	12	108'-123' 1aB BARREN GNEISS dark grey and white interbanded biotite-garnet quartz-feldspar gneiss - med. to coarse grained. -10-20% migmatitic qtz-feldspathic bands 118'-119.5' Biotite-qtz-feld. pegmatit unit 14 upper contact 40°		60°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-10 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE C

STARTED JULY 7, 1985 FINISHED JULY 8, 1985 TOTAL DEPTH 122

LOCATION 36+75N 20+46E COLLAR ELEVN 941.59 BEDROCK ELEVN 933.59'

ANGLE -90° AZIMUTH — LOGGED BY U. Schmidt

SCALE 1:1250

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		CASING 8'							
10		8'-94' IaG GRAPHITIC GNEISS	11		TR	TC	TR		
Box 1	2	medium grey interbanded biotite-chlorite, graphitic quartzo-feldspathic gneiss with interbands of quartz and feldspar (~10%) 15.5' 1" gouge	6110 21	70° 60° 5°	10 10-15 10	1-2	5	2.25	
20				+ +					
Box 2	1	pale grey-green, more chloritic variety of above - feldspar and quartz migmatitic segregations form 10-15% of rock in 0.5-1.0 cm bands - chlorite and epidote produce olive green colour - probably epidotized amphiboles.	22 7303 36	5° 35°	5 <5 5	1-2 1-3 2-3	5	1.303	
30									
40		~37'-38' 8" pegmatite band, pink garnets, high biotite	7304 41	40° 65°					
					5-10 5		PYRR		
50	1	54' 8" pegmatite sill 57' 4" pegmatite sill	48 7305	65° +	5-10 5	1-3	5	1.520	
Box 3									
60		61'-63.5' pegmatite sill	61	+ +					
		67' - biotite-garnet. 67.5'-69' biotite feldspar quartz pegmatite	63.5 7306	15° + 20°	5 5	1-3 1-3	5 5	0.782	
70			72	65°					
Box 4	1		7307						
80			82						

DIAMOND DRILL CORE LOG

HOLE 85-10 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 4 90 Box 5	1 1	1aG GRAPHITIC GNEISS (cont'd) - leucocratic grey-green interbanded graphitic gneiss 88' - pegmatite	7307 82 7308 94	65° + 85°	5 5-10 5 10-15 5 10-15 15-20 5	1-3	5		
100	P	94'-102' PEGMATITE - sill of pink and green biotite - quartz - feldspar pegmatite. '95 - inclusions		+ + 30° + +					
110 Box 6	1	102'-112.5' 1aG GRAPHITIC GNEISS -pale, olive green, finely banded biotite-amphibole quartzo-feldspathic graphitic gneiss; pyrite and pyrrholite up to 5% -fine blue green bands consist of layers of propylitized amphibole bands. Gradational contact	102 7309 113	70° 20° 56°	5 TR	1-3 TR	5 TR	1.144	
120	15	112.5'-122' 1aB BARREN GNEISS dark grey and white interbanded, biotite, garnet, sillimanite quartzo-feldspathic gneiss with interbands of quartz-feldspar. 0.5 to 1cm thick		50°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-11 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE B

STARTED JULY 8, 1985 FINISHED JULY 10, 1985 TOTAL DEPTH 248'

LOCATION 30+92 N 20+02 E COLLAR ELEVN 981.0 BEDROCK ELEVN 973.0'

ANGLE -90° AZIMUTH - LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		BEDROCK							
10 Box 1 20	1	8'-226' 1aG GRAPHITIC GNEISS -pale to medium grey chloritic, pyritic biotite-quartzo-feldspathic gneiss; interbanded with white quartz-feldspar segregations and cut by intermittent biotite-quartz-feldspar pegmatite dykes and sills.	8 7310 20	60° + + + 50°	5 <5 5	1-2	5	1.841	
30			7311 30	35°	<5			1.076	
Box 2 40	5	-dark grey and white interbanded chloritic biotite garnet quartzo-feldspathic gneiss -white feldspar and quartz segregations 10-15% of rock -pink garnets, trace epidote	7312 40	50° 20° 45°	Tr 5-10 <5		Tr 5	1.438	
50 Box 3	1	-pale to med. grey chloritic, pyritic, interbanded, biotite-qtz-feldspar gneiss 52' pink garnet		42° + 35° 66° 20°	Tr 5-10 5 5-10				
60		Gradational			5+	1-3			
70 Box 4 80	1	grey-green variety of above subunit.		20° 60°					

DIAMOND DRILL CORE LOG

HOLE 85-11 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
Box 5 90	1	<u>1aG GRAPHITIC GNEISS (Cont'd)</u> pale to med. grey interbanded graphitic gneiss		40° 40° 45°	5+	1-3	5		
		98'-5" pegmatite sill	6116	25° 62° +	5-10			1.35	
100	T	med.-dark grey biotite, garnet, musc., qtz-feldspar gneiss			5				
Box 6 110	1	pale grey quartz-feldspar gneiss with chloritized biotite feldspar 35-45 quartz 10-15 chloritized-biotite 15-20	6117	40° +	5-10			1.09	
120			6118	+ + 20°	15 5-10			1.34	
Box 7 130		106' pegmatite 4" 111' pegmatite 3" 116' pegmatite	6119	15°	10+ 5-10			1.34	
140	1		6120	65°	5				
Box 8 150			6121					1.10	
160		153'-159' intermittent pegmatites to 7"	6122	+ + + + +	10-15 5-10 5			1.26	
Box 9	1	165'-167' grey-green andesitic breccia dyke.; contact 25°	6123	50° 20° + +				0.99	
170	3	dark green-chloritized equivalent of above sub-unit - fractured ground.		Δ Δ Δ	5-10	1-3	5		
		171.5'-175' pink and green pyritic, and chloritic feldspar, qtz, biotite garnet pegmatite P	6124	+ + + + + 60°	10-15 5-10	1-3	5	1.15	
Box 10 180	1								

DIAMOND DRILL CORE LOG

HOLE 85-11 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 10		<u>laG GRAPHITIC GNEISS (cont'd)</u> pale-med. grey to grey-green interbanded graphitic gneiss	6125	20° 35° 20°	5-10	1-3	5	1.59	
190	1		190	75°	10-15				
			6126					2.10	
		197' pegmatite		+	5-10				
200		200' 2" pyrite-qtz-carbonate vein	200		10-15				
Box 11			6127	15°	15			1.97	
					10-15				
	5	dark grey to black biotite-garnet chloritic gneiss			<5				
				10°	<5 15				
210			210		10-15				
	1		6128					1.81	
220			220						
Box 12		P 221'-225' pink and green feldspar, qtz, biotite chlorite pegmatite		+ + +					
		gradational contact			Tr	1-3	Tr		
	14	<u>226'-248' laB BARREN GNEISS</u>		80°					
230		pink and grey interbanded biotite, quartzo-feldspathic gneiss; potassic alteration evident along some vertical fractures. -minor dark blue green amphibole concentrations		+ + 20° + 20°					
240									
Box 13		229.5'-231.5' pink pegmatite							
	14								
		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-12 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE B
STARTED JULY 10, 1985 FINISHED JULY 11, 1985 TOTAL DEPTH 168'
LOCATION 30+00 N 19+07E COLLAR ELEVN 954.7 BEDROCK ELEVN 949.7'
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		CASING 5'							
10 Box 1		5'-79' 1aG GRAPHITIC GNEISS -grey green interbanded biotite-qtz-feldspathic gneiss -grey to olive green bands with interbanded white and pink quartz-feldspathic migmatitic bands	5 7313 15		5	1-3	5	1.110	
20	1	-chlorite and epidote alteration common -olive-green bands appear to be epidotized amphibole -pyrite and pyrrhotite throughout. -minor pink 1-2mm diam. garnets	7314 25	25° 50° 80° 45°				1.071	
30 Box 2		-fractured core 5'-16' 12' - 8" of pegmatite predominantly olive green laminated	7315 35	45° 30°	10 5			1.263	
40	1		6101 44	30°	10			2.31	
50		grey interbanded biotite gneiss	6102 54	80°	5-10			1.44	
Box 3 60	1	grey-green banded gneiss commonly with pink feldspathic bands - green bands appear to be talcose.	6103 64		5	1-3	5	1.40	
70 Box 4	1	76' - 6" biotite rich band. Gradational Contact	6104 78		15 5-10 15 5-10 5			2.12	
80	10	1aB BARREN GNEISS							

DIAMOND DRILL CORE LOG

HOLE 85-12 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
	10	79-83' IaB BARREN GNEISS							
	T	**83'-108' IaB$_T$ BARREN TRANSITIONAL GNEISS**		70°					
		muscovite - biotite rich quartzo-feldspathic gneiss - dark grey & white interbanded biotite quartzo feldspathic gneiss - coarse grained.							
90 Box 5									
100		103' biotite garnet band 8"		80°					
	T	Gradational Contact							
110 Box 6	10	**108'-168' IaB BARREN GNEISS**							
		- pink and grey interbanded biotite quartzo-feldspathic gneiss with 1-2cm pink K-spar and quartz bands up to 20-30% of core - also pink migmatitic dikes and sills		70°					
120									
Box 7 130									
	10	134' biotite garnet band							
	14	139' biotite garnet band.		65°					
140 Box 8		143-144' pink biotite quartz feldspar pegmatite		+					
150				40°					
				60°					
160 Box 9				25°					
	10	166' hornblende - biotite							
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-13 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE B

STARTED JULY 17, 1985 FINISHED JULY 17, 1985 TOTAL DEPTH 118'

LOCATION 29+01 N 18+75 E COLLAR ELEVN 964.6 BEDROCK ELEVN 961.6'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT. % FLAKE
		CASING BEDROCK							
10 Box 1	1	3'-97' 1aG GRAPHITIC GNEISS pale greenish-grey interbanded graphitic biotite quartzo-feldspathic gneiss - interbands of feldspar and quartz make up 10% of rock.	3 7319	75° 80°	5	1-3	5	1.469	
20		- olive green bands may contain altered amphiboles. - muscovite also intermittently present.	14 7316		5-10 <5			1.452	
		25' - white biotite qtz.feld. pegmatite	25	+					
Box 2 30		29' - 2" pegmatite 32' - 15-20% biotite over 1.5' 33' - 5" pegmatite, contact 35°	26 7317	+ + + + 75°	5			0.996	
40 Box 3	1		38 7318	40° 75° 40°				1.050	
50			48 6129	75° 68°	5-10			2.08	
60		60' - 6" pegmatite sill.	58 6130	+ 45°	5 5-10			1.01	
Box 4		67-69.5' pink and green biotite quartz feldspar pegmatite with py & pyrrh.	67	+ +	5				
70 Box5 80	1		70 6131 80	70° 70°	5-10		5+	1.87	

DIAMOND DRILL CORE LOG

HOLE 85-13 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
Box 5 90	1 1	1aG GRAPHITIC GNEISS (cont'd) pale grey-green interbanded biotite quartzo feldspathic gneiss with olive green altered amphibole bands 81' broken core, fault attitude unknown 94-96.5' pegmatite gradational contact.	6132	80 70° 94	5-10 <5	1-3	5	2.68	
100 Box 6	T T	97'-109' 1aB$_T$ TRANSITIONAL GNEISS biotite-muscovite-garnet gneiss 97'-99' biotite rich 20-25%		70° 50°					
110 118	10	1aB BARREN GNEISS							
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-14 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED JULY 18, 1985 FINISHED JULY 19, 1985 TOTAL DEPTH 198'

LOCATION 28+00N 19+76E COLLAR ELEVN 958.0 BEDROCK ELEVN 945.0

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
10		BEDROCK							
20 Box 1	1	13'-176' 1aG GRAPHITIC GNEISS -pale grey green to olive green graphitic quartzo-feldspathic gneiss -grey olive green amphiboles and biotite -1-2 cm feldspar and quartz layers interbanded with mica and amphibole rich bands.	13 7320 25	40° 40° 80° 70° 50°	5 5-10	1-3	<5	1.785	
30		23'-24' -biotite and garnet rich band.	7321 35	35°	5 <5			1.167	
40 Box 2	1		7322 45	40° 40°	5 <5 5-10			1.575	
50		pale grey-green and white interbanded biotite amphibole quartzo-feldspathic gneiss	7323 55	85°	5 5-10 5			1.099	
Box 3 60		55' - pink garnets 61' - biotite quartz pegmatite 4" - 60° contact	7324 65	85°				1.271	
70		67' - 4" pegmatite - 55° contact 70' - 4" pegmatite.	7325 75	55°	5-10 5			1.901	
Box 4 80	1	-interbanded with coarse biotite-quartz feldspar gneiss sections with a mottled texture.	6133		5-10			3.63	

DIAMOND DRILL CORE LOG

HOLE 85-14 PAGE 2 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	1	1aG GRAPHITIC GNEISS (cont'd) - grey-green banded biotite amphibole quartzo-feldspathic graphitic gneiss - coarse and finer grained varieties alternate over 2' intervals, quartz-feldspar segregations 1-2 cm thick are common throughout.	6133	55° 87	5-10	1-3	5	3.63	
90 Box 5 100	1	83'-85.5' beige and greenish fine grained spotted variety of gneiss with 1mm graphite flakes.	6134	+ 70° + + 101	5 <5 5	1 1-2		1.14	
110 Box 6	2	med. to dark grey finely banded biotite quartzo-feldspathic gneiss. 104' 10% pyrite over 3".	6135	65° 50° 75° 55° 80° 60° 118	5-10			3.06	
120		121' garnets.	6136	75° 128	5 5-10			2.01	
130 Box 7 140	2 2	- med. grey-green banded biotite-amphibole quartzo-feldspathic gneiss -1-2 cm qtz-feldspar interbands up to 20% of rock. - minor 1-2 mm diam. pink garnets.	6137	80° 143	5			2.11	
150		grey finely banded biotite quartzo-feldspathic gneiss	6138	65° + 10° 153	5-10 5 5-10			2.95	
Box 8 160	3	152' calcite-qtz-py vein (1 cm) at 80° to C/A 154' garnets.	6139	30° 162	5 5-10			2.93	
170		159' 2" qtz-calcite-py vein at 80° to C/A 161' .5 cm qtz-calcite-py vein 30° to C/A	6140	20° 30° 60° 172				3.00	
Box 9	1	grey-green banded biotite-quartzo feldspathic gneiss		30°	5				
180	T	176'-188' 1aB$_T$ TRANSITIONAL GNEISS		70°					

DIAMOND DRILL CORE LOG

HOLE 85-14 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
186 Box 9 Box 10	T	1aB_T TRANSITIONAL GNEISS (cont'd.)		5° 25° 80° 50°					
190 198	P	188'-198' P PEGMATITE pink and white biotite-quartz-feldspar pegmatite 190.5'-191.5' } Barren Gneiss (1aB) 194.5'-195.5' }		+ + + + + + + +					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-15 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE

STARTED JULY 19, 1985 FINISHED JULY 19, 1985 TOTAL DEPTH 168'

LOCATION 27+00 N 19+50 E COLLAR ELEVN 957' BEDROCK ELEVN ________

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
		CASING 3' BEDROCK							
	1	3'-148' IaG GRAPHITIC GNEISS pale grey banded biotite-amphibole quartzo-feldspathic gneiss - 20% qtz-feld. bands.	3		5	1-3	5		
10 Box 1	2	- med. grey-green banded biotite-amphibole quartzo-feldspathic gneiss - 10-15% bands of 1-2cm thick quartz+feldspar 8' - pegmatite 11' - pegmatite	7326	+ 80° 25°				1.074	
20			16 7327	80°				1.456	
30 Box 2	5	- dark grey and white banded variety of graphitic biotite-garnet-quartzo-feldspathic gneiss biotite 15% garnet 5% quartz 10% feldspar 60-70% amphibole 5% - quartz feldspar segregations 1-2cm thick. 37'-38' 4" bands of pegmatite 39'-40' 1' pegmatite	31 7328	75° + + 50° 80°	<5 5 <5 5			1.138	
40 Box 3 50	3	- med. to dark grey-green thinly banded chloritic amphibole biotite quartzo-feldspathic graphitic gneiss	46 6141	40°	10	1-2	>5	3.06	
60 Box 4	1	- pale grey-green, coarse banded, chloritic biotite amphibole quartzo-feldspathic graphitic gneiss - pale pink and green qtzo-feldspathic bands 1-2 cm wide make up 10-15% of rock.	56 6142	75° 70°	5	1-3	5	1.24	
70 80 Box 5	1	71' - coarse pyrite and graphite.	71 6143	+ +	5-10 5			2.34	

DIAMOND DRILL CORE LOG

HOLE 85-15 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 5	1	1aG GRAPHITIC GNEISS (cont'd) pale grey-green, coarse, banded, chloritic biot-amph-qtz-feldspathic gneiss	6143	45°	<5	1-3	>5	2.34	
			84	80° 80°	15				
90			6144					1.71	
	2	med. grey finely banded variety of above subunit. -fewer qtz-feld. segregations	94		5-10	1-2	5		
100			6145	30° 30°	5	1-3			
Box 6		108.5'-109' broken ground.	104						
110		115'- quartz-pyrite vein 115'-117' - chloritic gouge.	6146	40° 70°				2.03	
		118' - biotite garnet concentration 120' - 5cm pyrite-barite? vein	114	+	5-10				
120			6147	60°	10			3.45	
Box 7		118'-123' coarse interbands of quartz and feldspar 123' - biotite garnet concentration		60°					
		123'-133' med grey to grey-green fine grained chloritic biotite-quartzo-feldspathic gneiss	126	5°	15				
130	2	133'-136' coarser banded variety of gneiss	6148	75° 20°	10	1-2		2.88	
140	3	- dark grey-green finely banded biotite-amphibole quartzo-feldspathic gneiss 141.5'-142.5' pyritic biot-feld-qtz pegmatite	137	+	10-15				
Box 8	1	- light grey finely banded biotite gneiss gradational contact.	6149	70°	10-15	1-2	5	3.54	
			148						
150	T	148'-164.5' 1aB$_T$ TRANSITIONAL GNEISS dark grey and white banded barren biotite garnet, quartzo-feldspathic gneiss, muscovite		50°					
		155'-157' - pink biotite feldspar quartz pegmatite 30° upper contact 75° lower contact		+ + 30° +					
160 Box 9	T	biotite musc. garnet qtz feld.		+					
	P	164.5'-167' PEGMATITE DYKE/SILL		+ + +					
168	T	1aBT TRASITIONAL GNEISS (cont'd)							
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-16 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED JULY 20, 1985 FINISHED JULY 23, 1985 TOTAL DEPTH 150

LOCATION 26+01 N 19+50 E COLLAR ELEVN 949.55 BEDROCK ELEVN 946.55'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C (G)	RESULTS WT. % FLAKE
		CASING 3'							
		BEDROCK							
	1	3'-138' 1aG GRAPHITIC GNEISS	3		<5	1-2	<5		
		pale grey and grey-green banded biotite amphibole quartzo-feldspathic graphitic gneiss		45° 10° 60° 80° 20°					
10 Box 1			7329					1.141	
20			18						
	1	26'-27' garnet biotite gneiss	7330					1.175	
	3	grey-green - finely banded variety of gneiss							
30 Box 2	5?	dark grey and white coarsely banded biotite, qtzo-feldspathic gneiss with minor garnet and muscovite	33		5				
40			7331	60° 35°				0.983	
	2	med. dark grey-green graphitic biotite amphibole qtzo-feld. gneiss - thinly banded - melanocratic		50°	5-10	1-3	5		
			47						
50 Box 3	1	pale grey-green banded, chloritic biotite amphibole qtzo-feldspathic gneiss - qtz-feldspar segregations up to 10% by volume. - higher graphitic concentrations encountered (5-10%) intermittently over short intervals (<1ft)	7332	+ 80° + + +	5			1.377	
60			60	10°					
Box 4		68' qtz-calcite vein	7333	45° 15°				1.574	
70	1		71	15°					
	2	med grey banded biotite quartzo-feldspathic gneiss	6150	65°	5-10			1.96	
80				81					

DIAMOND DRILL CORE LOG

HOLE 85-16 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 5 90	2	laG GRAPHITIC GNEISS (cont'd.) - med. grey banded biotite quartzo-feldspathic gneiss - cut by steep hairline potassium altered fractures	81 6151 91	45°	5-10 5 5-10	1-2	5		
		95.5'-97' pink biotite quartz feldspar pegmatite dyke	6152 101	+ + +	10	1-2	5	1.48	
100	2			60°					
Box 6 110	3	- dark grey-green thinly banded biotite quartzo-feldspathic gneiss 108' pyrite-quartz-carbonate vein	6153 111	85°	10-15			3.96	
	2	- med grey to grey-green banded biotite-amphibole-quartzo-feldspathic gneiss - quartz & feldspar segregations 1-2cm and 10-15% of rock 118' - broken ground	6154	75° 25°	5-10 5 10			2.02	
120	3	- med grey green thinly laminated biotite quartzo-feldspathic gneiss	121		5		<5		
Box 7	5	gradational - dark grey banded biotite-garnet-quartzo-feldspathic gneiss - white quartz-feldspar segregations 1-2 cm, 10-15% of rock.		75°					
130	2	gradational - med. grey-green banded biotite amphibole quartzo-feldspathic gneiss		70°	5 TR	1-2	TR		
140	T	gradational 138'-142' laB$_T$ TRANSITIONAL GNEISS - dark grey and white banded biotite-muscovite-garnet-qtz-feldspar-gneiss - very siliceous.							
Box 8 150	12	142'-150' laB BARREN GNEISS - beige and dark grey banded biotite-quartzo-feldspathic gneiss		+ + 70°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-17 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED JULY 24, 1985 FINISHED JULY 24, 1985 TOTAL DEPTH 158'

LOCATION 25+00N 19+49E COLLAR ELEVN 1050 BEDROCK ELEVN ______

ANGLE -90° AZIMUTH – LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		CASING 2' BEDROCK							
10 Box 1	1	3'-109' 1aG GRAPHITIC GNEISS - pale grey and grey-green banded biotite-amphibole-quartz-feldspathic graphitic, pyritic gneiss - qtz-feldspar segregations 1-2 cm thick	3 7334 15	80° 40°	5	1-2 1-3	<5	0.923	
20		~15' - pink and green biotite-qtz-feld pegmatite 20" 26' - 2" of fractured ground.	7335 27	75° 20° 45 25°				1.025	
30 Box 2	1 3	med.-dark grey thinly banded variety of biotite-quartz-feldspar gneiss	6155 36		5-10 10		5	3.06	
	P	pink and green biotite quartz feldspar pegmatite (16")	N/S						
40	2	grey and green banded biotite-amphibole-quartz-feldspathic gneiss with pink and grey quartz-feldspathic bands.	37 6156 49		5-10 10	1-3	5	1.13	
Box 3 50			6157 63	40°	5-10 10 5-10 5			2.24	
60	2	P 63'-65' pink and green biotite-quartz-feldspar pegmatite	N/S						
Box 4 70			65 6158 75	40° 80° 10° 60°	5 5-10 5	1-3	5	0.78	
Box5 80	2 3		6159		5-10		>5	2.52	

DIAMOND DRILL CORE LOG

HOLE 85-17 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
80	3	pale grey thinly banded variety of biotite gneiss 85'-86' pale green qtz-feld. pegmatite	6159	85 25°	5-10	1-3	>5	2.52	
			N/S	86					
Box 5 90	2	med grey and grey-green banded variety of biotite-amphibole-quartzo-feldspathic gneiss 95'- 6" pegmatite	6160	75° 50° 75° 25° 99	5-10	1-3	>5	2.97	
100 Box 6	2	98'-100' broken ground upper contact 60°	6161	75° 45° 15° 109	10 5-10		5-10 5	3.19	
110	P	109'-115' P PEGMATITE -pale green and pink biotite-quartz-feldspar pegmatite contact ≈80°	N/S	115					
120 Box 7	2	115'-146' laG GRAPHITIC GNEISS med-grey and grey-green banded biotite-amphibole-quartzo-feldspathic gneiss 120.5'-122.5' pink and green biotite qtz-feld. pegmatite sill	6162	75° 60° 125	10 5 5-10	1-3 1-3	5 5	1.08	
130	2		6163	75° 40° 135	5 5-10 5 5-10			2.12	
140 Box 8	3 1	dark grey thinly banded biotite quartz-feldspar gneiss -minor garnet pale grey-green banded biotite-amphibole-quartzo-feldspathic gneiss	6164	40° 35° 146	5 5-10 5 5-10 5			1.56	
150	T	146'-151' laBT TRANSITIONAL GNEISS -biotite-muscovite-quartzo-feldspathic gneiss, barren -melanocratic biot.-musc. gneiss, less musc. than usual. gradational		55° 55° 75°					
Box 9 158	11	151'-158' laB BARREN GNEISS -barren biotite-garnet-quartzo-feldspathic gneiss 153'-154' pale green biot-qtz-feld. pegmatite.		20° 15° 15° 25° 80°					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-18 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED JULY 25/85 FINISHED JULY 26/85 TOTAL DEPTH 225'

LOCATION 26+00N 16+00E COLLAR ELEVN 955.74 BEDROCK ELEVN ____

ANGLE -90° AZIMUTH – LOGGED BY U. SCHMIDT

SCALE 1:1250

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY+PYRR.	% C (G)	WT.% FLAKE
		CASING 5' BEDROCK	3 7363					1.397	
10 Box 1	1	5'-120' laG GRAPHITIC GNEISS -pale grey-green banded biotite-amphibole-quartzo-feldspathic gneiss, 1 to 2cm qtz-feldspar segregations	5 7271 12		5	1-3	5	1.585	
20			6171 23	75°	5-10 10			1.89	
30 Box 2	1	gradational	6172 33	75°				1.73	
40	2	med. grey banded qtz-feldspathic gneiss	6173 43					4.05	
50 Box 3	2	gradational	6174 53					2.41	
60	1	-pale grey-green banded biotite-amphibole-quartzo-feldspathic gneiss, 1-2 cm bands of qtz-feld.	6175 63	50° 45°	5-10 10 5-10			1.85	
Box 4 70			6176 73	55° 60° 45° 25°	10			1.34	
Box 5 80	1		6177	70°				0.93	

82

DIAMOND DRILL CORE LOG

HOLE 85-18 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
		IaG GRAPHITIC GNEISS (Cont'd)	82		10	1-2	5		
	1	pale grey-green banded biotite-amphibole qtz-feld. gneiss 82.5'-84.5' pale green & white pegmatite	6178	+ + 70°	5-10 QUARTZ	1-3	5	1.12	
90	2	med. to dark grey banded biotite quartzo-feldspathic gneiss	91 6179	60° + 80° 40°	15-20 15 10-15	1-3	5		
100	M	103'-106' pale pink and green migmatite with inclusions of IaG	103 N/S 106	M					
110		114'-115' pink and green pegmatite	6180	+	10-15 10-15	1-3 1-3	5 5	2.52	
	2								
120	T	120'-123' IaB_T TRANSITIONAL GNEISS med. grey banded biot.-musc.-garnet gneiss	120		<5				
	2	123'-211.5' IaG GRAPHITIC GNEISS med. grey banded biotite qtzo-feldspathic gneiss	6181	15° 15°	15 TR 15			2.88	
130	3	- dark grey green finely banded biotite amphibole gneiss - melanocratic	130	50°	10-15				
	2	- med. grey green banded biotite amphibole quartzo-feldspathic gneiss	6182	35°	<5 10-15 5 5-10	1-2	<5	1.81	
140	L	143' med green lamprophyre dyke	143	L					
150	2	153-'154.5' dark grey melanocratic biot.-garnet-qtz-fdd. gneiss	6183	65° 85° + 50°	5 5-10 5	1-3	5	2.15	
160		159' broken ground 166' 4" quartz 168' 7" quartz	158 6184	45° 60° 30° + 35° +	10 >5			2.93	
170		169' biotite-garnet rich	168 6185	5° 0° 40°	10 5-10			2.39	
180	2		180						

DIAMOND DRILL CORE LOG

HOLE 85-18 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180		1aG GRAPHITIC GNEISS (Cont'd)	180	40°	5	1-3	<5		
Box 10	1	pale grey-green banded biotite-amphibole-quartzo-feldspathic gneiss 181' broken ground	6186					1.67	
	2	med. grey and beige banded biotite-quartzo-feldspathic gneiss - pegmatitic sections		+ +	<5				
190			191		10-15				
	1	- pale grey-green banded biotite amphibole quartzo-feldspathic gneiss		20° 75°	<5				
			6187		10				
200			201		5				
Box 11		206' garnet and biotite rich	6188						
210	1		211	15°					
		211.5'-225' 1aB BARREN GNEISS							
Box 12	11	dark grey and white banded, leucocratic biotite garnet quartzo-feldspathic gneiss		75° +					
220		218' pegmatite							
225		224' waterloss, broken ground.		~~~					
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-19 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED JULY 31/85 FINISHED AUG 1, 1985 TOTAL DEPTH 248'

LOCATION 24+61 N 16+00E COLLAR ELEVN 912.35 BEDROCK ELEVN 908.35'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
		CASING 4'							
10 Box 1	12	4'-14' laB BARREN GNEISS dark grey and white banded biotite-garnet-qtzo-feldspathic gneiss ; melanocratic gradational		70°					
	T	14'-17' laB$_T$ TRANSITIONAL GNEISS - biotite-muscovite-qtzo-feldspathic gneiss							
20 30 Box 2	10 11	17'-36' laB BARREN GNEISS - leucocratic biotite-quartzo-feldspathic gneiss - minor pink garnet. - melanocratic biotite gneiss		80° + 15° 0° 75° 25° 15° 36					
40	1	36'-123' laG GRAPHITIC GNEISS -pale grey-green banded biotite-amphibole-quartzo-feldspathic gneiss	6189	10° 75° 46	<5 5	1-2 1-3	<5	1.67	
			N/S	+ 47					
50 Box 3	1	46'-47.5' biotite-quartz-feldspar pegmatite	6190	30° 25° 20° 65° 60	5 5-10	1-3	<5 5	0.88	
60 Box 4		69.5' pink and green pegmatite 9", + garnets	6191	25° 80° 70° 70	10 5-10				
70 80	1 2	med. grey banded biotite quartzo-feldspathic gneiss -less amphibole than above variety.	6192	+ 80	<5 10			1.70	

DIAMOND DRILL CORE LOG

HOLE 85-19 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 5	1	laG GRAPHITIC GNEISS (cont'd) light grey banded biotite-quartz-feldspar gneiss - minor amphibole and trace garnets.	6193 91	80°	10 5-10	1-3	5		
90		@ 95' vertical joints 0°-5°	6194 101	0-5° 15°	10			1.79	
100 Box 6	1	- weak potassic alteration along fractures	6195 111	35° 20° 20° 10°	10-15 15-20 10-15				
110			6196 123	75° 90°				2.70	
120	1	Gradational							
Box 7	11	123'-125.5' laB BARREN GNEISS med. grey banded, biotite, pink garnet-sillimanite?-qtz-feldspathic gneiss							
	1	125.5'-130' laG GRAPHITIC GNEISS light grey banded biotite-quartzo-feldspathic gneiss, minor garnet.	125.5 7272 130	80°	5-10	1-3	5	2.779	
130	15	130'-135' laB BARREN GNEISS med. grey banded biotite garnet-sillimanite?-qtz-feldspathic gneiss							
	1	135-140' laG GRAPHITIC GNEISS light grey banded biotite, qtz-feld. gneiss	135 7273 140		10	1-3	5	2.532	
140 Box 8	15	140'-150' laB BARREN GNEISS med-dark grey banded biotite-pink garnet-sillimanite?-quartzo-feldspathic gneiss		80° 20° 50°					
150	2	150'-157' laG GRAPHITIC GNEISS med. grey-green banded biotite-amphibole-quartzo-feldspathic gneiss	150 7274 165		<5 5	1-2	<5	0.7112	
160 Box 9	T	157'-170' laB$_T$ TRANSITIONAL GNEISS med. grey banded biotite-garnet-sillimanite-quartzo-feldspathic gneiss - also variable muscovite content - biotite-garnet-muscovite-qtz-feld. gneiss			TR	1			
170	3	170'-175.5' laG GRAPHITIC GNEISS - med. grey-green finely banded biotite-amphibole-qtz-feldspathic gneiss.	7275 175.5	45° 55° 70°	10 5-10	1-3		1.973	
Box 10 180	T	175.5'-183.5' laB$_T$ TRANSITIONAL GNEISS - med. grey banded biotite-garnet-sillimanite-qtz-feldspathic gneiss	7366	75°			0.1469		

DIAMOND DRILL CORE LOG

HOLE 85-19 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
180	T	lаBT TRANSITIONAL GNEISS (cont'd) med. grey, banded biot-garnet-sillimanite-qtz-feld. gneiss	7366	15°				0.149	
Box 10 190	2	183.5'-248' laG GRAPHITIC GNEISS -med. grey-green, banded biotite-amphibole-qtzo-feldsp. gneiss -minor garnet.	183 7276 198		5-10	1-3	5	3.384	
200 Box 11	5	dark grey banded biotite-quartz-feldspar gneiss with subordinate amphibole -minor garnet, minor sillimanite?	7277 209	70°	5	1-2		2.983	
					5-10				
210		≈ 203' 5" biotite-garnet-amphibole rich band. 211.5'-213' greenish biotite-muscovite-qtz-feld-migmatitic pegmatite	7278 219	20°	5			2.109	
220 Box 12	2	-med. grey-green banded biotite-amphibole-qtzo-feldsp. gneiss	7279 229	10°	10			3.463	
					10-15				
230 Box 13 240	3	-dark grey finely banded biotite gneiss	7280	75°	10				
	2	med. grey-green banded biotite-amphibole gneiss -minor garnet. core ends ~ 247'	247						
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-20 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED AUG. 2, 1985 FINISHED AUG. 3, 1985 TOTAL DEPTH 268'

LOCATION 25+05 N 15+05 E COLLAR ELEVN 939.9 BEDROCK ELEVN 934.9'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
		CASING 5'							
10 Box 1 20 Box 2 30 40	1	5'-43' 1aG GRAPHITIC GNEISS - pale grey-green banded biotite-amphibole-qtz-feldspathic graphitic gneiss 15' broken core ~19.5' 6" migmatitic pegmatite ~26' 2 and 4 cm lamprophyre dykes at 30° to C/A ~43' biotite concentration with PY, pyrrhotite & chalcopyrite.	6197 6198	5 + 10° 30° 35° 21 + 10° 30° + 40 +	5 <5 10 <5 5-10 5 5-10 <5 5	1-2 1-3 1-2 1-3 1-2 1-3	<5 5	1.31	
	B	43'-47' B AMPHIBOLITE "SKARN" - dark green biotite-garnet-amphibolite with PY, PYRR; coarse mottled texture	6199	45°	Tr		5-10		
50 Box 3 60 Box 4 70 80	1	47'-120' 1aG GRAPHITIC GNEISS ---- pale grey and green banded biotite-amphibole-qtz-feldsp. graphitic gneiss --1 to 2 cm qtz-fs segregations up to 10% of rock. 66' 3" pegmatite 70' 1 ft thick dark green lamprophyre dyke, fractured core, contacts 90° to C/A	6199 6200 6201	80° 56 20° 30° 40° 30° 40° 71 60° 65° + 80	5 <5 10 10-15 10 5-10 5 5-10	1-2 1-3 1-3	<5 5 5	0.71	

DIAMOND DRILL CORE LOG

HOLE 85-20 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
80 Box 5 90	1	IaG GRAPHITIC GNEISS (cont'd) -pale grey and green biotite-amphibole-qtz-feldsp-gneiss with 1-2 cm wide qtz-feldspathic segregations making up 10% of core -minor pink garnets	6202	80 20° 20° 90	5 5-10	1-2	<5	1.39	
100	1	88.5' - talc chlorite along fracture/fault.	6203	104	10 10-15 5				
Box 6 110			6204	75° 114	5-10 10			1.97	
	1		6205	65°	5-10				
120		120'-145' IaB$_T$ TRANSITIONAL GNEISS Med. to dark grey banded biotite-muscovite-garnet-quartzo-feldspathic gneiss		60° 125	Tr <5	1-2	5		
Box 7 130	T	Melanocratic biotite-garnet-muscovite gneiss -pink garnet.	7336	75° 135	Tr			1.45	
140	T T	leucocratic biotite-garnet-muscovite gneiss melanocratic biotite-garnet-muscovite gneiss	7337	75° 65° 15° 145				0.1865	
Box 8 150	2	145'-153' IaG GRAPHITIC GNEISS med. grey and green banded biotite-amphibole-quartzo-feldspathic gneiss	7338	20° 20° 153	5 10	1-3	<5	2.556	
	T	153'-155' IaB$_T$ TRANSITIONAL GNEISS biotite-musc-qtz-fs-gneiss -barren -melanocratic							
	Q	155'-159' Q QUARTZ VEIN fractured qtz lower contact 50°							
160 Box 9 170	12	159'-171' IaB BARREN GNEISS melanocratic biotite-garnet-muscovite-qtz-feldspathic gneiss - bleached, vuggy, silicified fault zone ↑ attitude unknown - 30% biotite	7369	10° 35° 60° 45° 170 40°	Tr			0.111	
Box 10 180	2	171'-250' IaG GRAPHITIC GNEISS med grey-green banded biotite-amphibole-qtz-fs gneiss	6291	50° 25° 30° 50° 180	5-10 10	1-3		3.63	

DIAMOND DRILL CORE LOG

HOLE 85-20 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 10 190	2	IaG GRAPHITIC GNEISS (Cont'd.) - med. grey-green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss with minor garnet.	6292	180 75° 35° 80° 190	10 5-10	1-3	5	3.11	
		muscovite bearing variety of IaG - med grey-green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss	6293	10° 200	5 5-10 5 5-10 10			2.70	
200 Box 11 210	2		6294	210				3.33	
		214'-217' strike joints dark grey thinly banded biotite-quartzo-feldspathic graphitic gneiss	6295	20° 20° 80° 220		1-2		2.46	
220 Box 12	3	222' - broken core.	6296	90° 20° 230				3.00	
230		dark grey banded biotite-quartzo-feldspathic graphitic gneiss	6297	240	15	1-3		3.23	
240 Box 13 250	2		6298	250	20 15 5-10 10			2.62	
260 Box 14 ? 268	14	250'-268' IaB BARREN GNEISS grey and pink banded biotite-qtz-fs-gneiss also minor biotite-garnet gneiss - leucocratic and melanocratic varieties interbanded in 2-3' thick bands. 250'-251.5' pegmatite and quartz							
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-21 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED AUG.3, 1985 FINISHED AUG. 4, 1985 TOTAL DEPTH 197'

LOCATION 25+50 N 14+00E COLLAR ELEVN 950.42 BEDROCK ELEVN 947.42

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		CASING BEDROCK	3						
10 Box 1	1	3'-48' 1aG GRAPHITIC GNEISS -pale green and grey banded biotite-amphibole-quartzo-feldspathic gneiss with beige and white qtz-feldspar bands up to 10% of rock.	6219 16	25° 25° 20° 50° 30°	<5	1-2	<5	1.93	
20	1		6220 26	60° 85°	5			0.91	
30 Box 2			6221 36	60° 45°	<5 10 5			1.98	
40 Box 3 50	1 L	40' 2" pegmatite 50° to C/A 45' garnet-amphibole concentration 48'-54' L LAMPROPHYRE DYKE upper contact 15° -fractured upper and lower contacts lower contact 25°	6222 52	25° 55° 80° 75° 15° 75°	10 5-10 <5 5			1.19	
60	1	54'-179.5' 1aG GRAPHITIC GNEISS pale grey and green banded graphitic gneiss -biotite-amphibole-qtz-feld-gneiss 56' 9" Barren biotite gneiss 58'-59.5' Barren biotite garnet qtz-feld gneiss 63' garnet concentration	6223 65	10° 75°	5 <5 5 5	1-2 1-2 1-2	<5 <5 <5	1.37	
Box 4 70 80	1		6224		<5			0.67	

DIAMOND DRILL CORE LOG

HOLE 85-21 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
80 Box 5	1	IaG GRAPHITIC GNEISS (cont'd) -pale grey-green to olive green amphibole-biotite quartzo-feldspathic graphitic gneiss -intermittent minor pink garnet	6224	40° 70° 86	<5	1-2	<5	0.67	
90	2	med. to dark grey-green banded biotite-amph-qtz-feld. graphitic gneiss -intermittent minor garnet-biotite-amph-gneiss	6225	80° 60° 25° 99	10 5-10 <5			1.05	
100 Box 6 110		102' garnet biotite rich PY.	6226	68° 5° 25° 66° 113	5-10 10	1-4	5	2.05	
120 Box 7		120' broken core	6227	70° 40° 124	5-10 10			3.21	
130	2	124' garnet amphibole concentration over 5" ~126.5' fault gouge	6228	15° 60° 30° 60° 60° 135	5	1-3		2.96	
140 Box 8		~146' broken core	6229	55° 25° 50° 65° 20° 20° 146				3.71	
150		149.5'-151' biotite-muscovite gneiss 151'-~152' barren biotite gneiss 152'-155' minor interbands of IaB biotite gneiss 155'-156' biotite quartz-feldspar-pegmatite with inclusions of IaG.	6230	20° 65° 158	<5 5	1-2 1-2	<5 <5	0.41	
160 Box 9			6231	70° 169	10 5-10 10	1-2	5	2.36	
170 Box 10 180	2	175' garnet concentration	6232	178				1.95	

DIAMOND DRILL CORE LOG

HOLE 85-21 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	14	179.5'-184' laB BARREN GNEISS med. grey and pink banded biotite-quartzo-feldspathic gneiss		60°					
Box 10	1	184'-187' laG GRAPHITIC GNEISS -grey green banded gneiss			5	1-2	<5		
190	14	187'-197' laB BARREN GNEISS med. grey and pink banded biotite-quartzo-feldspathic-gneiss		65° 20°					
		196' fractured core							
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-22 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM CORE SIZE BQ ZONE A

STARTED AUG. 5, 1985 FINISHED AUG. 5, 1985 TOTAL DEPTH 158'

LOCATION 27+01 N 24+02 E COLLAR ELEVN 948.2 BEDROCK ELEVN 943.2'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
		CASING 5' BEDROCK							
10 Box 1	1	5'-31' IaG GRAPHITIC GNEISS -pale grey green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss with 1-2cm qtz-fs segregations making up to 10% of rock. 10' biotite concentration	5 7339 18		<5	1-2	Tr <5	1.151	
20	1		7340	28° 70° 28° 20°	5 <5	1-3		1.327	
30	2	grey and pale green banded biotite-amphibole-garnet graphitic gneiss.	31						
Box 2	13	31'-39' IaB BARREN GNEISS dark grey and white banded biotite garnet gneiss - leucocratic		80°					
40	3	39'-48' IaG GRAPHITIC GNEISS dark grey green, fine grained, banded biotite-amphibole graphitic gneiss - siliceous. ~45' pegmatite dyke 5cm 50° to C/A ~46' pegmatite dyke 5cm 35° to C/A	38 7341 48	+ +	5	1-2	<5	1.338	
50 Box 3 60	10	48'-63' IaB BARREN GNEISS - leucocratic & dark grey and beige banded biotite-garnet quartzo-feldspathic gneiss.		65 80°					
70 Box 4	2	63'-152' IaG GRAPHITIC GNEISS - med. grey-green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss; minor garnets. 66' garnet-biotite concentration	63 7342 78	75°	<5 5 5-10	1-2	<5	1.497	
80	2		7343		5				

DIAMOND DRILL CORE LOG

HOLE 85-22 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80 Box 4	2	1aG GRAPHITIC GNEISS (Cont'd) med. grey green banded biotite-amphibole-graphitic gneiss	7343 87		5 5-10	1-2	5	2.406	
90 Box 5			7344	+ 80°	5			1.756	
100	1	pale olive green biotite-amphibole-garnet graphitic gneiss -pale pink garnets	100		<5				
Box 6 110			7345 114					1.226	
	1	114' - 7cm pegmatite dyke at 35° to C/A		40° + 75°					
120	3	dark grey finely banded biotite-amphibole graphitic gneiss	7346	25° +				1.436	
Box 7		126.5'-128' migmatitic band with garnet.	126.5	+ +					
130	1	pale grey green banded biotite-amphibole-garnet graphitic gneiss	128 7347 140	85° +	<5	1-2	5		
140 Box 8 150	2	Med. to dark grey variably banded biotite-amphibole-quartzo-feldspathic graphitic gneiss.	7348 152	+ 40° 70° +	5-10 <5			1.27	
	T	152'-157' $1aB_T$ TRANSITIONAL GNEISS - biotite-muscovite-garnet gneiss		30° 50° + 40° +					
	1	157'-158' 1aG GRAPHITIC GNEISS			<5	1-2			
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-23 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE A

STARTED AUG. 6, 1985 FINISHED AUG. 6, 1985 TOTAL DEPTH 138

LOCATION 26+00N 23+97E COLLAR ELEVN 951.4 BEDROCK ELEVN 947.4'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
		CASING 4'	4						
10 Box 1	1	4'-33' laG GRAPHITIC GNEISS pale grey-green to olive green amphibole-biotite quartzo-feldspathic graphitic gneiss -leucocratic	6206 19	30° 75° 50°	5 5-10	1-3	<3	1.23	
20 30	1	21.5' 23.5' 25.5' } 6" garnet biotite rich band. - minor interbands of barren garnet-biotite gneiss	6207 33	+	<5	1-2	<5		
Box 2 40	10	33'-43' laB BARREN GNEISS - leucocratic beige biotite-garnet-quartzo-feldspathic gneiss, Red garnets - minor interbands of laG (eg. 39.5'-40.5')	43	30° 30°	10	1-2			
	3	43'-111' laG GRAPHITIC GNEISS dark grey banded biotite-amphibole-qtz-fs graphitic gneiss		25° 30°	5-10 5 <5	1-2			
50 Box 3	2	med. grey and green banded biotite-amphibole-graphitic gneiss	6208 56	25° 35° 70°	5	1-3		0.69	
60	2		6209 68	30° +	10		5		
70 Box 4			6210 78	60°	10-15 10			2.57	
80	2		6211	70°	5-10	1-2	<5		

DIAMOND DRILL CORE LOG

HOLE 85-23 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
BOX 4 80		IaG GRAPHITIC GNEISS (cont'd)		50°	5-10	1-2	5		
	3	dark grey finely banded biotite-amphibole-quartz-feldspar graphitic gneiss	6211						
			88		10				
90 Box 5	1	pale grey and green banded amphibole-biotite pale pink garnet-quartzo-feldspathic gneiss - calcareous, siliceous	6212	80° 50°	5			18.0	
100		~96.5' biotite-garnet concentration	101	+					
				80° 20° 50°	<5	1-3	<5		
		107-'109.5' pink biotite-quartz-feldspar pegmatite		+ +					
110	1				5	1-3			
Box 6	T	111'-122' IaB$_T$ TRANSITIONAL GNEISS melanocratic biotite-muscovite-quartzo-feldspathic augen gneiss		80° 20° 70°					
120									
	2	122'-124' IaG GRAPHITIC GNEISS - med. grey finely banded biotite gneiss			5	1	<5		
Box 7	10	124'-127' IaB BARREN GNEISS - leucocratic beige biotite-garnet-qtz-fs gneiss		20° 20°					
130	T	127'- IaB$_T$ TRANSITIONAL GNEISS - med grey biotite-garnet-muscovite-quartzo-feldspathic gneiss							
	10	leucocratic pink biotite qtz-fs. gneiss		75° 5°					
138		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-24 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE A

STARTED AUG. 8, 1985 FINISHED AUG. 8, 1985 TOTAL DEPTH 129'

LOCATION 24+98 N 23+58E COLLAR ELEVN 921.9 BEDROCK ELEVN 918.9'

ANGLE -90° AZIMUTH —— LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		CASING	3						
10 Box 1	1	3'-43' laG GRAPHITIC GNEISS pale grey-green banded amphibole-biotite-garnet-quartz-feldspar graphitic gneiss -very siliceous -pale pink garnets	6213		5	1-3	5	1.47	
20	1		17 6214				5+	0.91	
30 Box 2	2	med. grey and olive green banded amphibole-biotite-quartzo-feldspathic graphitic gneiss.		80°	10				
40	2	43' broken core	31 6215	30° 70° 50°	5-10			1.42	
	P	43'-45' P PEGMATITE pink & green mottled biot-qtz-fs pegmatite migmatitic	43	20°					
Box 3 50	10	45'-57' laB BARREN GNEISS beige leucocratic biotite-garnet-quartz-feldspar gneiss -red garnets 1-2 mm.		40° 20° 20°					
60 Box 4 70	2	57'-104' laG GRAPHITIC GNEISS med. olive green & grey banded biotite-amphibole-qtz-fs graphitic gneiss. -minor pink and red garnets (1mm diam.)	57 6216	+ + + 10°	5 5-10 10 5-10	1-2	5	1.70	
Box5 80	2		73 6217	+ 30°	5 5-10 10			3.32	

DIAMOND DRILL CORE LOG

HOLE 85-24 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
80	2	1aG GRAPHITIC GNEISS (cont'd.) med grey-green banded biotite-amphibole-quartzo-feldspathic graphitic gneiss 80'-81' broken core	6217	20° 65° 15° 45° 45°	5-10 10	1-3	5	3.32	
Box 5 90	2	med. grey and green banded amphibole biotite graphitic gneiss	89 6218	60° 50° 20° 30°	5-10 5 10 5			0.90	
100			104	35°					
Box 6	T	104'-106.5' 1aB$_T$ TRANSITIONAL GNEISS - melanocratic biotite-muscovite-garnet gneiss							
110	10	106.5'-126' 1aB BARREN GNEISS leucocratic beige and dark grey banded biotite-quartzo-feldspathic gneiss with minor garnet.		10° 30° 15°					
120 Box 7				15° 20° 10° 50° 20° 60°					
129	2	126'-129' 1aG GRAPHITIC GNEISS med. grey and green banded biotite-amphibole-qtz-fs graphitic gneiss		75°	5	1-3	5		
		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-25 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED AUG. 13, 1985 FINISHED AUG. 14, 1985 TOTAL DEPTH 208'
LOCATION 25+85 N 15+00 E COLLAR ELEVN 952.24' BEDROCK ELEVN 947.24
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C (G)	WT. % FLAKE
		CASING 5' BROKEN BEDROCK	6						
10 Box 1	1	5'-26' IaG GRAPHITIC GNEISS pale grey and grey-green banded amphibole-biotite-qtz-feldspathic graphitic gneiss with pink and grey bands of qtz and fs 1-2 cm thick	6245 16	80° 30° 10°	5 5-10	1-2 1-3	5	1.91	
20	1	white qtz-fs interbands increasing up to 10 cm thickness ~25'-26' disseminated pale pink garnet.	6246 26	20°	10 <5 5 <5		pyrr>py	0.90	
	13	26'-30' IaB BARREN GNEISS dark green amphibole-biotite-garnet-pyrrhotite rich gneiss, minor disseminated cpy (meta-basic dyke ??) ≈ 0.4% Cu					15 minor cpy		
30 Box 2	2	30'-91' IaG GRAPHITIC GNEISS med. grey and grey-green variety of graphitic gneiss with white qtz-fs migmatitic bands up to 5 cm.	30 6247 40	85°	5	1-3	<5	1.32	
40		49' pink pegmatite 2cm, 50° to C/A	6248 50	+ + + +	5-10 5 10			2.21	
50 Box 3	2		6249		5 10			1.67	
60	1	pale olive green banded variety of graphitic gneiss with interbands of 1cm grey qtz-fs.	60		5				
70 Box 4	2	med. grey and grey-green banded variety of IaG biotite-amphibole-qtz-fs graphitic gneiss with minor garnet. 63' - qtz pegmatite	6250 70	35° 20° 40°	10		5	1.79	
80	2	~70'-72' broken ground. ~77.5' 2" pegmatite dyke at 70° to C/A	6251 80	80° 40°	5-10 5 5-10 10 5			1.64	

DIAMOND DRILL CORE LOG

HOLE 85-25 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80 Box 5 90	2	laG GRAPHITIC GNEISS (continued) med grey and grey green banded biotite-amphibole-qtz-fs-graphitic gneiss with minor garnet.	6252 91		8 10 10-15 10 5	1-3	5	2.00	
	15	91'-100.5' laB BARREN GNEISS melanocratic biotite-garnet-sillimanite-qtz-fs gneiss	101.5	40° 75°					
100	1	100.5'-105.5' laG GRAPHITIC GNEISS pale grey-green banded biotite-amphibole graphitic gneiss gradational	6253 105.5	80°	5-10 10 5-10	1-2	5	1.75	
Box 6	T	105.5'-110' laB$_T$ TRANSITIONAL GNEISS melanocratic biotite-muscovite-qtz-fs gneiss		35° 50°					
110	Q	110'-114' Q QUARTZ VEIN parallel to gneissocity contact 50° to C/A - milky white qtz vein contact 40° to C/A		20°					
	11	114'-118.5' laB BARREN GNEISS med. grey biotite garnet gneiss 117'-118.5' unit laB$_T$	118.5	50° 75°					
120 Box 7	2	118.5'-183' laG GRAPHITIC GNEISS med. grey and grey green banded graphitic gneiss	6253 125	80° 60° 50°	5 10	1-2	5	1.75	
130	5	med. grey and grey green banded biotite-sillimanite?-garnet-qtz-fs graphitic, pyritic gneiss	6254 135	40° 65°	5 Tr		Tr	0.32	
140	5		6255 144	75° 35°	5 Tr			0.273	
Box 8 150	3	med grey finely banded siliceous biotite-amphibole-qtz-fs graphitic gneiss	6256 154	60°	10 10-15	1-3	5	2.94	
160 Box 9	2	med grey banded biotite-muscovite-qtz-feldspathic graphitic gneiss 162'-165' fractured core 165'-166' FAULT GOUGE	6257 164	45° 70°				2.92	
170	3	dark grey finely banded biotite-qtz-fs graphitic gneiss	6258 174	70°	10-15 10 10-15	1-3	5.	3.30	
Box 10 180			6259	40°				1.57	

DIAMOND DRILL CORE LOG

HOLE 85-25 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180	3	laG GRAPHITIC GNEISS (Cont'd) med grey thinly banded biotite-qtz-fs-graphitic gneiss	6259 183		10	1-2	<5	1.57	
		183'-208' laB BARREN GNEISS gradational							
Box 10	10	-leucocratic biotite-qtz-fs gneiss c.l. 5-10		70°					
190	13	·black biotite-qtz-fs gneiss c.l. 50							
	10	-leucocratic biotite gneiss							
200 Box 11	11	-melanocratic biotite-qtz-fs gneiss							
	14	-pink leucocratic barren biotite-qtz-fs gneiss							
208		END OF HOLE							

DIAMOND DRILL CORE LOG

HOLE 85-26 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED AUG. 14, 1985 FINISHED AUG. 15, 1985 TOTAL DEPTH 258'

LOCATION 25+50 N 14+92E COLLAR ELEVN 957.62' BEDROCK ELEVN 953.62'

ANGLE -90 AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		CASING 4'	4						
	5	4'-101' 1aG GRAPHITIC GNEISS - dark grey banded biotite graphitic gneiss		+++	<5	1-3	<5		
10 Box 1	2	- med grey and grey-green banded biotite-amphibole-graphitic gneiss 11' 8" pink pegmatite	6260 15	+	5 5-10			1.51	
20	1	- light grey and grey-green banded amphibole-biotite-garnet graphitic gneiss -pale pink 1mm garnets	6261		<5 5-10		5-10	2.00	
30 Box 2	1	31-32' white migmatitic pegmatite	30	++	<5 <5 5	1-3	<5 5	1.00	
40	2	med grey and green banded biotite-amphibole-graphitic gneiss	6262 45						
50 Box 3	2	53'-56' frequent white migmatitic bands up to 5" 58'-60' dark green lamprophyre dyke.	6263 58		<5 [illegible]		Tr	1.26	
60	1	pale grey- and grey-green banded amphibole-biotite-minor pale pink garnet, graphitic gneiss 64' 65'} dark green pyritic, amphibolitic bands.	60 6264 70	25°	10 5 10	1-3	5	1.97	
70 Box 4			6265	80° 10°	5-10 5 5-10			2.14	
80	1		80	80°	5				

DIAMOND DRILL CORE LOG

HOLE 85-26 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
Box 4 80	1	<u>laG GRAPHITIC GNEISS (cont'd)</u> pale grey and grey-green banded biotite-amphibole graphitic gneiss - minor garnet	80 6266 90	80° 45° 25° 75° 70°	5 5-10 10	1-3	5	1.95	
90 Box 5 100	1	100.5' 4" pink pegmatite	6267 101	55° 40° + 20° +	5 <5		Tr	1.68	
	L	<u>101'-105' L LAMPROPHYRE DYKE</u> - dark green lamprophyre dyke contacts 20° to C/A		20° 45°					
	1	<u>105'-126.5' laG GRAPHITIC GNEISS</u>		+	<5	1-3			
110 Box 6	1	pale grey and grey-green banded biotite-amphibole graphitic gneiss - minor pink garnets - minor potassic alteration and qtz-carbonate along fractures - siliceous variety of gneiss 106.5'-107.5' pink pegmatite 35° to C/A 110'-112' broken core	108 6268 120	26° 45° 55° 45°	5 10	1-3	5	2.09	
120 Box 7	2	med grey banded biotite graphitic gneiss with pink migmatitic feldspathic bands / ~123' 10" pink pegmatite 125' 6" lamprophyre dyke 35° to C/A	6269 130	55° + + 35°	5 <5 5-10 <5	1-3	<5 Tr	0.664	
130	T	<u>126.5'-138' laB_T TRANSITIONAL GNEISS</u> dark grey biotite-muscovite gneiss interbanded with 1-2 cm pink migmatitic bands - pyritic and graphitic equivalent of laB_T -pink potassic alteration along fractures. 132'-135' dark grey finely banded laG (unit 3) 135'-138' pink garnets becoming frequent in biot-musc gneiss	6270 140	65° 60°	Tr 5 Tr			0.39	
140	3	<u>138'-142' laG GRAPHITIC GNEISS</u> med grey thinly banded biotite-amph-graphitic gneiss		70°	5-10	1-2	5		
Box 8	T	<u>142'-148' laB_T TRANSITIONAL GNEISS</u> -med. grey biotite-muscovite-garnet gneiss -interbands of pink migmatitic feldspar & qtz. gradational	6271		Tr			0.364	
150	10	<u>148'-153' laB BARREN GNEISS</u> leucocratic biotite gneiss 151'-153' white pegmatite	153	+ +					
160	1	<u>153'-192' laG GRAPHITIC GNEISS</u> pale to med. grey biotite-amphibole graphitic gneiss - minor garnet, trace muscovite, sillimanite?	6272 163		10-15	1-3	5	3.17	
Box 9 170			6273 173	30° 45° 75°				3.75	
Box 10 180	1	garnet biotite gneiss	6274		10			2.46	

DIAMOND DRILL CORE LOG

HOLE 85-26 PAGE 3 OF 3

FOOTAGE	SUB UNIT	DESCRIPTION
180		laG GRAPHITIC GNEISS (Cont'd)
Box 10	1	pale to med grey banded biotite-amphibole graphitic gneiss with intermittent muscovite and garnet.
190		184'-185' biotite-pink garnet gneiss
	T	192'-196.5' laB7 TRANSITIONAL GNEISS - biotite garnet sillimanite gneiss
200	2	196.5'-240.5' laG GRAPHITIC GNEISS med. grey & grey green banded biotite-amph. graphitic gneiss
Box 11		198' 5" pegmatite sill
		201'-204' med. grey-green & grey biotite garnet-muscovite gneiss
210		204' 4" fault gouge
		210' 1" lamprophyre dyke 20° to c/a
	2	212'-214' broken core
220		217' broken core
		224.5-226' white pegmatite
Box 12		
230		
	2	
240	P	240.5'-243' P PEGMATITE - white pegmatite
Box 13	11	243'-258' laB BARREN GNEISS leucocratic biotite-qtz-feldspathic gneiss
250		248'-250' melanocratic biot. gneiss with pink and grey qtz-fs segregations
BOX 14	14	pink biotite-qtz-fs gneiss
258	11	melanocratic biotite-qtz-fs gneiss
		END OF HOLE

SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
6274 (–183)		10-15 Tr	1-3	5	2.46	
6275 (–192)	70° 20°	10-15			3.25	
6276 (–202)	15° 45° 50° 25° 20° 30°	Tr 10-15 5 15		<5 5	1.48	
6277 (–212)	25° 30° 50° 60° 50° 35° 20°	5 10-15			3.43	
6278 (–222)	70°				3.00	
6279 (–232)		15 10-15 5 10-15	1-3	5	2.86	
6280 (–240)	65°	15 10-15			2.77	
	70°			<5		

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-27 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED AUG. 16, 1985 FINISHED AUG. 17, 1985 TOTAL DEPTH 168

LOCATION 25+72N 13+83E COLLAR ELEVN 951.10' BEDROCK ELEVN 944.10'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		CASING 7'		7					
10 Box 1	2	7'-43' IaG GRAPHITIC GNEISS med grey and grey-green banded biotite-amphibole-gneiss - graphitic 14-16' dark green garnet and amphibole concentration	6233	65° 10° 30° 45° 19	5-10 Tr 5-10	1-3	5 10 5	1.69	
20	2	pale olive green banded amphibole-biotite-garnet graphitic gneiss 27-29' pink pegmatite	6234	65° 45° 45° 30° + + 29	5 <5			0.41	
30 Box 2	1	pale grey and grey green banded biotite-amphibole graphitic gneiss	6235	5° 10° 65° 39	5 10	1-2	<5 5	2.07	
40				5°	5				
	T	43'-46' IaB_T TRANSITIONAL GNEISS med grey-green biot.-amph.-muscovite gneiss - trace graphite	6236		Tr	1-3	<5	1.06	
50	2	46'-136' IaG GRAPHITIC GNEISS med grey and grey-green banded biotite-amphibole graphitic gneiss - minor garnet.		51	10 5		5		
Box 3			6237	20° 60	5-10 10 15			2.34	
60	2	66' garnet biotite concentration	6238	70° 60°	10 10-15			2.71	
	3	dark grey green thinly banded biotite graphitic gneiss		70	15	1-2			
70 Box 4	2	med. to dark grey banded biotite-qtz-fs graphitic gneiss - minor amphibole and red garnet.	6239	80	15-20 15	1-3		4.52	
80									

DIAMOND DRILL CORE LOG

HOLE 85-27 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	2	laG GRAPHITIC GNEISS (cont'd) med grey banded biotite graphitic gneiss -minor variable amphibole and garnet content.	80 6240 90		15 15-20 15	1-3	5+	3.79	
90 Box 5	2		6241 100					3.20	
100	1	pale grey-green banded amphibole-garnet-biotite graphitic gneiss -pale pink garnets 106'-107.5' laB_T leucocratic biotite-muscovite-garnet-gneiss Trace graphite	6242 110		10 5-10 10 Tr 5-10		5	0.74	
110 Box 6	2	med. to pale grey banded biotite-amphibole graphitic gneiss	6243 120		10			2.60	
120 130 Box 7	2	med grey banded biotite-amphibole-qtz-fs graphitic gneiss 128' 1" lamprophyre dyke 15° to C/A 133'-135' white biot-qtz-fs pegmatite 135'-136' lamprophyre dyke 10° to C/A	6244 133	15° 10° + + +	10-15 10		<5	1.85	
	10	136'-140' laB BARREN GNEISS leucocratic biotite-garnet-qtz-fs gneiss		70° +					
140	2	140'-142' laG GRAPHITIC GNEISS -med. grey green banded biotite-amphibole-gneiss			5	1-2	<5		
	11	142'-149' laB BARREN GNEISS melanocratic biotite-garnet gneiss 146'-147' unit laG			Tr <5		10		
	10	leucocratic laB							
150 Box 8	P	149'-155.5' P PEGMATITE -grey and pink biotite-quartz-feldspar pegmatite		+					
160	13	155.5'-168' laB BARREN GNEISS melanocratic biotite-amphibole-qtz-fs. gneiss		75°					
Box 9	14	leucocratic grey and pink biotite qtz-fs. gneiss							
168		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-28 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED AUG. 17, 1985 FINISHED AUG. 18, 1985 TOTAL DEPTH 158'
LOCATION 25+41 N 13+47 E COLLAR ELEVN 947.20 BEDROCK ELEVN 927.20'
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
10		CASING 20' BEDROCK	18.5						
20 BOX 1 30	1	18.5'-35.5' IaG GRAPHITIC GNEISS 18.5'-20' broken core. -pale grey and grey-green banded biotite-amph-graphitic gneiss -1-2 cm qtz-fs bands - migmatitic pegmatite occurs at intervals 21'-23' migmatite	6281 30	60°	<5 Tr 10 5-10	1-2 1-3	<5 5	1.49	
	1		6282	50° 60°	10 5-10			0.92	
	10	35.5'-39.5' IaB BARREN GNEISS biotite gneiss with pink migmatitic bands	40	20°					
40 BOX 2 50	2	39.5'-105' IaG GRAPHITIC GNEISS grey and grey-green banded biotite-amphibole-graphitic gneiss -minor pale pink garnet.	6283 50		5-10	1-3	5	1.90	
	5	dark grey biotite-garnet graphitic gneiss	6284 60	65°	<5		Tr	0.63	
60 BOX 3	1	pale grey and grey-green biotite-amphibole graphitic gneiss.	6285	60° 30° 65°	5-10 5 5-10		5	3.18	
70	2	med. grey banded graphitic gneiss	70		10-15				
	3	dark grey finely banded biotite-amph.-graphitic gneiss	6286		10			3.02	
BOX 4 80	2	med. grey band biotite-amphibole graphitic gneiss	80	55°	10-15 10				

DIAMOND DRILL CORE LOG

HOLE 85-28 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	2	laG GRAPHITIC GNEISS (Cont'd) -med grey banded biotite-amph-graphitic gneiss minor garnet.	6287	80 40° 30° 70° 70° 50° 45° 25° 15° 90	10-15	1-3	5	3.46	
90	1	pale grey and grey-green banded graphitic gneiss	6288	70° 15°	10 10-15			1.88	
100 Box 5	4	dark grey biotite-muscovite? gneiss		55° 105	5-10				
	P	105'-107' P PEGMATITE - migmatitic pegmatite + biot.garn concen.							
110	10	107'-114' laB BARREN GNEISS leucocratic pink biotite gneiss		60°					
	P	114'-118' P PEGMATITE pink pegmatite - minor inclusions of laB - qtz-rich near bottom contact		25° 118					
120 Box 6	2	118'-137.5' la.G GRAPHITIC GNEISS contact 70° to C/A med. grey and grey-green banded 121' 6" pink pegmatite 124'-125' pink and green migmatite	6289	70° 65° 70° 45°	5-10	1-3	5	1.31	
130	2	-med grey banded biotite-amphibole graphitic gneiss	6290	25° 128 15° 65° 138	10	1-3	5	3.14	
140 Box 7 150	10	137.5'-158' laB BARREN GNEISS leucocratic biotite-garnet-qtz-fs gneiss -mafic concentrations at intervals -grey and pink banded. 137.5'-138' melanocratic 142' - amphibole concentration 149.5-152 - biotite-amphibole gneiss		70°					
Box 8	14	pink leucocratic biotite gneiss with pink migmatitic bands							
158		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-29 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED AUG. 18, 1985 FINISHED AUG. 21, 1985 TOTAL DEPTH 178'

LOCATION 25+95 N 14+49 E COLLAR ELEVN 958.73' BEDROCK ELEVN 956.73'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		CASING 2'	2						
10	1	2'-65.5' IaG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole-graphitic gneiss	6299	0-5° 65°	5 5-10	1-4	5	1.23	
Box 1	2	med grey banded biotite-amphibole-graphitic gneiss	12	25°	10	1-3			
20	2	med grey and grey green banded biotite-amphibole-graphitic gneiss	6300	65°	5-10			1.79	
	1	pale grey and grey-green banded biotite-amphibole-graphitic gneiss "phlogopitic" biotite	25						
30 Box 2			7501	65°	10			1.93	
			35		5-10 10 5-10				
40	1		7502	60° 60°	10 5-10 10	1-4	5+	1.21	
50 Box 3	1	pale grey banded biotite graphitic gneiss 47' migmatite sill 60° to c/A 52' migmatite sill 20° to c/A	45 7503	+ 25° + 60°	10-15			3.22	
60	1	pale grey and green banded biotite graphite gneiss ~54' migmatite 25° + 15° to c/A	55 7504		10 10-15 10	1-3		1.74	
Box 4 70	T	65.5'-71' IaBT TRANSITIONAL GNEISS med. grey biotite-muscovite gneiss, minor garnet trace graphite	65 7367	55°	Tr	1	5	0.1956	
	M	71'-79' M MIGMATITE pink, grey and pale green migmatite 50% IaB grading to pink qtz-feldspathic gneiss	71	68° + 10° +					
80	T		79	+					

DIAMOND DRILL CORE LOG

HOLE 85-29 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 5 90	T	79'- 100' laB_T TRANSITIONAL GNEISS med. to dark grey banded biotite-muscovite-garnet gneiss - mauve garnets - meta-pelite 82'-82.5' 96'-97' } bands of laG	7368	88 65°	5-10 Tr	1-2	<5 5	0.267	
			7349	93–100 75°, 15°, 15°, 10°, 60°, 35°, 5°	Tr 10 <5	1-2		2.413	
100 Box 6 110	3 2 2	100'- 156.5' laG GRAPHITIC GNEISS dark grey finely banded biotite-amphibole graphitic gneiss med grey-green banded biotite-amphibole-sillimanite-garnet graphitic gneiss minor mauve garnet -also blue-green mineral or blue-green alteration in feldspar 109' garnet-biotite concentration	7505	100–112 25°, 35°	10 5			2.34	
120 Box 7 130	2		7506	112–124 10°	10 5-10 5			2.14	
	2		7507	124–135 20°, 58°, 20°, 75°, 58°, 15°	5-10 10			2.77	
	3	med grey-green thinly banded graphitic gneiss 135' 4" fault gouge		70°					
140 Box 8 150	2 2	grey green banded biotite-amphibole graphitic gneiss biotite musc. gneiss?	7508	135–145	5-10 10			3.09	
			7509	145–156 75°, 40°, 45°	10-15			4.41	
160 Box 9 170	11	156.5'- 178 laB BARREN GNEISS med to dark grey biotite-garnet-qtz-feldspathic gneiss ~156'- migmatite		70°					
Box 10	10	light grey biotite-garnet-qtz-fs gneiss							
178		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-30 PAGE 1 OF 3

PROJECT ______ CLAIM ______ CORE SIZE ______ ZONE ______

STARTED Aug. 22, 1985 FINISHED Aug. 22, 1985 TOTAL DEPTH 218'

LOCATION 25+50 N 14+50 E COLLAR ELEVN 957.09' BEDROCK ELEVN 955.09'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		CASING 2'	2						
Box 1 10	1	2'-114' laG GRAPHITIC GNEISS pale grey and grey-green banded-amphibole-biotite-garnet graphitic gneiss	7510 12	+ 80°	6 <5 5	1-3	<5	1.06	
20	1	5' migmatite	7511 22		10 5 10			2.28	
Box 2 30			7512 32	75°	5 <5	1-4		1.24	
40	1		7513 42	80° 35° 40°	5 <5 5 10 5		5	1.20	
Box 3 50	2	med grey and grey-green banded biotite-amphibole-garnet graphitic gneiss -garnet is minor accessory ~44' migmatite	7514 52		10			1.46	
60			7515 62		5 5-10 5	1-3		1.52	
Box 4 70	1	pale grey and grey-green banded biotite-amphibole-garnet graphite gneiss -minor pale pink garnet 1mm diam.	7516 72	60° 20°	5-10 5			1.25	
	1	68' 2cm lamprophyre dyke 20° to C/A	7517	60° 80° 70° 60°	5/10	1-2	<5	1.48	
BOX 5 80	2	med grey & grey-green biot.-amph-graphite gneiss - core gets harder			<5				
				82					

DIAMOND DRILL CORE LOG

HOLE 85-30 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80	2	1aG GRAPHITIC GNEISS (cont'd)		82	<5	1-2	<5		
Box 5		med grey and grey-green banded biotite-amphibole graphitic gneiss - pink and grey migmatitic bands common - harder than overlying unit	7518	65° 40° 20° 35° 92 75°	5			0.94	
90		~88' lamprophyre dyke 16" 20° to C/A ~96' pink migmatite band 10" 35° to C/A	7519	35° + 40° 102 30°	5-10 5	1-3	5	1.71	
100 Box 6			7520	20° 25° 112	5-10 10 5 10 <5			2.20	
110	2								
	T	114'-116' 1aBT TRANSITIONAL GNEISS - med & dark grey banded biot-musc-garnet gneiss.		75°					
		116'-143' 1aB BARREN GNEISS							
120		med grey banded barren biotite-garnet gneiss							
Box 7	11			45°					
130		134' lamprophyre dyke 134-135' biotite-musc.- gneiss ~136'-137' pink migmatite parallel to foliation		15° 60° + +					
140		med. blue grey biotite-gneiss 141' migmatite		50°+ 143					
Box 8		143'-153' 1aG GRAPHITIC GNEISS		+	10 <5	1-3			
	2	med. grey-green biotite amphibole gneiss graphitic ~144.5' migmatite	7521	60° 153	10			3.26	
150		153'-162' 1aBT TRANSITIONAL GNEISS		40° 30°	5-10				
	T	med. grey biotite-muscovite-garnet gneiss - graphitic - mauve garnets, meta-pelite	7522	5° 55° 163	10-15 10			2.47	
160	2	162'-165' 1aG GRAPHITIC GNEISS med grey banded biotite-amphibole-graphitic gneiss							
Box 9	T	165'-169' 1aBT TRANSITIONAL GNEISS biotite-muscovite-garnet gneiss 168' fault, no gouge.	7523					3.45	
170		169'-203.5' 1aG GRAPHITIC GNEISS		173	10-15				
	2	med. grey-green banded biotite-amphibole graphitic gneiss 176' - biotite-muscovite-garnet gneiss 178-179' dark green amphibole concentration	7524	65°	10 5-10 10			3.02	
Box 10 180									

DIAMOND DRILL CORE LOG

HOLE 85-30 PAGE 3 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	2	laG GRAPHITIC GNEISS (Cont'd). med grey-green banded biotite-amphibole-graphitic gneiss	7524 183	70° 30	10 10-15	1-3	5	3.02	
Box 10 190			7525 193	30° 60°	10			4.36	
200	2		7526 203					3.58	
Box 11 210	11 14	203.5'-218' laB BARREN GNEISS med grey and pink biotite garnet-qtz-fs. gneiss pale grey and pink biotite-garnet-qtz-fs. gneiss		65°					
218'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-31 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED AUG 23, 1985 FINISHED AUG. 24, 1985 TOTAL DEPTH 218

LOCATION 25+00N 13+56E COLLAR ELEVN 977.30' BEDROCK ELEVN 977.30'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		BEDROCK AT SURFACE CASING 7'		7					
10 Box 1	1	7'-32.5' laG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole graphitic gneiss	7527	50° 28° 70° 20	5	1-3	5	1.84	
20		20.5'-22' biotite-qtz-pegmatite ~22' fractured and weathered.		+					
30	1	contact 60°	7528	60° 32	5	1-3	5	1.70	
	L	32.5'-35' LAMPROPHYRE DYKE dark green, fractured lamprophyre dyke contact 20°		15°					
Box 2 40	1	35'-73' laG GRAPHITIC GNEISS pale grey and grey-green amphibole-biotite graphitic gneiss	7529	36 80° 80° + 60° 50	<5 5 10 5	1-2 1-3	<5 5	1.85	
50 Box 3 60	2	med grey and grey-green biotite-amphibole graphitic gneiss - banded. 56'-57' pale green migmatite	7530	50° 45° + 70° 62	10 ~~<5~~ Tr	1-2	5	1.38	
	M	62'-65' pale green and pink migmatite.		60° 60° 60° 50					
70 Box 4	T 2	~65' broken core. 68'-69.5' biotite-muscovite gneiss laB$_T$	7531	65 20° 60° 60° 40° 20° 55°	5 Tr 5 <5		5	0.893	
	T	73'-76' laB$_T$ TRANSITIONAL GNEISS med. grey banded biotite - muscovite gneiss							
80	2	76'-97' laG GRAPHITIC GNEISS med. grey and green banded biotite-amph graphitic gneiss		80	5	1-3			

DIAMOND DRILL CORE LOG

HOLE 85-31 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80		IaG GRAPHITIC GNEISS (Cont'd)	80	60°	5	1-3	5		
Box 4	2	med grey and green banded biotite amphibole graphitic gneiss		30° 40°					
	M	87'-89' pale pink and green migmatite	7532	+ +	Tr			1.48	
90					5	1-3	5		
Box 5	1	pale grey and grey-green banded amphibole-biotite graphitic gneiss		70° 50°					
			97						
100	11	97'-119' IaB BARREN GNEISS med grey biotite-garnet qtzo-feldspathic gneiss		20° 30°					
110		112'-114' migmatite							
Box 6	11	M							
	T	117'-119' biotite-muscovite garnet gneiss (IaB$_T$)	119	80°					
120	2	119'-163' IaG GRAPHITIC GNEISS med grey and grey-green banded graphitic gneiss			<5	1-2	Tr		
							10		
		121.5'-123' dark green amphibole garnet gneiss	7533		5	1-3	5	2.60	
			130	70°	10	1-2			
130		med grey banded biotite-amphibole graphitic gneiss - minor garnet.							
Box 7			7534		5	1-3		3.10	
					10				
			140	75°	10-15				
140					10				
			7535	80° 30° 60° 20° 50°	5 10			2.90	
		147' 3" gouge.							
150			150		5-10				
Box 8			7536	70°	10 5-10			1.86	
160	1	pale grey and grey green banded graphitic gneiss 162'-163' biotite concentration for 1' at contact	161	75°	5				
	10	163'-187' IaB BARREN GNEISS leucocratic grey biotite-garnet quartzo-feldspathic gneiss		70°					
170		leucocratic pink biotite-garnet-qtzo-feldspathic gneiss							
Box 9	14			30°					
180	11	melanocratic biotite-garnet gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-31 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	11	melanocratic biotite-garnet gneiss							
Box 9		laB BARREN GNEISS (cont'd)							
	10	leucocratic pink biotite-garnet gneiss 187' 6" laB$_T$ biot-musc. gneiss	188	30°					
190		187'-201 laG GRAPHITIC GNEISS		+	5-10	1-2	5		
Box 10	2	med.-dark grey banded biotite-amphibole-garnet-qtz-fs graphitic gneiss 189' pink migmatite 190.5'-191.5' migmatite	7537	+	5-10 10	1-3	5	2.46	
200			200	10°					
Box 11		201'-218' laB BARREN GNEISS -pink leucocratic biotite garnet gneiss -minor garnet		+					
210	14	208' migmatite 211-212' melanocratic biotite garnet gneiss		80°					
218		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-32 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE
STARTED AUG. 27, 1985 FINISHED AUG. 28, 1985 TOTAL DEPTH 168′
LOCATION 25+01 N 13+15 E COLLAR ELEVN 957.33 BEDROCK ELEVN 954.33′
ANGLE −90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C (G)	RESULTS WT. % FLAKE
		CASING 3′ BEDROCK							
10 Box 1	1 1	3′-20′ 1aG GRAPHITIC GNEISS pale grey and grey green banded biotite-amph-graphitic gneiss 3′-10′ weathered along fractures	7538 15	40° 65° 80° + 25°	5 <5	1-3	5	1.80	
20	T	20′-28′ 1aB$_T$ TRANSITIONAL GNEISS med grey banded biotite-sillimanite-garnet gneiss slightly graphitic - lesser mauve garnet.	7539	45° 75°	Tr to <5			0.938	
30 Box 2 40	2	28′-45.5′ 1aG GRAPHITIC GNEISS med. grey and grey-green banded biotite-amphibole-gneiss - graphitic	30 7540		3 5 <5 5.	1-2	<5	1.07	
	2	med. grey banded biotite - amphibole graphitic gneiss	45	+ Δ					
Box 3 50 60 Box 4	11	45.5-69.5′ 1aB BARREN GNEISS -med grey banded biotite-garnet gneiss - pale pink qtz-feldspathic bands - occasional trace of graphite -variable garnet content		Δ 40° 15° 20° 75° 35° 50° 60° 30° 30°					
70 80	2	69.5′- 89.5′ 1aG GRAPHITIC GNEISS med grey and green banded biotite-amphibole-graphitic gneiss	70 7541 80	40° 45°	5-10 10 5-10 10	1-3	5	2.03	

DIAMOND DRILL CORE LOG

HOLE 85-32 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
Box 5	2	IaG GRAPHITIC GNEISS (cont'd) med. grey and green banded graphitic gneiss 81'-84' fractured and k-altered core ~83' 0.5cm veinlet of qtz-carb 15° to CA	90 7542 90	15°	10	1-2	5	2.49	
90	10	89.5'-95' IaB BARREN GNEISS leucocratic biotite-qtz-fs gneiss		75° 30°					
100	3	95'-102.5' IaG GRAPHITIC GNEISS med. grey thinly banded biotite-amphibole graphitic gneiss 98'-100' fractured core.	95 7543 102	30° 50° 70° 65°	10 10-15 10	1-3	5	2.57	
	M	102.5'-106 M. MIGMATITE							
Box 6 110	11	106'-130' IaB BARREN GNEISS med. grey biotite-garnet gneiss - interbanded with med. grey biotite amphibole gneiss 107' minor muscovite 107'-110', 112'-116', 118.5-120.5' } biotite-amph-gneiss 110'-112', 116.5'-118.5' } biotite garnet gneiss		75°					
120 Box 7	14	leucocratic pink biotite garnet gneiss 127' 130' } 6" band of IaB$_T$ biotite-musc gneiss	130	65° 20°	5%				
130	2	130'-145' IaG GRAPHITIC GNEISS med. grey green banded biotite-amphibole-garnet-graphitic gneiss, < 1mm pale pink garnets	7543 133	10°	10 5-10 10	1-2	5	2.57	
140	1	leucocratic grey and grey-green banded biotite amphibole-garnet-graphite-gneiss	7544 144		5-10 10			2.09	
Box 8 150	10	145'-168' IaB BARREN GNEISS - leucocratic grey biotite-garnet gneiss - minor amphibolitic biotite bands							
160 Box 9	14	leucocratic pink biotite-garnet gneiss		75°					
168		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-33 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED AUG. 29, 1985 FINISHED AUG. 30, 1985 TOTAL DEPTH 268'

LOCATION 25+00N 13+99E COLLAR ELEVN 971.04 BEDROCK ELEVN ______

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR.	RESULTS %C(G)	RESULTS WT. % FLAKE
		CASING 6' BROKEN AND WEATHERED GROUND to 14'							
10		9.5'-196.5' 1aG GRAPHITIC GNEISS	10		5	1-3	5		
	2	med grey and grey-green biotite-amphibole graphitic gneiss							
Box 1			7545	85°			5-10	1.66	
20		19' k-alteration along vein		35°					
		25' lamprophyre dyke	25						
30		33' broken core	7546	25° 25°				1.86	
Box 2	2								
40		pale grey and grey-green banded biotite-amphibole graphitic gneiss	40	10°	<5		<5		
	1		7547	30° 35° 80° 45° 50°	10			1.53	
50									
Box 3			55	35°					
60		57' fractured narrow lamprophyre 1 cm 35° to C/A	7548		5-10 <5		5 <5	1.39	
		~59.5-61.0 1' migmatite							
70		69' biotite-amphibole concentration	70	80°	10		5		
Box 4			7549		5	1-2	<5	1.47	
80	1	minor pale pink garnet.		30°	<5				

DIAMOND DRILL CORE LOG

HOLE 85-33 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
80 Box 4	1	1aG GRAPHITIC GNEISS (cont'd) pale grey and grey-green banded biotite-amphibole-graphitic gneiss with minor variable pale pink garnet content	7549	30° 20° 85	<5	1-2	<5	1.47	
90 Box 5	T 2	90.5'-93.5' dark grey biotite-mauve garnet gneiss 94.5'-96.5' 1aB7 dark grey banded biotite-muscovite gneiss	7550	45° 0° 100	5 <5 5 <5	1-3	5 <5	1.08	
100 110 Box 6	1	med. grey and grey green banded biotite-amphibole gneiss pale grey and grey-green banded biotite-amphibole-garnet graphitic gneiss - minor and variable pale pink garnet content, traces of mauve garnet.	7551	20° 45° 115	10 5 <5	1-2		1.40	
120		~123.5' migmatite	7552	10° 30° 80° 15° 130	6 5-10			0.83	
130 Box 7	1	131.5'-138.5' 1' migmatite	7553	140	10 5-10 5			2.00	
140	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss	7554	85° 150	10-15 5-10	1-3	5	2.46	
150 Box 8			7555	30° 30° 10° 160	10 5-10			2.24	
160		med. grey banded biotite-amphibole graphitic gneiss - minor amphibole-garnet bands. 165.5'-166.5' broken core, veining	7556	70° 70° 50° 48° 170	10			2.41	
170 Box 9	2	167' garnet concentration, up to 1cm diam. garnets	7557	80°	5-10 <5			3.52	
180	1	pale grey and grey-green banded amph-biot-gneiss, variable		180					

DIAMOND DRILL CORE LOG

HOLE 85-33 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
180 Box 9		1aG GRAPHITIC GNEISS (cont'd)	180		<5	1-3	5		
	1	pale grey and grey-green banded amphibole-biotite graphitic gneiss	7558		5-10			2.59	
190	2	grey banded biotite amphibole graphitic gneiss			10				
Box 10	1	pale grey and grey-green banded	194	80°	5				
200		196.5'-215' 1aB BARREN GNEISS pale grey biotite garnet qtz-feldspathic gneiss							
	10	196.5'-197.5' 1aB$_T$ 1' biot-musc. gneiss							
210 Box 11		~213.5' pale pink garnet concentration		80° 38°					
		215'-241' 1aG GRAPHITIC GNEISS	215	70° 15°	10	1-3	5		
220	1	pale grey and grey-green banded biotite-amphibole graphitic gneiss	7559		5 10			2.21	
			225	30° 45°	15 10				
230 Box 12			7560					2.66	
	1		237		10-15 5				
240		gradational contact.							
Box 13	11	241'-268' 1aB BARREN GNEISS med. grey-green banded biotite-amphibole gneiss - minor interbands of graphitic gneiss							
250		~258.5-261' pink quartzo-feldspathic band of migmatite							
260	11 M			75°					
Box 14	14	med. grey and pink banded qtz-feldspathic gneiss							
268'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-34 PAGE 1 OF 4

PROJECT BISSETT CREEK CLAIM _____ CORE SIZE BQ ZONE NE

STARTED AUG. 30, 1985 FINISHED SEPT. 6, 1985 TOTAL DEPTH 308'

LOCATION 25+51N 15+97E COLLAR ELEVN 957.51 BEDROCK ELEVN 957.01'

ANGLE -90° AZIMUTH _____ LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C (G)	WT.% FLAKE
Box 1	1	0.5'-97' 1aG GRAPHITIC GNEISS CASING 2' BEDROCK 2' weathered fractured.	1	Δ	<5	1-3	<5		
		pale grey and grey-green banded biotite-amphibole-graphitic gneiss	7561					1.25	
10									
			15		5				
				80°	<5				
20									
Box 2	1		7562		5			1.38	
						1-3			
30			30		<5				
			7563	80°	5			1.15	
					<5				
40									
Box 3		pale grey and grey-green banded amphibole-biotite-graphitic gneiss							
			45	80°					
	1						5		
50			7564					1.13	
					5-10	1-3			
			60	15°	<5				
60									
Box 4					≈3				
			7565	80°				2.01	
70	1								
			75						
	2	med – dark grey banded biotite-amphibole graphitic gneiss.	7566		5-10 5			2.20	
80									

DIAMOND DRILL CORE LOG

HOLE 85-34 PAGE 2 OF 4

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
80	2	IaG GRAPHITIC GNEISS (cont'd) med. dark grey banded biotite amphibole graphitic gneiss	80↑		5	1-2	5		
Box 5 90	1	pale grey and grey-green banded amphibole-biotite graphitic gneiss	7566 90	15° 10°	<5 5		<5 5	2.20	
		93-95' dark green lamprophyre dyke w/ talc & chlorite along fractured contacts 20°	7567	25° 20° 50° 20°	5	1-3	5	0.907	
100	L	97'-101.5' L LAMPROPHYRE DYKE dark green lamprophyre dyke with talc & chlorite along fractured contacts — 20°		20°					
	1	101.5'-151.5' IaG GRAPHITIC GNEISS pale grey and grey-green banded amphibole-biotite graphitic gneiss.	105		<5 5	1-5	5		
Box 6 110			7568	70° 70°	<5			1.66	
	2	med grey banded biotite-amphibole graphitic gneiss		25°	5				
120			120		10 15				
Box 7 130	3	med. grey finely banded biotite-amphibole-gneiss	7569 130	20°	10			2.92	
		135' ½" gouge parallel to foliation	7570	15°	15 10 5-10	1-2		3.34	
140		137'-151.5' graphite flakes uniformly small.	140	15°	5	≤1			
Box 8	3	~138'-148' traces of potassic alteration along fractures, very fine grained graphite flakes.	7571 150	75°	5-10 10	1-3 1		2.91	
150	T	151.5'-154.5' IaBT TRANSITIONAL GNEISS biotite-muscovite-garnet gneiss, med. grey, banded., mauve garnet	7572		<5	1-3		3.46	
160	3	154.5'-167' IaG GRAPHITIC GNEISS med. grey finely banded biotite-amphibole graphitic gneiss - graphite flakes uniformly small	160		10 10-15 10	1-2 1-3			
Box 9			7573	80° +	5 10-15 5			1.54	
170	T	167'-170' IaBT TRANSITIONAL GNEISS med. grey banded, biotite muscovite amphibole gneiss	170	10°	<5				
	3	170'-201' IaG GRAPHITIC GNEISS med. to dark grey biotite-amphibole graphitic gneiss, finely banded - minor and variable pale pink garnet content	7574	55° 60° 70° 51°	10 10-15 10			2.79	
Box 10 180	2	med. grey banded biotite garnet graphitic gneiss, minor garnet.	180	30°	Tr		<5		

DIAMOND DRILL CORE LOG

HOLE 85-34 PAGE 3 OF 4

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
180 Box 10	2	laG GRAPHITIC GNEISS (cont'd). med. grey banded biot-amph. graphitic gneiss	180 7575	0°	10 5	1-3	5	1.48	
190	2	med. grey and grey-green banded biotite-amphibole-graphitic gneiss - minor variable garnet content.	190	30° 75°					
Box 11 200	3	med. grey finely banded biotite-amph-graphitic gneiss 196'-204' lamprophyre dyke and fault parallel to edge of core	7576 201	10°	10	1-2		1.99	
	L	201'-204' L LAMPROPHYRE DYKE fractured, dark green lamprophyre dyke. contacts 10° 25°		40° 25°					
210 Box 12 220 230	2 2	204'-230' laG GRAPHITIC GNEISS med grey and grey-green banded biotite-amphibole graphitic gneiss.	204 7639 214 7350 230	60° 65° 55° 45° 75°	5-10 <5	1-3	5 <5	1.302	
Box 13	M	230'-237' M. MIGMATITE pale pink and green pegmatitic migmatite 232'-233' 234'-236' } laB med. grey biotite gneiss		40° 35°			5		
240	1	237'-255' laG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amph-graphitic gneiss with variable pale pink garnet content.	237 7351 245		Tr 5	1-3	<5	1.633	
250 Box 14	2	med grey and grey-green banded biotite-amphibole-graphitic gneiss	7352 255	70°				1.045	
	11	255'-259' laB BARREN GNEISS med. grey biotite gneiss							
260	T	259'-263' laB$_T$ TRANSITIONAL GNEISS biotite-muscovite gneiss							
	11	263'-266.5' laB BARREN GNEISS med. grey biotite-garnet gneiss		80°					
270 Box 15 280	2	266.5'-281.5' laG GRAPHITIC GNEISS med to dark grey and grey green banded biotite-amphibole graphitic gneiss -minor variable garnet content.	266.5 7353		5	1-3	5	1.747	

DIAMOND DRILL CORE LOG

HOLE 85-34 PAGE 4 OF 4

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
280	2	IaG GRAPHITIC GNEISS (cont'd)	281.5		5-10	1-3	5		
Box 15	M	281.5'-288' M MIGMATITE 284'-285' barren gneiss (IaB)		70°					
290	13	288'-308' IaB BARREN GNEISS dark grey weakly banded biotite-amphibole gneiss							
Box 16	10	leucocratic grey biotite-amph.-gneiss							
300	14	leucocratic pink biotite gneiss		75°					
308'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-35 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED SEPT. 6, 1985 FINISHED SEPT. 8, 1985 TOTAL DEPTH 268'

LOCATION 25+55N 15+48E COLLAR ELEVN 943.98' BEDROCK ELEVN 941.98'

ANGLE -90° AZIMUTH —— LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT % FLAKE
		CASING 2'							
	1	2'-4' 1aG GRAPHITIC GNEISS - pale grey and grey green banded biot-amph gneiss	2		Tr	1-2	<5		
Box 1	M	4'-7' M MIGMATITE pale green biot-feldspar pegmatitic migmatite	7577					1.25	
10	1	7'-14' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biot-amph gneiss, graphitic	14	75° 60°	5	1-3	5		
	M	14'-18' M MIGMATITE pink and green biotite-feldspar-qtz-py pegmatitic migmatite		70°					
20	1	18'-115' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole garnet graphitic gneiss -variable pink garnet content	18 7578		5 5-10 <5	1-3	5	1.41	
30 Box 2	2	med grey and grey green banded biot-amph graphitic gneiss minor variable pink garnet content. 26'-27' pink and green migmatite ~31'-32' pink pegmatitic migmatite	30 7579 40	20° 75° 30° 20° 20°	5-10 5 10			1.64	
40 Box 3	2		7580 50		10-15 10			3.25	
50	3	med grey finely banded siliceous biot-amph-garnet graphitic gneiss	7581		5-10 10-15			2.69	
	2	Med. grey banded biotite-amphibole graphitic gneiss 59' garnet concentration	60		5-10 10				
60 Box 4 70	2		7582 70	50° 80°				2.57	
	3	med-dark grey finely banded biotite-amphibole graphitic gneiss	7583 80	5° 80°				1.96	
80 Box 5									

DIAMOND DRILL CORE LOG

HOLE 85-35 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 5	2	IaG GRAPHITIC GNEISS (cont'd) med grey banded biotite-amphibole gneiss graphitic	80 7584	45°	10	1-3	5	2.61	
90	2	med grey and grey-green banded biot-amph-garnet graphitic gneiss -variable minor pale pink garnet content	90 7585	+ 80° 10°	5 10			2.57	
100 Box 6	3	med. grey thinly banded biot-amph graphite gneiss	100 7586	75° 65°	<5 10 10-15 10	1-5 1-3	<5	2.68	
110	2	med. grey and grey green banded biot-amph-graphitic gneiss	115		5 5-10				
120	T	115'-125.5' IaB$_T$ TRANSITIONAL GNEISS med. grey banded biot-musc-garnet gneiss mauve garnets	7224	30° 60°	Tr	1-2	5	0.3970	
Box 7	2	125.5'-129.5' IaG GRAPHITIC GNEISS med grey and grey-green banded biot-amph-garnet graphitic gneiss	127		10	1-3			
130	T	129.5-138' IaB$_T$ TRANSITIONAL GNEISS med grey banded biotite-muscovite gneiss + mauve garnets 131'-132' migmatite 137' narrow qtz vein in fracture.	7225	+ 60° 58° 58°	Tr Tr			0.631	
140	10	138'-146' IaB BARREN GNEISS leucocratic biot-musc-garnet gneiss	139	70°				0.913	
Box 8	11	med grey banded biot.-musc-gneiss	7226						
150	2	146'-152' IaG GRAPHITIC GNEISS med grey-green banded biotite-amph-garnet graphite gneiss 148'-149' lamprophyre dyke, contacts 15° 151' broken core		15° + 15° Δ	10 10	1-3 1-3			
	T	152'-160' IaB$_T$ TRANSITIONAL GNEISS med grey banded biot-musc-mauve garnet gneiss -variable amphibole content	152 7365	80°				0.316	
160 Box 9	2	160'-216' IaG GRAPHITIC GNEISS med grey thinly banded and banded biotite-amph-graphitic gneiss -intermittent muscovite	160 7587		5 10	1-3		3.43	
170 Box 10 180	2	173'-174' 176' } biot-musc gneiss 178'-180' biot-musc gneiss (2')	170 7588 180		5			1.97	

DIAMOND DRILL CORE LOG

HOLE 85-35 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
180 Box 10	2	1aG GRAPHITIC GNEISS (cont'd) 181'-182' biot-musc gneiss	180 7589	55° 65° 30°	10	1-3	5	2.86	
190	1	pale grey and grey-green banded biot-amph-graphitic gneiss	190 7590	45° 65° 15°	5 <5 6 10 10-15			2.08	
200 Box 11 210	3	med grey thinly banded biot-amph graphitic gneiss	200 7591 216	70° 35° 15° 70°	10 10-15 10 10-15 10			2.95	
220	M	216'-223' M MIGMATITE pale grey, pink & green feldspar-qtz-biot-migmatite gradational boundaries contact 50°		20° 60° 50°					
Box 12	2	223'-229' 1aG GRAPHITIC GNEISS med. grey banded biot-garnet graphitic gneiss		+ 70°	10 10-15	1-3			
230	10	229'-235.5' 1aB BARREN GNEISS leucocratic biot-garnet gneiss					5-10		
240	M	235.5'-243.5' M MIGMATITE med grey migmatite - coarse biot-fs and biot. gneiss bands 238.5'-239.5' quartz							
Box 13 250 260 Box 14	11	243.5'-268 1aB BARREN GNEISS med grey - dark grey biotite and biotite-garnet-amphibole-qtz-feldspathic gneiss - minor light grey interbanded gneiss - variable dark green amphibole content		70° +					
	14	leucocratic pink biotite gneiss		80°					
268'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-36 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED SEPT. 8, 1985 FINISHED SEPT. 10, 1985 TOTAL DEPTH 281'

LOCATION 25+86N 16+51E COLLAR ELEVN 956.64 BEDROCK ELEVN 954.64'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
		2' CASING	2						
Box 1 10	1	2'-142' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole-garnet graphitic gneiss	7592	40° 50° 80°	<5	1-3	5		
20 Box 2	1		15 7593	50° 40° 50° 60° 80° 40°	5 <5			1.48	
30 40 Box 3	1	~41.5'-43.5' white migmatite	30 7594	70° + +	<5	1-3	5	1.00	
50	2	med grey banded biotite-amphibole graphitic gneiss	45 7595	58°	5			2.84	
60 Box 4	2		57 7596		10			2.67	
70 80 Box5	1	pale grey and grey-green banded biotite-amphibole graphitic gneiss 72' 5" qtz·fs migmatite.	70 7597	+ 70°	<5			1.32	

DIAMOND DRILL CORE LOG

HOLE 85-36 PAGE 2 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 5	1	IaG GRAPHITIC GNEISS (cont'd) pale grey and grey-green banded biotite-amphibole graphitic gneiss	7597 85	10° 20°	3-5	1-4	5	1.32	
90			7598 100	75°	5 <5			0.95	
100 Box 6	1		7599 110	85° 60°	5-10			1.80	
110	3	med. grey finely banded biotite-amphibole graphitic gneiss	7600 120	30° 80° 15°	10-15 10 10-15			3.22	
120 Box 7	2	med. grey banded biotite-muscovite-amphibole-garnet graphitic gneiss -interbands of Transitional biot-musc-amph gneiss (eg. 119'-120', 121.5'-122.5')	7601 130	60° +	5 10 5 10 ++			1.96	
130	3	dark grey green finely banded biot-amph graphitic gneiss 128.5'-130' -pink & pale green pegmatite, contacts 60°, 38° 132.5'-133.5' - pink & pale green pegmatite, contacts 45°, 50° pale grey finely banded biotite-amphibole-graphitic gneiss - minor variable muscovite	7602 140	38° 45° + 50° 85°	10-15 ++ 10	1-4 1-2	5 5	3.57	
140 Box 8	3 T	142'-148' IaB$_T$ TRANSITIONAL GNEISS med grey biotite-muscovite garnet gneiss 144'-146' pink pegmatite	7603 150	+ + 40°	5 ++ 5 10	1-2	5	2.25	
150	3	148'-179' IaG GRAPHITIC GNEISS dark grey-green finely banded biotite-amph-graphitic gneiss	7604 160	0° 80° + +	5	1-3		2.52	
160 Box 9	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss-	7605 170	75°	10 5 10 5			2.25	
170	1	pale grey and grey-green banded biotite-amphibole graphitic gneiss	7606 179	15° 80°	10 5 10			1.68	
Box 10 180	10	179'-194' IaB. BARREN GNEISS							

DIAMOND DRILL CORE LOG

HOLE 85-36 PAGE 3 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 10	10	laB BARREN GNEISS (cont'd) leucocratic biotite-garnet gneiss							
190	10	191.5' py-qtz-fs rich		70° 40° 20°					
	1	194'-235' laG GRAPHITIC GNEISS	194		5-10	1-3	5		
200 Box 11		pale grey and grey-green banded biotite-amphibole graphitic gneiss 195.5'-196' unit laB - barren gneiss 200'-202' 205'-206' } broken core	7227 205	20° 20° 20°	5 10 5	1-3	5	2.009	
210	10 1	207'-209' unit laB - leucocratic biotite-garnet barren gneiss (subunit 10) 216.5' garnet concentration - minor variable garnet content (209'-235')	7228 220	70°	10 5 <5 5	1-3	5	1.268	
220 Box 12 230	1	223' 1.5 cm qtz-calcite vein 230' garnet concentration	7229 235	45° 40° 80°	<5			1.632	
Box 13 240	11	235'-281' laB BARREN GNEISS med grey banded biotite-garnet gneiss - minor and variable amphibole content.		45° 70°					
250 Box 14 260	11								
270	1	263'-266' unit laG-1 pale grey and grey-green banded graphitic gneiss.		25° 80°	5	1-3	5		
Box 15 280	11								

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-37 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE
STARTED SEPT. 12, 1985 FINISHED SEPT. 14, 1985 TOTAL DEPTH 268'
LOCATION 26+46 N 17+00 E COLLAR ELEVN 948.32' BEDROCK ELEVN 948.32'
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		BEDROCK CASING 3'							
Box 1 10	1	3'-33' IaG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amph-graphitic gneiss ~17' py-carbonate along fracture	3 7607	20° 40° 20°	<5 5-10	1-3	<5	1.22	
20 Box 2 30	1		18 7608 33	80° 25° 80°	5 <5			1.13	
	M	33-37' M MIGMATITE pale pink and green pegmatitic migmatite contact 15°		40° 15° 15°					
40 Box 3	1	37'-123' IaG GRAPHITIC GNEISS pale grey and grey-green banded biotite amphibole-graphitic gneiss 40.5' 2cm lamprophyre dyke 35° to C/A	37 7609	35° 35° 20°	5 5-10	1-3	<5	1.38	
50	1		47 7610	25° 80° 25° 35° 35° 35° 40°	5			1.30	
60 Box 4 70		68' 2cm lamprophyre dyke 30° to C/A	60 7611	80° 30°	5-10 <5 10 5			1.24	
80	1		75 7612	10°	10 5 10			1.40	

DIAMOND DRILL CORE LOG

HOLE 85-37 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 5	1	laG GRAPHITIC GNEISS (Cont'd) pale grey and grey green banded biotite-amphibole-gneiss, graphitic	7612 90		5-10 10	1-3	5	1.40	
90	1	pale grey banded and finely banded biotite-amphibole graphitic gneiss. 94' minor mauve garnets	7613 100	10°	10-15 5 10-15			3.10	
100 Box 6		102-103.5' laB$_T$ biot-musc gneiss 103.5' 3cm lamprophyre dyke. 112.5'-113.5' dark green lamprophyre dykes with qtz-carbonate veining	7614 110	+ 10°	<5 10			3.12	
110	1	117'-117.5' laB$_T$.	7615 121	10° 70° 35°	10 <5	1-3	5	4.18	
120 Box 7	T	123'-125.5' laB$_T$ TRANSITIONAL GNEISS med grey banded biotite-muscorite gneiss							
130	11	125.5'-146.5' laB BARREN GNEISS med grey banded biotite-garnet gneiss 131.5'-134' broken core, pink polassic alteration		80° 15° 60°					
140 Box 8	11	146' 3cm lamprophyre dyke.		30° 25°					
150	1	146.5-156.5 laG GRAPHITIC GNEISS pale grey and grey green banded biotite-amph-graphitic gneiss - olive green and pink alteration evident. 153-154.5' lamprophyre dyke.	147 7616 156	30°	5 5	1-3 1-3	5 5		
160 Box 9	10	156.5'-233' laB BARREN GNEISS leucocratic biotite-garnet-amphibole gneiss - variable amphibole content 156.5'-158' migmatite ~160' - 5" of dark green biotite-amph meta-igneous rock.		40° 30° 75° 45°					
170		171' 2.5cm lamprophyre dyke 171'-173' pegmatite.		45° 45° 30°					
Box 10 180	10								

DIAMOND DRILL CORE LOG

HOLE 85-37 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(T)	RESULTS WT.% FLAKE
180 Box 10	10	M <u>IaB BARREN GNEISS (cont'd)</u> leucocratic biotite gneiss - minor variable amphibole content - pink potassic alteration common along fractures - variable garnet content		+ + + 30°					
190				75° 60° 35°					
Box 11 200		200'-201.5' pink pegmatite		45° 45° 15° 75°					
210	10			30°					
Box 12		218'-219' dark green biotite-amph-gneiss		75°					
220		222'-222.5' } 224'-225' } IaG-3 pale grey finely laminated biotite-amph-gneiss..		40°	10 10	1-2 1-2	5 5		
230	10			40°					
		<u>233'-246' IaG GRAPHITIC GNEISS</u>	233	10°	5-10	1-3	5		
Box 13 240	1	leucocratic grey and grey-green banded biotite-amphibole graphitic gneiss.	7617		10 5-10			1.78	
			245	10°	10				
	10	<u>246'-268' IaB BARREN GNEISS</u> leucocratic biotite gneiss 248.5'-250' biot-amph gneiss							
250	10	leucocratic biotite-amphibole gneiss							
Box 14	14	pink leucocratic gneiss		70°					
260	11	med. green amphibole-biotite gneiss							
	14	pink leucocratic gneiss							
268'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-38 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED SEPT. 16, 1985 FINISHED SEPT. 16, 1985 TOTAL DEPTH 48'

LOCATION 27+00 N 17+00E COLLAR ELEVN 949.11' BEDROCK ELEVN ______

ANGLE ~90° AZIMUTH — LOGGED BY U. SCHMIDT

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
		CASING 4'							
10		Mixed boulders of graphitic gneiss and pink gneiss core recovery 29%							
20									
30		pale grey and grey-green banded graphitic gneiss ∠ 50° to c/A							
40		HOLE ABANDONED							
50		END OF HOLE BEDROCK PROBABLY NOT REACHED							
60									
70									
80									

DIAMOND DRILL CORE LOG

HOLE 85-39 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED SEPT. 16, 1985 FINISHED SEPT. 18, 1985 TOTAL DEPTH 238'

LOCATION 27+50N 16+50E COLLAR ELEVN 959.92 BEDROCK ELEVN 955.92'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		CASING 4'							
Box 1 10	1	4'-86' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole graphitic gneiss	4 PTS 159 9' 7618 20	85°	5	1-3	5		
20 Box 2	1		7619 30		5-10			1.77	
30			7620 40	70° 40° 40°	10				
40 Box 3	1	~46' 6" of biotite-muscovite gneiss	7621 50	35° 15°	10-15 10			2.86	
50			PTS 156 52.5' 7622 60	40° 70°	10-15 10				
60 Box 4	1		7623		10-15			2.33	
70	2	pale to med. grey and grey green banded biotite-amphibole-garnet graphitic gneiss -mauve garnets ~71' garnet-amph. concentrate	PTS 157 68' 70		10				
80	1	pale grey green banded biotite-amphibole graphitic gneiss 78' dark grey-green finely banded.	7624 PTS 161 79' 80		10-15 10				

DIAMOND DRILL CORE LOG

HOLE 85-39 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
Box 4 80 Box 5	1	IaG GRAPHITIC GNEISS (Cont'd) pale grey-green banded biotite-amphibole graphitic gneiss	80 7625	28° 28°	10 10-15 10 5-10	1-3	5	2.66	
90	T	86'-93' IaB_T TRANSITIONAL GNEISS med. grey banded biot-musc-garnet gneiss - variable amphibole content	90		10-15 5				
100 Box 6	10	93'-104' IaB BARREN GNEISS leucocratic biot-garnet-gneiss minor variable muscovite and amphibole content 100'-102' pale pink and green migmatite	PTS 164 94'-	80° 25° + + + 30°					
110	1	104'-120' IaG GRAPHITIC GNEISS pale grey and grey green banded biot-amph-graphitic gneiss	104 7626 120	25° 30° 15° 65° 15°	10 5 10 5	1-3	5		
120 Box 7 130 140 Box 8	10	120'-145.5' IaB BARREN GNEISS leucocratic biotite-garnet gneiss - variable minor amphibole content leucocratic biotite-garnet gneiss, finely banded		15° 20° 15° 15° 0° 80°					
150	2	145.5'-152' IaG GRAPHITIC GNEISS med. grey and grey-green biotite-amphibole-graphitic gneiss	146.5 7230 152		5-10	1-3	5		
	M	152'-154' M MIGMATITE - qtz-fs-py migmatite		+ +					
160 Box 9 170 180	11 11	154'-193' IaB BARREN GNEISS med. grey biotite-garnet gneiss - minor variable muscovite content 164'-168' horizontally fractured core 7/ft.	PTS 168 175'-	50° 20° 65° 30° 15° 80°					

DIAMOND DRILL CORE LOG

HOLE 85-39 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 9 180		laB BARREN GNEISS (Cont'd)		20°					
Box 10	11	med grey finely banded biotite garnet gneiss		30°					
				85°					
190				+					
				10°					
		193'-206' laG GRAPHITIC GNEISS	193'		5	1-3	5		
		med grey and grey-green banded biotite-amphibole-graphitic gneiss		80°					
200	2		7231	+	5	1-3	5	0.830	
		196.5'-198' 1½' lost core, gouge.		45°					
Box 11				80°					
		60° faulted contact	206	60°					
	P	206'-209' P PEGMATITE		+++					
210	M	209'-211' M MIGNATITE							
	10	211-238' laB BARREN GNEISS leucocratic biotite-garnet gneiss							
220	11	melanocratic biotite-amphibole gneiss -minor variable garnet content!							
Box 12									
230	11		228'- PTS 155						
		gradational							
	14	leucocratic pink biotite gneiss	235'- PTS 167						
238'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-40 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED SEPT. 19, 1985 FINISHED SEPT. 26, 1986 TOTAL DEPTH 258'

LOCATION 27+50N 16+94E COLLAR ELEVN. 964.78' BEDROCK ELEVN. 928.78

ANGLE -90 AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
10 20 30		CASING 36' BEDROCK		20°					
Box 1 40	1	36'-90' 1aG GRAPHITIC GNEISS pale grey and grey green banded biotite-amphibole graphitic gneiss, siliceous	36 7627	58° 70°	<5 5 <5	1-3	<5	1.21	
50 Box 2	1		50 7628	65° +	5 <5			1.43	
60	3	med. grey thinly banded biotite-amphibole-graphitic gneiss 61'-8" core stolen	60 7629		10			2.80	
	2	med. grey and grey-green banded biotite-amphibole gneiss, graphitic		80°	5				
70	3	med. grey thinly banded biotite-amphibole-graphitic gneiss	70 7630	35° +	5-10 7-10			2.78	
Box 3 80	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss.	80		10-15				

DIAMOND DRILL CORE LOG

HOLE 85-40 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
80	2	IaG GRAPHITIC GNEISS (cont'd) med grey and grey-green banded gneiss	80		10-15	1-3	5		
Box 3	3	med grey thinly banded biotite-amphibole graphitic gneiss	7631		10				
90		gradational contact	90		Tr				
	11	90'-96 IaB BARREN GNEISS med. grey biotite-garnet gneiss		30°					
Box 4	P	96'-100.5' P PEGMATITE pink pegmatite Contacts 30° 70°		70°					
100	10	100.5'-129' IaB BARREN GNEISS leucocratic grey biotite-garnet gneiss 108' biot-amph concentration		10° 15°					
110		113.5-115' grey migmatite 115'-118' light grey thinly banded biotite garnet gneiss	110 7270 115	75°				0.318	
Box 5									
120	10	leucocratic grey banded biotite-garnet gneiss -minor amphibole bands, intermittent feldspar augen.		80°					
130	1	129'-139.5' IaG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amph-graphitic gneiss	129 7232 139.5		<5	1-2	Tr	1.938	
Box 6									
140	10	139.5'-157.5' IaB BARREN GNEISS pale to med. grey banded biotite-garnet gneiss with minor amphibole bands -intermittent feldspar augen		40°					
150				85°					
Box 7	10	156'-157.5' migmatite							
160	1	157.5'-168' IaG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amph graphitic gneiss -more siliceous than typical, 167'-168' IaBT	157.5 7233 168		<5	1-3	Tr		
170	10	168'-217' IaB BARREN GNEISS leucocratic biotite-garnet gneiss		80°					
Box 8		180' amphibole concentration		30°					
180									

DIAMOND DRILL CORE LOG

HOLE 85-40 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180 Box 8 190 Box 9	10	IaB BARREN GNEISS (cont'd) leucocratic biotite garnet gneiss -more siliceous than typical		35°					
200 210 Box 10	11 11	med. grey biotite-garnet-qtz-feldspathic gneiss -intermittent amphibole bands, and pink qtz-fs bands 206.5', 208.5' } green amphibole concentration		+ 75° + 35° 20°					
220	P	217'-222' P PEGMATITE pink K-feldspar, biotite, qtz, pyrite pegmatite 220.5'-221.5' lamprophyre dyke.		15°					
	2	222'-235' IaG GRAPHITIC GNEISS med grey-green banded amphibole biotite graphitic gneiss	222	45°	<5	1-3	5	0.878	
230 Box 11	3	med. grey-green finely banded amphibole-biotite-graphitic gneiss 228.5' chlorite 3" 233.5'-234' - pink biot-garnet gneiss IaB	7234 235	75°	5 Tr				
240	11	235'-258' IaB BARREN GNEISS med grey banded biotite-amphibole gneiss 235'-236.5' pink biotite-garnet gneiss IaB		75°					
250 Box 12	11 14	pale pink banded biotite-qtz-feldspathic gneiss 256.5'-258' migmatite.		+ +					
258'.		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-41 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED SEPT. 27, 1985 FINISHED SEPT. 28, 1985 TOTAL DEPTH 218'

LOCATION 27+50N 16+00E COLLAR ELEVN 946.31' BEDROCK ELEVN ~932.81'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT.% FLAKE
10		CASING 12'							
		BEDROCK							
Box 1	3	13.5'-92' IaG GRAPHITIC GNEISS dark grey finely banded biotite-amphibole graphitic gneiss. 19'-6" migmatite	13 7632		16-20 10 5-10	1-3	5	3.73	
20	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss	22	70° 15°	10				
30	3	dark grey-finely banded biotite-amphibole graphitic gneiss. 26' 4" carbonate cemented breccia. 26-29' core reduced in diameter by grinding.	7633		15 10				
Box 2 40	3		32 7634 42		5-10			2.83	
50 Box 3	11 M	42'-58.5 IaB BARREN GNEISS med. grey banded biotite-garnet gneiss - mauve garnets. 44-50' broken core 47.5'-49' grey migmatite 51-57.5' grey migmatite-biot-qtz-fs-garnet gneiss		80° 80° 25°					
60	2	58.5'-70' IaG GRAPHITIC GNEISS med grey and grey-green banded biotite-amph-graphitic gneiss. 59-59.5' IaBT 68.5'-69.5' pink pegmatite	59 7635 68	15° 70° 25°	5 10	1-3	5		
70 Box 4 80	10	70'-89.5' IaB BARREN GNEISS leucocratic banded biot-garnet-qtz-feldspathic gneiss - red and mauve garnets - minor variable amphibole content.		25° 0° 30° 40° 10° 80° 25°					

DIAMOND DRILL CORE LOG

HOLE 85-41 PAGE 2 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	10	<u>laB BARREN GNEISS (cont'd)</u> leucocratic banded biotite-garnet-gneiss -minor variable amphibole content 88' 4" laG		70°					
90 Box 5	1	<u>89.5'-97' laG GRAPHITIC GNEISS</u> pale grey and grey-green banded biotite-amphibole-gneiss, graphitic 91.5'-92.5' lamprophyre dyke.	7636	15° 90 58° 97	15 5	1-3 1-3	5	0.93	
100	10	<u>97'-102' laB BARREN GNEISS</u> leucocratic biot-garnet gneiss - minor muscovite.		25° 40°			<5		
110	1	<u>102'-113' laG GRAPHITIC GNEISS</u> pale grey and grey-green banded biotite-amphibole graphitic gneiss.	7637	100 75° 10° 113	5 <5 5	1-3	5		
Box 6 120	10	<u>113'-121' laB BARREN GNEISS</u> pale grey banded biotite-garnet gneiss		80°			<5		
	1	<u>121'-129' laG GRAPHITIC GNEISS</u> pale grey and grey-green banded biotite-amphibole-graphitic gneiss	7638	121 65° 129	5 10 5	1-3	5	1.20	
130 Box 7 140 150 Box 8 160 170 Box 9	10 10 10	<u>129'-177' laB BARREN GNEISS</u> leucocratic biotite-garnet-gneiss -minor amphibole bands ~134' 7" biotite concentration ~75' broken ground		40° 80° 40° 60° 80° 20° 25° 20° 50° 45° 75° 15° 15° 4					
180	1	<u>177'-194' laG GRAPHITIC GNEISS</u> 177'-178' laB 178.5' gouge <u>pale grey and grey-green banded biot-amph-graph-gneiss</u>	7235	177 10°	<5	1-3	5	1.48	

DIAMOND DRILL CORE LOG

HOLE 85-41 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
180 Box 9	1	1aG GRAPHITIC GNEISS (cont'd) pale grey and grey-green banded biotite-amphibole graphitic gneiss	7235 184		6 10	1-3	5	1.44%	
				75° 40°	5				
190 Box 10			7236 194	35° 25°	5-10 10				
10	M	194'-198.5' M MIGMATITE 196'-198' grey pegmatite and pink altered 1aB							
200	11	198.5'-218' 1aB BARREN GNEISS med. grey biotite-amphibole gneiss 198.5'-206' core broken horizontally 6 fractures/ft. 206.5'-208' sand seam and fault gouge		45°					
210 Box 11	10	leucocratic grey and pink banded biotite gneiss with minor amphibole -intermittent pink narrow migmatite bands and potassic alteration along healed fractures.							
	14	leucocratic pink banded biotite gneiss							
218'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-42 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED SEPT. 28, 85 FINISHED OCT. 5, 1985 TOTAL DEPTH 248'
LOCATION 28+00N 16+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 944.88'
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		COLLARED IN BEDROCK CASING 3'							
Box 1 10	1	3'-42' laG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amphibole-graphitic gneiss	3 7640 15	25° 15° 75°	<5	1-3	<5	1.80	
20					5				
		20'-~20.5' 8" migmatite		+					
Box 2	1		7641		>5	1-3	<5		
	2	med grey banded biotite-amph.-qtz-fs graphitic gneiss	30	75°	5		5		
30	3	med to dark grey finely banded biotite-amphibole graphitic gneiss	7642	20° 18°	5-10 10 5-10 10			3.55	
40			42						
Box 3	T	42'-45.5' laB_T TRANSITIONAL GNEISS med grey banded biotite-muscovite-garnet gneiss	7643	15°	Tr	Tr			
	2	45.5'-61' laG GRAPHITIC GNEISS med. grey banded biot-amph graphitic gneiss	50		5-10	1-3			
50	3	dark grey finely banded biotite-amph-graphitic gneiss 52-53' 1' med. grey banded gneiss ~58.5' 4" laB_T	7644 61		10 5-10 10-15 10 10-15 10	1-2		3.32	
60 Box 4	T	61'-65.5' laB_T TRANSITIONAL GNEISS med grey and brown banded biotite-muscovite-garnet-amphibole gneiss - mauve garnets 64.5'-4" laG	7645	20° 70°	Tr 10	1-3	<5		
70	2 T	65.5'-71' laG GRAPHITIC GNEISS med grey and grey green banded biotite-graphitic gneiss 70'-71' laB_T dark grey biot-musc gneiss	71	+ + +	5 Tr				
	11	71'-76' laB BARREN GNEISS med. grey biot-amph-garnet gneiss							
M 80 P	M/P	76'-82' M MIGMATITE & P PEGMATITE leucocratic migmatite and pegmatite in biot-garnet gneiss (laB)							

DIAMOND DRILL CORE LOG

HOLE 85-42 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	M/p	M/P MIGMATITE AND PEGMATITE (cont'd)		50° 75°					
Box 5 90	10	82'-93' laB BARREN GNEISS -light grey banded biotite-garnet gneiss with minor variable amphibole content 82'-84' laB$_T$ biot-musc gneiss		75° 50°					
	T	93'-95' laB$_T$ TRANSITIONAL GNEISS - light grey biot-musc-garnet gneiss	93		<5	1-3	<5		
100	2	95'-109' laG GRAPHITIC GNEISS - med. grey and grey-green banded biot-amph-graphitic gneiss - minor variable garnet content.	7646	75°	5			1.43	
Box 6	1	light grey and grey-green banded biot-amph-graphitic gneiss	109	80°	<5				
110	10	109'-141' laB BARREN GNEISS leucocratic biot-garnet gneiss with variable amphibole content.		25° 10° 75°					
120 Box 7 130	10			25° 25°					
140	10	140' - S-fold							
	M	141'-143' M MIGMATITE - med. grey migmatite.	142		<5	1-3	<5		
Box 8 150	1	143'-156' laG GRAPHITIC GNEISS - pale grey and grey-green banded biot-amph-graphitic gneiss - minor variable pink garnet content. 143'-144.5' med grey banded (unit 2)	7647		5 <5 5		5		
	1		156	80°	<5				
	M	156'-158' M MIGMATITE							
160 Box 9	10	158'-167' laB BARREN GNEISS pale grey banded biot-gneiss -minor variable garnet and amphibole concentrations contact 25°		80° 80° 25°					
170	P	167'-174' P PEGMATITE pink and pale green biot-qtz-fs pegmatite		60°					
Box 10 180	10	174'-183.5' laB BARREN GNEISS pale grey banded biotite gneiss - minor variable garnet and amphibole concentrations -		80°					

DIAMOND DRILL CORE LOG

HOLE 85-42 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
180	10	<u>laB BARREN GNEISS (cont'd)</u> ~180.5' 8" laG 5% graphite 182.5-183.5 laG 5% graphite		10°					
Box 10	M	<u>183.5'-186' M MIGMATITE</u> - pink and pale green migmatite							
10	P	<u>186'-189' P PEGMATITE</u> - pink-qtz-fs-biot pegmatite contact 90°		70° 48°					
190	2	<u>189'-201' laG GRAPHITIC GNEISS</u> med grey and grey-green banded biotite-amph-graphitic gneiss 196-200' altered laG - pale olive green epidote? chlorite alteration 196'-198' gauge	189 7648? 200	85° 65°	5 5 10 <5 5	1-3 1-3	5 5	1.40	
200 Box 11	M	<u>201-205.5' M MIGMATITE</u> -pale pink migmatite ~201' laBT							
11	10	<u>205.5-248' laB BARREN GNEISS</u> pale grey banded biotite-garnet gneiss		15°					
210 220 Box 12	11	med grey banded biotite-amphibole gneiss -minor variable garnet content		80°					
230	14	pale pink biotite-qtz-feldspathic gneiss		80°					
240 Box 13	10	pale grey biotite gneiss 240' 5" biot-amph concentration							
13	14	pale pink biotite gneiss							
248'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-43 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 6, 1985 FINISHED OCT. 8, 1985 TOTAL DEPTH 198'
LOCATION 27+50N 15+50E COLLAR ELEVN 944.88 BEDROCK ELEVN 921.38'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT.% FLAKE
10		ORGANIC DEBRIS							
20		PEGMATITE GNEISS BOULDERS							
Box 1	3	23.5'-27' laG GRAPHITIC GNEISS dark grey-green finely banded qtz-amph-fs-biot-graphitic gneiss	7649	23 27	5 5-10	1-3 1-4	3-5	1.86	
30	P	27'-30.5' P PEGMATITE white qtz-fs-biot. pegmatite w/ migmatite contacts 29.5'-30.5' unit 11 laB. gradational		80°					
	3	30.5'-53' laG GRAPHITIC GNEISS dark grey-grey green finely banded amph-biot-fs ± garnet graphitic gneiss. 36-37' sand seam 37'-37.5 white leucocratic pegmatite.	7649	31 70°	10 5 <5	2-4 1-3		1.85	
40 Box 2	2	med. grey banded biotite-amphibole graphitic gneiss 43.5'-44' unit laG-3 finely banded.	7650	40 85°	<5	1-3	5	1.55	
50	2	gradational.		53					
	10	53'-67' laB BARREN GNEISS leucocratic biotite-amph-gneiss ± red garnets gradational		65° 85°			2-3		
60 Box 3	11	med. grey amph-biot-garnet gneiss ± dark green amphibole 60.5-61' laB13 dark biot-amph gneiss.							
70	2	67'-73' laG GRAPHITIC GNEISS med grey banded biot-amph. graphitic gneiss 70.5'-71' laG3 - dark finely banded	7651	67 82°	5 <5	1-3	2-6 Tr Cpy		
	1	leucocratic.							
	T	73'-76' laBT TRANSITIONAL GNEISS leucocratic biot-musc-gneiss			5 <5	2-3 1-3	2-3		
	3	76'-77' laG GRAPHITIC GNEISS - dark finely banded amph-gneiss							
80	T	77'-82' laBT TRANSITIONAL GNEISS + laG GRAPHITIC GNEISS laBT and laG Interbanded.		85°	<5	2-3 1-3			

Box 4

82

DIAMOND DRILL CORE LOG

HOLE 85-43 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80	T	IaB$_T$ TRANSITIONAL GNEISS (cont'd) ~81' pegmatitic	7651 82		<5		2-4		
Box 4	10	82'-84' IaB BARREN GNEISS - pink leucocratic biot-garnet ± musc gneiss alteration							
		84'-93' L LAMPROPHYRE DYKE		15°					
	L	melanocratic massive, porphyritic lamprophyre dyke.							
90		~92' fault							
		93'-123.5' IaG GRAPHITIC GNEISS	93	45°	<5	1-3	2-5		
	2	med. grey biotite amphibole graphitic gneiss ~95-96' pink pegmatite 96.5-97.5' quartz vein 70° to C/A		70° 70°					
100	3	dark grey finely banded biot-amph-graphitic gneiss	7652		5-10 <5			1.95	
Box 5		med grey banded biotite-amphibole graphitic gneiss							
	2	101-102' garnets, transitional gneiss.	108	85°					
110					5				
	1	leucocratic biot-amph graphitic gneiss with moderate qtz-fs migmatization	7653	70°	<5				
	2	med. grey banded ~119.5' pegmatite qtz vein.							
120	3	dark grey finely banded 122.5' fault 123-123.5' med grey banded IaB$_T$	123						
Box 6	T 11	123.5'-151.5' IaB BARREN GNEISS		86°			1-5		
		med. grey biotite-garnet ± sillimanite gneiss		10°					
130		131-132' IaB$_T$			Tr	1			
	T	134' sillimanite?							
	11			85°					
140									
Box 7	10	leucocratic to med grey biotite garnet ± amph. gneiss							
150	11 T	med. grey with dark green biotite ± amph. gneiss 150.5'-151.5' IaB$_T$ med. grey biot-amph ± musc.	150		<5	1-3	3-5		
	2	151.5'-166.5' IaG GRAPHITIC GNEISS			6				
		med to dark grey finely to moderately banded biotite-amphibole graphitic gneiss 150'-154' broken core	7654	70°	5 5-10 <5			2.91	
160				40°	T				
Box 8	2	165.5'-166.5' IaB$_T$ biot-amph-garnet-sillimanite gneiss	165	80°		1-2			
	12 T	166.5'-198' IaB BARREN GNEISS		35°	++	++			
170	11	med grey fine to mod. banded, fine grained gneiss		40°			0-2		
		166.5'-168' dark biot-garnet gneiss			Tr	1-2			
		168'-169.2' leucocratic pink and white pegmatite dyke							
Box 9		171.5'-172.5' quartz vein with trace graphite							
180	11	175'-175.5' pink pegmatite							

DIAMOND DRILL CORE LOG

HOLE 85-43 PAGE 3 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	11	laB BARREN GNEISS (cont'd)		80°			Tr-2		
	14	pink leucocratic biotite-garnet gneiss					Tr		
	11	med. grey biot-amph ± garnet gneiss					Tr-2		
190		pink leucocratic biot-garnet gneiss		85°			Tr-1		
	14	~189' fault at 85° to c/A		85°					
198'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-44 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED OCT. 8, 1985 FINISHED OCT. 9, 1985 TOTAL DEPTH 238'
LOCATION 27+00N 16+50E COLLAR ELEVN 945.71' BEDROCK ELEVN 921.21'
ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT/L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		20' CASING							
10									
20		BEGINNING OF CORE							
Box 1		BEDROCK							
	2	<u>24.5'-26.5 IaG GRAPHITIC GNEISS</u> med grey and grey-green banded biotite-amphibole graphitic gneiss - pink potassic alteration next to lamp. dyke		5°	<5	1-3	<5		
30	L	<u>26.5'-34' L LAMPROPHYRE DYKE</u> dark green lamprophyre dyke, contacts 5°-upper, 10° lower.							
	2	<u>34'-73' IaG GRAPHITIC GNEISS</u> med grey- and grey-green banded biotite - amphibole graphitic gneiss -feldspathic bands show potassic alteration.	33 7655 46	10° 75°	<5 5 <5 5 <5	1-3	5		
40 Box 2									
50	2		7656	30°	5			2.18	
	3	med. grey finely banded biot-amph graphitic gneiss	57	75°	<5				
60 Box 3	3			50° 10°	5 10 5				
70	3	dark grey-green finely banded biot-amph graph. gneiss ~64' 4cm lamprophyre dyke 65' gouge 71.5'-73' IaB$_T$ - biot-musc-ampl-garnet gneiss	7657 73	+	10 5-10 5				
	M	<u>73'-75' M MIGMATITE</u> pink and white qtz-fs-biot migmatite		40°					
Box 4 80	11	<u>75'-80' IaB BARREN GNEISS</u> med grey banded biot-garnet-amph gneiss variable amphibole content.		35° 25° 70°					

DIAMOND DRILL CORE LOG

HOLE 85-44 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80	2	80'-82.5' laG GRAPHITIC GNEISS - med to fine grained grey and green banded gneiss - low to mod. K-alteration assoc. w/ pegmatite.	7658 81-83		<5 5 <5	1-3	5	2.38	
Box 4	10	82.5'-88.5' laB BARREN GNEISS ~82'-82.5 pegmatite med to light grey biotite-garnet gneiss 87'-88' potassic alt. 88'-88.5' pegmatite w/k-alt		+ +			0-2		
90	T	laB$_T$ 88.5'-90.5' TRANSITIONAL GNEISS - leucocratic coarse grained biot-musc-amph-garnet gneiss.	89		<5	1-2	2-4	2.38	
	3	90.5'-106.5' laG GRAPHITIC GNEISS med. grey finely banded biot-amph graphitic gneiss	7658 95		5 10	1-4	5		
		leucocratic grey & green banded biot-amph graphitic gneiss		75°	<5	1-3			
100 Box 5	1	100.5'-101.5' pink pegmatite	7659 107	70° 80°	5 <5				
	T	106.5'-108' laB$_T$ TRANSITIONAL GNEISS			Tr	1-2	2-4		
110	12	108'-117.5' laB BARREN GNEISS dark grey biotite-garnet gneiss 115'-116' pink pegmatite		80° +			2		
120 Box 6	1	117.5'-131.5' laG GRAPHITIC GNEISS pale grey banded med. grained biotite-amphibole graphitic gneiss	117 7660		<5 5	1-3	5	1.95	
	2	med grey and green banded biot-amph-graph gneiss	129		<5				
130	1	pale grey cont'd. 129-130, 130.5-131 Granulite: biot-garnet-amph 131'-131.5 - laB barren gneiss			Tr				
	L	131.5'-137' L LAMPROPHYRE DYKE dark green massive porphyritic lamprophyre dyke contacts 18° to c/a		18°			5-10		
140 Box 7	10	137'-185.5' laB BARREN GNEISS leucocratic biotite ± garnet gneiss 140'-157' low to mod. potassic alteration		18° 80° 20° 20°			<2		
150		~145'-148' bleaching along joints 90° to gneissosity 151'-158' intense potassic alteration pink migmatite							
	10			+					
160 Box 8		158'-180' low to mod. potassic alteration 169.5'-170.5' high potassic alteration pink migmatite							
170				+ 85°					
Box 9 180	10								

DIAMOND DRILL CORE LOG

HOLE 85-44 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 9	11	laB BARREN GNEISS (cont'd) med grey biotite garnet gneiss -red garnets 83-84' broken core 84-85.5' lost core		80° 10° 10°					
	2	185.5'-188.5' laG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph-graphitic gneiss	185 7661 189	15°	5	1-3	<5	1.77	
190	L	188.5'-193.5' L LAMPROPHYRE DYKE contact 40° dark green lamprophyre dyke, faulted contacts contact 5°-10°, calcite		40° 5°-10°					
Box 10	3	1935'-208.5' laG GRAPHITIC GNEISS altered med grey finely banded biotite-amph-graph-gneiss	193 7661 199		10 5	1-3	<5	1.77	
200	3	-pink potassic alteration in matrix and on fractures ~203'-204' white pegmatite, fault bounded w/ calcite veining	7662 209	75° 80°	<5 10 6 <5	1-3	3-5	2.06	
210	10	208.5'-238' laB BARREN GNEISS leucocratic biotite-garnet gneiss -some pink potassic alteration 208.5'-209' laB_T							
Box 11 220	11	med. grey biot-amph gneiss		25° 80° 20° 10° 10°					
230 Box 12	14	leucocratic biot-gneiss, pink potassic alteration parallel to foliation and fractures - minor variable amphibole content 234'-235.5' med grey biot. gneiss pink leucocratic biot-garnet gneiss, minor variable amph.		80°					
238'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-45 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 9, 1985 FINISHED OCT. 11, 1985 TOTAL DEPTH 219'

LOCATION 27+00N 16+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 935.88'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT / L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
		BEDROCK							
10 Box 1	1	9'-53' laG GRAPHITIC GNEISS pale grey and grey-green banded biotite-amph-graphitic gneiss. -minor variable pale pink garnet concentrations	9 7663 20	75° 75°	<5 5 <5	1-3	<5	0.957	
20	1		7664 30		5 5-10 5		5	1.66	
30 Box 2 40	2	med grey and grey green banded graphitic gneiss ~41' 7" pink & green migmatite	7665 42	+	<5 10 10-15 10 5-10 10				
	3	med to dark grey-green finely banded graphitic gneiss	7666 52	80° 50° 60°	10-15 10			3.04	
50 Box 3 60	T	53'-63' laB_T TRANSITIONAL GNEISS 53'-54' pale grey-green migmatite med. grey banded biotite-muscovite gneiss .-minor variable mauve garnet content. green alteration along fractures. 60'-63' broken core	7237 63	Δ 60° Δ	Tr 5-10		<5		
	3	63'-82.5' laG GRAPHITIC GNEISS 63'-69' 6' of broken ground. med. grey finely banded graphitic gneiss	69	Δ Δ Δ Δ Δ Δ					
70 Box 4 80	1	leucocratic grey and grey-green banded biotite-amph.-gneiss -minor variable garnet content	7667 81	20°	10 5-10 5 10	1-2 1-3	5 <5		

DIAMOND DRILL CORE LOG

HOLE 85-45 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80 Box 4	1	1aG GRAPHITIC GNEISS (Cont'd) -leucocratic grey to grey-green banded biot ± amph- graphitic gneiss	81		10 <5	1-4	5-10		
	T	82.5'-85' 1aBT TRANSITIONAL GNEISS -leucocratic banded biot- musc gneiss		75°					
90	P	85'-92.5' P PEGMATITE white green pegmatite - coarse grained qtz-fs biot- and pyrit pegmatite 91'-91.5' leucocratic grey and green banded gneiss gradational		50°			5		
Box 5	1	92.5'-97.5' 1aG GRAPHITIC GNEISS leucocratic to med. grey and green, banded biot-amph graphitic gneiss 94'-96' pale green pegmatitic alteration	92.5 7238		5 <5	1-3			
100	T	97.5-101' 1aBT TRANSITIONAL GNEISS - pale green pegmatitic alteration	101		Tr	1-2	2-4		
110 Box 6	10	101'-115' 1aB BARREN GNEISS leucocratic biot - garnet gneiss 106.5'-107' ~109' } metaamphibolite (B) - melanocratic biot-amph schist.		90°			2		
120	2 1	115'-128.5' 1aG GRAPHITIC GNEISS med. grey med. to fine grained biot- amph. graphitic gneiss 116'-117' pale green peg. dyke 117-120' random alteration leucocratic grey and green banded gneiss	115 7239 129	90° 70°	<5 <5	1-3 1-3	~2	1.328	
130	10	128.5'-131' 1aB BARREN GNEISS - leucocratic biot- garnet gneiss	7361				<2	0.308	
Box 7 140	1 3	131'-144' 1aG GRAPHITIC GNEISS leucocratic green and grey banded biot- amph. graphitic gneis fine grained biot- amph graphitic gneiss gradational	131 7668 142		<5 10 <5 5 <5 5 <5	1-2	1-3 3	1.57	
150 Box 8 160	10	144'-162' 1aB BARREN GNEISS leucocratic biot- garnet gneiss 155.5'-158' pink pegmatite and altered gneiss ~160 altered P 160.5'-162' pink pegmatite dyke.		90° 70°			<2		
	3	162'-166' 1aG GRAPHITIC GNEISS med. grey finely to moderately banded biot- amph graph. gneiss	162 7240 166	45° 45°	<5	1-2	5	0.3426	
	P	166'-169.5' P PEGMATITE greenish white coarse qtz-feldspathic dyke.		45°					
170	3	169.5'-171' 1aG GRAPHITIC GNEISS (cont'd)	7240 169.5 171	45°	Tr	1-3	5		
Box 9	T	171'-173' 1aBT TRANSITIONAL GNEISS - transitional and altered gneis							
	10	173'-175.5' 1aB BARREN GNEISS leucocratic biot- garnet ± amph gneiss		80°					
	M	175.5'-178' M MIGMATITE white migmatite associated with pegmatite							
180	10	178'-180' 1aB BARREN GNEISS - leucocratic biot- garnet ± amph. gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-45 PAGE 3 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	M	180'-181.5' M MIGMATITE (cont'd)							
Box 9	11	181.5'-219' IaB BARREN GNEISS med. grey biotite-amphibole gneiss -dark. green amphiboles		75° 20° 20°					
190	11			70°					
Box 10	14	pale pink and grey leucocratic biotite-garnet gneiss 194.5'-196' pink migmatite							
200	10	leucocratic grey and pink banded biotite gneiss -variable dark green amphibole content.							
210 Box 11	10								
	14	pink leucocratic biotite gneiss.							
219'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-46 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 13, 1985 FINISHED OCT. 14, 1985 TOTAL DEPTH 199'

LOCATION 27+00N 15+50E COLLAR ELEVN 944.88 BEDROCK ELEVN 906.38'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT / L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
		CASING 37'							
10									
20									
30									
		BEGINNING OF CORE							
Box 1		BEDROCK							
40	T	38.5'-41' laB_T TRANSITIONAL GNEISS – med grey banded biot-musc-garnet gneiss		75°					
	3	41'-46.5' laG GRAPHITIC GNEISS med to dark grey-green finely banded biot-amph. graphitic gneiss	7669	40 20° 0°	10	1-2	5-10	1.91	
	M	46.5'-48' M MIGMATITE white and pale green qtz-fs-biot migmatite;- fractured core.		15°					
50	3	48'-121.5' laG GRAPHITIC GNEISS med to dark grey green finely banded graphitic gneiss		50	5-10	1-3	5+		
	2	med grey and green banded biotite-amphibole graphitic gneiss	7670	80°	5 <5 5			1.50	
Box 2 60		~58' 6" laB_T		60					
	2		7671		5-10				
	1	leucocratic biot-amph gneiss, grey and grey-green banded.			5				
70	2	med. grey and grey-green banded biot-amph graphitic gneiss		70	10 10-15				
Box 3			7672	75° 30°	10			2.59	
80	2			80 25°	10-15				

DIAMOND DRILL CORE LOG

HOLE 85-46 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	2	<u>IaG GRAPHITIC GNEISS (cont'd)</u> med grey and grey-green banded biot-amph. gneiss ~86' 6" migmatite	80 7673	45° 45° 25° 50°	10 5-10 5 10	1-3	5		
90	3	med. grey-green finely banded biot-amph gneiss 6" green finely banded @ ~89'	90						
	2	med grey and grey-green banded biot-amph graphitic gneiss			5-10				
Box 4 100	1	pale grey leucocratic biot-amph graphitic gneiss ~96' pegmatite ~98.5'-99.5' unit IaB10	7674 100	75°	<5 5-10 <5	1-4		1.90	
	3	grey finely banded gneiss ~106'-108' pegmatite and sweats	7675 110	45° 90°	10 <5 10-15 <5 10-15				
110 Box 5 120	1 1	pale leucocratic biotite-amphibole-graphitic gneiss	7676 122	75°	<5 5 10 6 <5			1.57	
130 Box 6	11 10 10	<u>121.5'-140' IaB BARREN GNEISS</u> pale biotite amphibole gneiss leucocratic grey biotite garnet gneiss 137'-140' pale white pegmatite gneiss Zones with med. grey and green banded graphitic gneiss		90° 85°	<5	1-4	Tr		
140	2	<u>140'-148' IaG GRAPHITIC GNEISS</u> med. grey banded biotite-amphibole graphitic gneiss	140 7241	90°	<5	1-4		2.318	
	1	pale grey leucocratic graphitic gneiss 146.5'-148' IaBT	148						
150 Box 7	10	<u>148'-199' IaB BARREN GNEISS</u> pale leucocratic qtz-garnet-biot. gneiss 150.5'-151.5' amphibole gneiss segregations? contact 65°		65° 80°					
160	11 11	leucocratic biotite ± garnet ± amphibole gneiss contact 90°	90% recovery	90°					
170	14	pink migmatitic leucocratic biotite-garnet gneiss 167.5'-168.5' grey biotitic							
Box 8 180	14	interbanded pink and grey biotite-garnet gneiss - migmatite		80°					

DIAMOND DRILL CORE LOG

HOLE 85-46 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 8	14	laB BARREN GNEISS (cont'd) interbanded pink migmatite and grey gneiss		90°					
		gradational							
190		grey biotite gneiss							
Box 9		pink and grey interbanded		90°					
		gradational							
	14	pink leucocratic biotite-garnet gneiss							
199'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-47 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE

STARTED OCT. 16, 1985 FINISHED OCT. 16, 1985 TOTAL DEPTH 158'

LOCATION 27+00 N 15+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 915.88'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C(G)	WT % FLAKE
10 20		CASING 29' BEDROCK		15°					
30 Box 1	T	29'-34' laB_T TRANSITIONAL GNEISS med grey banded biotite-muscovite gneiss		75°			<5		
	3	34'-38.5' laG GRAPHITIC GNEISS med grey green finely banded biot-amph graphitic gneiss gradational	34	30°	5	1-2			
40	T	38.5'-48' laB_T TRANSITIONAL GNEISS med. grey banded biotite-garnet-sillimanite? gneiss -1-3 mm mauve garnets -grey brown and blue green banding -graphitic	7677 48	35° 75°	Tr 5			1.15	
50 Box 2	3	48'-65' laG GRAPHITIC GNEISS med. grey finely banded biotite amphibole gneiss -graphitic	50 7678	75°	5 5-10			2.97	
60	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss.	60 7679		5	1-3			
	T	65'-70' laB_T TRANSITIONAL GNEISS med. brown and blue green banded biotite-amph-garnet-sillimanite gneiss 65'-67' looks like laB_T but no musc.	70	35° 30°	10 5				
70 Box 3	2	70'-88' laG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph graphitic gneiss		80°	15				
	3	med. grey finely banded biot-amph-graphitic gneiss	7680		10 15	1-2		3.15	
80	2	med grey and grey-green banded biot-amph graphitic gneiss	80		5	1-3			

DIAMOND DRILL CORE LOG

HOLE 85-47 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
80 Box 3	2	IaG GRAPHITIC GNEISS (cont'd) med grey and grey green banded biotite-amphibole graphitic gneiss.	80 7681	28° 15°	<5 10	1-3	5		
90	T	88'-90.5' IaB$_T$ TRANSITIONAL GNEISS - biotite-amphibole-sillimanite gneiss	90		5-10	1-2			
Box 4 100	3 3	90.5'-106' IaG GRAPHITIC GNEISS med grey finely banded biotite-amphibole graphitic gneiss - minor med. grey and grey green banded interbands 96'-97' unit IaB$_T$	7682 103	65°	10			2.71	
110	T	106'-113' IaB$_T$ TRANSITIONAL GNEISS med. brown and blue-green banded biotite-sillimanite gneiss	7683 113	80° +	5	1-4			
Box 5 120	2	113'-124' IaG GRAPHITIC GNEISS med grey and grey green banded biotite-amphibole-graphitic gneiss 116'-117' broken ground, fault.	7684 124	45° 10° 15° 50° 45° 40°	5-10 <25 5-10 10-15 5-10			2.90	
Box 6	P	124'-128' P PEGMATITE pink feldspar-qtz-biotite pegmatite gradational		+ + + +					
130	10	128'-158' IaB BARREN GNEISS - leucocratic biotite-garnet gneiss (bleached)							
140	11	med grey biotite-amphibole gneiss - dark green amphiboles and black biotite							
Box 7 150	14	pale pink biotite-amphibole gneiss		75°					
158'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-48 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 15, 1985 FINISHED OCT 16, 1985 TOTAL DEPTH 147'

LOCATION 27+25N 17+00E COLLAR ELEVN 956.88' BEDROCK ELEVN 917.38

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
10									
20									
30		OVERBURDEN - BOULDERS	39						
40	1	<u>39.5'– 85.5' 1aG GRAPHITIC GNEISS</u> leucocratic grey and green banded bioti-amphibole ± garnet graphitic gneiss			<5	1-3	2-4		
Box 1	2	gradational med. to pale grey and green banded graphitic gneiss	7685	80°	5 <5				
50			50		5		5		
			7686	+	5-10 <5				
60	2	~55.5' pink and green migmatite	60		5				
Box 2		66.5'-67.5' dark grey finely banded gneiss (unit 3)	7687		5-10 5				
70			70		5-10 5				
			7688	85°					
Box 3 80	2		80		10-15				

DIAMOND DRILL CORE LOG

HOLE 85-48 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 3	2	1aG GRAPHITIC GNEISS (cont'd) gradational over 3'	80 7689	15° 40°	10 10-15	1-3	3-5		
	T	85.5'-91' 1aB$_T$ TRANSITIONAL GNEISS gradational		85°	<5 10 5				
90	2	91'-100' 1aG GRAPHITIC GNEISS med. grey and green banded biotite-amph-graphitic gneiss - contains some 1aB$_T$ 93'-95' interbanded w/dark green finely banded gneiss (unit 3) 95-105' green & white calcite & pyrite lined fractures T 99'-100' unit 1aB$_T$	90 7690 100	70° 20° 90° 5°	10-15 5-10 <5				
100 Box 4	10	100'-110' 1aB BARREN GNEISS gradational leucocratic biotite-amphibole ± garnet gneiss -mauve garnets 107'-108' migmatite					2-3		
110	T	110'-113' 1aB$_T$ TRASITIONAL GNEISS	110		<5 5		2-5		
	1	113'-118' 1aG GRAPHITIC GNEISS leucocratic grey and green banded brown biotite-amph-graphitic gneiss	7242		<5			1.716	
120	T	118'-123' 1aB$_T$ TRANSITIONAL GNEISS interbanded transitional and leucocratic graphitic gneiss ~122' green calcite fracture fillings @ euhedral Py.	123	85° 25°	T				
Box 5 130	10	123'-147' 1aB BARREN GNEISS - leucocratic biotite ± amphibole ± garnet gneiss red garnet, black biotite - minor random migmatitic segregations ~129' muscovite pegmatite filled fracture, 25° to C/A		75° 25° 50° 70°			<2		
140 Box 6	10	143'-144' broken core, calcite fracture filling.		20° 10° 80°					
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-49 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 18, 1985 FINISHED OCT. 18, 1985 TOTAL DEPTH 147'

LOCATION 27+25 N 16+75 E COLLAR ELEVN 959.96' BEDROCK ELEVN 920.46'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT. % FLAKE
10 20 30		OVERBURDEN 39.5' – BOULDERS							
40 Box 1	1	<u>39.5'-85' 1aG GRAPHITIC GNEISS</u> leucocratic to med. grey and green banded biotite-amphibole graphitic gneiss.	7691	39 85° 85° 70° 50	5	1-3	5		
50		52.5'-53.5' med grey banded gneiss	7692	60	5-10 5				
60 Box 2	1		7693	69	5-10 5		5-10 5		
70	2	med. grey biotite-amphibole graphitic gneiss 72'-72.5' white green pegmatite 75.5'-76', 77'-77.5' } dark fine grained gneiss ~77.5' qtz vein	7694	75° 75° 80° 75° 80	15 5 10-15 5 5-10 15 10				
Box 3 80	2								

DIAMOND DRILL CORE LOG

HOLE 85-49 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	2	IaG GRAPHITIC GNEISS (Cont'd) med grey biot-amph. graphitic gneiss 81'-81.5' IaB$_T$ gradational	80 7695	90°	10 5-10	1-3	5		
90	T	85'-95' IaB$_T$ TRANSITIONAL GNEISS leucocratic white and brown banded biotite-garnet-sillimanite-muscovite gneiss - mauve garnets ~92'-95' green and white calcite lined fractures	90 S.7243 95	60° 75°	<5			0.703	
100 Box 4 110	10 10	95'-114.5' IaB BARREN GNEISS leucocratic biotite ± garnet ± amphibole gneiss ± muscovite - mauve to red garnets ~100'-101' amphibole-biotite concentration ~114' unit IaB$_T$		80° 80° 35° 85°			2-3		
	1	114.5'-117.5' IaG GRAPHITIC GNEISS contact 85° - leucocratic grey and green banded biotite graphitic gneiss	115 7244	85°	5-10	1-3	2-5	1.282	
	T	117.5-118.5' IaB$_T$ TRANSITIONAL GNEISS	119		<5	1-4	2		
120 Box 5 130 Box 6 140	10 10	118.5'-143.5' IaB BARREN GNEISS leucocratic biotite-garnet gneiss - biotite-garnet clots - trace muscovite 121'-121.5' amphibole concentration 137.5'-138.5' white qtz-feldspathic segregations 142.5'-143.5' unit IaB$_T$		75° 70° 70° 75°	≤5	1-3			
	1	143.5'-147' IaG GRAPHITIC GNEISS 143.5'-144.5' dark finely banded leucocratic grey & green banded biot-amph gneiss	143 7245 147	71°	5		2-4	1.618	
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-50 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 17, 1985 FINISHED OCT. 18, 1985 TOTAL DEPTH 168'

LOCATION 27+00N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 909.88'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C (G)	WT. % FLAKE
10									
20									
30		CORE BEGINS							
Box 1		BEDROCK							
	P	35'-37' P PEGMATITE - pale pink biot-musc-qtz-fs pegmatite.		+ +					
	T	37'-48.5' laB_T TRANSITIONAL GNEISS		60°					
40		med. brown & blue-green banded biotite-garnet-sillimanite gneiss	40	30°	10	1-3	5		
				60° 60°	1				
		- mauve colored garnets.	7696		5	1-3	5	1,23	
					Tr				
	T		48	50°					
50	2	48.5'-55.5' laG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph graphitic gneiss			10	1-3	<5		
Box 2	3	med grey finely banded biot-amph-graphitic gneiss	7697	70° 55°		1-2			
	T	55.5'-59' laB_T TRANSITIONAL GNEISS med brown and blue-green banded biot-musc-amph-gneiss		45°		1-3			
60	3	59'-93.5' laG GRAPHITIC GNEISS, med. grey finely banded.	60	75°	5-10				
	2	med grey and grey-green banded biot-amph-graphitic gneiss 65.5'-66.5' qtz.	7698	40° 60°	10			2,55	
70 Box 3			70		10-15				
	2			30°	10				
	3	med. grey finely banded biot-amph-graphitic gneiss	7699	30°					
80	2	med. grey and grey-green banded biot-amph. graphitic gneiss	80						

DIAMOND DRILL CORE LOG

HOLE 85-50 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 3	2	laG GRAPHITIC GNEISS (cont'd) med grey and grey-green banded biotite-amphibole-graphitic gneiss	80 7700	25° 50° 50°	10	1-3	<5	3.00	
90 Box 4	2	86'-87' broken core.	94	70°					
	10	93.5'-125 laB BARREN GNEISS leucocratic grey biotite-garnet gneiss 96.5-97.5' pale pink pegmatite		++					
100	11	med. grey biotite-amphibole gneiss							
	10	leucocratic biot-amph-gneiss							
110 Box 5	14	leucocratic pink biotite gneiss - Potassic alteration							
	11	med grey banded biotite-amph-gneiss							
120	14/11	med. pink and grey banded biotite-amphibole gneiss - potassic metasomatism?							
	P	125'-135.5 P PEGMATITE pink pegmatite dyke		+++++++++					
130	P								
Box 6	13	135.5'-168' laB BARREN GNEISS dark biotite-amphibole gneiss							
140		135.5'-140' potassic alteration and migmatization							
Box 7									
150									
160									
Box 8	13		contact	~60°					
	14	pink migmatized leucocratic biotite-garnet gneiss							
168'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-51 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 18, 1985 FINISHED OCT. 18, 1985 TOTAL DEPTH 147'

LOCATION 27+25N 16+50E COLLAR ELEVN 958.48' BEDROCK ELEVN 937.98'

ANGLE -90° AZIMUTH —— LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT. % FLAKE
10 20		OVERBURDEN							
Box 1 30	1	20.5'-70' 1aG GRAPHITIC GNEISS leucocratic grey to grey and green banded biotite-amphibole graphitic gneiss - rare trace muscovite	20.5 7070 31	80° 5-10°	<5 5 5-10 5	1-3	2-5	1.23	
40	1		7071 41	65° 75°	5-10 <5 5-10 10			3.25	
Box 2 50	1		7072 51		5-10 <5 10-15 15 10			2.83	
60		55-56.5' 5% mauve garnets	7073 61	85°	5-10 5 5-10 5			2.94	
Box 3	1		7074	90°	5-10			2.63	
	3	dark grey finely banded graphitic gneiss			15	1-2	5-10		
70	1	pale to med. grey banded biotite-amph graphitic gneiss	71		5 10				
	T	70'-72.5' 1aBT TRANSITIONAL GNEISS biot-musc-garnet gneiss	7075		<5			2.96	
	2	72.5'-80' 1aG GRAPHITIC GNEISS med grey and green banded biotite-amphibole graphitic gneiss			5-10 10-15				
Box 4 80	2	72.5'-73.5', 75'-75.5' - dark grey banded gneiss.	80		10				

DIAMOND DRILL CORE LOG

HOLE 85-51 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	T	80'-85' laB$_T$ TRANSITIONAL GNEISS biotite-musc-garnet gneiss	80 7076		Tr	1-3	5	2.35	
	3	85-87' laG GRAPHITIC GNEISS - dark grey finely banded graphitic gneiss ~87' unit laB$_T$	87	80-85°	15-20 <5	1-2			
90	10	87'-93' laB BARREN GNEISS leucocratic biotite amphibole garnet gneiss 92'-94' broken core		90° 50° 70°			<5		
	L	93'-97' L LAMPROPHYRE dark green fine grained massive lamprophyre dyke 95' - carbonate veining 30° to C/A		Δ 30°			5		
Box 5	10	97'-99' laB BARREN GNEISS - light grey biot-garnet gneiss 97'-98' broken core	laB$_T$ at contact	30° Δ			1		
100	3	99'-101' laG GRAPHITIC GNEISS - dark grey finely banded graphitic gneiss-bi-amph.		75°	10	1-2	5		
	T	101'-107.5' laB$_T$ TRANSITIONAL GNEISS leucocratic black banded biot-garnet amph ± sillimanite gneiss 101', 102', 106', 108' - small lamprophyre dykes		20° 10° 60°			2-4		
110	10	107.5'-116' laB BARREN GNEISS leucocratic biotite garnet ± amphibole gneiss ~109' leucocratic migmatite gradational		70° 75° 80°					
Box 6	T	116'-117.5' laB$_T$ TRANSITIONAL GNEISS							
120	2	117.5-126' laG GRAPHITIC GNEISS med grey, med to finely banded graphitic gneiss 119' - 8" qtz vein	118 7246		5-10	1-3	5	0.7393	
	1	leucocratic biot-amph graphitic gneiss 122-126' pervasive potassic alteration and migmatization	126	75°	Tr				
130	L	126'-131' L LAMPROPHYRE dark green massive lamprophyre dyke. -late stage carbonate veining 20° to C/A		25°			5-10		
Box 7	T	131'-136' laB$_T$ TRANSITIONAL GNEISS leucocratic biotite-amphibole ± muscovite gneiss with pervasive potassic alteration & migmatization	131 7247	15°	Tr	1-3		0.637	
140	1	136'-147' laG GRAPHITIC GNEISS	138		5	1-4			
	1	leucocratic biotite-amphibole graphitic gneiss	7248 147	85°	<5			1.697	
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-52 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 18, 1985 FINISHED OCT. 18, 1985 TOTAL DEPTH 147'

LOCATION 27+25N 16+25E COLLAR ELEVN. 951.37' BEDROCK ELEVN. 941.37'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
		SURFACE							
		OVERBURDEN							
10 Box 1	1	10'-30.5' 1aG GRAPHITIC GNEISS leucocratic grey to grey-green banded biotite-amphibole-graphitic gneiss	10 7077 20	80°	<5	1-4	2.5	1.07	
20	1		7078 30.5	75°				1.45	
30 Box 2	P	30.5'-34.5' P PEGMATITE white, pink and pale green pegmatite dyke.		80°			2		
40	2	34.5'-70' 1aG GRAPHITIC GNEISS med. grey to grey-green banded biotite-amphibole graphitic gneiss -random migmatitic and pegmatitic bands 38.5'-39.5' pink pegmatite and migmatite	34.5 7079 45	45° 85° 55° 55°	10 5 Tr 5 5-10 10	1-4	~5	2.42	
50	2	49'-51' 1aBT leucocratic biotite-amphibole-muscovite gneiss with mauve garnets	7080 55	75° 80°	10-15 <5 5-10 10-15	1-3	5	3.19	
60 Box 3	2/3	med. grey to grey-green finely banded biotite-amphibole graphitic gneiss. 61.5'-62.5' 65'-66' } unit 1aBT	7081 65	75°	15 5 5-10 10 <5 5-10			2.70	
70 Box 4	2/3	gradational	7082 72	75°	<5 5-10 <5	2-4 1-3 1-4		1.67	
	T	70'-78' 1aBT TRANSITIONAL GNEISS leucocratic biotite-amphibole gneiss -often migmatitic ~70.5'-71' gh sweat		65°					
80	3	78'-82' 1aG GRAPHITIC GNEISS - dark green-grey amph-graphite biotite gneiss.	7083 78	85°	20	1-3		1.59	

DIAMOND DRILL CORE LOG

HOLE 85-52 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	3	laG GRAPHITIC GNEISS (cont'd)	7083	70°	10	1-3	<3	1.59	
		82'-90' laB$_T$ TRANSITIONAL GNEISS	84		<5	1-4			
Box 5	T	leucocratic biotite-amphibole-garnet gneiss -mauve garnets -Trace muscovite -migmatitic gradational		65°					
90					Tr 5	1-3			
	2	90'-106' laG GRAPHITIC GNEISS med. grey to grey-green banded biotite amphibole gneiss -graphitic gradational	90		5-10		5-10		
100	1	leucocratic grey to grey-green banded biotite-amph-graphitic gneiss	7084 106		<5 5 <5	1-4		2.07	
Box 6 110	10	106'-120' laB BARREN GNEISS leucocratic biotite ± garnet ± amphibole gneiss 106'-106.5' unit laB$_T$ 114.5'-115' pink pegmatite 115'-117' large red garnets and migmatite		65°			<3		
120	10 1	120'-143' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite-amphibole-graphitic gneiss	120 7249 127.5		<5 Tr	1-3	5		
Box 7	10	127.5'-129.5' unit laB$_{10}$ leucocratic biot-garnet gneiss					<3		
130 140	1	131', 133', 140'-141.5' - pale pink grey pegmatite and migmatite	7250 143	65°	<5 5 5	1-3 1-3	5 <5 5		
	10	143'-145' laB BARREN GNEISS - leucocratic grey biot-garnet gneiss		40°			<3		
Box 8	T	145'-147' laB$_T$ TRANSITIONAL GNEISS 146'-pink pegmatite		75°					
147'		END OF HOLE		65°					

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-53 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 19, 1985 FINISHED OCT. 21, 1985 TOTAL DEPTH 198'
LOCATION 27+00N 14+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 911.38'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		SURFACE							
10									
		NUSKEG							
20									
30 Box 1		BOULDERS OVERBURDEN							
	2	33.5'-69' IaG GRAPHITIC GNEISS	34		5-10	1-3	5		
		Med grey to grey and green banded biotite-amphibole gneiss, graphitic		75°					
		-minor pink and pale green migmatitic segregation	6901						
40		-Shears parallel to foliation			10				
		-random small finely banded sections	42	85°	5-10				
		33.5'-39' IaBr 38-39' bull quartz vein		60°					
	2	~45' dark grey-green amph gneiss gradational	6902	65°				2.85	
50 Box 2	3	dark grey finely banded biotite-amphibole graphitic gneiss				1-2			
			52	65°	10				
		56.5'-57' leucocratic pink and pale green pegmatite, 50° to c/a	6903		5-10				
	3	~59' biotite-garnet segregations gradational	59	50°	10				
60	2	med. grey to grey green banded biotite-amph-graphitic gneiss		80°	5-10	1-3			
	3	med. to dark grey finely banded biotite-amph-graphitic gneiss	6904	75°		1-2		3.17	
		68.5'-69' barren altered grey gneiss	69	80°					
70	P	69'-70' P PEGMATITE - pale pink pegmatite dyke.		80°					
Box 3		70'-198' IaB BARREN GNEISS					<3		
	10	leucocratic biot-garnet ± amphibole gneiss							
	11	med grey biot-amph-garnet gneiss		75°					
80	10	leucocratic biotite garnet ± amphibole gneiss. 78'-80' potassic alteration		75°					

DIAMOND DRILL CORE LOG

HOLE 85-53 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80		1aB BARREN GNEISS (Cont'd)					2-5		
Box 3	13	dark grey biotite-amphibole ± garnet gneiss w/pale fs interbands		70°					
		80'-100' pink potassic alteration and migmatization with muscovite							
Box 4				75°					
90	10	leucocratic to med. grey and pink interbanded biotite ± garnet ± amphibole gneiss		85°					
				80°					
100				70°					
				80°					
Box 5									
110	10								
	13	melanocratic grey green biotite-amphibole-garnet gneiss		70° 70°					
120	10/11	leucocratic to med. grey interbanded biotite-amphibole-gneiss		45°					
Box 6		gradational							
130	11	mesocratic biotite amphibole gneiss -minor leucocratic interbands		+					
		126'-134' pink potassic alteration		65°					
		~130'-131' pink pegmatite with alteration		70°					
140		136'-137' leucocratic biotite garnet gneiss							
Box 7				75°					
150	11			90°					
	13	Melanocratic grey fine grained biotite-amphibole ± garnet gneiss		+					
		152'-152.5' pink pegmatite seam.							
160	11	mesocratic grey med. grained biotite-amphibole-gneiss		65° 60°					
Box 8		-random 1"-4" dark fine grained interbands							
170									
180	11								

DIAMOND DRILL CORE LOG

HOLE 85-53 PAGE 3 OF 3

FOOTAGE	SUB UNIT	1aB BARREN GNEISS (cont'd)	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 8	11 14	leucocratic pink to grey biotite ± garnet gneiss		55°			2.5		
Box 9	11	med. to dark grey biotite-amphibole gneiss		60° 70°					
190		~189' 4" pink leucocratic gneiss interband		65°					
	11								
198'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-54 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 18, 1985 FINISHED OCT. 18, 1985 TOTAL DEPTH 147'

LOCATION 27+50N 16+25E COLLAR ELEVN 954.75' BEDROCK ELEVN 942.75'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		SURFACE							
10		OVERBURDEN							
Box 1	1	12'-35' IaG GRAPHITIC GNEISS	11		<5	1-3	2-4		
		leucocratic grey to grey-green banded biot-amph graphitic gneiss	7064	85°	10 <5 5-10		5	2.47	
20			22						
			7065	80°	10 <5 5-10 5 10			1.61	
30			32	65°	5-10				
Box 2	1	gradational							
	T	35'-38' IaB_T TRANSITIONAL GNEISS leucocratic biot-garnet-muscovite gneiss, graphitic	7066		5	1-4	5-10	2.30	
40	2	38'-52.5' IaG GRAPHITIC GNEISS med grey to grey-green med to finely banded biotite-amphibole-graphitic gneiss	42	70° 30°	5-10		5		
		~42' dark green amphibole-biotite segregation ~43-44 broken core, green calcite lined fault.	7067	75°-85°	10 5-10 5	2-4 1-2 1-3 1-4		2.78	
50 Box 3	2	50.5'-51.5' med grey fine grained gneiss gradational	52		5-10	1-3			
	T	52.5'-55' IaB_T TRANSITIONAL GNEISS leucocratic biot-amph-garnet gneiss - pale amph., mauve garnets, trace musc.			<5				
	3	55'-74.5' IaG GRAPHITIC GNEISS dark to med grey-green finely banded biot-amph graphitic gneiss	7068	70°	5 10-15 15			3.19	
60		gradational							
	1	leucocratic biot-amph-graphitic gneiss	62		5				
	3	mesocratic grey fine grained biot-amph graphitic gneiss		30°	10 5-10				
70 Box 4	2	mesocratic grey med. grained biotite-amph-graphitic gneiss 70.5-72' IaB_T	7069 75	70° 30° 70°	<5 5-10 <5			2.45	
	T	74.5'-84' IaB_T TRANSITIONAL GNEISS leucocratic biotite-amphibole-muscovite gneiss	7358				2-7	0.494	
80									

DIAMOND DRILL CORE LOG

HOLE 85-54 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT. % FLAKE
80 Box 4	T	1aB$_T$ TRANSITIONAL GNEISS (cont'd) ~81-83' green carbonate lined joints	7358 85	30°			2-7	0.494	
	10	84'-88' 1aB BARREN GNEISS leucocratic grey biot-amph-garnet gneiss 86.5'-88' melanocratic green amph-biot segregation		60° 70°			2-5		
90 Box 5	P	88'-91' P PEGMATITE pale pink, white & green pegmatite 88'-91' fault zone 88'-86.5' unit 3, 1aG 89.5'-91' pegmatitic quartz vein		45°	10	1-2			
	T	91'-93' 1aB$_T$ TRANSITIONAL GNEISS		35°					
	2	93'-94.5' 1aG GRAPHITIC GNEISS - med. grey biot-amph graphitic gneiss	93	48°	5	1-2			
	Q	94.5'-96.5' Q QUARTZ - qtz pegmatite with annealed brecciation fabric		68°					
100	1	96.5'-101' 1aG GRAPHITIC GNEISS leucocratic grey biot-amph-graphitic gneiss 96.5'-97' 1aB$_T$	7251 101	45° 75°	<5 10 5 5-10	1-3		1.296	
110 Box 6 120	10	101'-126' 1aB BARREN GNEISS leucocratic biotite ± amphibole ± garnet gneiss 109'-110' qtz vein, contacts 50° & 35° to C/A 116.5'-118' qtz vein		80° 50° 30° 60° Q 75°			0-5		
130 Box 7	T	126'-134' 1aB$_T$ TRANSITIONAL GNEISS leucocratic biotite muscovite ± garnet gneiss 128'-130' quartz veining 132'-133' pink pegmatite 133' - shear with partly annealed pegmatite breccia	129.5	Q Q 20°	<5	1-4	5 Tr		
140	1	134'-142.5' 1aG GRAPHITIC GNEISS leucocratic grey to grey and green banded biotite amphibole graphitic gneiss 141-141.5 melanocratic biotite garnet gneiss	7252 142.5	75°	<5 6 <5	1-4	3-5	1.112	
Box 8	10	142.5'-147' 1aB BARREN GNEISS leucocratic grey banded biotite-garnet ± amphibole gneiss 143.5'-144' white migmatite 145'-146' melanocratic biot-amph-garnet gneiss		80°			1-3		
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-55 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 20, 1985 FINISHED OCT. 20, 1985 TOTAL DEPTH 147'

LOCATION 27+50 N 16+75 E COLLAR ELEVN 960.55' BEDROCK ELEVN 937.55'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C (G)	WT.% FLAKE
		SURFACE							
10									
20		OVERBURDEN (BOULDERS)							
Box 1	1	23'-66' 1aG GRAPHITIC GNEISS	23		<5	1-4	5		
		leucocratic grey-green banded biotite amphibole graphitic gneiss		75°					
30		23'-27' interbanded with transitional gneiss	7183	50°					
				80°	5				
		26.5'-27' quartz vein			<5				
		28-29' white and pink pegmatite	38	75°	5				
40					<5				
Box 2	1		7184		10			2.226	
					5				
					<5				
					5	1-3			
	2	med grey green banded biotite-amphibole graphitic gneiss	49	75°	<5				
50					10				
					10-15				
	P	54'-56' pale white, green and pink pegmatite dyke	7185				<2		
		54.5'-55' biot-amph-gneiss interband.			<5	1-3	~5		
			59	85°	5-10				
60		leucocratic to med grey banded biot-amph graphitic gneiss			10-15				
Box 3				80°	5-10				
	2	62'-65' interbanded with transitional gneiss 65'-66' finely banded biot-amph graphitic gneiss (unit 3)	7186		5				
					10				
	P/M	66'-69' P&M PEGMATITE AND MIGMATITE pale pink pegmatite and migmatite with altered host rock fragments	69	70°			<2		
70	3	69'-91' 1aG GRAPHITIC GNEISS			5-10	1-3	~5		
		dark to med. grey green finely banded biot-amphibole-graphitic gneiss.		85°	10				
			7189		5-10				
	T	76'-77.5' 1aB$_T$ - leucocratic biot-musc-amph. gneiss			<5		<5		
80	3		80		10 5-10		~5		

DIAMOND DRILL CORE LOG

HOLE 85-55 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4 90	3 3	IaG GRAPHITIC GNEISS (cont'd.) dark green finely grained biot - amph - graphitic gneiss ~83.5' pegmatitic sweat 89'-89.5' Transitional gneiss	80 7190 91	80°	5-10 10-15 5-10 10 5-10 5	1-3	5	3.16	
	T P	91'-95' IaBT TRANSITIONAL GNEISS leucocratic biot - garnet ± musc gneiss and migmatite 94'-95' leucocratic pink and white pegmatite.					<3		
100 Box 5 110 120	10 T 10	95'-122' IaB BARREN GNEISS leucocratic banded biotite ± garnet ± amphibole gneiss 101'-113' partly migmatitic 113'-115' unit IaBT - transitional and med. grey finely banded graphitic gneiss 122' fracture 30° to C/A gradational		70° 70° 60° 60° 60° 30°	<5	1-3			
Box 6	T	122'-124' IaBT TRANSITIONAL GNEISS gradational	122		<5	1-3	5		
130	1 1	124'-136' IaG GRAPHITIC GNEISS leucocratic grey green banded biotite amphibole graphitic gneiss	7191 136	75° 75°	5-10 5 <5 5-10 <5		5-10 5		
140	10	136'-142' IaB BARREN GNEISS leucocratic grey banded biotite - garnet ± amph. gneiss 136'-137' transitional gneiss		70° 75°			<3		
Box 7	L	142'-147' L LAMPROPHYRE melanocratic green massive lamprophyre dyke - late calcite veining 5°-10° to C/A		Contact 5°			5-10		
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-56 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 20, 1985 FINISHED OCT. 21, 1985 TOTAL DEPTH 128'
LOCATION 27+75N 16+75E COLLAR ELEVN. 962.06' BEDROCK ELEVN. 946.06'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		SURFACE							
10		OVERBURDEN (BOULDERS)							
Box 1	1	16'-52' laG GRAPHITIC GNEISS	16		<5	1-3	3-5		
20		leucocratic grey-green banded biotite-amphibole-graphitic gneiss		85°					
			7192		5			1.063	
					<5				
		~27'-28.5' pale white, green and pink migmatite							
30			31	85°					
					5			2.175	
					5-10				
Box 2			7193		5				
		~37' calcite and qtz filled fracture							
40					10				
		41'-41.5' migmatitic interband	41	30°	5-10			1.532	
					5				
				85°	<5				
					5				
		~45'-52' small interbands of transitional gneiss	7194	30°	<5				
					6				
					<5				
50	1				5				
	T	52'-54' laB$_T$ TRANSITIONAL GNEISS - leucocratic biotite-amphibole-muscovite gneiss	54						
Box 3	2	54'-68' laG GRAPHITIC GNEISS		30°	5-10		5	2.782	
		med. grey green banded biotite amphibole graphitic gneiss -small interbands of leucocratic and transitional gneiss	7195	85°					
60	3	dark grey finely banded biot-ampl-graphitic gneiss			10-15	1-2	5-10		
		med. grey green cont'd.			15	1-4			
	2	61.5'-63' migmatitic transitional gneiss	64	30°	5-10		5		
		65' qtz-carb filled fracture 30° to C/A 65'-66' dk. green finely banded biot-amph graphitic gneiss			10-15	1-2	5-10		
						1-4			
70	T	68'-70.5' laB$_T$ TRANSITIONAL GNEISS - leucocratic grey green biot-amph-musc-gneiss ← gradational	7196	75°	<5	1-3	5		
		70.5'-82' laG GRAPHITIC GNEISS			5				
Box 4	2	mesocratic grey-green biotite-amph-graphitic gneiss		78°	5-10		5-10		
		73.5' 1/2" white garnet gneiss	74	75° 25°	10-15 15			2.694	
		74.5-75.5 } 78'-79' } dk green finely banded graph. gneiss (3)	7197		5-10 10 10-15 10				
80				86					

DIAMOND DRILL CORE LOG

HOLE 85-56 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80	2	laG GRAPHITIC GNEISS (cont'd) gradational			10	1-3	5-10		
Box 4	T	82'-91' laB$_T$ TRANSITIONAL GNEISS leucocratic grey to grey-green biotite-amphibole-garnet gneiss	7197 86	65°	5-10 6 <5		5	2.694	
					Tr	1-2	5-10 <5		
90		88'-89' white migmatitic bands 89'-90' dark green gneiss bands					<5		
Box 5	T			65° 5°-15°					
	10	97'-105' laB BARREN GNEISS leucocratic biot-garnet ± amph. gneiss 91'-100' broken core 99'-100' pink pegmatite & migmatite dyke.							
100	11	med. to light grey biot-amph garnet gneiss 101-102" broken core 104'-105' melanocratic green amph-biot. gneiss							
	T	105'-115' laB$_T$ TRANSITIONAL GNEISS AND/OR ALTERED BARREN GNEISS & MIGMATITE		10°					
110 Box 6	T	-mauve & red garnets common -leucocratic barren in parts 105'-108' calcite lined fracture 109'-110' broken core fault							
	15	115'-128' laB BARREN GNEISS med. grey biot-amph garnet ± sillimanite? gneiss					<3		
120	10	leucocratic grey biotite-garnet ± Amph gneiss		80°-85°					
Box 7	10								
128'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-57 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 21, 1985 FINISHED OCT. 21, 1985 TOTAL DEPTH 147'

LOCATION 27+75N 16+50E COLLAR ELEVN 961.27' BEDROCK ELEVN 955.27'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C (G)	WT.% FLAKE
		SURFACE							
		OVERBURDEN (BOULDERS)							
Box 1	1	6'-55.5' laG GRAPHITIC GNEISS	6		<5	1-3	3-5		
10		leucocratic grey-green biotite-amphibole-graphitic gneiss							
		~7'-10' qtz veining and white migmatite	7046	88°-85°				1.30	
20			20	80°					
	1	23'- quartz carbonate filled fracture		20°					
Box 2			7047		5 5-10 5 5		5-10	1.44	
30			31	75°	5-10				
		- random 5-10% migmatitic sections			5				
			7048		10 5-10			1.83	
	1				<5				
40			41		10				
	2	med. grey to grey-green banded biotite-hornblende graphitic gneiss		75°	5 5-10				
Box 3		43-45' transitional zone	7049					2.70	
					10 5-10				
50			51		10				
	2	gradational		70°	10-15 10				
	T	55.5'-58' laB$_T$ TRANSITIONAL GNEISS leucocratic grey banded biot-amph ± garnet gneiss 57'- broken core	7050		<5		5	2.34	
60	2	gradational 58'-69' laG GRAPHITIC GNEISS			5-10		5-10		
		mesocratic grey-green banded biotite-amphibole-graphitic gneiss	61	65°	10				
Box 4						1-2			
		~66-67' leucocratic transitional gneiss	7051	60°	<5	1-3		3.44	
	2		69		5-10	1-2			
70	T	69'-85' laB$_T$ TRANSITIONAL GNEISS		65°			<5		
		leucocratic biotite-amphibole-garnet gneiss - migmatitic in spots.	7357					0.3657	
80	T								

DIAMOND DRILL CORE LOG

HOLE 85-57 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
Box 4 80 Box 5	T	*laB$_T$ TRANSITIONAL GNEISS (cont'd)* leucocratic biot- amph- garnet gneiss	7357 85				<5	0.357	
90	10	*85'-96' laB BARREN GNEISS* leucocratic grey banded biotite ± garnet ± amphibole gneiss ~92.5'-93' migmatitic transitional gneiss		65° 80°			<3		
100 Box 6	T	*96'-104.5' laB$_T$ TRANSITIONAL GNEISS* leucocratic grey fine to coarsely banded biotite-amphibole-migmatitic gneiss ~99.5'-100.5' leucocratic barren gneiss zone, contact 65°		65° 20°	Tr	1-4	2-4		
110	10	*104.5'-112' laB BARREN GNEISS* leucocratic grey banded biotite - amphibole ± garnet gneiss 107'-111' mild potassic alteration 111'-112' leucocratic laB$_T$		65°			<3		
	3	*112'-125.5' laG GRAPHITIC GNEISS* dark to med. grey to grey green banded-biot-amph - graphitic gneiss	112		5-10 <5 5-10	1-3	5	1.69	
120 Box 7	1	113'-114' 1 ft. laB$_T$ leucocratic grey-green banded biotite-amphibole-graphitic gneiss calcite veining at contact	7052 125.5	70° 75° 15°	5 <5 5 <5 5				
	L	*125.5'-127' L LAMPROPHYRE* - melanocratic lamprophyre dyke 15° to C/A							
130 140 Box 8	10	*127'-143' laB BARREN GNEISS* leucocratic biotite - garnet ± amphibole gneiss ~141' white migmatitic sweat with garnets gradational		75-80°			<3		
	T	*143'-145' laB$_T$ TRANSITIONAL GNEISS*		80°					
	1	*145'-147' laG GRAPHITIC GNEISS* - leucocratic grey-green banded biot-amph-graphitic gneiss			<5	1-3	5		
147'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-58 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE

STARTED OCT. 22, 1985 FINISHED OCT. 22, 1985 TOTAL DEPTH 147'

LOCATION 27+75N 16+22E COLLAR ELEVN 959.80' BEDROCK ELEVN 944.80'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		SURFACE							
10		OVERBURDEN		25°					
Box 1	L	15'-16.5' L LAMPROPHYRE - melanocratic green lamprophyre dyke - very broken					5-10		
20	2	16.5'-40.5' laG GRAPHITIC GNEISS - med. grey-green banded biot-amph graphitic gneiss 19-21' fault with broken core, 6" lost core. 45° to C/A 21-23' transitional gneiss	16.5 7085 25	20°	5-10 <5 5 5-10 5	1-3	5	2.19	
30	2	interbanded with - leucocratic gneiss - transitional gneiss - dark finely banded gneiss 31'-32.5' med grey transitional gneiss	7086 35	70°	5-10 <5 5			2.78	
Box 2	3	dark grey-green finely banded biot-amph graphitic gneiss 36.5' lamprophyre dyke in fracture, 45° to C/A	7087	45°	5-10 5 5-10	1-2 1-3		2.86	
40	2	med. grey and green banded graphitic gneiss			5				
	T	40.5'-43' laB$_T$ TRANSITIONAL GNEISS - leucocratic biot ± amph ± garnet ± musc gneiss.		70°	<5	1-4	<5		
50	3	43'-50.5' laG GRAPHITIC GNEISS mesocratic grey-green finely banded biot-amph-graphitic gneiss 48'-49.5' laB$_T$ bands 49.5'-50' banded migmatitic sweat with calcite	45 7088 51	65° 30°	5-10 10 10-15 5-10 5	1-3	5	3.26	
Box 3	P	50.5'-58' P PEGMATITE pink pegmatite dyke diffuse contact					<2		
60	T	58'-60' laB$_T$ TRANSITIONAL GNEISS - leucocratic biot-amph ± garnet ± musc gneiss.							
70	1 1 T/A	60'-70' laG GRAPHITIC GNEISS gradational leucocratic banded biotite-garnet ± amphibole graphitic gneiss 67.5'~69' laB$_T$ Transitional gneiss ~69'-70' Amphibolite - biot-amph gneiss gradational	59 7089 69	60° 68° 65°	Tr 5 <5	1-3	<5	1.20	
Box 4	10	70'-79.5' laB BARREN GNEISS leucocratic banded biotite-amphibole gneiss							
80	10								

T laB$_T$ TRANSITIONAL GNEISS

DIAMOND DRILL CORE LOG

HOLE 85-58 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	T	79.5'-82.5' laB$_T$ TRANSITIONAL GNEISS					<5		
Box 4	2	82.5'-85' laG GRAPHITIC GNEISS mesocratic grey green banded biot-amph-graphitic gneiss	82.5	65°	5-10	1-2	5-10	1.88	
	T	85'-89.5' laB$_T$ TRANSITIONAL GNEISS leucocratic banded. biot-amph ± garnet ± musc. gneiss	7090		<5	1-3	5 <5		
90 Box5	2	89.5'-108' laG GRAPHITIC GNEISS mesocratic grey-green banded biotite-amph· graphitic gneiss	93		5-10 Tr	1-3	5		
100	1 1	leucocratic grey green banded biotik - amphibole graphitic gneiss - transitional in parts. 91' & 93' transitional gneiss: alteration zone with migmatite ~91.5'-92.5' dark green lamprophyre dyke gradational	7091 108	70° 70° 55°	<5 5 <5			1.62	
110 Box 6	10	108'-122.5' laB BARREN GNEISS leucocratic grey banded biotite-garnet ± amphibole gneiss 116.5'-117', 118'-119' } leucocratic migmatite gradational		75° 30°			<3		
120	T	122.5'-125' laB$_T$ TRANSITIONAL GNEISS - leucocratic banded biot-amph ± garnet ± musc. gneiss gradational							
	10	125'-127.5' laB BARREN GNEISS leucocratic biot-garnet ± amph gneiss gradational		80°					
130	T	127.5'-130.5' laB$_T$ TRANSITIONAL GNEISS leucocratic banded biot-amph ± garnet ± musc. gneiss							
Box 7 140	1 1	130.5'-144.5' laG GRAPHITIC GNEISS mesocratic to leucocratic grey green banded graphitic gneiss 132-133' pyrite in migmatite breccia calcite vein in fault 136' pyrite-migmatite band. 139-140' biot-garnet segregations 141' green calcite lined fracture 5° to C/A	130.5 7253 144.5	70° 70° 50°	<5	1-4	5	1.999	
	P	144.5'-146' P PEGMATITE - white to pink leucocratic pegmatite dyke.		50°			<2		
	T	146'-147' laB$_T$ TRANSITIONAL GNEISS.							
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-59 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 21, 1985 FINISHED OCT. 21, 1985 TOTAL DEPTH 78'

LOCATION 27+00N 13+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 915.88'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
		SURFACE							
10 20		MUSKEG							
Box 1		BOULDERS-OVERBURDEN							
30	3	<u>29'-47.5' IaG GRAPHITIC GNEISS</u> dark grey finely band biotite-amphibole-graphitic gneiss	29 6905 38	73°	5-10 10 5-10 10-15	1-3	~5		
40		37.5'-38' 39'-39.5' 46.5'-47' } transitional gneiss bands.	6906 46.5		5 10-15 10			2.86	
Box 2	3	47'-47.5' qtz vein Contact 40°		40°					
50	11	47.5'-78' IaB BARREN GNEISS grey and pink interbanded biotite-amphibole gneiss 47.5'-49'? pink qtz-fs gneiss							
	13	dark grey biotite-amphibole gneiss 53'-53.5' melanocratic biot-amph-garnet gneiss		85° 65°					
60	11	med. grey and pink interbanded biot-amphibole-gneiss -partly migmatitic							
Box 3	M/10	gradational pink and grey banded migmatitic biotite ± garnet gneiss		90° 65°					
70	M/10								
78' 80		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-60 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 21, 1985 FINISHED OCT. 22, 1985 TOTAL DEPTH 147'

LOCATION 27+75N 16+00E COLLAR ELEVN 953.47' BEDROCK ELEVN 924.47'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT. % FLAKE
10 20		CASING 30' OVERBURDEN BEDROCK		40°					
30 Box 1	3	29'-44' 1aG GRAPHITIC GNEISS med to dark grey finely banded biotite-amphibole-graphitic gneiss -brown biotite	29 7198	30° 70°	5 10	1-3	5	3.382	
40	2	med. grey banded biotite amphibole graphitic gneiss - brown biotite	39 7199		10-15 10 5			1.465	
	11	44'-47' 1aB BARREN GNEISS med. grey banded biotite-garnet-amphibole gneiss	47		Tr	1-2	Tr		
50 Box 2	3	47'-77.5' 1aG GRAPHITIC GNEISS med. grey finely banded biotite-amphibole graphitic gneiss	7200	26° 35°	10	1-3	>5	1.965	
	2	med. grey and grey-green banded biotite-amphibole-graphitic gneiss - brown biotite	57	15° 40° 20° 38°	5				
60	1	pale grey and grey-green banded biotite-amphibole graphitic gneiss - brown biotite	7201 67	65°	<5		<5	1.62 (1.498)	
70 Box 3	2	med grey and grey-green banded biotite-amphibole graphitic gneiss. - brown biotite	7202 77.5	20° 48° 15°	10			(1.907) 1.30	
80	11	77.5'-110' 1aB BARREN GNEISS med. grey banded biot-garnet gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-60 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	11	laB BARREN GNEISS (Cont'd) med. grey banded biotite - garnet gneiss - minor variable amphibole content		30° 30° 60° 60°					
Box 4 90	10 10	leucocratic grey banded biotite garnet gneiss 89'-99' broken ground and salmon pink potassic alteration along fractures		65° 10° 70° 0°					
100 Box 5	11	med. grey banded biotite-garnet gneiss - minor variable amphibole 108' 6" unit laB$_T$ 109' potassic alteration along fractures.		75° 50° 30° 75° 50° 30°					
110	1	110'-114.5' laG GRAPHITIC GNEISS pale grey and grey-green banded biot-amph graphitic gneiss	110 7254 114.5		5 ↓	1-3 ↓	Tr ↓		
120	11	114.5'-120.5' laB BARREN GNEISS med. grey banded biotite garnet gneiss		10° 50°					
Box 6	1	120.5'-127.5' laG GRAPHITIC GNEISS pale grey and grey green banded biotite-amphibole-graphitic gneiss	120.5 7255 127.5	70°	<5 ↓	1-3 ↓	Tr ↓	1.553	
130	11	127.5'-132.5' laB BARREN GNEISS med. grey banded biotite - garnet - gneiss		80°					
	M	132.5'-138' M MIGMATITE leucocratic pale grey and green migmatite and biot - garnet - gneiss		15°					
140 Box 7	1	138'-143.5' laG GRAPHITIC GNEISS pale grey and grey green banded biot-amph graphitic gneiss ~142-143 unit laB$_T$	138 7256 144	60° 30°	<5 ↓	1-3 ↓	Tr ↓		
	11	143.5'-147' laB BARREN GNEISS med. grey banded biotite-garnet-gneiss.		60°					
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-61 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED Oct. 22, 1985 FINISHED Oct. 22, 1985 TOTAL DEPTH 38'
LOCATION 27+00 N 13+00 E COLLAR ELEVN 944.88' BEDROCK ELEVN 929.38'
ANGLE −90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY+PYRR	%C (G)	WT % FLAKE
		SURFACE							
10		OVERBURDEN							
	P	15.5'-18' P PEGMATITE - leucocratic pegmatite					<3		
20	10	18'- 38' IaB BARREN GNEISS leucocratic biotite ± Garnet ± amphibole gneiss + migmatite		35°			<5		
		melanocratic biotite - amphibole gneiss		75°			5		
	10	leucocratic biotite ± garnet ± amphibole gneiss + migmatite		75°			<3		
30	13	melanocratic biotite - amphibole gneiss gradational					5		
	10	leucocratic grey quartz-feldspar-biotite gneiss 34-36' leucocratic pegmatite and migmatite.					<3		
40		END OF HOLE							
50									
60									
70									
80									

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-62 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 22, 1985 FINISHED OCT. 22, 1985 TOTAL DEPTH 147'

LOCATION 27+75N 15+75E COLLAR ELEVN 946.67' BEDROCK ELEVN 931.67'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
10		SURFACE OVERBURDEN							
Box 1	T	15'-20.5' laB$_T$ TRANSITIONAL GNEISS 15-15.5' pink pegmatite dyke mesocratic grey to grey-green banded biot-amph-musc gneiss 15'-19' ground core 19.5'-20.5' pink and white migmatite	15.5 7203	80°	<5	1-3	5	1.89	(2.263)
20	3	20.5'-29.5' laG GRAPHITIC GNEISS melanocratic grey-green finely-banded biot-amph graphitic gneiss 20.5'-25' mild potassic alteration	26		10	1-2	5 mostly Py.		
30	T	29.5'-33.5' laB$_T$ TRANSITIONAL GNEISS leucocratic grey banded biotite-amph ± musc ± garnet gneiss ~33' - quartz sweat.	7204	80°	5-10 <5	1-3	<5	0.522	(1.644)
Box 2 40 50	1 P 1	33.5'-52' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite-amph-graphitic gneiss ~34.5'-35' pegmatitic fs-qtz vein 36'-40.5' pale green alteration and pegmatitic bands. 40.5'-42' leucocratic white, pink and green pegmatite dyke. - gradational contact ~42' Transitional gneiss, <6"	40.5 7205 52	70° 75°	+ 5 <5	 1-3 1-4	1-3 5 3-5	0.369	(1.430)
Box 3 60 70	10	52'-69.5' laB BARREN GNEISS leucocratic grey and black banded biotite-garnet ± amphibole gneiss 54.5'-55' green pegmatite - garnet irregularly banded. 64'-69' pink migmatitic zones.		74° 74°	5	1-3	<5 5		
Box 4 80	10								

DIAMOND DRILL CORE LOG

HOLE 85-62 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	10 10	IaB BARREN GNEISS (cont'd) leucocratic grey and black banded biotite-garnet-± amph, gneiss gradational		85° 75°			<3		
90	T	89.5'-92' IaBT TRANSITIONAL GNEISS -leucocratic coarsely banded biot-amph-garnet± musc. gneiss gradational	89.5		<5	1-4	<5		
Box 5	1	92'-98.5' IaG GRAPHITIC GNEISS leucocratic grey-green banded biotite-amphibole-graphitic gneiss	7206	75°	5-10 5 <5	1-3	5	1.19 (1.415)	
100	10 10 T	98.5'-110' IaB BARREN GNEISS leucocratic grey and black banded biotite-garnet gneiss 102.5'-104' leucocratic migmatite and transitional gneiss, large graphite blob. ~107' - fracture 5° to C/A 109-110' IaBT	100 7207	60° 70° 5° 60°	<5	1-5	2-4	0.771 (0.382)	
110 Box 6 120	1 T 1	110'-129' IaG GRAPHITIC GNEISS leucocratic grey-green banded graphitic biot-amph gneiss 112'-114' Transitional and barren gneiss (113'-114') -gradational contacts 117-118' leucocratic barren gneiss 118'-119' transitional gneiss and migmatite ~123'-123.5' white pegmatite vein 128'-129' - broken core.	114 7208 123 7209	80° 20° 25° 80°	5 <5 <5 10 <5 5-10 5	1-3 1-4 1-3	5 <3 5 <3 5	1.10 (1.494) 0.423 (1.294)	
130 Box 7	10	129'-132' IaB BARREN GNEISS - leucocratic grey and black banded biot-garnet ± amph-gneiss gradational		75°			<5		
	1	132'-134' IaG GRAPHITIC GNEISS - leucocratic grey-green banded.	134	75°	<5	1-3	5		
	T	134'-135' IaBT TRANSITIONAL GNEISS - leuco. biot-amph-garnet gneiss					<5		
	10	135'-137' IaB BARREN GNEISS - leucocratic biot-garnet gneiss-		20°					
140	P	137'-140' P PEGMATITE -pink pegmatite with biotite-amph segregations - broken ground, fault	20°-40° C/A						
	10	140'-147' IaB BARREN GNEISS -leucocratic grey-biotite garnet gneiss 141', 142' - biot-amph. concentrations.		75°					
147'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-63 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 23, 1985 FINISHED OCT. 23, 1985 TOTAL DEPTH 42
LOCATION 27+00N 13+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 917.38'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
		SURFACE							
10									
20									
		MUSKEG							
		OVERBURDEN - graphitic boulders.							
30	3	27.5'-30' 1aG GRAPHITIC SCHIST -dark grey finely banded biotite-amphibole schist	6907	27.5 30	5-10	1-3	5		
	T	30'-31.5' 1aBT TRANSITIONAL GNEISS – leucocratic biotite ± garnet ± amph ± musc gneiss					3-5		
Box 1	10	31.5'-42' 1aB BARREN GNEISS - leucocratic biotite garnet ± amphibole gneiss		78°			<3		
40	13	Melanocratic green biotite amphibole gneiss 41.5'-42' unit 14 pink leucocratic biotite schist		75°			↓		
		END OF HOLE							
50									
60									
70									
80									

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DIAMOND DRILL CORE LOG

HOLE 85-64 PAGE 1 OF 2

PROJECT Bissett Creek CLAIM ______ CORE SIZE BQ ZONE NE
STARTED Oct. 22, 1985 FINISHED Oct. 23, 1985 TOTAL DEPTH 150'
LOCATION 28+00 N 15+50E COLLAR ELEVN 951.30' BEDROCK ELEVN 951.30'
ANGLE -90° AZIMUTH —— LOGGED BY L. Lindinger

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C (G)	WT. % FLAKE
Box 1 10	10 10	0'-18.5' IaB BARREN GNEISS medium to leucocratic grey and black banded biotite-amphibole gneiss - coarsely banded to mottled - large mauve garnets 0'-7' oxidized and weathered fractures. 13-15' migmatite and pegmatite 15'-16' muscovite transitional gneiss gradational		65° 16 60°	Tr	Tr	<5		
20	2	18.5'-20.5' IaG GRAPHITIC GNEISS	7210		<5		5	1.09 (1.040)	
Box 2 30	T T	20.5'-32' IaB$_T$ TRANSITIONAL GNEISS leucocratic to migmatitic biot-amphibole-mauve garnet gneiss ± muscovite		10° 24 70°	Tr 5-10 Tr	1-3	<5		
	10	32-37' IaB BARREN GNEISS -leucocratic grey and black banded biotite-garnet ± amph. gneiss - migmatitic gradational		75°					
40	T	37'-40.5' IaB$_T$ TRANSITIONAL GNEISS leucocratic grey and green banded biot-garnet musc/sillim. ± amph gneiss		39	<5	1-2			
Box 3	3	40.5'-48.5' IaG GRAPHITIC GNEISS mesocratic grey-green finely banded biotite-amphibole gneiss gradational	7211	80°	5-10 10 5-10 10		5	0.875 (2.404)	
50	T	48.5'-53' IaB$_T$ TRANSITIONAL GNEISS 50-51' broken core leucocratic grey-green banded bi-gar-musc/sill. ± amph gneiss migmatitic → potassic alteration		49 75°	<5	1-3			
60	1	53'-60' IaG GRAPHITIC GNEISS leucocratic grey-green banded biot-amph-graphitic gneiss ~56-56.5' quartz sulfide vein, pretty large sulphide clot.	7212	60 75°	<5 5 <5	1-3	5	1.31 (1.471)	
Box 4 70	10 10	60'-76.5' IaB BARREN GNEISS leucocratic black and white banded biotite-garnet ± amph. gneiss 64'-64.5' leucocratic graphitic gneiss 66'-67' 70'-70.5 71.5-73 } pale green and pink migmatite 76'-76.5' Transitional gneiss		80°	Tr	1-2	<3		
Box 5 80	1	76.5'-90.5' IaG GRAPHITIC GNEISS 78.5'-80' unit IaB(10) leuco-biot-garnet-gneiss leucocratic grey-green banded graphitic gneiss	7213	76.5 75°	5	1-3	5 <3	1.33	

DIAMOND DRILL CORE LOG

HOLE 85-64 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 5 90	1 1	laG GRAPHITIC GNEISS (Cont'd) leucocratic grey-green banded biot-amph-graphitic gneiss 81'-82' 84'-85' } laB$_T$	7213	85° 80° 90.5	<5 5 <5	1-3	<3	1.33 (1.765)	
	10	90.5'-96.5' laB BARREN GNEISS leucocratic grey and black banded biot-garnet gneiss		75° 60° 96.5					
100 Box 6 110 Box 7	1 1	96.5'-121' laG GRAPHITIC GNEISS - leucocratic grey-green banded biot-amph-graphitic gneiss 109-110.5' pink and green migmatite zones 113' fracture 2° to C/A 113'-118' migmatitic	7214 108 7215	85° 2° 75°	<5 5 <5 10	1-4 1-3 1-2	3-5 5 <5	1.08 1.54 (1.400)	
120	3	med. grey finely banded biot-amph-graphitic gneiss		121	5	1-3	5		
130 Box 8 140	10 10	121'-147.5' laB BARREN GNEISS leucocratic grey and black banded biotite-garnet gneiss		70° 60° 75° 60° 76° 75			<3		
	P	147.5'-150' P PEGMATITE - pink and white pegmatite dyke. - numerous clay-lined, sub-vertical fractures.							
150'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-65 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 24, 1985 FINISHED OCT. 24, 1985 TOTAL DEPTH 150'

LOCATION 28+00N 15+75E COLLAR ELEVN 950.41' BEDROCK ELEVN 933.41'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
10		OVERBURDEN - BOULDERS							
Box 1 20 30	T T	17'-30' laB$_T$ TRANSITIONAL GNEISS biotite-amphibole-garnet-carbonate gneiss 21-23' concentration of large (≤5 cm) garnets gradational	17 7216	75° 72°	<5 Tr	1-2 1	<5 Tr	2.43 (0.1705)	
	M	30'-35' M MIGMATITE pale white and green migmatite ; muscovite 33.5'-35' unit laB$_T$	32		<5	2-3 1-2	5		
Box 2 40	2	35'-42' laG GRAPHITIC GNEISS med. grey and grey-green banded brown biotite-amphibole graphitic gneiss ~36'-37' migmatite ~37-38' unit laB$_T$ 41'-42' unit 3, finely banded.	7217 42	70° 52°	10 1-2 10 5-10		<5 <5 5-10	1.40 (1.594)	
50	T T	42'-51.5' laB$_T$ TRANSITIONAL GNEISS biotite-amphibole-garnet gneiss	7218	78°	Tr		<5	0.352 (1.187)	
Box 3 60 70	1 1	51.5'-69.5' laG GRAPHITIC GNEISS leucocratic grey and grey-green banded brown-biotite-Amphibole graphitic gneiss - interbanded with transitional gneiss - minor muscovite	56 7219 69	40° 35° 85°	10 5	1-3 up to 5	5-10 <5	0.614 (1.770)	
Box 4 80	10 10	69.5'-90' laB BARREN GNEISS leucocratic biotite-garnet gneiss - interbanded migmatite 69.5-70' migmatitic		80° 85° 20° 30°			Tr		

DIAMOND DRILL CORE LOG

HOLE 85-65 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4 90	10 10	IaB BARREN GNEISS (cont'd) leucocratic biotite - garnet gneiss 84' pegmatite ~87'-88.5' - 1½' heavily jointed, some shearing along joints (chlorite)		45°					
	1	90'-93.5' IaG GRAPHITIC GNEISS gradational migmatitic contact with pegmatite interbands - leucocratic grey & grey-green banded biot-amph-graph-gneiss	90	75°	5	1-3	2-3		
Box 5 100	T T	93.5'-107' IaB$_T$ TRANSITIONAL GNEISS - biotite - muscovite - garnet gneiss 97'-98.5' - migmatitic ~100'-107' transitional to leucocratic graphitic gneiss	7257 105	73°	Tr 2-4	1-4	Tr 3		
110	M	107'-112' M MIGMATITE leucocratic pink and pale green migmatite		60°	1-2 Tr	2-5			
Box 6	T	112'-117.5' IaB$_T$ TRANSITIONAL GNEISS biotite ± muscovite - garnet gneiss 112', 117.5' } pegmatite + carbonate	7258	45°	2-3	1-3	1		
120	2	117.5'-120' IaG GRAPHITIC GNEISS med grey and grey-green banded biot-amph-graphitic gneiss	120	75°			5		
	T	120'-126.5 IaB$_T$ TRANSITIONAL GNEISS biotite - garnet - gneiss 121' - 1" quartz vein, 80° to C/A	7259		Tr		Tr	0.556	
130	1	126.5'-130.5' IaG GRAPHITIC GNEISS leucocratic grey and grey-green banded biotite - graphitic gneiss			<5		2-3		
Box 7	T	130.5'-134' IaB$_T$ TRANSITIONAL GNEISS biot - muscovite - garnet gneiss	134	78° 10°	Tr		<1		
140	P	134'-143' P PEGMATITE white and pink, coarse grained biot - quartz - feldspar pegmatite - occasional garnets. 138' - 1" of 40% pyrite		20°			Tr		
	10	143'-150' IaB BARREN GNEISS leucocratic banded biotite gneiss - interbanded migmatite.		70°					
150'		END · OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-66 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 23, 1985 FINISHED OCT. 25, 1985 TOTAL DEPTH 266'

LOCATION 26+50N 16+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 918.88'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
		SURFACE							
10									
20									
		OVERBURDEN (MUSKEG)							
Box 1	2	26'-95' Ia G GRAPHITIC GNEISS	26		5-10	1-3	5-10 strongly. magnetic		
30		mesocratic grey-green banded biotite-amphibole-graphitic gneiss	8154					2.75	
				80°	5	1-2			
			31						
	2	gradational							
40	1	leucocratic grey-green banded biotite-amphibole graphitic gneiss	8155		<5	1-3	~5	1.56	
Box 2					5				
			41	75°					
50			8156					1.57	
	1		57						
60	2	Mesocratic grey-green banded biotite-amphibole graphitic gneiss.	8157		5-10 6 <5			2.52	
				75°					
Box 3			67		6 <5				
70	2		8158		10			2.65	
		melanocratic grey-green finely banded biotite-amphibole graphitic gneiss.		75°		1-3	5-10		
	3		77		5-10				
80			8159		10 5-10			2.76	

DIAMOND DRILL CORE LOG

HOLE 85-66 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 3 Box 4	3	laG GRAPHITIC GNEISS (Cont'd) -melanocratic grey-green biotite-amphibole-graphitic gneiss	8159 87	70°	<5 10-15 5	1-3	5-10	2.76	
90	3	80-81.5' migmatitic transitional gneiss	8160 95	75°	5-10 15	1-2		2.97	
100 Box 5 110	T	95'-113.5' laB$_T$ TRANSITIONAL GNEISS mesocratic grey and black banded biotite-amphibole-garnet? muscovite gneiss - graphitic 100.5' fracture 10° to c/A 102'-102.5' pink pegmatite with potassic alteration in host rock	8161 110	10° + 75°	Tr		<5	0.827	
	3	110'-112' melanocratic grey-green finely banded graphitic gneiss. (unit 3)	8162	70°	15		5	3.05	
	T				Tr	1-3	<5		
	P	113.5'-115' P PEGMATITE - white & green pegmatite and migmatite.		++					
	3	115'-132' laG GRAPHITIC GNEISS melanocratic finely banded biot-amph graphitic gneiss	118	+	5	1-3	5		
120 Box 6 130	1	mesocratic to leucocratic biotite-amphibole-graphitic gneiss 118'-118.5' leucocratic pink and green pegmatite 119'-123' zone of altered rock with minor pegmatite and migmatite 129'-135' zone of steeply dipping joints 5-15° to c/A	8163 132	80° 5-15°	<5 5	1-2 1-3	5-10	1.88	
140 Box 7 150	10	132'-154.5' laB BARREN GNEISS -leucocratic grey and black banded biotite-garnet ± amphibole gneiss -random migmatitic bands 132'-133' leucocratic grey-green banded transitional gneiss ~151' leucocratic pink pegmatite dyke. 151.5'-154.5' partly migmatized		75° 60° 30° 45° 30°			<3		
	T	154.5-156.5' laB$_T$ TRANSITIONAL GNEISS 154.5'-155' qtz vein, qtz-fs alt.	154.5	9° 50°	Tr	1-3	<5		
160 Box 8 170	1	156.5'-171' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite-musc graphitic gneiss -contains interbands of laB$_T$ T 163.5'-165' laB$_T$ - leucocratic barren gneiss @164'-164.5', gradational contacts. biot-amph-graphitic gneiss gradational	8164 171	65° 60° 70°	5 <5	1-3	5	0.991	
	10	171'-176' laB BARREN GNEISS leucocratic grey & black banded biot-amph-garnet gneiss · interbands of laB$_T$ 172'-173' melanocratic gneiss gradational		75°					
180	1	176'-185 laG GRAPHITIC GNEISS leucocratic grey-green biot-amph graphitic gneiss	177 8165		5 <5	1-3		1.16	

DIAMOND DRILL CORE LOG

HOLE 85-66 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180 Box 9	1	IaG GRAPHITIC GNEISS (Cont'd) leucocratic grey-green biot-amph graphitic gneiss gradational	8165 185	75°	<5	1-3	5	1.16	
	P	185'-187' P PEGMATITE – white, green & pink pegmatite ± migmatite					<5		
190	10	187'-193' IaB BARREN GNEISS leucocratic biotite-garnet gneiss 187' gouge (fault?)		65°			<3		
	T	193'-195.5' IaBT TRANSITIONAL GNEISS: mesocratic altered and migmatized biotite ± amph ± garnet gneiss ~195' pegmatite	193	80°	Tr	1-3	5		
200 Box 10	1	195.5'-207' IaG GRAPHITIC GNEISS mesocratic grey-green banded biotite-amphibole-graphitic gneiss ~204-207' broken ground. 206'-207' altered.	8166 207	48° 75° 80°	<5 5 <5 10-15	1-2 1-3		1.41	
210	10	207'-239' IaB BARREN GNEISS leucocratic grey and black banded biotite-garnet ± amphibole gneiss 207'-208' leucocratic pink pegmatite 208'-215' pink potassic alteration zone -clay & calcite lining in many joints		75° 75°			<3		
220 Box 11 230	11	mesocratic biotite-amphibole gneiss 230' melanocratic green amphibole biotite gneiss		76°					
240 250 260	L	239'-266' L LAMPROPHYRE Subvertically dipping lamprophyre dyke. 239'-250' lamprophyre and biotite gneiss in core accompanied by late stage calcite veining ~254' calcite vein in fault, 20° to C/A 258', 264' } ½' to 1" calcite veining subparallel to C/A		20° Sub-parallel					
266'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-67 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 24, 1985 FINISHED OCT. 24, 1985 TOTAL DEPTH 147'
LOCATION 28+00N 16+00E COLLAR ELEVN 958.62' BEDROCK ELEVN 941.62'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C(G)	WT. % FLAKE
10		SURFACE OVERBURDEN							
Box 1 20	2	17'-26.5' laG GRAPHITIC GNEISS med. grey green banded biotite-amphibole-graphitic gneiss 20'-21.5' leucocratic grey banded biot-amph ± muscovite-garnet gneiss (laB_T) gradational	17 7220 265		5-10 5 5-10 10	1-2 1-2 1-3	5 <5 5	2.11 (0.289)	
30	T	26.5'-33' laB_T TRANSITIONAL GNEISS leucocratic coarsely banded biotite-amphibole-garnet-muscovite gneiss - carbonate & pyrite lined fractures gradational					<5		
Box 2 40 50	10 10	33'-50.5' laB BARREN GNEISS leucocratic biotite-garnet ± amphibole gneiss -migmatitic in sections		65°			<3		
	T	50.5'-52' laB_T TRANSITIONAL GNEISS - mesocratic biot-amph-musc. gneiss gradational	51		Tr	1-3	<5	(3.20) 1.75	
Box 3	1 3	52'-57' laG GRAPHITIC GNEISS - leucocratic biotite-amphibole-graphitic gneiss melanocratic grey-green banded biotite-amph-gneiss	7221	75°	5 15	1-2	5 5-10		
60	T	57'-62.5' laB_T TRANSITIONAL GNEISS. leucocratic grey-blue banded biot-amph-garnet ± musc-gneiss ~62'-62.5' pale pink pegmatite	59		5 Tr	1-4 1-5	5		
	10	62.5'-65' laB BARREN GNEISS -leucocratic black & grey banded biot ± garnet ± amph. gneiss - migmatitic					<3		
	T	65'-68.5' laB_T TRANSITIONAL GNEISS leucocratic biot-amph-garnet gneiss 66'- pink pegmatite of migmatite.	65	75°	<5	1-5	<5	0.571	(2.217)
70	3	68.5'-74' laG GRAPHITIC GNEISS mesocratic grey green finely banded biot-amph-graphitic gneiss gradational	7222 74	70°	10 5	1-3	5 <5		
Box 4	T	74'-77' laB_T TRANSITIONAL GNEISS -leucocratic biot-amph ± muscovite gneiss (black biot.) migmatitic gradational	7223		<5			1.266	
80	1	77'-86' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite amphibole graphitic gneiss		80°	5 <5				

86

DIAMOND DRILL CORE LOG

HOLE 85-67 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	1	<u>1aG GRAPHITIC GNEISS (cont'd)</u> leucocratic grey-green banded biotite-amphibole-gneiss -interbanded with transitional gneiss-migmatite	7223 86	80°	<5	1-3	<5	1.246	
90 Box 5 100 110	10 10	<u>86'-114.5' 1aB BARREN GNEISS</u> leucocratic grey & black banded biot-garnet ± amphibole gneiss - black biotite and amphibole 86'-87' transitional gneiss (T) 111'-111.5' white pegmatite & migmatite ~112'-113' transitional gneiss		80° 80° 75° 86°			<3		
Box 6	2 1	<u>114.5'-120.5 1aG GRAPHITIC GNEISS</u> med. grey-green biot-musc? gneiss leucocratic grey-green banded biot-musc. gneiss	114.5 7260 120.5	80°	<5	1-3	<5	1.394	
120	10	<u>120.5-122' 1aB BARREN GNEISS</u> - leuco, grey & black banded biot-gar. gneiss		80°			<3		
	P	<u>122'-125.5' P PEGMATITE</u> leucocratic cream & green coarse grained dyke. contact 45° to C/A		45° 45°					
130 Box 7	10 10	<u>125.5'-133' 1aB BARREN GNEISS</u> leucocratic grey & black banded biot-garnet gneiss 125.5'-128' altered & migmatized. 127'-large Py & Po blebs 129'-130' migmatitic		75°					
	1	<u>133'-138' 1aG GRAPHITIC GNEISS</u> leucocratic grey-green banded biot-amph graphitic gneiss	133 7261	70°	<5	1-2	3-5	1.080	
							<3		
			140		<5	1-2	3-5		
140	10 10	<u>138'-147' 1aB BARREN GNEISS</u> leucocratic grey and black banded biotite-garnet gneiss 139'-140' leucocratic grey-green banded graphitic gneiss (unit 1) 142' 1/4" peg. dyke w/ Qtz-fs alt. 146.5'-147' leuco. coarse qtz-garnet migmatite		25° 75°			<3		
147'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-68 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE B.Q ZONE NE
STARTED OCT. 25, 1985 FINISHED OCT. 26, 1985 TOTAL DEPTH 228'
LOCATION 26+50N 16+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 929.88'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C(G)	WT % FLAKE
		SURFACE							
10		MUSKEG BOULDERS OVERBURDEN							
Box 1	1	15'-34.5' laG GRAPHITIC GNEISS -leucocratic grey-green banded biot-amph-graphitic gneiss	15	80°	<5	1-3	5 Pø rich		
20			8101	75°				1.01	
		~29' small lamprophyre dyke -contacts 25° to C/A		25° 28°					
30	1		30	15° 15°	5 <5				
Box 2	Q	34.5'-41' Q QUARTZ quartz vein containing pegmatitic, migmatitic and altered gneiss sections	8102	75° 15°			<3	0.728	
40		39'-41' altered leucocratic gneiss-migmatitic			<5	1-3	5		
	1	41'-72' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite-amphibole graphitic gneiss	45	80°					
50	1		8103					1.30	
Box 3	2	mesocratic grey-green banded biotite-amph-graphitic gneiss	55		5-10				
	3	Melanocratic grey-green finely banded biot-amph-graph-gneiss	8104	85°	10	1-2	<5 Py	2.86	
60	1	leucocratic grey-green banded biot-amph ± garnet-graphitic gneiss 62.5'-64' black biotite		50°	5-10 5	1-4 1-5			
	3	Melanocratic grey & green finely banded biotite-amph-graphitic gneiss ~66'-67' 69-70.5' } broken core	65		20 5-10	1-2	5		
70				80°	10 10-15				
Box 4	T	72'-81' laBT TRANSITIONAL GNEISS - mesocratic grey-brown and grey-green banded biotite-amphibole-garnet-muscovite-sillimanite gneiss	75		5 Tr	1-3			
80		76'-80' broken core, 1' lost.	8105	80°				2.89	

85

DIAMOND DRILL CORE LOG

HOLE 85-68 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
80	T	laBT TRANSITIONAL GNEISS (Cont'd) gradational			Tr	1-2	<5		
Box 4	3	81-85' laG GRAPHITIC GNEISS melanocratic grey & green banded biotite-amphibole graphitic gneiss L 84.5-85' Lamprophyre dyke - massive, melanocratic green, fine grained dyke.	8105 85	40° 40°	5-10 10		5 5-10	2.89	
	T	85'-87' laBT TRANSITIONAL GNEISS - leucocratic grey, brown & green banded biot-amph-garnet-sillimanite gneiss					<5		
90	11	87'-92' laB BARREN GNEISS 85' silicified gouge mesocratic grey and green banded biot & green amphibole-garnet gneiss 90' - calcite lined fracture	8106	40°				1.38	
Box 5	T	92'-96' laBT TRANSITIONAL GNEISS biot-amph-musc-gneiss - mixed transitional and graphitic gneiss	94	70° 60°	5 <5	1-3	5		
100	3	96'-111.5' laG GRAPHITIC GNEISS 96' - qtz vein -dark grey green finely banded biot-amph-graphitic gneiss 97' 1" massive Py-Po in gouge zone 111' qtz-pegmatite vein.		50° 75°	10-15 10 5	1-2 1-3			
110	1	leucocratic grey green banded biot-amph graphitic gneiss 104.5'-105' pale pink and green pegmatite dyke	8107 111	65° 70° 75°	<5			1.74	
Box 6	M	111.5'-114' M MIGMATITE 112.5'-113' pegmatite, pink. pink white & green migmatite - alteration due to pegmatite dyke.		25°			<5		
	10	114'-119' laB BARREN GNEISS fault contact 25° to C/A leucocratic grey banded biot-garnet gneiss 115' fault with lamprophyre fragments ~116' 8" white migmatite		20° 70°					
120	L	119'-128' L LAMPROPHYRE steeply dipping melanocratic massive, homogenous, dark green fine grained intrusive dyke. -slickensides sub-horizontal - drilling parallel to dyke/wallrock contact - wallrock = graphitic gneiss 10% graphite - 26% recovery					5-10		
130 Box 7	1	128'-137' laG GRAPHITIC GNEISS + Lamprophyre dyke to 130' mesocratic grey-green banded biot-amph graphitic gneiss	130 8108	75°	<5 5 <5	1-3	5	0.888	
140	T Q 1	137'-141' laBT TRANSITIONAL GNEISS 139'-140' fault bounded pegmatitic quartz vein 140'-141' leucocratic graphitic gneiss.			T <5	1-3	<5 ~5		
	10	141'-144' laB BARREN GNEISS leucocratic biotite-garnet gneiss		45°			<3		
	T	144'-146' laBT TRANSITIONAL GNEISS - leucocratic biot-garnet gneiss	145						
150 Box 8 160	1 1	146'-165' laG GRAPHITIC GNEISS leucocratic grey-green banded biot-amph-graphitic gneiss ~154'-164' mild potassic alteration 164-165' lamprophyre dyke.	8109 164	75° 40° 35° 35°	<5 5-10 <5	1-4	5 5-10	1.50	
Box 9 170 180	10 10	165'-181.5' laB BARREN GNEISS fault bounded leucocratic black & grey banded biotite-garnet-amph-gneiss 167'-168' fault with transitional and graphitic gneiss		15° 80°			<5		

DIAMOND DRILL CORE LOG

HOLE 85-68 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180	10	IaB BARREN GNEISS (Cont'd)		15°			<3		
Box 9	1	181.5'–193' IaG GRAPHITIC GNEISS -leucocratic black and grey banded biotite-amphibole gneiss	181.5	15°	<5 5-10	1-3	5	1.75	
	3	dark fine grained, grey-green finely banded graphitic gneiss	8110		10-15 5 10				
190 Box 10	1	leucocratic grey-green banded biot-amphibole graphitic gneiss Intrusive contact	193	75°	5-10 10 <5	1-5			
	P	193-195.5 P PEGMATITE — leucocratic pink pegmatite dyke.							
		195.5'–228' IaB BARREN GNEISS							
200	11	med. grey banded biot-green amphibole ± garnet gneiss							
	10	leucocratic grey and pink banded biotite gneiss -some tiny red garnets. -minor migmatite		80°					
Box 11 210				75°					
220	10								
	14	leucocratic pink and grey banded gneiss		75°					
Box 12	13	melanocratic biotite-amphibole gneiss							
228'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-69 PAGE 1 OF 3

PROJECT Bissett Creek CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Oct. 26, 1985 FINISHED Oct. 27, 1985 TOTAL DEPTH 197'

LOCATION 26+50N 15+41E COLLAR ELEVN 944.88' BEDROCK ELEVN 909.88'

ANGLE -90° AZIMUTH — LOGGED BY J. Scott

Scale 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C (G)	WT.% FLAKE
10 20 30		OVERBURDEN							
Box 1 40 50	T T	35'-55' IaB$_T$ TRANSITIONAL GNEISS biotite - muscovite - garnet gneiss 35'-36.5' unit IaG leucocratic	35 7362	40° 68°	5-10 Tr	1-3	2-3 Tr	0.484	
Box 2	1	55'-59' hG GRAPHITIC GNEISS leucocratic grey to grey-green banded biotite - amphibole gneiss - brown biotite.	54 8111	72°	5-10		<5	2.58	
60	T	59'-64' IaB$_T$ TRANSITIONAL GNEISS - mod. sharp contact parallel to banding biotite - muscovite - garnet - sillimanite ? gneiss		30° 35° 20°	Tr 5 Tr		1-2		
70	1	64'-143' IaG GRAPHITIC GNEISS leucocratic grey and grey-green banded biotite - amphibole graphitic gneiss - brown biotite - some interbanded migmatite	64 8112	70°	5-10		5-10	2.51	
Box 3 80	1	~65' 2" of unit 3 (30%)	74 8113	65° 30°				1.90	

84

DIAMOND DRILL CORE LOG

HOLE 85-69 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	1	IaG GRAPHITIC GNEISS (Cont'd)	8113		5-10	1-3	<5	1.90	
Box 3		leucocratic graphitic gneiss with interbanded mesocratic (unit 2)	84	70°					
	2	med. grey + grey green banded biotite graphitic gneiss			10				
					5-10			3.61	
90	1		8114		10	2-4			
Box 4	3	unit 3, finely banded gneiss, very broken	94		10-15	1-3			
	1				<5				
					5				
100			8115	72°	<5			1.93	
	1		107						
	2	med. grey & grey-green banded			5-10	1-2			
110	1	leucocratic							
Box 5	2	med. grey & grey-green banded	8116					3.06	
	1	leucocratic	117		5	1-3			
120		118' ½" gouge, unit 3?						2.35	
		~119' 6" of higher SiO_2 & pyrite content + 2" of numerous 2-3mm mauve garnets.	8117	80°	<5		5		
	T				5		<5		
	1	123-125' Transitional gneiss, contains numerous garnets and interbanded migmatite.	128		<5				
130									
Box 6					5				
		~130-143' interbanded migmatite, graphite poor	8118	68°				1.65	
140	1			15°					
			143	40°					
	T	143'-163' IaB$_T$ TRANSITIONAL GNEISS gradational contact		25°	Tr		Tr		
		biotite-muscovite-garnet gneiss with interbanded migmatite							
150									
Box 7				80° 85° 55°					
		158'-160' leucocratic grey and green banded biotite graphitic gneiss	157						
160	1			65°	5		<5		
	T	160'-165' core very broken, no garnets, possible faulting	8119		<5			1.81	
	1	168'-175' IaG GRAPHITIC GNEISS			5-10				
		leucocratic grey-green banded biotite amphibole graphitic gneiss	168						
170	T	168'-170' unit IaB$_T$ with interbedded migmatite		+	Tr		2		
Box 8	2	med. grey & grey-green banded biotite-graphitic gneiss	8120		5		<5	2.00	
		170' 2" pegmatite	175		<5				
	10	175'-197' IaB BARREN GNEISS- leuco. biot-garnet-interbanded migmatite gneiss							
180	11	med. grey biotite gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-69 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180	12	M <u>laB BARREN GNEISS (cont'd)</u>							
Box 8		-dark grey biotite gneiss							
		180.5'-182' migmatite, some pegmatite							
190									
Box 9	12								
	14	pink leucocratic biotite-garnet gneiss							
197'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-70 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 21, 1985 FINISHED OCT. 28, 1985 TOTAL DEPTH 187'

LOCATION 26+50N 15+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 905.88'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE			RESULTS %C(G)	
					% GRAPHITE	FLAKE SIZE	% PY+PYRR.	%C(G)	WT.% FLAKE
10									
20									
30		OVERBURDEN							
Box 1		BOULDERS							
		BEDROCK							
40	T	39'-52' laB$_T$ TRANSITIONAL GNEISS	39		Tr	1-2	Tr	0.822	
		biotite-muscovite garnet gneiss							
		39-44' broken core, muscovite-rich	8121	57°					
	3	45'-47' unit laG$_3$ med grey + grey-green			5-10		<5		
		finely banded biot-amph graphitic gneiss			Tr		Tr		
50	T		52	120°					
Box 2	2	52'-75.5' laG GRAPHITIC GNEISS			10	1-4	5	3.18	
		med grey-grey-green banded biotite-amphibole gneiss			5-10				
		58'-6" laB$_T$	8122	45°	10-15				
60				75°	5-10				
	2		62	35°	10				
	3	dark grey green finely banded biot-amph graphitic gneiss				1-2			
	1	leucocratic grey-grey-green banded biotite-amphibole gneiss			15	1-3	<5	3.05	
			8123		10				
70					5-10				
	T	71-73' biot-garnet-sillimanite gneiss - laB$_T$	72	72°					
Box 3	2	med. grey-greygreen banded biot-amph. graphitic gneiss			10			3.04	
		75.5'-86.5' laB$_T$ TRANSITIONAL GNEISS	8124		5-10				
80	T	biot-garnet-sillimanite - grey-green mottled texture							

82

DIAMOND DRILL CORE LOG

HOLE 85-70 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	T	laB_T TRANSITIONAL GNEISS (cont'd) grey-green mottled biotite-garnet-sillimanite gneiss	8124 82		5-10	1-3	5		
			8125	80°				3.50	
90	2	86.5'-92' laG GRAPHITIC GNEISS med. grey + grey-green banded biotite-amphibole graphitic gneiss	92		10				
Box 4	M	92'-97' M MIGMATITE migmatite and altered graphitic gneiss 93'-94' leucocratic pegmatite	8126		<5	1-4		2.66	
	3	97'-99' laG GRAPHITIC GNEISS - med grey-green finely banded graphitic gneiss			5-10	1-3			
100	T	99'-106' laB_T TRANSITIONAL GNEISS 101'-103.5' 104'-106' } migmatized graphitic gneiss 103.5'-104' pegmatite	102		5 <5 5				
	1	106'-159' laG GRAPHITIC GNEISS leucocratic grey + grey-green banded biotite-amphibole graphitic gneiss	8127 112	75-80°	10 10-15 5-10 10-15			2.80	
110 Box 5	1		8128 122		5-10 10 5-10 10-15 10			3.34	
120	2	med. fine grained biotite-amphibole graphitic gneiss	8129 132		5-10 10-15 5-10 10-15 5-10			3.60	
130 Box 6	2		8130 142		10 5-10	1-2		2.55	
140	1	leucocratic biotite-amphibole graphitic gneiss	8131 152		5 10 10-15	1-3		3.66	
150 Box 7	1		8132 159		10 15 10 10-15			2.80	
160	M	159'-162' M MIGMATITE white biotite migmatite					<5		
	10	162'-187' laB BARREN GNEISS - leucocratic biotite gneiss							
	12	med. grey, biotite amphibole banded gneiss							
170									
Box 8									
180	12								

DIAMOND DRILL CORE LOG

HOLE 85-70 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
180 Box 8	12 14	laB BARREN GNEISS (cont'd) dark grey banded biotite gneiss leucocratic pink fine grained quartzo-feldspathic gneiss					<3 ↓		
187'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-71 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED OCT. 28, 1985 FINISHED OCT. 29, 1985 TOTAL DEPTH 197'
LOCATION 26+50N 16+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 911.88'
ANGLE ~90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
10 20 30		OVERBURDEN							
Box 1	T	33'-48' laB$_T$ TRANSITIONAL GNEISS biotite-muscovite-sillimanite gneiss -mod. carbonated throughout -core is fractured throughout 36'-38' water loss	33 8133 43	72°	<5	1-3	5	0.374	
40	Q	43'-45' bull quartz vein							
	T	45'-48' altered and carbonate-rich 46' sericitic	8134		5	1-3	5	2.54	
	3	48'-57' laG GRAPHITIC GNEISS - finely banded dark-grey-mild carbonate			5-10 10-15		5-10		
50	2	med. grey banded biot-amph-graphitic gneiss	53	40° 75°	10	2-5			
Box 2	3	med. grey finely banded biot-amph graphitic gneiss		35°	10-15	1-3			
60	T	57'-65.5' laB$_T$ TRANSITIONAL GNEISS -med. grey-green blue banded -turquois blue-green -altered appearance, with sillimanite	8135 63	80°	5-10	1-4	5	358	
70	3	65.5'-72' laG GRAPHITIC GNEISS -med. grey finely banded graphitic gneiss with interbanded transitional gneiss	8136	15°	10		<5	2.95	
Box 3 80	T	72'-85' laB$_T$ TRANSITIONAL GNEISS ~72'- contact ~3" wide - 2" of garnets, then 1" carbonate-rich and pyritic.	73 8137		5-10			2.56	

83

DIAMOND DRILL CORE LOG

HOLE 85-71 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
80 Box 3	T	laB_T TRANSITIONAL GNEISS (cont'd)	8137 83	35° 70°	5-10 10	1-4	<5	2.56	
90 Box 4	3	85-102.5' laG GRAPHITIC GNEISS - med. grey finely banded graphitic gneiss with interbanded migmatite and altered transitional gneiss	8138 93	71°	5-10			2.44	
100	3	96'-102.5' decrease in grain size, color darker, occasional lighter colored, carbonate-rich bands up to 1" thick, parallel to banding.	8139 103		10-15 10	1-3	5	3.89	
	L	102.5'-106.5' L LAMPROPHYRE dark green, no biotite, broken core, with carbonate, contact 5° to C/A			Tr				
110 Box 5	3 3	106.5'-117' laG GRAPHITIC GNEISS med. grey finely banded graphitic gneiss - brown mineral possibly staurolite 108.8', 110' - 1" bands of garnets 112' - 2" lamprophyre dyke with a ½" predominantly carbonate vein at hanging wall contact. - sharp contact at 5° to C/A, carb. veinlets containing brick red (probably hematite) specks - shows a brecciated contact with a lime green lamprophyre which is in contact with the graphitic gneiss	107 8140 117	30° 30° 15°	10	1-4	<5	3.99	
120	T	117'-124' laB_T TRANSITIONAL GNEISS med grey - turquois banded gneiss - interbanded migmatite - occasional garnets, sillimanite	8141	80°	5-10			2.89	
	P	123'-124' pegmatite w/ graphite along feldspar boundaries		+	5	2-5			
	2	124'-127' laG GRAPHITIC GNEISS med. grey banded graphitic gneiss 126' - 2 - 1" bands, carbonate-rich, + garnets at 55° to C/A	127		10	1-3			
130 Box 6	10	127'-197' laB BARREN GNEISS - leucocratic biotite - garnet banded gneiss - interbanded migmatite and pegmatite bands - bleaching along randomly oriented hairline fractures 128.5' 2" qtz vein, followed by 5" of pegmatite 132' 2" pegmatite		55° + + 82°					
140	10	gradational							
150 Box 7	11	- med. grey biotite - amphibole gneiss, banded. 145.5' mild carbonate at contact - interbanded migmatite gneiss		75°			Tr		
160	11								
	P	163'-165' pegmatite		+ +					
170 Box 8		med. grey biotite - amphibole banded gneiss - minor interbanding of migmatite.		20°					
180	11			80°					

DIAMOND DRILL CORE LOG

HOLE 85-71 PAGE 3 OF 3

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 8	11	<u>1aB BARREN GNEISS (cont'd)</u>							
		~185' 4 parallel bands of unit 13 up to 2" thick.							
Box 9		~189' 8" pegmatite							
190		- locally interbanded unit 13 ½" to 2" thick parallel to banding		+					
	11								
197'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-72 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 29, 1985 FINISHED OCT. 29, 1985 TOTAL DEPTH 138'

LOCATION 26+50N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 919.88'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
		SURFACE							
10									
20		MUSKEG							
		BOULDERS OVERBURDEN							
Box 1 30	2	25'-38' 1aG GRAPHITIC GNEISS mesocratic grey to greygreen banded biotite-amphibole-graphitic gneiss -some small migmatitic interbands of banded grey-brown-blue garnet gneiss - lower grade. 27.5-29' med. grey transitional interband	25 8142 35	80-85°	5-10 <5 5-10 5 <5 5-10	1-3	~5	2.27	
	2	gradational			5				
40 Box 2	T	38'-47' 1aBT TRANSITIONAL GNEISS - mesocratic grey, brown and blue banded biotite-amphibole-gneiss 41'-42.5' med. grey interbanded graphitic gneiss 42.5'-43.5 leucocratic grey-green pegmatite dyke 45' coarse amphibole-garnet-biotite segregations	8143 45	45°	<5 5-10 <5 5 <5		<5	2.57	
50	2	47'-53' 1aG GRAPHITIC GNEISS mesocratic grey-banded biotite-amphibole graphitic gneiss	8144	85°	5-10 10 15 10 5-10			2.86	
	T	53'-54.5' 1aBT TRANSITIONAL GNEISS - mesocratic biot-amph gneiss	55		<5		5		
	13/12	54.5-56' 1aB BARREN GNEISS - melanocratic green amph gneiss + red garnet gneiss					<5		
60 Box 3	2	56'-99' 1aG GRAPHITIC GNEISS mesocratic grey green finely to coarsely banded biotite-amphibole graphitic gneiss	8145 65	85° 45°	5 5-10 10-15 15	1-3 1-2 1-4	~5	3.39	
70	2		8146	80°	10 15 10-15 10 5-10	1-2 1-4		3.13	
	11	73'-74.5' unit 1aB11 - dark green grey biot-amph gneiss	75				<5		
80	3	med. to dark green biotite-amphibole graphitic gneiss	8147	80°	5-10 10 15	1-3 1-2	5	3.28	

85

DIAMOND DRILL CORE LOG

HOLE 85-72 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	1	laG GRAPHITIC GNEISS (cont'd) leucocratic grey-green banded biot-amph graphitic gneiss	8147 85		10 10-15	1-4	~5	3.28	
Box 4	5	melanocratic grey-green amphibole - brown biotite graphitic gneiss			<5	1-3	5(Po)		
90	1	leucocratic grey-green biot-amph graphitic gneiss 86.5'-87.5' transitional muscovite gneiss	8148 92	80° 60°	10 <5 10 5-10		~5	3.34	
	3	finely banded grey-green, biot-amph graphitic gneiss	8149 99	45°	10-15 10 5-10 10-15 5-10	1-2		2.13	
100 Box5	10	99'-138' laB BARREN GNEISS leucocratic biotite ± garnet ± amphibole gneiss 99'-99.5' white pegmatite dyke. 104 105} small pegmatites with migmatite.		15°-80°			<5		
110	10								
	13	dark grey-green biotite - amphibole gneiss		20°					
120	10	leucocratic biotite ± garnet gneiss -pink migmatitic bands present							
Box 6	11	med. grey biotite ± garnet gneiss							
	14	leucocratic pink and grey banded biotite ± garnet gneiss							
130	11	mesocratic pink and black interbanded migmatized and altered gneiss 134'-134.5' 136'-136.5'} pink leucocratic pegmatite.		75°-80° 85°					
138'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-73 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED OCT. 30, 1985 FINISHED OCT. 30, 1985 TOTAL DEPTH 110'

LOCATION 26+50N 13+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 914.38'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT. % FLAKE
10 20 30		OVERBURDEN							
Box1	3 2	30.5-53' laG GRAPHITIC GNEISS med. grey and grey green to turquois banded brown biotite graphitic gneiss 30.5'-31.5' unit 3, finely banded gneiss	31 8150 41	8° 10°	10	1-3	5-10	3.06	
40	2	40.5' 3" band containing garnets 42'-45' altered with qtz eyes.	8151	74°	5-10 10	1-4	<5 5	2.67	
50	3	med. grey - finely banded	51		15	1-3			
Box2	2	med. grey banded.			10-15				
	3	med. grey finely banded.							
	T	53'-58' laB_T TRANSITIONAL GNEISS biotite ± muscovite ± garnet gneiss	8152		5-10	1-5		3.41	
60	2	58'-71.5' laG GRAPHITIC GNEISS med. grey and grey-green banded, interbanded unit 3 → 1" to 4" bands, graphite content up to 20% within bands	61	70°	10-15				
	1	leucocratic grey + grey-green banded -mild carbonate throughout.	8153 71		5-10 5 <5			2.05	
70 Box3	10	71.5'-78.5' laB BARREN GNEISS leucocratic garnet gneiss -interbanded migmatite.		70°					
80	M	78.5'-85' M MIGMATITE - 80% M + 20% laB host.							

DIAMOND DRILL CORE LOG

HOLE 85-73 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80	M	M MIGMATITE (cont'd) -note: may be unit laB_{14}							
Box 3	P	85'-86.5' P. PEGMATITE							
		86.5-110' laB BARREN GNEISS							
90	11	med. grey banded biotite-amphibole-garnet gneiss - minor interbanded migmatite							
Box 4	10/M	50% Migmatite + 50% Barren gneiss (unit 10)							
	10	- leucocratic, banded gneiss with interbanded migmatite and pegmatite.							
100									
	10								
	14	-pink leucocratic biotite-garnet-gneiss							
110									
110'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-74 PAGE 1 OF 3

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED OCT. 30, 1985 FINISHED OCT. 31, 1985 TOTAL DEPTH 267'

LOCATION 28+50N 17+00E COLLAR ELEVN 949.53' BEDROCK ELEVN 937.53'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
10		OVERBURDEN (Boulders)							
Box 1	1	12'-29.5' laG GRAPHITIC GNEISS leucocratic grey green banded biotite-amphibole graphitic gneiss 16'-17' altered transitional gneiss 17'-17.5' white pegmatite vein	12 7126	60° +	5 10 5-10 <5	1-3	~5 magnetic	1.80	
20	2	med. grey and grey-green banded biotite-amphibole graphitic gneiss	21		10 5-10				
	1	leucocratic grey-green banded brown biotite-amphibole-graphitic gneiss ~22'-23' pegmatite, 65° to C/A	7127	65° 70°	<5 10-15 <5 Tr	1-2 1-3		1.14	
30 Box 2	T	29.5'-67' laB$_T$ TRANSITIONAL GNEISS leucocratic grey and grey-green banded brown biotite-amphibole-muscovite gneiss 35'-35.5' white & pink pegmatite	31	45° 75° 40° + +			<5		
40	P	39.5'-41' pink grey & white pegmatite							
	T			75°					
50 Box 3	3	48.5'-50.5' unit laG$_3$ - melanocratic grey-green finely banded gneiss	47 7128 54	75°	5 15 <5	1-3 1-2		2.54	
	T	51'-51.5' quartz vein 51.5-52.5' fine grained graphitic gneiss 56'-57.5' broken ground.		△ △					
60	3	~58.5-61' unit laG$_3$ med. grey finely banded biotite-amphibole graphitic gneiss		~45° 70°	<5	1-2	<5		
	T								
70 Box 4	3	67'-73.5' laG GRAPHITIC GNEISS med. grey finely banded biotite-amphibole gneiss gradational	66 7129		<5 5-10 <5	1-2		2.13	
	T	73.5'-80.5' laB$_T$ TRANSITIONAL GNEISS leucocratic grey banded biotite-amphibole-muscovite gneiss		70°	Tr	1-3			
80				81					

DIAMOND DRILL CORE LOG

HOLE 85-74 PAGE 2 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80 Box 4	1	80.5'-86.5' IaG GRAPHITIC GNEISS gradational leucocratic grey-green banded brown biotite-amphibole graphitic gneiss	7129 81 7262 86.5	75°	<5	1-2	<5		
	M	86.5'-88' M MIGMATITE white & green garnet-amphibole migmatite.					<3		
90 Box 5 100	10 10	88'-104.5' IaB BARREN GNEISS leucocratic grey and black banded biotite ± garnet ± amphibole gneiss 98'-101' migmatitic bands. 104'-104.5' pale pink and green pegmatite P		~20° ~30° 45° 70° 75°					
	T	104.5'-107' IaBT TRANSITIONAL GNEISS leucocratic musc. gneiss			T	1-3	<5		
110	10	107'-111' IaB BARREN GNEISS gradational T leucocratic grey banded biotite garnet gneiss 110'-111' unit IaBT	110	35°	Tr	1-3	<3 <5		
Box 6	1	111'-114' IaG GRAPHITIC GNEISS leucocratic grey-green banded brown biotite-amph-graphitic gneiss	7263 114	65°	<5		5	1.147	
120 130	10 10	114'-132' IaB BARREN GNEISS leucocratic grey and black banded biotite-amphibole gneiss -random migmatitic bands. 114'-114.5' 6" transitional gneiss 126'-126.5' melanocratic biotite-Amphibolite. 131'-132' leucocratic pegmatite dyke. P		80° 80° 75° +			<3		
Box 7 140	1	132'-141.5' IaG GRAPHITIC GNEISS Contact 80 to C/A leucocratic grey-green banded brown biotite-amphibole-graphitic gneiss	132 7264 141.5	80° 80°	<5	1-3	<5	1.467	
	P	141.5'-145.5' P PEGMATITE leucocratic pegmatite dyke. gradational		+ + + +			<3		
Box 8 150 160 Box 9 170 180	10 10	145.5'-195' IaB BARREN GNEISS leucocratic grey and black banded biotite-garnet gneiss -5-10% random qtz-feldspathic migmatite bands. 146'-148' Some melanocratic biotite-amphibole segregations. 179'-180' melanocratic amph-biot-segregations		45° 75° 50° 75-80° 75°/80° 75°					

DIAMOND DRILL CORE LOG

HOLE 85-74 PAGE 3 OF 3

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180 Box 9	10	laB BARREN GNEISS (Cont'd)					<5		
		leucocratic grey and black banded biotite-amphibole gneiss							
Box 10				70°-75°					
190									
	10	intrusive contact		35°					
		195'-201.5' P PEGMATITE		35°					
	P	leucocratic massive pink, white and grey qtz-fs pegmatite		35°					
200		200'-201.5' broken ground. fault contact?		35°					
		201.5'-207' laG GRAPHITIC GNEISS	201.5		<5	1-2	6	0.371	
Box 11	2	med. grey-green banded amph- brown biotite graphitic gneiss	7265	80°					
		intrusive and fault contact	207						
	P	207'-209.5' P PEGMATITE leucocratic massive pink & white peg.					<5		
210	13	209.5'-267' laB BARREN GNEISS melanocratic biot-amph gneiss							
	10	leucocratic biotite-amphibole gneiss							
	13	melanocratic amphibole-biotite gneiss							
220	10	leucocratic gneiss gradational							
	13	melanocratic amphibole-biotite gneiss							
Box 12									
230				75°-80°					
	13								
	10/14?	leucocratic grey and pink banded biotite ± garnet gneiss							
240		- random pink qtz-fs migmatitic segregations		75°					
Box 13	10/14?	gradational		15°					
250	13	melanocratic amphibole-biotite gneiss		70°					
		- wavy banded quartz sweats common.							
260				50°					
				45°					
Box 14	P	263.5'-265' leucocratic pink pegmatite dyke.		45° 45°					
	13			45°					
267'		END OF HOLE		45° 38°					

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DIAMOND DRILL CORE LOG

HOLE 85-75 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED Oct. 31, 1985 FINISHED Oct. 31, 1985 TOTAL DEPTH 76'

LOCATION 26+50N 13+00 E COLLAR ELEVN 944.88 BEDROCK ELEVN 924.88'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
10 20		OVERBURDEN	20						
	2	20'-33' laG GRAPHITIC GNEISS med grey to grey-green banded biotite - amphibole gneiss	7124	82°	10	1-3	5	2.18	
Box 1		21' 1" 90% biotite 20'-24' broken core	27						
30	2	28' 1" carbonate - qtz - garnet band 32' mild carbonate	7125 33		5-10		<5	3.18	
	10	33'-35' laB BARREN GNEISS - leucocratic biotite - garnet gneiss - interbanded migmatite							
	P	35'-38' P PEGMATITE		10°					
40	10	38'-65' laB BARREN GNEISS leucocratic banded biotite garnet gneiss 45'-46' unit 11		68°					
Box 2	11	med. grey biotite - dark green amphibole gneiss - banded							
50	14	pink leucocratic biotite garnet gneiss							
	10	leucocratic biotite - garnet - gneiss, banded - interbanded migmatite and pegmatite - individual bands up to 1"							
60	11	med grey banded biotite - garnet gneiss		65°					
Box 3	11/P	65'-71' INTERBANDED P PEGMATITE AND laB BARREN GNEISS - individual pegmatite bands up to 8" - 50% pegmatite / 50% laB							
70	P	71'-76' P PEGMATITE 73'-76' fractures sub-parallel to C/A		49°					
80		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-76 PAGE 1 OF 4

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Oct. 31, 85 FINISHED Nov. 1, 85 TOTAL DEPTH 283

LOCATION 29+00N 17+25E COLLAR ELEVN 956.29' BEDROCK ELEVN 947.29'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT.% FLAKE
		OVERBURDEN							
Box 1 10	1	9'-31.5' laG GRAPHITIC GNEISS leucocratic grey-green banded. 12' broken core	9	70° A	5	1-3	5		
	2	med. grey to grey-green banded biot-amph-graphitic gneiss	7130		5-10 5 10 5			2.33 (2.014)	
20			20		5-10 5 5-10 10+			2.03 (0.910)	
	T	~27'-28.5 unit laB$_T$ biot-musc gneiss	7180	65°	Tr				
Box 2 30	2	med grey-grey green banded brown biotite graphitic gneiss	31.5		5-10	1-2	5+		
	T	31.5'-47' laB$_T$ TRANSITIONAL GNEISS med. grey to grey-green banded biotite-muscovite garnet gneiss							
40									
	T			72° 55°					
Box 3 50	15	47'-62' laB BARREN GNEISS 47' - 2" migmatite med. grey biotite-garnet-sillimanite gneiss -mottled texture -note*- may still be transitional -interbanded migmatite (white green)		35° 25° 45°					
60	15	57'-62' interbanded pegmatite upto 1ft (61'-62')		65°					
	Q	62'-70.5' Q QUARTZ VEIN -bull quartz, trace muscovite					Tr		
Box 4 70		~67.5'-68' pegmatite and barren gneiss		22°					
	12	70.5'-89.5' laB BARREN GNEISS 70.5' pegmatite -med grey with dark biotite bands and garnets -interbanded white migmatite -locally a light colored reflective mineral-possibly muscovite?		78° ~75° 60° local steepening			2-3		
80	12								

DIAMOND DRILL CORE LOG

HOLE 85-76 PAGE 2 OF 4

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
80 Box 4 Box 5	12 12	IaB BARREN GNEISS (cont'd). 80'-81' pegmatite 88'-89.5' transitional, altered gneiss		+					
90	2 2	89.5'-99' IaG GRAPHITIC GNEISS Med. grey - grey green banded brown biotite-amphibole-graphitic gneiss ~98.5' garnet migmatite	89.5 7181 99	68°	10 5	1-3	5	1.62	
100 Box 6	11 11	99'-106.5' IaB BARREN GNEISS med. grey banded biotite-garnet gneiss ~106' migmatite		80-85° 68°					
110	1 3	106.5-110' IaG GRAPHITIC GNEISS leucocratic grey-green banded graphitic gneiss ~109'-110' unit 3	106.5 7182 110		5 5-10 10	1-3	<5 5	3.28	
120 Box 7 130 140 Box 8 150	11 11	110'-155' IaB BARREN GNEISS Med. grey banded biotite-garnet gneiss -interbanded white migmatite ~110' - altered IaB, and white & turquois migmatite		82° 75-80° 10° 10°			<5		
160	1	155'-160.5' IaG GRAPHITIC GNEISS leucocratic grey-green banded biot-amph graphitic gneiss	155 7266 160		Tr 5 5-10 10	1-3	5	1.194	
Box 9	P/M	160.5'-164.5' P/M PEGMATITE AND MIGMATITE altered turquois with garnets and blebby pyrite, intermixed unit 11					1-2		
170 180	11 11	164.5'-214' IaB BARREN GNEISS Med. grey biotite-garnet-banded gneiss -interbanded white migmatite 171.5'-172' ~176' } migmatite							

DIAMOND DRILL CORE LOG

HOLE 85-76 PAGE 3 OF 4

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
180 Box 10	11	1aB BARREN GNEISS (cont'd) med. grey biotite-garnet-banded gneiss -interbanded white migmatite		88°					
190									
200 Box 11		207' 2" carbonate-biotite rich		78°					
		211' 6" pegmatite -carbonate, altered.		15° 10° 10°					
210	11	212'-214' altered.		30°					
	P	214'-220' P PEGMATITE white and pink pegmatite 215' altered unit 11		30° 50° 20°					
220 Box 12	2	220'-226' 1aG GRAPHITIC GNEISS med. grey banded brown biotite-amph. graphitic gneiss 220'-221' missing core, chlorite & lots of carb. at either end.	220 7267 225	15°	5-10	1-2	5	1.639	
230	10	226'-254' 1aB BARREN GNEISS 224.5'-226' altered 1aBT 222' - carbonate veinlet. leucocratic grey banded biotite-garnet-gneiss with interbanded migmatite. ~226.5'-228' hairline carbonate veinlets parallel to C/A and following joint planes.		68°					
240 Box 13	12	dark grey black biotite-amphibole gneiss		55°					
250	10	leucocratic grey biotite-garnet gneiss							
	M	254'-257.5' M MIGMATITE med-coarse grained pink migmatite							
	10	257.5'-260' 1aB BARREN GNEISS - leucocratic gneiss							
260 Box 14	L	260'-265.5' L LAMPROPHYRE dark green black with numerous carbonate crystals (calcite) -med- coarse grained. gradational.							
	11	265.5-267' 1aB BARREN GNEISS - med grey banded biotite gneiss		75°					
270	L	267'-277' L LAMPROPHYRE 267' minor migmatite. dark lime green to black med-coarse grained lamprophyre -minor hairline fractures filled with carbonate. 272' 2" pegmatite		45° 30° 25°					
Box 15 280	P	277'-283' P PEGMATITE 279.5-280' unit 15		65°					

DIAMOND DRILL CORE LOG

HOLE 85-76 PAGE 4 OF 4

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
280 Box 15	P	P PEGMATITE (cont'd)							
283'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-77 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED NOV. 1, 1985 FINISHED NOV. 2, 1985 TOTAL DEPTH 157'

LOCATION 26+00N 18+50E COLLAR ELEVN 960.70' BEDROCK ELEVN 960.70'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT. % FLAKE
		CASING BEDROCK BEGINNING OF CORE							
Box 1 10	2 2	7'-98' laG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph-graphitic gneiss ~9.5' 6" unit laBr	7 8167 17	75°	T <5	1-3	<5	0.863	
20	3	med. grey finely banded biot-amph graphitic gneiss 21'-22' unit laG2	8168		10 5-10 10	1-2 1-4	5	2.09	
	1	pale grey and grey-green banded biot-amph-graphitic gneiss.	21		5	1-3	<5		
30 Box 2			8169 37	75° 45°	3-5 5 <5 5		5	1.27	
40	1		8170 47	30° 20° 78° 60°	5-10 5 5-10			1.39	
Box 3 50		48'-49' - 7 joints/ft.	8171 57	50° 80° 30° 20° 60°	5 5-10 5		3-5	1.96	
60	1			40° 40°	3-5 5-10				
Box 4	2	med grey banded biot-amph graphitic gneiss - slightly darker variety of above with less amphibole	8172 67		10 5-10			1.76	
70		68'-69' unit laG1 70'-72' unit laG3 72' biot-amph Concentration 73' biot. garnet " 75' drusy py-qtz-carbonate vein	8173 77	25° 25° 35°	5 10 5	1-2		2.50	
80	2	77'-78' broken ground 79' 8" migmatite	8174		5-10 5			2.45	

DIAMOND DRILL CORE LOG

HOLE 85-77 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80 Box 4 Box 5	1	1aG GRAPHITIC GNEISS (Cont'd) pale grey and grey-green banded brown-biotite-amph-graphitic gneiss - minor pale pink variable garnet content 83.5' 6" migmatite	8174 87		10 5 10	1-3	5	2.45	
90	1	~92' 8" migmatite	8175 97	75°	5 10 10-15 5 Tr 10			2.72	
	3	med. grey finely banded biot-amph graphitic gneiss				1-2			
100	T	~98'-102' $1aB_T$ TRANSITIONAL GNEISS med. grey banded biot-amph-musc-garnet gneiss; mauve garnets	8176	0°	<5 5	1-3	<5	2.45	
Box 6	2	102'-113' 1aG GRAPHITIC GNEISS med. grey and grey-green banded brown-biot-amph-graphitic gneiss	107		10				
110			8177		10-15 10 10-15 10			1.77	
	T	113'-116.5' $1aB_T$ TRANSITIONAL GNEISS med. brown and blue-green banded biot-musc. gneiss	117	75°	3-5 10				
120	1	116.5'-132' 1aG GRAPHITIC GNEISS pale grey and grey-green banded biot-amph graphitic gneiss	8178		<5 10 6			1.36	
Box 7	2	T med. grey and grey green banded brown biot-amph-graphitic gneiss T 121.5'-123.5' / 125'-127' } $1aB_T$ med brown and blue-green banded biot-sillim-garnet gneiss	127		<5 5-10 3-5				
130	2		8179		5-10 5 <5			1.80	
	T	132'-138.5' $1aB_T$ TRANSITIONAL GNEISS med. brown and blue-green banded biot-sillim-amph-garnet gneiss - mauve garnets	137						
140 Box 8	2	138.5'-157' 1aG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph graphitic gneiss. T 141'-143' $1aB_T$ med brown & blue-green biot-sill-garnet gneiss	8180		10 5 10	1-2 1-3		1.81	
150	3	med. grey finely banded brown-biotite-amph-graphitic gneiss 143'-144' / 147.5'-148.5 } $1aG_2$	147		5-10	1-2			
	1	pale grey and grey-green banded biot-amph.-graphitic gneiss	8181 157		3-5			2.43	
157'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-78 PAGE 1 OF 2

PROJECT Bissett Creek CLAIM ______ CORE SIZE BQ ZONE NE
STARTED Nov. 2, 1985 FINISHED Nov. 2, 1985 TOTAL DEPTH 157'
LOCATION 26+00N 18+60E COLLAR ELEVN 960.54' BEDROCK ELEVN 953.54'
ANGLE -90° AZIMUTH — LOGGED BY U. Schmidt / J. Scott

SCALE 1:1250

NOTE: CHECK ASSAYS IN BRACKETS

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.-PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
Box 1		7-61' laG GRAPHITIC GNEISS	7		5	1-3	<5	2.13 (3.58)	
10	2	med. grey and grey green banded brown biotite-amph-graphitic gneiss	7131 (8194)	+	<5				
	3	med grey-green finely banded.			10	1-2			
	2	med grey and grey-green banded.	17		10-15	1-3		2.75 (2.08)	
20	3	med. grey-green finely banded.		75°	10	1-2			
	1	pale grey and grey-green banded.	7132 (8195)		5	1-3			
			27		10			1.73 (1.59)	
Box 2 30					5				
		30.5' 31.5' } pale pink and green migmatite	7133 (8196)	75°					
40			37					1.28 (1.48)	
	1		7134 (8197)		5-10				
			41	75°	5			2.02 (2.56)	
Box 3 50	2	med grey and grey-green banded		65°					
		50-52' 55' } broken core; drusy qtz-carb-py-veining	7135 (8198)	45° 30° 40°	5-10				
			57	20°				3.02 (2.34)	
60	2				10				
	T	61-73.5' laBy TRANSITIONAL GNEISS	7136 (8199)	15°	5-10				
Box 4		med grey biotite-garnet-sillimanite gneiss - very similar in appearance to unit 2 - some interbedding with unit 2		80°					
			67	80°	10			(2.60)	
70		63' py-qtz-carb veining			5				
	T	- brecciation within py-qtz-carb. veins	7137 (8200)	82°	10				
		73.5'-81' laG GRAPHITIC GNEISS			5				
	1	leucocratic biot-amph graphitic gneiss	77						
80		73.5' 3" py-qtz-carb-vein	7138 (6908)		5-10			2.48 (2.88)	

DIAMOND DRILL CORE LOG

HOLE 85-78 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	1	laG GRAPHITIC GNEISS (cont'd) - leucocratic gneiss	7138 (6908) 87		5-10 10	1-3	<5	2.48 (2.88)	
Box 5	2	med. grey + grey-green banded brown biotite-amph-graphitic gneiss			10-15		5		
90	T	87'-92' laBT TRANSITIONAL GNEISS biotite-garnet-sillimanite gneiss; grey-grey-green banding	7139 (6909) 97		5-10	1-4		2.50 (3.67)	
	2	92'-101' laG GRAPHITIC GNEISS med grey to grey-green banded biot-amph graphitic gneiss 97.5'-99' migmatite.				1-3			
100	1	leucocratic banded graphitic gneiss	7140 (6910) 107	71°	5			3.35 (3.20)	
Box 6	T	101'-105' laBT TRANSITIONAL GNEISS biotite-sillimanite-muscovite gneiss			Tr				
110	2 2	105'-116.5' laG GRAPHITIC GNEISS med to dark-grey banded biot-amph graphitic gneiss 105'-106.5' unit 3	7141 (6911) 117		15+ 10		<5	3.75 (3.50)	
	T	116.5'-119' laBT TRANSITIONAL GNEISS - biot-sillimanite gneiss			5				
120 Box 7	3	119'-122' laG GRAPHITIC GNEISS - med grey-finely banded biot-amph-graphitic gneiss.	7142 (6912) 127	85°	10 10-15			1.50 (1.53)	
130	T	122'-141' laBT TRANSITIONAL GNEISS - biot-garnet-muscovite-sillimanite gneiss -interbanded migmatite and unit 2. ~128.5'-129' ~134.5'-136.5' } unit 2	7143 (6913) 137	25° 70°	5 5-10		5	1.26 (1.52)	
140	T				15	1-4			
Box 8	3	141'-157' laG GRAPHITIC GNEISS med. grey finely banded biot-amph graphitic gneiss - minor interbanded migmatite ~142'-143.5' unit laBT	7144 (6914) 147		10	1-2 2-4 1-2		3.19 (3.04)	
150	1	leucocratic grey and grey-green banded - interbanded migmatite	7145 (6915) 157	82°	5-10 5			2.05 (1.81)	
157'		END OF HOLE	(check assay)						

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-79 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED NOV. 2, 1985 FINISHED NOV. 3, 1985 TOTAL DEPTH 157'
LOCATION 26+00N 18+70E COLLAR ELEVN 961.26' BEDROCK ELEVN ______
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

NOTE: CHECK ASSAYS IN BRACKETS

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR	RESULTS % C(G)	RESULTS WT.% FLAKE
Box 1 10	T	5.5'-11' IaB$_T$ TRANSITIONAL GNEISS - leucocratic grey banded biotite-amphibole gneiss - migmatitic in sections; interbanded with med. grey graphitic gneiss	5.5 6918 (7146) 11	70°	<5 5	1-3	<5 5-10	1.40 (1.38)	
20	2 2	11'-79' IaG GRAPHITIC GNEISS gradational. - mesocratic grey green banded biotite amphibole gneiss ~12' - ground core, 60% recovery. ~13-16' - random migmatized bands.	6919 (7147) 20	75-80°	10 5-10 10 10-15 10 5-10 10	1-2 1-3		3.42 (3.56)	
Box 2 30	1	- leucocratic grey-green banded biot-amph graphitic gneiss 26'-28' transitional gneiss, alteration zone 27-27.5' leucocratic pegmatite	6920 (7148) 32	70-85° + 75-85°	5 <5 5 <5 5			1.53 (1.64)	
40		28.5'-29.5' } 38.5-39.3' } transitional gneiss ~43' slightly bleached fractures	6921 (7149) 41	40°	5-10 5			1.61 (1.53)	
Box 3 50	1	52' 1" pegmatite dykelet gradational	6922 (7150) 54	85° +	<5 5 <5 5 <5 5			1.32 (1.38)	
60	2	mesocratic grey-green banded biotite-amphibole gneiss 54' - banded vuggy calcite-qtz-py vein with schist breccia fragments 58' gouge	6923 (7151) 63	80° 80° 80°	5-10 10 10-15			2.03 (2.80)	
Box 4 70	T 2 T	57.5'-58' } 62.5'-63' } banded vuggy calcite-qtz-py veins 63' slickensides 64'-66' } 71'-73' } IaB$_T$ - mesocratic grey and grey-green banded biot-amph gneiss, trace Sill.; gradational contacts	6924 (7152) 73	80° 80° 10° 85°	5-10 10 5-10 10 10-15 5-10			3.33 (2.58)	
80	1 T	leucocratic grey and green banded biot-amph graphitic gneiss 74'-75' calcite-py- vein w/ gouge. 78' - grey, pink-green pegmatite blotches 79-82 IaB$_T$ TRANSITIONAL GNEISS - migmatitic.	6925 (7153) 82	10° 85° +	5			2.21 (1.96)	

DIAMOND DRILL CORE LOG

HOLE 85-79 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80	T	IaB$_T$ TRANSITIONAL GNEISS (cont'd) - leucocratic grey banded.	6925 82		5	1-3			
Box 5	3	82'-85' IaG GRAPHITIC GNEISS mesocratic finely banded biot-amph-graphitic gneiss	6926 (7154)		10		5	2.60 (3.11)	
	T	85'-90' IaB$_T$ TRANSITIONAL GNEISS leucocratic coarse-grained biot-amph gneiss 88.5'-90' leucocratic qtz-feldspathic migmatite with IaB$_T$	91	80°	5-10 <5		<5		
90	2	90'-101' IaG GRAPHITIC GNEISS mesocratic grey-green banded biotite-amphibole-graphitic gneiss 92.5'-94' transitional gneiss IaB$_T$	6927 (7155) 101	80°	5-10 10 5-10 10 15 10 10-15 15		5	3.45 (3.77)	
100	2								
Box 6	T	101'-135.5' IaB$_T$ TRANSITIONAL GNEISS leucocratic grey, black and blue banded biotite-amphibole-sillimanite-garnet gneiss	6928 (7156) 107		<5		3-10	0.741 (0.640)	
110	3	109'-111' finely banded graphitic gneiss unit 3.	6929 (7157) 116	85°	5-10 10 5 10	1-4		2.67 (2.72)	
		~112' migmatized, random coarse graphite clots!							
120 Box 7		116.5'-117.5' migmatite 125.5'-126.5' melanocratic biotite gneiss 126.5'-127.5' ground core, 40% recovery.	6930 (7158) 125.5	65° 80°	<5 5 <5			1.13 (1.55)	
130		128-129' migmatized zone.	6931 (7159) 136	80°	10 <5 5 5-10	1-2 1-4		0.908 (1.00)	
	T	gradational							
	2	135.5'-157' IaG GRAPHITIC GNEISS - mesocratic grey mottled biot-amph gneiss	6932 (7160)		10 15 10-15 5-10 <5	1-3	5-10	3.52 (3.47)	
140 Box 8	1	leucocratic biotite-amphibole graphitic gneiss - traces of garnet.							
	2	mesocratic grey-green biotite-amphibole graphitic gneiss	146	75°	10	1-2			
	1	leucocratic grey-green banded biotite-amphibole graphitic gneiss	6933 (7161)	80°	<5	1-3		1.10 (1.44)	
150		148.5'-150' leucocratic pegmatite and migmatite			<5	1-4			
	1	~154' random coarse mottled graphite	157	75°					
157'		END OF HOLE	(check assays)						

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-80 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM _____ CORE SIZE BQ ZONE NE

STARTED Nov. 3, 1985 FINISHED Nov. 3, 1985 TOTAL DEPTH 157'

LOCATION 26+00N 18+80E COLLAR ELEVN 961.35' BEDROCK ELEVN 955.35'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

NOTE: CHECK ASSAYS IN BRACKETS

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
		OVERBURDEN							
Box 1		6'-10.5' laG GRAPHITIC GNEISS	6		<5	1-3	2-3		
	1	leucocratic grey & grey-green banded brown biot.-amph-graphitic gneiss 7-8' laBT	6934					1.24	
10		10.5'-15.5' laBT TRANSITIONAL GNEISS	(7162)		5	1-4	5	(1.57)	
	T	biotite - sillimanite - gneiss			5-10				
			15.5		5				
	3	15.5'-73.5' laG GRAPHITIC GNEISS - med to dark grey finely banded biot-amph graphitic gneiss	6935		10	1-3	5-10	3.35	
20	2	med. grey and grey-green banded biot-amph graphitic gneiss -interbanded migmatite; gradational contacts.	(7163)		5-10			(3.64)	
			22.5	76°					
	1	-leucocratic grey to grey-green banded biot-amph graphitic gneiss with interbanded white qtz-migmatitic bands.			5+		5		
Box 2		22.5' - mild carbonate	6936					1.20	
30		25.5'-26.5' Transitional gneiss	(7164)					(1.42)	
			32						
			6937					1.41	
		37.' - minor chloritization along qtz-band margins.	(7165)		5-10			(1.87)	
40			42		5				
Box 3	1	gradational	6938 (7166)	83°				1.42 (1.45)	
50	2	med. grey to grey-green banded	52						
			6939		5-10				
	3	med to dark grey finely banded.	(7167)		10-15	1-2		2.38 (2.47)	
	T	58'-59' laBT	58						
60	2	med grey to grey-green banded graphitic gneiss	6940	41°	5-10 10	1-3		2.39	
		-intermixed with transitional unit usually containing mauve garnets	(7168)					(3.00)	
Box 4			66	30°					
		68' - broken core.	6941					1.79	
70		68'-74' - ½"-3" chloritized-carbonate bands	(7169)					(3.00)	
	2		73.5						
	T	73.5'-76' laBT TRANSITIONAL GNEISS - biot-garnet-sillimanite gneiss	6942		5-10			2.38	
	3	76'-104.5' laG GRAPHITIC GNEISS - med. grey finely banded.	(7170)	80°	Tr	1-2		(2.03)	
80	1	leucocratic grey to grey-green banded biot-amph graphitic gneiss			6-10	1-3			

82

DIAMOND DRILL CORE LOG

HOLE 85-80 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4		laG GRAPHITIC GNEISS (cont'd)	82		5-10	1-3	5		
Box 5	1	leucocratic grey to grey-green banded biot-amph graphitic gneiss	6943 (7171)		5 ↓	↓	↓	1.78 (2.50)	
	3	med. grey finely banded brown biotite-amph.-graphitic gneiss	88		10				
90	2	med. grey banded brown biotite-amph graphitic gneiss -mixture of units 2,3 and laB_T	6944 (7172) 94		5-10 ↓ 10	↓ 1-2	5+ ↓ 5-10	2.96 (0.457)	
		88', 91', 94'-95', 100'-101' } laB_T ~92'-93' - unit 3 ~94'-96.5' mild carbonate	6945 (7173) 102	76°	<5 5-10 10 5-10	1-3	5+	3.01 (2.59)	
100 Box 6	2		6946		5		↓	0.937	
110	T	104.5'-114' laB_T TRANSITIONAL GNEISS grey to grey-green banded biotite-garnet-sillimanite gneiss -graphitic	(7174) 114	74°	<5 ↓		<5	(1.11)	
	2	114'-126.5' laG GRAPHITIC GNEISS med. grey to grey-green banded brown biotite-amph graphitic gneiss -texture becomes mottled at times.	6947 (7175) 120	20° 52°	5-10			2.24(2.35)	
120 Box 7	2		6948 (7176) 126.5	62° 75°	↓	↓	↓	2.03 (2.15)	
	P	126.5-129.5 P PEGMATITE - turquoise staining	(7177)				1-2	(3.00)	
130	T	129.5'-135' laB_T TRANSITIONAL GNEISS biot-garnet-sillimanite gneiss - grey to grey-green mottled to banded texture.	130 6949 135	10°	<5 ↓	1-3		0.464	
	3	135'-157' laG GRAPHITIC GNEISS med. grey finely banded to homogeneous textured graphitic gneiss 139'-140' laB_T	6950 (7178) 142.5		10 ↓ 5-10			3.70 (3.36)	
140 Box 8 150	1	leucocratic grey to grey-green banded brown biot-amph. graphitic gneiss 146' - ½" band of garnets 150'-150.5' white pegmatite	6951 (7179) 157	58° 80°	5 ↓	↓	↓	1.63 (1.57)	
157'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-81 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED NOV. 4, 1985 FINISHED NOV. 4, 1985 TOTAL DEPTH 57'

LOCATION 26+50 N 12+75 E COLLAR ELEVN 944.88' BEDROCK ELEVN 926.88'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
10		OVERBURDEN							
		BOULDER? may be at bedrock (TRANSITIONAL)	18						
20 BOX 1	T	18'-24' laB_T TRANSITIONAL GNEISS -grey green banded biotite garnet gneiss	8182 24	73°	10 5-10 Tr	1-4	5	2.55	
	10	24'-29.5' laB BARREN GNEISS - leucocratic biotite- garnet - gneiss - interbanded migmatite							
30	M	29.5'-31' M MIGMATITE - pink - med. grained migmatite		65°					
	10	31'-42.5' laB BARREN GNEISS - leucocratic - biotite - garnet gneiss 31.5' 2" chloritic, carbonate veinlet ∠65° to C/A							
40	12	med. to dark grey biotite gneiss ~35'-35.5' unit 11 38' 2-3 random hairline carbonated veinlets with red staining 41'-42.5' interbanded migmatite ~50%		69° 12°					
BOX 2	P	42.5'-48' P PEGMATITE white and pink coarse grained quartz-feldspar-biotite pegmatite							
50	15	48'-57' laB BARREN GNEISS med. grey dark biotite-sillimanite gneiss		72°					
BOX 3	11	med. grey biotite gneiss							
60		END OF HOLE							
70									
80									

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-82 PAGE 1 OF 5

PROJECT BASSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED Nov. 4, 1985 FINISHED Nov. 6, 1985 TOTAL DEPTH 397'
LOCATION 26+00N 19+00E COLLAR ELEVN 959.59' BEDROCK ELEVN 952.59'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		SURFACE OVERBURDEN							
Box 1	2	7'-9' IaG GRAPHITIC GNEISS oxidized fractures.	7		5 5-10	1-3	5		
10	T	9'-20.5' IaB_T TRANSITIONAL GNEISS leucocratic grey, green and brown banded biot-amph-sillimanite muscovite ± garnet gneiss - migmatitic bands common - some interbands of leucocratic biotite gneiss	6980 18	75° 70°	<5 6 <5 5			0.954	
20	T	P 19.5'-20.5' pegmatite - leucocratic grey & green mottled dyke		40°	<5 +		Tr		
	1	20.5'-47.5' IaG GRAPHITIC GNEISS - leuco. green & grey banded biot-amph gneiss	6981	40°	<5	1-3	5	2.150	
	3	melanocratic finely banded biot-amph graphitic gneiss gradational		75°	10	1-2			
Box 2	2	mesocratic biotite-amph gneiss gradational	28		5-10 10	1-3			
30	1	leucocratic grey-green biot-amph graphitic gneiss 38-38.5' 43' } migmatitic bands.	6982 38	80°	5-10 5 <5		5-10	1.66	
40			6983	75° 25° 20° 45°				0.506	
Box 3	1		47.5						
50	P	47.5'-52.5' P PEGMATITE leucocratic white, grey and pink qtzo-feldspathic biot-py dyke - very coarsely mottled - gradational		25° 25° 25° 45°	+ + + +		5		
	1	52.5'-103' IaG GRAPHITIC GNEISS leucocratic grey and green banded biot-amph graphitic gneiss with tiny calcite blebs.	52.5 6984 62	75°	<5 5-10 5 <5	1-3	~5	0.819	
60									
Box 4	P	62'-63.5' pegmatite dyke - leucocratic white, grey, green and pink quartzo-feldspathic biot-pyrite dyke.			+		<3		
	1		63.5		<5	1-2	5		
70	2	mesocratic grey to grey-green banded biotite-amphibole-graphitic gneiss 69' - pyrite lined joint	6985 73	80° 40°	5 5-10 5 5-10	1-3	5-10	2.52	
80	2		6986	20° 80°	5 5-10			2.87	

83

DIAMOND DRILL CORE LOG

HOLE 85-82 PAGE 2 OF 5

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
Box 4 80	2	laG GRAPHITIC GNEISS (cont'd) mesocratic grey to grey-green banded biot-amph gneiss	6986 83		5-10	1-3	5-10	2.87	
Box 5	1	leucocratic grey to grey-green banded graphitic gneiss	(7107)→ 6987	84' 80° 87'	7/10 5-10			(4.95) 2.84	
90	2	mesocratic grey and green banded biot-amph graphitic gneiss	93		10 10-15 5-10				
	1	leucocratic grey and brown banded biotite-amph graphitic gneiss			5 <5		3-5		
	2	mesocratic grey and brown banded	6988	80°	5-10			1.62	
100	1	leucocratic grey and brown (interbands of laB$_T$) gradational			<5		<5		
Box 6		grey and green banded gradational.	105		5	1-2			
	T	103'-122' laB$_T$ TRANSITIONAL GNEISS leucocratic grey, brown & blue banded biotite-amphibole-garnet-sillimanite gneiss	7354	75°	Tr	1-4		0.5433	
110		109'-113' - 10% sillimanite, 10-30% mauve garnets	114.2						
		113'-117' 5% sillimanite, 5-15% mauve garnets	115 7268	75°	<5	1-4	~5	0.780	
120	T								
Box 7	2	122'-126' laG GRAPHITIC GNEISS mesocratic grey banded biot-amph-graphitic gneiss	122 6989 126		5-10 5 5-10	1-2 1-3	<5 5-10	2.32	
	P	126'-128.5' P PEGMATITE - leucocratic grey mottled pegmatite 127'-128.5' carbonate veinlets					<3	0.372	
130	T	128.5'-138' laB$_T$ TRANSITIONAL GNEISS mesocratic to leucocratic grey-banded biot-sillimanite-amph. gneiss ± muscovite	7355	80°			2.5		
	T	-possibly altered graphitic gneiss 136.5'-137.5' silicified and pyritic bleached zone.	137		T	1-2			
140	2	138'-163' laG GRAPHITIC GNEISS- mesocratic grey biot-amph-graphitic gneiss		85°	10 5	1-3	5	2.10	
Box 8	1	leucocratic grey banded biot-amph-graphitic gneiss - calcareous.	6990 147		<5				
150			6991 156	85° 75°	5 5-10 <5			1.68	
		B 156'-157' Amphibolite - melanocratic amph-biot-garnet amphibolite		30° 75°	<5	1-3	5	1.85	
160 Box 9	1	grey-and green banded graphitic gneiss 160'-161' unit laB$_T$	6992 163						
	10	163'-185.5' laB BARREN GNEISS leucocratic grey and black banded biotite-garnet ± amph. gneiss		75°			<3		
170		-migmatitic in spots.		20° 80°					
		178'-179' migmatitic zone.		30°					
Box 10 180	10								

DIAMOND DRILL CORE LOG

HOLE 85-82 PAGE 3 OF 5

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
180 Box 10	10	1aB BARREN GNEISS (cont'd) leucocratic grey banded biotite-garnet-amphibole gneiss gradational		85°			<3		
190	M	185.5'-192' M MIGMATITE Zone of white migmatite with minor pegmatite and unmigmatized barren gneiss		35° 70°					
Box 11 200	1 1	192'-202' 1aG GRAPHITIC GNEISS leucocratic grey green banded biot-amph-graphitic gneiss	192 6993 202	10° 75°	3-5	1-3	<5	1.38	
210	10 10	P 202'-267' 1aB BARREN GNEISS 202'-203' white, pink & green coarse mottled pegmatite leucocratic grey and black banded biotite-amphibole gneiss -random migmatitic bands with contorted banding common.		70° 20°			<3 Tr-3		
Box 12 220 230 Box 13 240 250 Box 14 260	11 11 11	med. grey and pink interbanded biotite ± garnet ± amphibole gneiss 227.5'-228.5', ~230'-231.5' } melanocratic amphibole-biotite segregations. 238'-246' migmatitic interbands 246'-247' pegmatite dyke. 257'-259' pegmatite and migmatite in fault.		70° 15° 70° 50° 45° 60° 70° 60° 45° 55° 30° 80°					
270	P	267'-271.5' P PEGMATITE leucocratic pegmatite		80°					
Box 15	M	271.5'-276' M MIGMATITE migmatized and segregated amph-biot. with pegmatite							
280	11	276'-347' 1aB BARREN GNEISS med. grey & pink interbanded biot ± garnet ± amphibole gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-82 PAGE 4 OF 5

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
280 Box 15	11	1aB BARREN GNEISS (Cont'd)					<5		
		med. grey banded biotite-garnet gneiss with interbanded pink migmatite -deformation of banding around migmatitic bands.		83°					
290		288'-288.5' unit 12							
Box 16		-occasional pegmatitic bands 1-2"							
300									
310 Box 17	11								
320				72°					
	P/M	321'-323.5' pegmatite and migmatite							
	11	~326'-327' very biotite-rich, minor chlorite							
		327'-347' migmatite interbands become white in color.							
330 Box 18									
340				73°					
		345-347' 50% interbanded pegmatite.							
	11								
	2	347'-356.5' 1aG GRAPHITIC GNEISS 347' transitional	347	20° 28°	5	1-3	5		
360 Box 19		med. grey to grey-green banded 348'-351' local banding change to 63° carbonate Core broken (also broken 353'-355')	7269	15° 45°					
	2	352'- lime green alteration (possibly epidote; no crystals seen)			5-10				
	T	355-356.5' 1aBT biot.-garnet-sillimanite gneiss	357						
	10	356.5'-397' 1aB BARREN GNEISS leucocratic biotite-garnet-gneiss					<5		
360		med. grey biotite-garnet gneiss							
	11	-interbanded pink migmatite and occasional pegmatite							
	12	dark grey biotite-gneiss		75°					
370 Box 20		-interbanded dark biotite rich bands with whiter felsic to migmatitic bands.							
	12								
	11	-med. grey biotite gneiss with interbanded pink migmatite		15°					
380		378-379.5' leucocratic gneiss unit 14?		15°					

DIAMOND DRILL CORE LOG

HOLE 85-82 PAGE 5 OF 5

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
380	11	1aB BARREN GNEISS (cont'd)					<5		
Box 20	12	- dark biotite-amphibole gneiss		25°					
Box 21 390				68°					
	12								
397'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-83 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED NOV. 4, 1985 FINISHED NOV. 5, 1985 TOTAL DEPTH 108'

LOCATION 26+00N 12+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 931.88

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT.% FLAKE
		SURFACE MUSKEG							
10									
Box 1		BOULDERS – GRAPHITIC OVERBURDEN					<3		
	10	13'-21' IaB BARREN GNEISS leucocratic biotite-garnet gneiss -migmatitic in part 17.5-18.5' melanocratic green amphibole biotite gneiss		70°-80°					
20									
	T	21'-27.5' IaB$_T$ TRANSITIONAL GNEISS mesocratic biotite-amphibole-muscovite-sillimanite-garnet gneiss - mauve garnets 22'~23' mesocratic graphitic gneiss	21	70°	<5 10 Tr	1-2	~5		
Box 2 30	3	27.5'-54' IaG GRAPHITIC GNEISS med to dark grey finely banded biot-ampl graphitic gneiss	8183	65°	<5		5	1.42	
	T	31'-32.5' leucocratic migmatized biot-amph-musc. gneiss, IaB$_T$	33	70°			<3		
	2	Mesocratic grey banded biotite-amphibole graphitic gneiss 34' quartz vein 36'-36.5' leucocratic feldspar-garnet-migmatite.	8184	35°	<5 5-10 Tr 5-10 10	1-3	5	1.72	
40	1	altered leucocratic graphitic gneiss - quartz-feldspar-garnet ± sulphides bands.	45		Tr	1-2	5-10		
Box 3 50	1	leucocratic green and grey banded biotite-amphibole graphitic gneiss	8185	75°	5 5-10 Tr	1-3	5	1.94	
	10	54'-61' IaB BARREN GNEISS 54'-55' IaB$_T$ leucocratic biotite-amphibole-garnet gneiss 59'-59.5' 60'-61' } melanocratic amphibole segregations 15° to C/A	55	15°			<5		
60	L	61'-67.5' L LAMPROPHYRE DYKE melanocratic ~64'-67' broken core		40° 30° 45°			5-10		
Box 4									
70	10/14	67.5'-87.5' IaB BARREN GNEISS leucocratic grey and pink banded biotite-amphibole gneiss 68'-69' pegmatite dyke.							
80	10/14								

DIAMOND DRILL CORE LOG

HOLE 85-83 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT. % FLAKE
80 Box 4	10	IaB BARREN GNEISS (cont'd) leucocratic					<2		
	11	mesocratic grey and black banded biot-amph gneiss							
Box 5	10	leucocratic biot ± amphibole ± garnet gneiss		70° 60°					
	P	87.5'-90' P PEGMATITE - leucocratic pink coarse grained pegmatite		20°					
90	14?	90'-108' IaB BARREN GNEISS leucocratic dark pink biotite ± garnet gneiss - appears to be potassic alteration of gneiss		70° 80°			Tr		
	13	melanocratic biotite amphibole gneiss		20°			<2		
100	M 14	leucocratic pink potassium-altered migmatite pink leucocratic gradational					Tr		
	13	melanocratic biotite-amphibole gneiss		75-80°			<2		
108'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-84 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 5, 1985 FINISHED Nov. 5, 1985 TOTAL DEPTH 107'

LOCATION 26+00N 13+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 919.88

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
10 20		OVERBURDEN							
Box 1 30 40	10 10	25'-41.5' laB BARREN GNEISS leucocratic banded biotite-garnet gneiss - interbanded migmatite 5-30% of host - very siliceous 28' 29' } pegmatite 37' broken core sharp contact		10° 50°			Tr		
Box 2	3 2	41.5'-49.5' laG GRAPHITIC GNEISS 41.5'-42' laBT biot-sillimanite med. to dark grey finely banded biot-amph graphitic gneiss med grey to grey green banded	6994	42 10° 49	<5 10 5-10	1-3 1-2	<5 5	1.75	
50	T/P 2	49.5'-53' laBT/P TRANSITIONAL GNEISS/PEGMATITE 52.5'-53' unaltered T. biot-musc-garnet, altered, 30% pegmatite, steel blue coloring locally 53'-57' laG GRAPHITIC GNEISS ~53' - 2" qtz vein followed by 2" abundant 1-2mm garnets. med. grey banded biot-amph graphitic gneiss	6995	75° 57 40°	5 5-10 10	1-4 1-3	5+	2.04	
60	L	57'-61.5' L LAMPROPHYRE - dark green, high carbonate content, soft 1-3mm subrounded white phenocysts? possibly carbonate - specular hematite? 57'-59' broken core, soft w/1-2mm random carbonate veins		25° 25° 28°					
Box 3 70	2 2	61.5'-70' laG GRAPHITIC GNEISS med. grey to grey-green banded brown biotite-amph gneiss-interbanded migmatite 61.5'-63' 69.5'-70' } laBT biotite - minor sillimanite	6996	62 70 73°	5-10 10 5-10 10	1-3	<5 5	2.94	
80	10 10	70'-107' laB BARREN GNEISS leucocratic biotite-garnet gneiss 71' pegmatite		75°					

DIAMOND DRILL CORE LOG

HOLE 85-84 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	10	laB BARREN GNEISS (cont'd) leucocratic biotite-garnet gneiss							
	12	-dark grey banded biotite gneiss -interbanded unit 10							
90	10	leucocratic biotite - garnet gneiss							
	14	pink leucocratic biotite-garnet gneiss							
	11	med grey banded biotite - garnet gneiss		78°					
	12	dark grey banded biotite gneiss 97' pegmatite							
100 Box5	12								
	15	dark grey biotite - garnet - sillimanite gneiss							
107'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-85 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED Nov. 6, 1985 FINISHED Nov. 7, 1985 TOTAL DEPTH 157'

LOCATION 25+50N 19+00E COLLAR ELEVN 938.60' BEDROCK ELEVN 934.10'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		SURFACE OVERBURDEN							
Box 1	2	4.5-88' IaG GRAPHITIC GNEISS mesocratic grey and green banded biotite-amphibole graphitic gneiss	4.5 6968 11	85°	10-15 5-10	1-3	5-10	2.93	
10	1	leucocratic grey-green banded biotite-amphibole graphitic gneiss	6969 23		<5 5 <5 5 <5		<5	1.40	
20 Box 2			6970 34	75°	5 <5 5 <5			1.42	
30 40		38-39' IaB_T Transitional gneiss	6971 44	80°				1.70	
Box 3 50	1 2	mesocratic grey green banded biotite graphitic gneiss -small interbands of transitional gneiss with brown biotite and mauve garnets. -trace sillimanite	6972 54	70° 20° 80° 20°	5-10 10 5-10 10 5-10		5-10	2.82	
60		62-63' transitional gneiss with garnets.	6973 64	80° 65°	10 5-10			2.02	
Box 4 70	2	~67.5-68' 8" shear zone; quartz-calcite-pyrite vein & breccia	6974 74	75°	10 <5 5-10 10 <5		5	2.20	
80	1	leucocratic grey and green banded biotite-amphibole-graphitic gneiss	6975 80		5-10 10 5-10 <5			1.81	

DIAMOND DRILL CORE LOG

HOLE 85-85 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
Box 4 80 Box 5	1 2 2	leucocratic laG GRAPHITIC GNEISS (Cont'd) mesocratic grey and green banded biotite-amphibole graphitic gneiss gradational	80 6976	80°	5-10 10 10-15 10 15 10-15	1-3	5-10	2.74	
90	T	88'-91' laB$_T$ TRANSITIONAL GNEISS -leucocratic grey, brown & blue banded biot-amph-sillimanite gneiss	90	85°	<5				
	3 1	91'-98' laG GRAPHITIC GNEISS melanocratic fine grained banded biot-amph-graphitic gneiss leucocratic grey-green banded biot-amph-graphitic gneiss	6977	60°	10 15 5 <5	1-2 1-3		2.19	
100 Box 6	T	98'-103' laB$_T$ TRANSITIONAL GNEISS leucocratic grey brown and blue banded biot-amph-sillimanite-muscovite-garnet gneiss; mauve garnets; migmatitic in parts.	102				5		
110	3 3	103'-117' laG GRAPHITIC GNEISS mesocratic finely banded biot-amph-graphitic gneiss -transitional and leucocratic gneiss interbands 105'-106' leucocratic migmatite gradational	6978 112 6979	80° 70° ΔΔ	10 15 <5 15-20 10 5-10 <5 5-10 5 5-10 <5 5 <5		5-10 15 5	2.52 1.32	
120 Box 7	T T	117'-130' laB$_T$ TRANSITIONAL GNEISS leucocratic grey, brown and blue banded biotite-amphibole-muscovite gneiss - interbanded with barren gneiss - migmatitic in parts. 117'-118' ground core, 6" lost?	122	70°	Tr				
130	10 10	130'-138' laB BARREN GNEISS leucocratic grey and black banded biotite-amphibole gneiss ± garnets - interbanded with transitional gneiss	7370				<5	0.1283	
Box 8 140 150	T T	138'-155' laB$_T$ TRANSITIONAL GNEISS leucocratic grey, black, and blue banded biotite-amphibole-muscovite gneiss ± garnets -migmatite interbands common 148'-149' leucocratic pegmatite dyke. 70° to C/A	144 7371	70° 70°			3-5 10	0.1683	
Box 9	P	155'-157' P PEGMATITE - leucocratic white pegmatite dyke.	157				Tr		
157'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-86 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 7, 1985 FINISHED Nov. 7, 1985 TOTAL DEPTH 157'

LOCATION 25+50N 18+50E COLLAR ELEVN 933.85' BEDROCK ELEVN 922.35'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
10		OVERBURDEN							
Box 1	1	11.5-52' IaG GRAPHITIC GNEISS	11.5		<5	1-3	5		
		- leucocratic grey and grey-green banded biot-amph. graphitic gneiss - altered with interbanded white and pink migmatite. - locally carbonate veins up to 1cm usually carrying pyrite - mottled texture	6952	80°-85°	5			1.42	
20			22.5	25° 12°	<5				
		21-23' broken core, carbonate veins minor chloritization	6953	3°	5 5-10 5			1.68	
Box 2 30	1	alteration less pronounced	29	35°	<5				
		33.5'-34.5' minor carbonate banding disappears	6954 37		5			1.16	
40		34.5'-35.5 transitional; large garnets minor hematite	6955 45	85°-90° 10° 25°	5-10	1-2		2.58	
		43-44' 47-48' } transitional gneiss			<5		<5		
Box 3 50	1		6956	20° 10°	5 <5 5	1-3		2.03	
	T	52'-60.5' IaB$_T$ TRANSITIONAL GNEISS grey-grey green banded biotite-garnet gneiss - minor sillimanite locally 54' ½" carbonate vein 54-55' altered.	55		<5 5-10				
60	T			35°					
	1	60.5'-84' IaG GRAPHITIC GNEISS leucocratic grey-green banded biot-amph-graphitic gneiss 60.5' broken core 65.5'-67' broken core, altered, ½" lamprophyre dyke	6957 67	15° 45°	5 5-10	1-2		1.84	
	L	67'-68.5' Lamprophyre dyke							
70	1	68' 1" carbonate vein at 35° to C/A			10-15 5-10	1-3	5		
	2	med. grey to grey-green banded 68.5'-69' altered unit 2 71'-72' unit 3 73.5'-75' broken core; altered pink migmatite, lamprophyre fragments and random carbonate veinlets	6958 78	82° 40° 35° 10°	10 15 15	1-2 1-3		2.72	
80	2		6959	15°	5-10				

71' altered, turquoise coloring
79-80' broken core

DIAMOND DRILL CORE LOG

HOLE 85-86 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	2	laG GRAPHITIC GNEISS (cont'd) 80'-80.5' 6" altered pink-white pegmatite	6959		10	1-3	5	3.50	
Box 5	T P	84'-91.5' laB$_T$ TRANSITIONAL GNEISS med. grey to grey-green banded, sparce garnets and sillimanite - not well developed 87'-88.5' turquoise color within biot-qtz-fs pegmatite	87	50° 35°			2-3		
90	T	- mottled texture to laB$_T$ biot-muscovite gneiss	88.5	78°	<5	1-4	<5		
	2	91.5'-97' laG GRAPHITIC GNEISS - med grey to grey-green banded biot-amph graphitic gneiss - some interbanded migmatite	6960		5-10	1-3	5+	1.94	
	T	97'-104' laB$_T$ TRANSITIONAL GNEISS	98		5				
100		- biotite-muscovite gneiss							
Box 6	T P	102.5-104' mixture of quartz vein, altered laB$_T$ and pegmatite	6961		<5			1.69	
	3	104'-117' laG GRAPHITIC GNEISS - med. grey finely banded brown biot-amph-graphitic gneiss			10	1-2	5		
	2	med. grey to grey-green banded biot-amph. graphitic gneiss	108		5	1-3			
110		- occasional bands and stray pink-red garnets.	6962					1.62	
	2								
		117'-121.5' laB$_T$ TRANSITIONAL GNEISS	119		<5		<5		
120	T	grey to grey-white (migmatitic) banded biot-sillimanite gneiss		78°	5-10	1-4	5-10	2.24	
Box 7	2	121.5'-124' laG GRAPHITIC GNEISS - med. grey to grey-green banded biot-amph. graphitic gneiss	6963		10-15 10 5				
	T	124'-127.5' laB$_T$ TRANSITIONAL GNEISS - biotite - sillimanite - garnet gneiss	125		<5		<5		
	2	127.5'-157' laG GRAPHITIC GNEISS	6964		5-10	1-3	5	2.42	
130		med. grey to grey-green banded brown biotite-amphibole-graphitic gneiss	131		10				
		- minor interbanded migmatite	6965					3.06	
	2		139						
140	1	leucocratic grey to grey-green banded biot-amph-graphitic gneiss			5				
Box 8		- light colored migmatitic bands, greater % than in unit 2 above.	6966	75-80°				1.54	
		- minor white carbonate crystals (~1mm.) - (probably calcite)	148						
150		154.5 156 } red garnet bands.	6967					1.30	
	1		157						
157'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-87 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 6, 1985 FINISHED Nov. 7, 1985 TOTAL DEPTH 147'

LOCATION 26+00 N 13+50 E COLLAR ELEVN 944.88' BEDROCK ELEVN 919.88'

ANGLE -90 AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY+PYRR.	%C(G)	WT.% FLAKE
10 20		OVERBURDEN							
Box 1	T T	25'-30.' laB$_T$ TRANSITIONAL GNEISS - altered biotite-sillimanite gneiss, graphitic 26'-27.5' unit laG$_2$ - med. grey to grey-green banded biot-amph gneiss	25 8186		15 5-10 10-15	2-5 1-2 1-4	5+	3.67	
30	2	30'-48.5' laG GRAPHITIC GNEISS med. grey to grey-green banded brown biotite-amph-graphitic gneiss - turquoise coloring in lighter bands. 30' healed fault?	33 8187 42	35° 26° 85°	10 5-10 10 5-10	1-3	5-10 5	3.27	
40 Box 2	2		8188	82°	10-15 5-10 5	1-4 1-3		2.01	
50	T	48.5'-51.5' laB$_T$ TRANSITIONAL GNEISS biotite gneiss	51.5	55°	<5		<5		
	L	51.5'-54' L LAMPROPHYRE DYKE 53'-54' broken core med-dark green, high carbonate content							
	10	54'-56.5' laB BARREN GNEISS - altered, leucocratic biotite-garnet gneiss		45°					
60	L	56.5'-61' L LAMPROPHYRE DYKE 59.5'-61' broken core -high carbonate content, crystalline calcite?; carbonate veins - chloritized along vein margins		23°					
Box 3	10	61'-66.5' laB BARREN GNEISS -leucocratic biotite-garnet gneiss - interbanded migmatite		15° 34°					
	M	66.5'-69' M MIGMATITE -interbanded migmatite and leucocratic barren gneiss - migmatite bands are at 68° to C/A in opposite direction to barren gneiss bands at 76° to C/A							
70	2	69'-81' laG GRAPHITIC GNEISS med. grey banded brown biotite-amphibole-graphitic gneiss 69.5' 3" laB$_T$ 76' 5" laB$_T$	69 8189 79	72°	5 10	1-2 1-3	5 5-10	1.45	
80	2								

DIAMOND DRILL CORE LOG

HOLE 85-87 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80	2	laG GRAPHITIC GNEISS (Cont'd) gradational		79	10	1-3	5-10		
Box 4	T	81'-89' laBT TRANSITIONAL GNEISS		10°	5				
		green grey to turquoise banded biotite-phlogopite-sillimanite gneiss	8190		10			3.00	
		- locally garnetiferous bands			5				
	T	- minor muscovite		89	5-10		6		
90	2	89'-102.5' laG GRAPHITIC GNEISS							
		med grey and grey-green banded biot-amph-graphitic gneiss							
		91.5'-92.5' migmatitic and transitional gneiss	8191					3.03	
	2	gradational							
		leucocratic grey and grey-green banded brown biot-amphibole-graphitic gneiss			5				
100 Box 5	1	102-102.5' transitional gneiss, 3mm irregular pyrrhotite blebs at contact.		102.5					
	Q	102.5'-104' Q QUARTZ		+			1		
	P	104'-107' P PEGMATITE - turquoise staining throughout		+ + +			1-2		
	10	107'-129' laB BARREN GNEISS							
110		leucocratic biot-garnet gneiss - interbanded migmatite							
	10			75°					
120	12	dark grey banded biotite gneiss							
Box 6	10	leucocratic biotite-garnet gneiss		78°					
	12	dark grey biotite gneiss							
	10	leucocratic biotite-garnet gneiss							
130	M	129'-133' M MIGMATITE migmatized barren biot-garnet gneiss 130.5'-131' milky quartz 1-4 mm biot. flakes.							
	10	133'-147' laB BARREN GNEISS 137' pegmatite leucocratic barren gneiss - interbanded migmatite		+					
Box 7	12	med-dark grey barren gneiss							
140	11	med grey barren garnet gneiss - interbanded pink migmatite							
	11			70°					
147'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-88 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED NOV. 7, 1985 FINISHED NOV. 8, 1985 TOTAL DEPTH 148'

LOCATION 25+50N 13+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 915.88'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
 10		SURFACE MUSKEG							
Box 1 20		BOULDERS - 30% GRAPHITIC OVERBURDEN							
30	P	29'-33' P PEGMATITE leucocratic pink pegmatite 31-32' broken core. gradational					Tr		
	10	33'-67' 1aB BARREN GNEISS leucocratic grey biotite-garnet-gneiss -partly migmatitic		80° 65°					
Box 2 40	13	melanocratic biotite - dark green amphibole gneiss		75° 60°			<3		
	13								
50	10	leucocratic biotite-garnet gneiss - migmatitic in part		70°					
Box 3 60	13	melanocratic biotite - amphibole ± garnet gneiss - random leucocratic feldspathic migmatite bands.		70° 65°					
	13								
70	P	67'-73.5' P PEGMATITE leucocratic pink pegmatite and migmatite gradational		20° 20°					
Box 4 80	2	73.5'-88.5' 1aG GRAPHITIC GNEISS mesocratic grey and green banded biotite - amphibole - graphitic gneiss	73.5 8192	75°	10	1-4	5	2.86	

81

DIAMOND DRILL CORE LOG

HOLE 85-88 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 4	2 2	1aG GRAPHITIC GNEISS (cont'd) med. grey green banded biotite-amphibole graphitic gneiss - random small transitional gneiss bands.	81 8193 88.5	~15° 80°	10 5-10 10	1-4	5	2.99	
90 Box 5 100 110	10 10	88.5'-141' 1aB BARREN GNEISS -leucocratic grey banded and pink quartzo-feldspathic migmatitic and potassically altered gneiss 88.5'-89' transitional gneiss ~93.5' chlorite and pyrite filled fractures (calcareous) ~99.5'-103' 104'-105' } minor melanocratic interbands 106' bleached, altered fractures, reacts to Hcl (calcareous). ~111'-112' two small steeply dipping lamprophyre dykes. gradational		80° 70° 10° 25° 20° 28° 20° 70°			<5		
Box 6 120 130 Box 7 140	13 13	melanocratic biotite-amphibole gneiss - minor pink potassic migmatite bands gradational		65° 65°					
	M M	141'-148' M MIGMATITE leucocratic pink migmatized potassically altered gneiss - may be pegmatitic in parts.		60°					
148'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-89 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE

STARTED Nov. 11, 1985 FINISHED Nov. 11, 1985 TOTAL DEPTH 108'

LOCATION 25+50N 12+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 919.88'

ANGLE -90° AZIMUTH —— LOGGED BY J. SCOTT

SCALE 1:1250

NOTE: BARREN HOLE

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
10 20		OVERBURDEN							
Box 1		BOULDERS							
	P/M	25'-28' P/M PEGMATITE AND MIGMATITE 28' broken core		+ + 4					
30	14	28'~30.5' laB BARREN GNEISS - pink biot-garnet gneiss note: interbedded migmatite may have altered the color to give appearance of pink unit 14.							
	M M	30.5'-38' M MIGMATITE pink and white migmatite -interbanded unit 10 35-36' unit 10 37-38' 50% unit 10							
40 Box 2	10 10	38'-45' laB BARREN GNEISS leucocratic grey biotite-garnet gneiss 43-45' color darkens almost to a unit 11		70°					
	T	45'-48' laBT TRANSITIONAL GNEISS mottled biotite-muscovite gneiss-interbanded migmatite 47.5'-48' unit 11							
50	M/P M/P	48'-55.5' M/P MIGMATITE AND PEGMATITE ~51.5' 6" qtz vein with 1-2% pyrite		+ + + + +			Tr		
60 Box 3	11 11	55.5'-64' laB BARREN GNEISS med. grey banded biotite-garnet gneiss -interbanded migmatite		77° 15°					
70	T T	64'-72' laBT TRANSITIONAL GNEISS biotite-muscovite gneiss		70° 15° 40° 20°			Tr		
Box 4 80	10 10	72'-105' laB BARREN GNEISS -leucocratic grey biotite-garnet gneiss -faint banding -interbanded migmatite		~70°					

DIAMOND DRILL CORE LOG

HOLE 85-89 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	10	1aB BARREN GNEISS (Cont'd)							
		leucocratic grey biotite garnet gneiss		40°					
	10	-interbanded migmatite ~84'-88' interbanded migmatite greater % and pink color		80°					
	11	med. grey banded biotite-garnet gneiss							
90		-approaches unit 12 in color at times.		72°					
100									
	11								
	M	105'-108' M MIGMATITE 107.5'-108' pegmatite							
		medium to coarse grained pink migmatite		+					
108'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-90 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 9, 1985 FINISHED Nov. 10, 1985 TOTAL DEPTH 143'

LOCATION 26+00N 15+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 926.88'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
10		OVERBURDEN							
Box 1 20	2	18'-47' laG GRAPHITIC GNEISS Med. grey to grey-green banded biot-amph graphitic gneiss - migmatitic interbanding	18 6997 28	22°	10	1-3	5+	3.25	
30	2 1 1	leucocratic grey-green banded biot-amph-graphitic gneiss	6998	78° 82°	5 <5 5			1.79	
Box 2 40	2 2	Med. grey to grey-green banded biot-amph-graphitic gneiss -interbanded migmatitic units locally containing garnets. 43-45' pegmatite vein parallel to c/A	40	35° 3° 50°	5-10 <5 5				
50	T T	47'-58.5' laBT TRANSITIONAL GNEISS - biotite - sillimanite - garnet gneiss - Some interbanded migmatite - pegmatite - perhaps the proximity of the above pegmatite vein has caused this transitional alteration	6999 55		5-10 5			1.29	
Box 3 60	2	58.5'-88' laG GRAPHITIC GNEISS Med. grey to grey-green banded biot-amph-graphitic gneiss	7000 65		5-10			2.22	
70		~71'-77' carbonate rich ~73' 2" quartz vein	7001 75	10° 5°				3.07	
Box 4 80	2	77' 4" lamprophyre dyke at 22° to c/A	7002		15 10			3.03	

DIAMOND DRILL CORE LOG

HOLE 85-90 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 4	2 2	*IaG GRAPHITIC GNEISS (cont'd)* med grey biot-amph-graphitic gneiss	7002 88	45° 82°	10	1-3 (1-2 primarily)	5-10	3.03	
90 Box 5 100	T T	*88'-103' IaB$_T$ TRANSITIONAL GNEISS* biotite-garnet-sillimanite gneiss (classic example of IaB$_T$)	7364 102.25	75° 35° 10° 85°-90°				0.1320	
	2	*103'-106' IaG GRAPHITIC GNEISS* med. grey to grey green banded brown to black biot. graphitic gneiss	103 7003		5-10 10 5-10	1-3	5-10	1.30	
	T	*106'-114' IaB$_T$ TRANSITIONAL GNEISS* biotite-sillimanite-garnet gneiss 109'-110' white biot-garnet migmatite	109		Tr	1-2			
110	M T 2 P	biotite-muscovite gneiss ~112'-113' unit 2 113'-114' pegmatite		30° 25°					
Box 6	3	*114'-143.5' IaG GRAPHITIC GNEISS* 115'-117' carbonate rich dark grey finely banded biot-amph. graphitic gneiss	112 7004	72° 75°	5-10 15 10 5	1-2 1-2 1-3	<5 5	3.71	
120	2	med grey to grey-green banded biot-amph-graphitic gneiss -migmatitic interbanding	122		10-15		5-10		
130		126.5'-127.5' 80% migmatite 127.5'-129' broken core, minor chlorite and carbonate	7005 132	10° 48° 45°	10			2.43	
Box 7 140	2	130.5-131.5' unit 3 ~135'-137' broken core	7006 143.5	45° 78° 26° 15° 20°	5-10 10	1-2 1-3 1-4	5+	3.02	
143.5		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-91 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED NOV. 13, 1985 FINISHED NOV. 14, 1985 TOTAL DEPTH 158'

LOCATION 27+50N 15+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 912.88'

ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT/U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
10									
20									
30		OVERBURDEN							
		BOULDERS							
Box 1	3	32'-63' IaG GRAPHITIC GNEISS	32		20	1-3	<5		
		med. to dark grey finely banded biot-amph.-graphitic gneiss			10-15				
	T	35.5'-37' IaB$_T$ biot-musc.-garnet gneiss	7008		Tr <5		Tr <5	3.56	
	2	med. grey to grey-green banded biot-amph graphitic gneiss			10	1-4	5-10		
40				77°	5-10				
		46' altered	43		10				
		46.5' qtz pegmatite			5-10				
		48'-53' carbonate healed fractures 1-2mm			<5	1-3	<5		
			7009		15		5+	2.75	
		52'. broken core		62° 0°	10	1-4			
50 Box 2	2		53	50° 30°					
					5-10				
	3	med. to dark grey finely banded biot-amph graphitic gneiss		30°	15	1-3			
		57-59.5' interbanded migmatite	7010	20°		1-4		3.94	
60	2	med. grey to grey-green banded biot-amph.-graphitic gneiss -interbanded pink-green migmatite 60' qtz-carb. veins.	63	25°	5-10	2-6			
	T/M	63'-66.5' M/T MIGMATITE AND TRANSITIONAL GNEISS 63-64' highly altered coarse pink M bands w/biot-musc-carb interbands		20° 55°	Tr	1-3	1-2		
	2	64'-66.5' 80% M interbanded with a locally banded biot gneiss - frequent qtz-carb veins at 30-50° to C/A	7011		5-10		<5	1.79	
Box 3 70	T	66.5'-69' IaG GRAPHITIC GNEISS - med. grey to grey-green banded brown biot-amph-graph. gneiss interbanded white to white pink migm. gradational	72		5				
		69'-78' IaB$_T$ TRANSITIONAL GNEISS -biotite-sillimanite gneiss w/ interbanded migmatite -mottled to banded texture							
	T	-not well developed throughout, intermixed unit 2	7012	50°				1.69	
80	2	78'-101.5' IaG GRAPHITIC GNEISS - med, grey to grey-green banded brown		60°	5-10				

biotite-amphibole-graphitic gneiss

82

DIAMOND DRILL CORE LOG

HOLE 85-91 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
80 Box 3	2	1aG GRAPHITIC GNEISS (cont'd) med. grey and grey-green banded biot-amph.-graphitic gneiss 80.5' - Small isoclinal fold.	7012 82	35°	<5	1-3	<5		
		- pyrite and carbonate lined hairline fractures ~83'-84.5' unit 3	7013	45° 60° 50° 60°	10 10-15 5 10			3.46	
90 Box 4		85' 6" of 80% migmatite ~91' calcite filled fracture	94	50° 10° 50°	5-10 10				
100	2	95'-97' med. brown and blue-green biot-sillim.-garnet gneiss	7014 101	30° 30° 40° 50°	5 Tr 5-10 <5 Tr	1-2		1.02	
	11 11	101.5'-108' 1aB BARREN GNEISS pale grey biotite--garnet quartzo-feldspathic augen gneiss 104.5'-106.5' dark green fine grained lamprophyre dyke 104.5'-107.5' broken core.							
Box 5 110	2 2	108'-117' 1aG GRAPHITIC GNEISS med. grey and grey-green banded graphitic gneiss 109'-110' broken ground, 1" fault gouge 112'-113' lamprophyre dyke-	108 7015 117	15° 15° 25°	5 10 10 <5	1-2 1-3 1-3		1.96	
120	10 10	117'-158' 1aB BARREN GNEISS 117'-118' 1aB1 dark grey biot-musc. gneiss pale grey banded biot-garnet-qtz-fs augengneiss							
Box 6	13	dark grey-green banded biotite-amphibole gneiss -dark green amphiboles, black biotite		75°					
130	13								
	14	pink leucocratic biotite-garnet gneiss -minor interbands of dark green amphibole & biotite							
140 Box 7 150	14			65°					
158'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-92 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 15, 1985 FINISHED Nov. 15, 1985 TOTAL DEPTH 104'

LOCATION 27+50N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 929.38'

ANGLE −90° AZIMUTH — LOGGED BY U. SCHMIDT

Scale 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(G)	RESULTS WT. % FLAKE
10		OVERBURDEN							
Box 1 20 30	T 3 T	15.5'-31' laB$_T$ TRANSITIONAL GNEISS med. brown and blue-green banded biotite-garnet-sillimanite gneiss - minor interbands of laG$_3$ finely banded gneiss 18'-20' - unit laG$_3$ dark grey finely banded graphitic gneiss 23', 24.5' - broken core	16 7016 27	75° 70° 15° 25° 50° 45°	5 5-10 10 15 5-10 10	1-3 1-2 1-3	<5	3.20	
			7017 31	50° 75° 45°	5-10 10 5-10			2.16	
Box 2	2	31'-48' laG GRAPHITIC GNEISS med. grey and grey-green banded biot-amph-graphitic gneiss - minor interbanded unit 3 35.5' broken core							
40	3	med. grey finely banded biot-amph-graphitic gneiss	7018	75° 25°	10 15	1-2		3.44	
	2	med grey and grey-green banded biot-amph-graphitic gneiss - minor garnet & sillimanite bands.	47	0° 40° 30°	5-10 10	1-3			
50 Box 3	T	48'-54' laB$_T$ TRANSITIONAL GNEISS med. brown and blue-green banded biotite-garnet-sillimanite gneiss	7019 57					3.27	
60	2 2	54'-63.5' laG GRAPHITIC GNEISS - med. grey and grey-green banded biotite-amph-graphitic gneiss - minor garnet-sillimanite (laB$_T$) interbands 62.5'-63.5' biotite garnet concentration	7020 62					3.72	
	10	63.5'-104' laB BARREN GNEISS leucocratic biotite-garnet quartzo-feldspathic gneiss		70°					
70	11	med. grey banded biotite-amphibole gneiss - black biotite, - dark green amphibole							
Box 4	10	leucocratic biotite-garnet gneiss							
80	13	dark biotite-amphibole gneiss							

DIAMOND DRILL CORE LOG

HOLE 85-92 PAGE 2 OF 2

					VISUAL ESTIMATES			RESULTS	
FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	13	1aB BARREN GNEISS (cont'd) dark biotite-amph gneiss							
Box 4	14/11	pink leucocratic biotite-amphibole gneiss interbanded with med grey biotite-amphibole gneiss		70°					
90 Box 5	11	med. grey banded biotite-amphibole gneiss - intermittent pink quartzo-feldspathic bands.							
100	11			80°					
104'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-93 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 16, 1985 FINISHED Nov. 16, 1985 TOTAL DEPTH 79'

LOCATION 27+50 N 14+50 E COLLAR ELEVN 944.88 BEDROCK ELEVN 927.88'

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
10		OVERBURDEN 17'							
		BOULDERS							
		graphitic boulders							
		BEDROCK	17						
20 Box 1	2	17'-22' 1aG GRAPHITIC GNEISS med grey and grey green banded graphitic gneiss 19'-21.5' broken core	7033	40° 30°	5-10 <5	1-3	<5	2.57	
	T	22'-25' $1aB_T$ TRANSITIONAL GNEISS med brown and blue-green biotite-garnet-sillimanite gneiss			10				
30	2	25'-46' 1aG GRAPHITIC GNEISS med. grey and grey-green banded biotite-amphibole-graphitic gneiss	27 7034	30° 30° 40° 30° 20° 75°	5-10 10 5-10 10			3.08	
40 Box 2		39' 6" of unit $1aB_T$ 43'-44' biotite-sillimanite-garnet 1' of unit $1aB_T$	37 7035 46	30°	5 10			2.90	
50	10	46'-79' 1aB BARREN GNEISS leucocratic biotite-garnet gneiss		80°					
	11	med. grey banded biotite amphibole gneiss							
60 Box 3	14	leucocratic pink and grey banded biotite-amphibole-gneiss							
70 Box 4	11	med. grey and pink banded biotite-amphibole gneiss		75°					
80		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-94 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 16, 1985 FINISHED Nov. 17, 1985 TOTAL DEPTH 57'

LOCATION 27+50 N 14+00 E COLLAR ELEVN 944.88' BEDROCK ELEVN ______

ANGLE -90° AZIMUTH — LOGGED BY U. SCHMIDT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C(G)	WT.% FLAKE
10									
		BOULDERS BEDROCK							
Box 1 20	2	14.5'-33' IaG GRAPHITIC GNEISS med grey and grey-green banded biotite-amphibole graphitic gneiss - more siliceous than typical IaG 18'-21' broken and blocky core	7021		5 5-10 10 5 10-15	1-3	5	3.28	
	3	med grey finely banded biotite-amphibole gneiss, graphitic - more siliceous than typical IaG			10+				
30	2	- med. grey and grey-green banded biotite-amphibole graphitic gneiss ~30' carbonate	7022		10-15 5-10			3.36	
Box 2 40	10	33'-57' IaB BARREN GNEISS leucocratic biotite-garnet gneiss - minor variable dark green biotite-amphibole bands 42'-43.5' dark grey-biotite-amph. gneiss		12° 85°					
50 Box 3	11	med. grey banded biotite-amphibole gneiss		12°					
	10/14?	pale pink leucocratic biotite gneiss		75°					
60 70 80		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-95 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED NOV. 17, 1985 FINISHED NOV. 17, 1985 TOTAL DEPTH 98'
LOCATION 28+00N 14+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 926.88 ?
ANGLE -90 AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE			RESULTS % C(G)	
					% GRAPHITE	FLAKE SIZE	% PY+PYRR.	% C(G)	WT. % FLAKE
		OVERBURDEN							
10 CORE LOSS ?		BOULDERS							
20 Box 1 30		* POSSIBLE BEDROCK CONTACT - core broken and foliation sometimes inconsistent - core loss - unit 2 IaG with minor 'T' gneiss averaging 5-10% graphite		31					
40	T	31'-41' IaB$_T$ TRANSITIONAL GNEISS med. grey biotite-muscovite-banded to mottled gneiss -graphitic 31'-32.5' unit 2 IaG 36' 6" carbonate + very biotite rich band 39' - 2" carbonate qtz migmatitic band shows offset along joint of ½"	7023	20° 23° 41	10 5-10 5 <5 5-10 5	1-3	5	2.43	
Box 2 50	2	41'-70.5' IaG GRAPHITIC GNEISS gradational ↑ -med. grey - grey green banded brown biotite-amphibole-graphitic gneiss -locally some intermixed transitional gneiss (muscovite)	7024	? 10° 30° 51	5-10		5-10	2.86	
60		47'-48' 6"-1' of sand probably injected along joints	7025	80° 75° 61	10 5 5-10 5			3.28	
Box 3 70	2	64.5' ½" containing numerous carbonate veins ~67' 6" of unit 3, finely banded.	7026	20° 25° 45° 58° 71	10 15 10 10-15 10	1-5 1-3		3.45	
Box 4	T	70.5'-78' IaB$_T$ TRANSITIONAL GNEISS -med grey to grey-green biotite-muscovite gneiss 72'-74' banding distorted. 76'-78' - interbanded migmatite - graphite flakes increase in size @ migm. bands.	7027	70°	<5 10 10-15	1-5	5	3.22	
80	2	78'-81.5' IaG GRAPHITIC GNEISS - med. grey - grey green banded biotite - amph - graphitic gneiss.							

DIAMOND DRILL CORE LOG

HOLE 85-95 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	2	IaB GRAPHITIC GNEISS (cont'd) ~80'-80.5' unit 3	81		10-15	1-4	5		
Box 4	T	81.5'-84.5' IaBT TRANSITIONAL GNEISS med grey biotite muscovite banded gneiss	7028	71°				3.40	
	2	84.5'-89' IaG GRAPHITIC GNEISS 87'-88' unit 3 med. grey to grey-green banded - brown biot-amph gneiss	88						
90	11	89'-98' IaB BARREN GNEISS gradational -med. grey - biotite-garnet banded greiss -interbanded with leucocratic pink gneiss (unit 14)? up to 94'		+ + 85° 90° +					
98		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-96 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE

STARTED NOV. 18/85 FINISHED NOV. 18/85 TOTAL DEPTH 68'

LOCATION 28+00N 13+50E COLLAR ELEVN 944.88' BEDROCK ELEVN ____

ANGLE -90° AZIMUTH —— LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY+PYRR.	RESULTS %C (G)	WT % FLAKE
		OVERBURDEN							
10		boulders							
Box 1	T	11'-38' IaB$_T$ TRANSITIONAL GNEISS -biotite - muscovite gneiss -banded to mottled texture -muscovite throughout but concentrated locally -rough pitted surface at times - not particularly siliceous	7029	11 40° 30°	10 5-10 10+	1-5	5	3.04	
20		13.5'-14.5' IaG unit 2 16.5' 18' } 3" broken core 21.5'-22.5' IaG unit 2 25'-25.5' IaG unit 3	7030	21 ~70°	10-15 10	1-3		2.47	
30 Box 2	T	26' - ½" gouge 31' - minor carbonate 31.5-32.5 33.5' 37' } broken core 38' 3" sand along joints	7031	31 70°	15 10 10-15 10 5 10	1-4		3.70	
40	2 3	38'-46.5' IaG GRAPHITIC GNEISS med grey - grey-green to grey white poorly banded -siliceous - almost barren in appearance 39' 6" mauve garnet -med to dark grey finely banded biotite-amphibole gneiss	7032	38 ? 46.5	<5 10 <5 15 5-10 Tr	1-3	15 5 Tr	1.43	
50	11	46.5'-68' IaB BARREN GNEISS med grey banded biotite garnet gneiss -interbanded migmatite 45'-51' coarse grained migmatitic bands.		+ + + +					
	14?	med. grained pink biotite - leucocratic gneiss		60-70°					
Box 3 60	12	-dark grey biotite garnet gneiss -minor interbanded white and pink migmatite		74°					
70		END OF HOLE							
80									

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DIAMOND DRILL CORE LOG

HOLE 85-97 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ____ CORE SIZE BQ ZONE NE
STARTED NOV. 19, 1985 FINISHED NOV. 19, 1985 TOTAL DEPTH 69'
LOCATION 27+50 N 13+50 E COLLAR ELEVN 944.88' BEDROCK ELEVN 921.88'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
		SURFACE							
10									
		MUSKEG							
20		OVERBURDEN - boulders							
Box 1	3	23'-39' IaG GRAPHITIC GNEISS melanocratic grey finely-banded biotite-amphibole graphitic gneiss 23'-24' broken core gradational	7036		10-15 10 7-10 10	1-2 1-3	6	3.31	
30	2	-med. grey-green and blue biotite-amphibole ± garnet graphitic gneiss	7037	80°	5-10 10 5-10 10-15			2.95	
40	T	39'-41' IaBT TRANSITIONAL GNEISS -med. grey and green banded biotite amphibole gneiss ~40' 3-6" missing core							
	10	41'-69' IaB BARREN GNEISS 40.5' 6" finely banded graphitic gneiss leucocratic grey and black banded biotite garnet gneiss		75°	5-10	1-3	<3		
Box 2 50	10	gradational							
		med grey and green banded biotite amphibole gneiss -green amphibole							
60	11								
Box 3		gradational		75°					
	14	leucocratic pink and grey banded biotite gneiss							
70		END OF HOLE							
80									

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DIAMOND DRILL CORE LOG

HOLE 85-98 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED Nov. 20, 1985 FINISHED Nov. 20, 1985 TOTAL DEPTH 54'
LOCATION 27+50N 13+25E COLLAR ELEVN 944.88' BEDROCK ELEVN 926.38'
ANGLE -90° AZIMUTH — LOGGED BY J. SCOTT

SCALE 1:1250

BARREN HOLE

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
10		OVERBURDEN							
		BOULDERS							
20	P	18.5'-21' P PEGMATITE contact 25° to C/A		25°					
Box 1	10	21'-54' 1aB BARREN GNEISS - leucocratic biotite-garnet banded gneiss - interbanded migmatite		60°					
30				20°					
	10								
40	12	dark grey biotite gneiss - interbanded white migmatite							
Box 2	14	pink leucocratic biotite-garnet gneiss - not a clean unit 14 - more mafics		7° 70°					
50	11	med. grey biotite gneiss - interbanded pink migmatite		25°					
54		END OF HOLE							
60									
70									
80									

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DIAMOND DRILL CORE LOG

HOLE 85-99 PAGE 1 OF 2

PROJECT Bissett Creek CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 20, 1985 FINISHED Nov. 21, 1985 TOTAL DEPTH 117'

LOCATION 28+00N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 930.38'

ANGLE -90° AZIMUTH —— LOGGED BY L. Lindinger

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR.	RESULTS % C(G)	RESULTS WT.% FLAKE
		SURFACE							
10		MUSKEG							
		BOULDERS 60% GRAPHITIC OVERBURDEN							
Box 1	2	14.5'-18' IaG GRAPHITIC GNEISS - mesocratic grey to grey, green and blue banded biotite-amphibole graphitic gneiss	7038	14.5 35° 35°	5 5-10	1-3	5	2.79	
20	T	18'-24' IaB$_T$ TRANSITIONAL GNEISS gradational mesocratic grey, brown and blue gneiss - graphitic 20.5' 4" pink qz-fs garnet band. gradational		80°	5 <5 5-10 5				
	2	24'-27' IaG GRAPHITIC GNEISS mesocratic biot-amph graphitic gneiss		25	10-15 10				
30	M	27'-32' M MIGMATITE migmatized med. grey banded gneiss	7039	80°	5 <5 5			2.51	
Box 2	2	32'-34' IaG GRAPHITIC GNEISS - mesocratic grey & green banded biot-amph gneiss			10				
	M	34'-38' M MIGMATITE migmatized med. grey biotite amphibole gneiss		35	5-10				
40	2	38'-52' IaG GRAPHITIC GNEISS Mesocratic grey blue to grey-green biotite-amphibole-graphitic gneiss	7040	43	10			2.74	
		42.5'-43' leucocratic garnet pegmatite.	7041		10-15			3.58	
50	2	48'-49' Coarse migmatitic zone gradational		52 70°	15				
Box 3	T	52'-54' IaB$_T$ TRANSITIONAL GNEISS - mesocratic grey & green banded amph-biot-sillimanite gneiss	7042		10			3.37	
	2	54'-63' IaG GRAPHITIC GNEISS gradational Mesocratic grey banded biotite amphibole graphitic gneiss			5-10 10				
60	2	59'-60' garnet migmatite gradational		62	5 10				
	T	63'-68' IaB$_T$ TRANSITIONAL GNEISS leucocratic grey, blue & brown biotite-amphibole-sillimanite ± muscovite gneiss - graphitic	7043	75°	15 5 5-10 10 5			3.65	
70	2	68'-87' IaG GRAPHITIC GNEISS gradational mesocratic grey banded biotite-amphibole graphitic gneiss.			10 5-10				
Box 4		~70'-72' broken core ~72' fault; gouge 72.5' pegmatite dyke 50° to CA	7044	72 50° 50° 70°	<5	1-3		2.92	
80	2	74.5-75.5' leucocratic white & green pegmatite 78-79' Transitional gneiss IaB$_T$		60° 82	5 5-10	1-3			

DIAMOND DRILL CORE LOG

HOLE 85-99 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS % C(G)	WT.% FLAKE
80	2	laG GRAPHITIC GNEISS (cont'd) - mesocratic biot-amph graphitic gneiss	7044 82		5-10	1-3	5		
Box 4	1	leucocratic grey-green banded biotite amphibole graphitic gneiss gradational	7045 87		5 5-10 5 <5	↓	↓	2,39	
	T	87'-89' laBT TRANSITIONAL GNEISS - leucocratic grey banded biot-amph - musc gneiss, trace graphite		75°	Tr	1-2	<5		
90 Box 5	M	89'-96' M MIGMATITE very pale siliceous, biotite-garnet-migmatite - altered leucocratic biotite-garnet gneiss 92'-92.5' pink pegmatite		+			↓		
	13	96'-117' laB BARREN GNEISS gradational melanocratic biotite-amphibole gneiss 99'-100' altered migmatite & pegmatite ~102'-104' steeply dipping quartz vein ~104'-106' 1" vertical wavy pegmatite dyke.		75° + 80°			10 CPY		
100									
	13								
110	10	leucocratic biotite gneiss							
Box 6	13	melanocratic grey banded biotite-amphibole gneiss.							
117'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-100 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED NOV 23,85 FINISHED NOV 24,85 TOTAL DEPTH 147'
LOCATION 28+00N 15+00E COLLAR ELEVN 944.88' BEDROCK ELEVN 942.88'
ANGLE -90° AZIMUTH —— LOGGED BY J. SCOTT

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C(G)	RESULTS WT.% FLAKE
		OVERBURDEN							
Box 1 10	T 2	2'-5' 1aB$_T$ TRANSITIONAL GNEISS med grey biotite-muscovite gneiss 2-3' unit 2 5'-59' 1a6 GRAPHITIC GNEISS med grey - grey-green banded graphitic gneiss -interbanded white migmatite	7053	2 12	10 5 5-10	1-3	5	2.24	
20		12'-59' - grey green banded to mottled texture with migmatite rich areas.	7054	77° 15° 22	5 5-10 5 <10 5-10	1-4	5-10	1.88	
Box 2 30		28'-33' mottled texture with migmatite intermixed	7055	15° 35° 32	10 5 <5 5	1-3 1-4	5+	2.13	
40		- numerous garnets locally - minor carbonate 38'-38.5' unit 3	7056	42	10 5-10 10 5-10	2-6		3.07	
Box 3 50	3	47'-53' unit approaches being a med grey finely banded, unit 3	7057	80° 52	10 5-10 10 5-10	1-4 1-3 1-4	5-10	3.76	
60	2	gradational	7058	62	10 <5 10 5 <5	1-3		1.71	
Box 4 70	T	59'-93' 1aB$_T$ TRANSITIONAL GNEISS biotite - muscovite - minor sillimanite + garnets gneiss - Carbonate within fractures locally. 66'-70' almost unit 2 NOTE* transitional unit not always very well developed. - musc. & garnets may be secondary with the migmatite into an originally unit 2 gneiss	7059	10° 4° 10° 72	5 5-10			2.8	
Box 5 80	T	72.5'-74' unit 2 74'-77' altered, migmatized, mild carbonate	7060	72° 82				1.88	

DIAMOND DRILL CORE LOG

HOLE 85-100 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80 Box 5	T	laB_T TRANSITIONAL GNEISS (cont'd)	7060 82		5	1-3	5		
		85.5'-86.5' migmatite		65°	5-10			0.698	
		~86-93' migmatite starts taking on a turquoise color	7061	70°	<5				
90	T	- increase in migmatite & alteration	93						
	11	93'-98.5' laB BARREN GNEISS med. grey biotite - garnet banded gneiss		66°					
100 Box 6	T	98.5'-105' laB_T TRANSITIONAL GNEISS biotite - muscovite gneiss contact uncertain 105' broken core.	98.5 7062	45°	5	1-3	5	2.80	
	2	105'-117' laG GRAPHITIC GNEISS -med grey - grey green banded biotite - amph - graphitic gneiss — minor amounts of musc. appear but unit as a whole does not appear transitional although	110	61°	5-10				
110	2	Some apparent alteration is present ~113.5' 6" carbonate minor gouge -migmatite (patchy) interbands, 114-117' minor carb. veining parallel to banding, 2-4mm.	7063 117	10°				2.91	
120 Box 7	10 12	117'-147' laB BARREN GNEISS - leucocratic biotite - garnet gneiss. -dark grey biotite - garnet gneiss - banded. 126.5'-127' unit 10 127' onward - silica content increases 127'-130' series of hairline carbonate veinlets sub-parallel to core axis		16° 15°					
130		~130.5' 1" qtz vein at 22° to C/A		85°-90° 32°					
Box 8 140	12 14	- leucocratic pink biotite gneiss - med. grained.		3°					
147'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-101 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 26, 1985 FINISHED Nov. 26, 1985 TOTAL DEPTH 65'

LOCATION 28+50 N 14+00 E COLLAR ELEVN 946.38' BEDROCK ELEVN 941.38'

ANGLE −90° AZIMUTH —— LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	FLAKE SIZE	% PY.+PYRR.	RESULTS %C(G)	WT.% FLAKE
		BOULDERS OVERBURDEN casing 5'		5					
1' lost core 10 Box 1	T	5'-23' IaB$_T$ TRANSITIONAL GNEISS med. grey banded biotite-amphibole-sillimanite ± garnet gneiss 7-8' graphitic interband 13-15' migmatite	7092	80° 15	5-10 <5 5 <5	1-3	5	1.40	
20	T	15-16' finely banded graphitic gneiss 16-17' leucocratic pink and green pegmatite 20-21' finely banded graphitic gneiss	7093	45° 23	10 <5 5 <5 10 5 <5	1-2 1-3			
30 Box 2	3	23'-44.5' IaB GRAPHITIC GNEISS dark to med. grey to grey-green banded biotite-amphibole-gneiss 28-29' Transitional gneiss	7094	35	5-10 10 5-10 10 5-10 10 5-10			3.12	
40	3	40-40.5' 1" pegmatite sill 41.5-43' pink and green pegmatite sill	7095	75° 75° 60° 45	10 5-10 10-15 10-15 5-10 10			3.11	
50 Box 3	10	44.5'-65' IaB BARREN GNEISS leucocratic pale grey to pink biotite ± garnet gneiss 44.5-47' migmatite 49.5-50.5' melanocratic gneiss					<5		
	13	melanocratic black and green biotite amphibole gneiss		75°					
60 Box 4	14	leucocratic pink and grey banded biotite-garnet ± amphibole gneiss -migmatitic interbands common.							
65' 70 80		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-102 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 27, 1985 FINISHED Nov. 27, 1985 TOTAL DEPTH 58'

LOCATION 29+00N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 940.88'?

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	%C(G)	WT.% FLAKE
		CASING 4'							
10	T	4'-10' laB_T TRANSITIONAL GNEISS med grey banded biotite-amphibole-sillimanite-muscovite-garnet gneiss gradational	4 7096		<5 5 5-10 5	1-3	5-10	2.14	
Box 1	3	10'-14.5' laG GRAPHITIC GNEISS med to dark grey biot.-amph-graphitic gneiss 10.5'-12' leucocratic migmatitic laB_T interbands gradational	12		<5 10 5-10	1-2		2.54	
20	T	14.5'-22.5' laB_T TRANSITIONAL GNEISS med to pale grey green and grey brown banded biotite-amphibole gneiss	7097 18 7359	55° ±5°	5 Tr	1-3 1-2	5	0.327	
	11	22.5'-26' la.B BARREN GNEISS med-grey and black banded biot.-amph ± garnet gneiss					<5		
30 Box 2	3	26'-37' laG GRAPHITIC GNEISS dark grey finely banded biotite-amphibole-graphitic gneiss 30'-30.5' Transitional gneiss laB_T ~31' pegmatite sill	26 7098 37	55° 10°	15 5-10 10 5 5-10 10-15 5-10 10 5-10 5	1-3	5-10	2.80	
	10	37'-58' laB BARREN GNEISS - leucocratic biot-amph gneiss					<4		
40	14	grey and pink banded biotite-garnet gneiss		15° 35°					
	13	dark grey banded biotite-amphibole gneiss		30° 75°					
Box 3	14	grey and pink banded biotite-garnet gneiss							
	10	leucocratic grey banded biotite-amphibole gneiss							
50	13	dark grey banded biotite gneiss		60°					
58 60		END OF HOLE							
70									
80									

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DIAMOND DRILL CORE LOG

HOLE 85-103 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED Nov. 27, 1985 FINISHED Nov. 28, 1985 TOTAL DEPTH 98'

LOCATION 28+50 N 14+50E COLLAR ELEVN 944.88' BEDROCK ELEVN 939.88'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY+PYRR	RESULTS % C(G)	RESULTS WT. % FLAKE
		CASING 5' OVERBURDEN	5						
Ground core	T	5-8' laBT TRANSITIONAL GNEISS leucocratic grey, brown and blue banded biot-amph-muscovite gneiss	7099 8	45° 60°	7-10	1-3	5-10	3.16	
10	P/Q	8-10.5' QUARTZ VEIN AND PEGMATITE ~9' breccia with calcite matrix	10.5	65°			<3		
Box 1	T	10.5'-15' laBT TRANSITIONAL GNEISS leucocratic grey banded biotite amphibole muscovite gneiss	7100	35°	5-10 10 5-10 5	1-3	<5	3.53	
	3	15'-18' laG GRAPHITIC GNEISS mesocratic grey green finely banded biot-amph graphitic gneiss	19		10		~6		
20	T	18'-73' laBT TRANSITIONAL GNEISS. leucocratic grey and blue brown banded biot-amph-musc-gneiss. -coarsely banded to migmatitic	7101 26	65°	5 <5 5 <5 10 5-10		<5 ~5	2.16	
30 Box 2		23'-24' laG mesocratic finely banded biotite-amph graphitic gneiss (unit 3) ~24'-73' med to pale grey banded biotite-amphibole-± muscovite ± sillimanite ± garnet gneiss	7102 36	50° 50° 60°	5 5-10 10 15 10		5-10 ~5 5-10 5	3.04	
40	T	43' 3" lamprophyre dyke (20° to C/A) ~44'-63' interbanded with sillimanite bearing finely banded biot-amph gneiss	7103 46	20°	10-15 10 10-15 5-10 5		5-10 5 <5	4.05	
50 Box 3		53'-53.5' 56'-58' } pink migmatite bands.	7104 56	20° 20°	10 7-10 10 5-10 10		5	2.68	
60			7105 63		5-10 10-15 5-10 10-15		<5 5-10 5	4.36	
70 Box 4	T		7106 73	60°	<5 5 <5 5-10 5 <5		5-10 6	2.01	
80	10	73'-98' laB BARREN GNEISS. leucocratic grey and black banded biotite, garnet ± amphibole gneiss 76.5' trace cpy		80°			<3 <5		

13

DIAMOND DRILL CORE LOG

HOLE 85-103 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
Box 4		1aB BARREN GNEISS (cont'd)					<5		
Box 5	13	melanocratic dark grey and green banded biotite amphibole gneiss		75°					
90		91-92' leucocratic pink pegmatite band.							
	14	leucocratic grey and pink banded biotite ± amph. gneiss		70°			<2		
	11						<5		
98'		END OF HOLE							

NORTHWEST GEOLOGICAL CONSULTING LTD.

DIAMOND DRILL CORE LOG

HOLE 85-104 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE
STARTED NOV. 28, 1985 FINISHED NOV. 29, 1985 TOTAL DEPTH 149'
LOCATION 28+50 N 15+00E COLLAR ELEVN 951.86' BEDROCK ELEVN 937.36'
ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY./PYRR.	RESULTS % C (G)	RESULTS WT. % FLAKE
		SURFACE							
10		MUSKEG							
		BOULDERS	14.5						
Box 1	T	14.5'-34 laB$_T$ TRANSITIONAL GNEISS pale med. grey banded biotite amphibole sillimanite gneiss -graphitic 16'-18' finely banded sillimanite bearing gneiss	7108 19	75°	5-10 5	1-3 1-2	<5	2.73	
20		19'-20' pale pink and green pegmatite dyke.	20	45° 45°			<3		
		leucocratic grey green banded biotite - amphibole - musc- ± sillimanite ± garnet gneiss 24'-26' migmatitic	7109	70° 70°	<5 T <5	1-2	5 (Po)	1.32	
30	P	31.5'-32.5' pale pink grey and green mottled pegmatite dyke.	31.5 32.5				<3		
Box 2	T 2	gradational 34'-49' laG GRAPHITIC GNEISS Med grey to grey green banded biot.-amph-graphitic gneiss - trace sillimanite.	7110	70°	5 5-10 10 5-10 10 5-10 5 <5	1-3	~5	4,03	
40	T	~40'-42' laB$_T$ med to pale grey-green banded biot.-amph sill gneiss	41						
	3	gradational med to dark grey finely banded biotite-amph - graphitic gneiss ± sillimanite 54.5'-55.5' pale green & pink mottled pegmatite dyke.	7111 49		5 5-10 10-15 5-10		5-10	3.65	
50 Box 3	T	49'-67.5' laB$_T$ TRANSITIONAL GNEISS (altered leucocratic graphite gneiss) pale grey green to grey blue banded biotite amphibole ± sillimanite gneiss	7112	70°	<5		5	0.770	
		54.5'-55.5' pale green and pink mottled pegmatite dyke.	58	30°	<5	1-3	5		
60	2	58'-60' laG unit 2 - med grey biot-amph gneiss.			10				
	T	pale grey green and brown banded biotite - amphibole sillimanite gneiss - altered ie: sillimanite bearing leucocratic gneiss ~66' - migmatite and pegmatite band.	7113 66	30° 30° 70°	<5 5-10 5			3.00	
70 Box 4	1	67.5'-69.5' laG GRAPHITIC GNEISS leucocratic green to grey-green banded biotite - amphibole-graphitic gneiss ~68-70' pink potassic alteration broken core - fault with quartz vein 68-75' sillimanite in fractures.	7360	~10° ~10°	<5 Tr	1-2		1.077	
80	T								

DIAMOND DRILL CORE LOG

HOLE 85-104 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS % C(g)	RESULTS WT.% FLAKE
80 Box 4	T	79.5'-86' laB$_T$ TRANSITIONAL GNEISS leucocratic grey, green, brown and blue banded biotite-amphibole-sillimanite gneiss gradational	7360 86		T	1-2	5 <5	1.077	
90 Box 5 100	10 T	86'-105.5' laB BARREN GNEISS leucocratic grey banded biotite, garnet ± amphibole gneiss - intermittent muscovite bearing migmatite bands - random sillimanite filled fractures. 104.5'-105.5' laB$_T$ Transitional gneiss and migmatite.	105.5	65-70° 65°	<5	<5			
110 Box 6	3	105.5'-118.5' laG GRAPHITIC GNEISS dark grey green finely banded biotite-amphibole gneiss 107'-111' broken core 111'-113.5' (garnets) migmatite & laB$_T$ 113' - marcasite crystals in fractures.	7114 112	70°	10 5-10 5	1-2	10 (py)	1.91	
			7115 118.5	75°	10 10-15	1		2.90	
120	P	118.5'-120' P PEGMATITE - pale green pegmatite sill					<3		
	T	120'-121' laB$_T$ TRANSITIONAL GNEISS dark grey-green biot-amph-musc, gneiss							
	M	121'-123' M MIGMATITE - leucocratic grey to pink biotite migmatite gneiss							
	13	123'-149' laB BARREN GNEISS melanocratic black-green banded biotite-amphibole gneiss		75°					
130 Box 7 140 Box 8	14	pink and grey interbanded biotite ± garnet ± amph-gneiss 142'-148' migmatitic interbands common.		70°					
149'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-105 PAGE 1 OF 2

PROJECT BISSETT CREEK CLAIM ______ CORE SIZE BQ ZONE NE

STARTED NOV. 29, 1985 FINISHED NOV. 30, 1985 TOTAL DEPTH 109'

LOCATION 29+00 N 15+00 E COLLAR ELEVN 954.81' BEDROCK ELEVN 950.81'

ANGLE -90° AZIMUTH — LOGGED BY L. LINDINGER

SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C (G)	WT. % FLAKE
		CASING IN MUSKEG							
10 Box 1	1 M	4'-14' laG GRAPHITIC GNEISS leucocratic grey green banded biotite-amphibole gneiss -trace sillimanite 5' - 2" migmatite band ~10'-10.5' 3" quartz vein and coarse Py 13-14' mottled garnet-amph-gh-fs migmatite.	4 7116 13	80°	<5 5 5-10 5 Tr	1-3 1-3	5 10 5	1.33	
20	10 P	14'-21.5' laB BARREN GNEISS leucocratic grey and black banded biotite garnet ± amphibole gneiss 19.5'-21' pink and white pegmatite w/coarse Py and calcite		70°-75° 40° 25°			<3 5		
	Q	21.5'-23.5' Q QUARTZ VEIN - quartz with coarse Py.		70°					
	M	23.5'-26' M MIGMATITE - white, green & pink coarsely banded migmatite		70°			<3		
30	10	26'-32' laB BARREN GNEISS gradational leucocratic grey & black banded biot-amph-garnet gneiss ~30.5' migmatite band.		70°					
Box 2	3	32'-40' laG GRAPHITIC GNEISS 32'-34' ½" Calcite-lamprophyre breccia and 6" potassic alteration haloes. med-dark grey-green banded biot-amph graphitic gneiss	32 7117 36		<5 5-10 10-15 5-10	1-3	5	3.81	
40	1	leucocratic green-grey banded biotite-amphibole graphitic gneiss gradational	7118 40		<5	1-2		1.19	
	T	40'-42' laB$_T$ TRASITIONAL GNEISS - med. grey brown banded migmatitic biot-amph-sill-gneiss							
	10	42-44' laB BARREN GNEISS - leucocratic grey banded biot. garnet gneiss gradational							
	M	44'-45' M MIGMATITE - leucocratic white and green mottled migmatite.							
	1	45'-67' laG GRAPHITIC GNEISS leucocratic grey-green banded biot-amph graphitic gneiss	45 7119		<5	1-3		2.08	
50 Box 3	3	med grey green finely banded biotite-amph graphitic gneiss 50-52' migmatitic			5-10 10 <5 5				
60 Box 4	1	leucocratic biotite-amphibole graphitic gneiss gradational	55 7120 67	80° 66°	<5 5 <5 5 <5			1.43	
70	15	67'-76' laB BARREN GNEISS med to pale grey and black banded biot-amph-garnet-sillimanite gneiss		60°			<4		
	T	76'-78' laB$_T$ TRANSITIONAL GNEISS dark black & grey banded/gradational	76 7121	50°	<5	1-3	5	2.00	
80	2	78'-91' laG GRAPHITIC GNEISS - med grey-green banded biot-amph gneiss			5				

DIAMOND DRILL CORE LOG

HOLE 85-105 PAGE 2 OF 2

FOOTAGE	SUB UNIT		SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES			RESULTS	
					% GRAPHITE	FLAKE SIZE	% PY.+PYRR.	% C(G)	WT.% FLAKE
80	2	IaG GRAPHITIC GNEISS (cont'd) – med grey green banded biot-amph-graphitic gneiss			5	1-3	5		
		M/P 82'-84' leucocratic pink & green mottled. migmatited pegmatite			Tr	1-2	<5		
Box 5	1	leucocratic grey green banded biot-amph graphitic gneiss	7121	60°	<5	1-3	5-10	2.08	
	2	med. grey green banded amphibole biotite sillimanite gneiss			5	↓	↓		
					<5				
90			91		5	↓	↓		
	10	91'-109' IaB BARREN GNEISS – leucocratic biotite-garnet gneiss		55°			<5		
	13	melanocratic biotite-amphibole gneiss 99'-100' pink pegmatite sill.		55° 55°			↓		
100	10	leucocratic biotite garnet gneiss							
	11	med. grey banded gneiss		40°			<2		
Box 6	14	leucocratic pink and grey banded biotite-garnet gneiss		45°			↓		
109'		END OF HOLE							

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DIAMOND DRILL CORE LOG

HOLE 85-106 PAGE 1 OF 1

PROJECT BISSETT CREEK CLAIM ________ CORE SIZE BQ ZONE NE

STARTED Nov. 30, 1985 FINISHED Nov. 30, 1985 TOTAL DEPTH 70'

LOCATION 29+00N 15+50E COLLAR ELEVN 967.73 BEDROCK ELEVN 961.73?

ANGLE -90° AZIMUTH ________ LOGGED BY L. LINDINGER

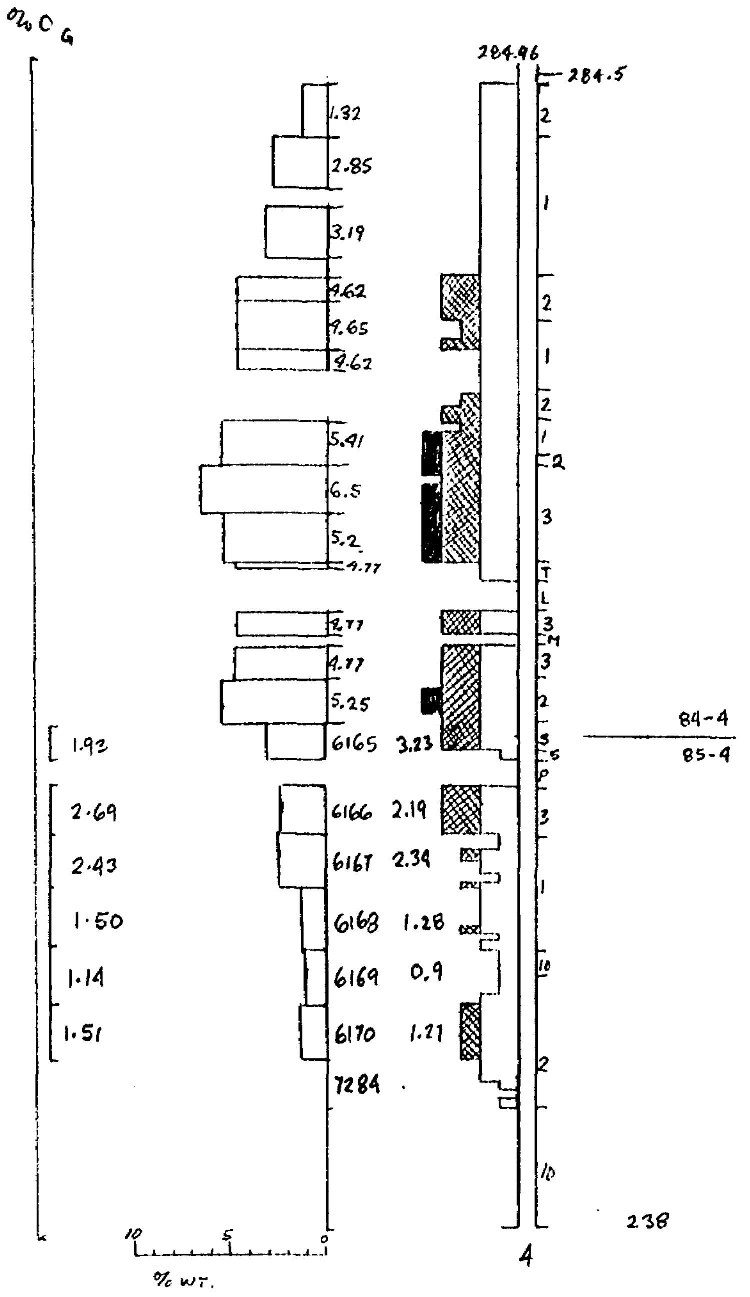
SCALE 1:1250

FOOTAGE	SUB UNIT	DESCRIPTION	SAMPLE NUMBER	SAMPLE INTERVAL	VISUAL ESTIMATES % GRAPHITE	VISUAL ESTIMATES FLAKE SIZE	VISUAL ESTIMATES % PY.+PYRR.	RESULTS %C (G)	RESULTS WT.% FLAKE
		SURFACE							
		CASING							
	10	6'-9' laB BARREN GNEISS 7'-8' laB$_T$ leucocratic grey and black banded biotite-garnet gneiss gradational	9				<3 ↓		
10	T	9'-12' laB$_T$ TRANSITIONAL GNEISS leucocratic grey-blue banded biotite-amphibole gneiss	7122		<5 ↓	1-2 ↓	<5 ↓	2.46	
	3	12'-14' laG GRAPHITIC GNEISS dark green to grey banded biotite-amphibole graphitic gneiss			10 5	1-3 ↓	5 ↓		
Box 1	T	14'-17' laB$_T$ TRANSITIONAL GNEISS grey and black banded biotite-sillimanite-muscovite ± garnet gneiss	15	75°	<5				
	10	17'-20' laB BARREN GNEISS 18.5'-19.5' migmatite leucocratic grey and black banded biotite-amph-garnet gneiss							
20	T	20'-21' laB$_T$ TRANSITIONAL GNEISS - grey & black mottled biot-garn-sill-gneiss	20		<5	1-3	~5		
	2	21'-28' laG GRAPHITIC GNEISS -grey blue and black banded biotite-amphibole-graphitic gneiss gradational	7123	75°	5-10 ↓ 5	↓	↓	2.49	
30		28'-40' laB$_T$ TRANSITIONAL GNEISS -grey blue and black banded biotite-amphibole-muscovite-sillimanite ± garnet gneiss	30		<5	↓	5-10		
Box 2	T			70°	<5 ↓	1-2	5	1.240	
40		gradational	7356						
	1	40'-49' laG GRAPHITIC GNEISS leucocratic grey-green banded biotite-amphibole gneiss 47'-48' green qtz-fs migmatite		75°	Tr ↓	↓	↓		
50	T	49'-50.5' laB$_T$ TRANSITIONAL GNEISS + MIGMATITE - biot-amph-garnet conc & gneiss	50						
	P	50.5'-52' P PEGMATITE - white green & black pegmatite					<3		
Box 3		52'-70' laB BARREN GNEISS -leucocratic grey and black banded biotite-garnet ± amphibole gneiss							
60	10	55.5'-56.5' interbanded migmatite 60'-63' erratic gneissocity		75-80°					
Box 4							↓		
70		END OF HOLE							
80									

APPENDIX F

DIAMOND DRILL HOLE VERTICAL SECTIONS

To Accompany report by Uwe Schmidt, B.Sc., F.G.A.G. "Geology and 1985 Diamond Drilling, Bissett Creek Graphite Property", March 7, 1986.



DDH 84- 4
DDH 85- 4

SECTION

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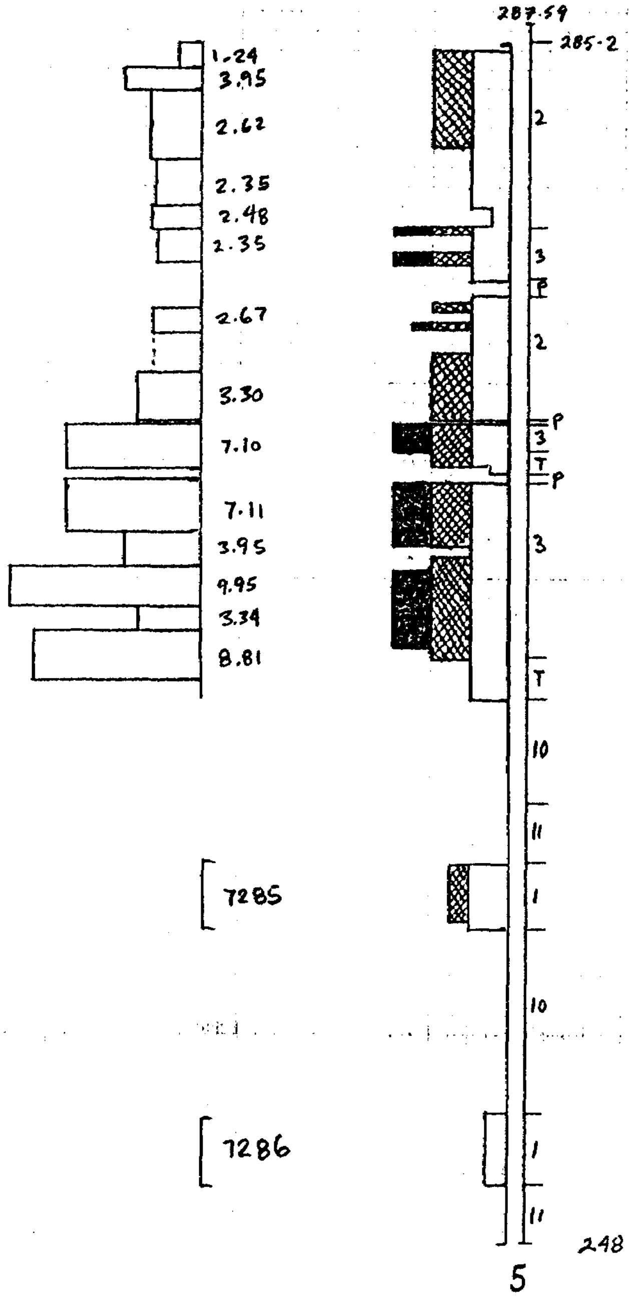

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DDH 85-5

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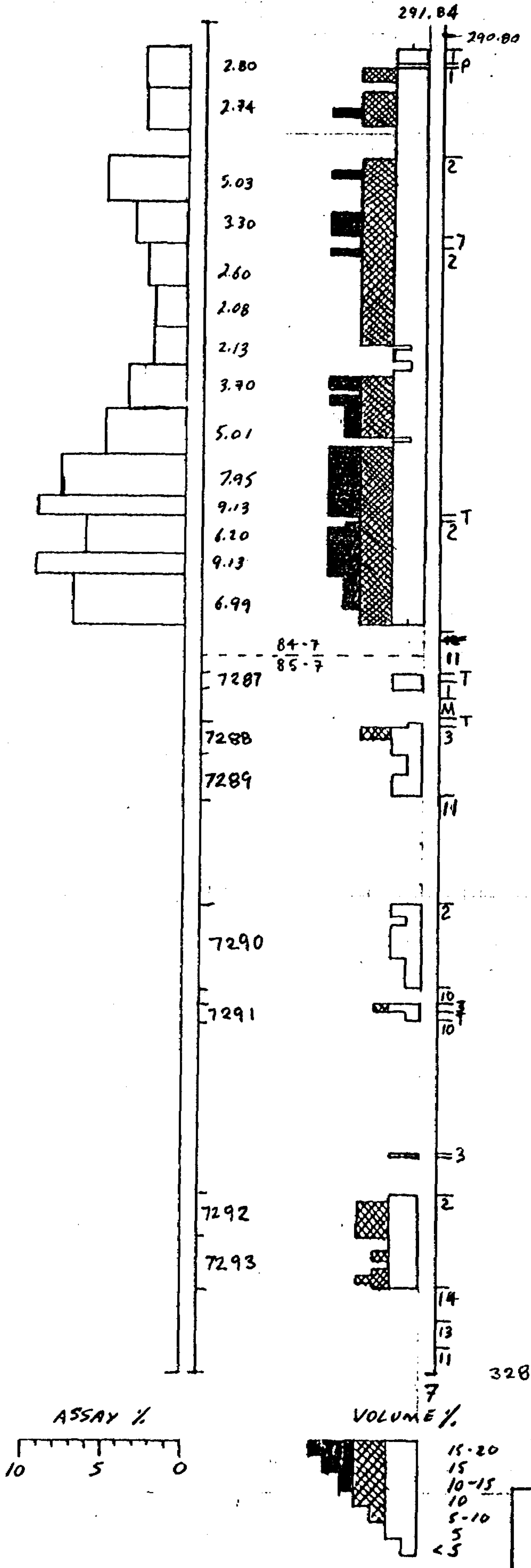

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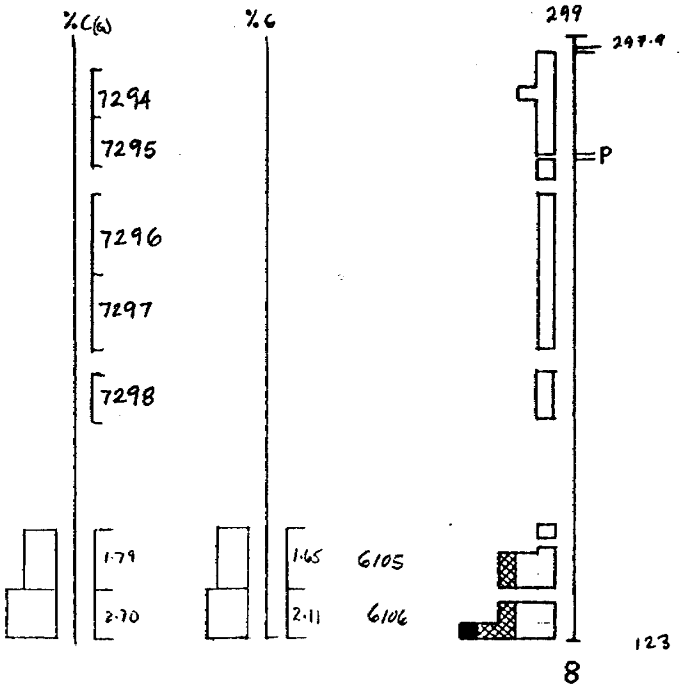
38+75N - 20+50E



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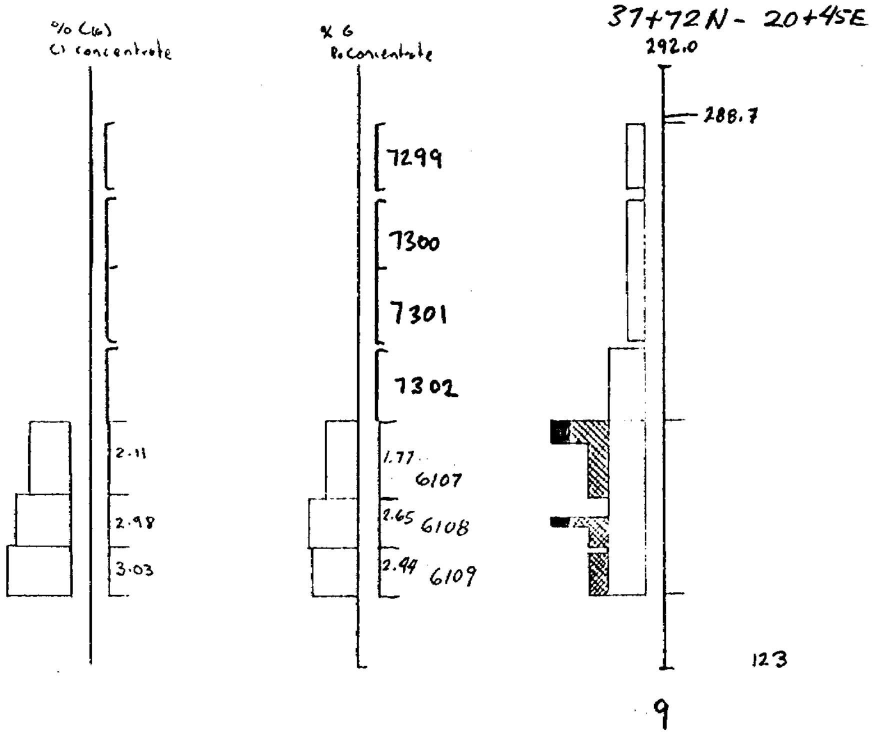

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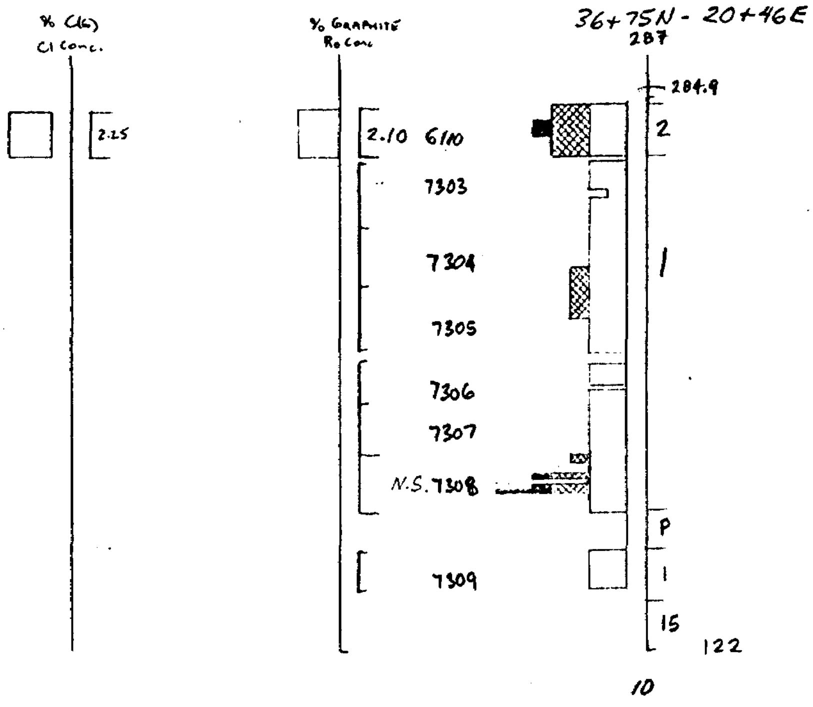

DDH 85-10

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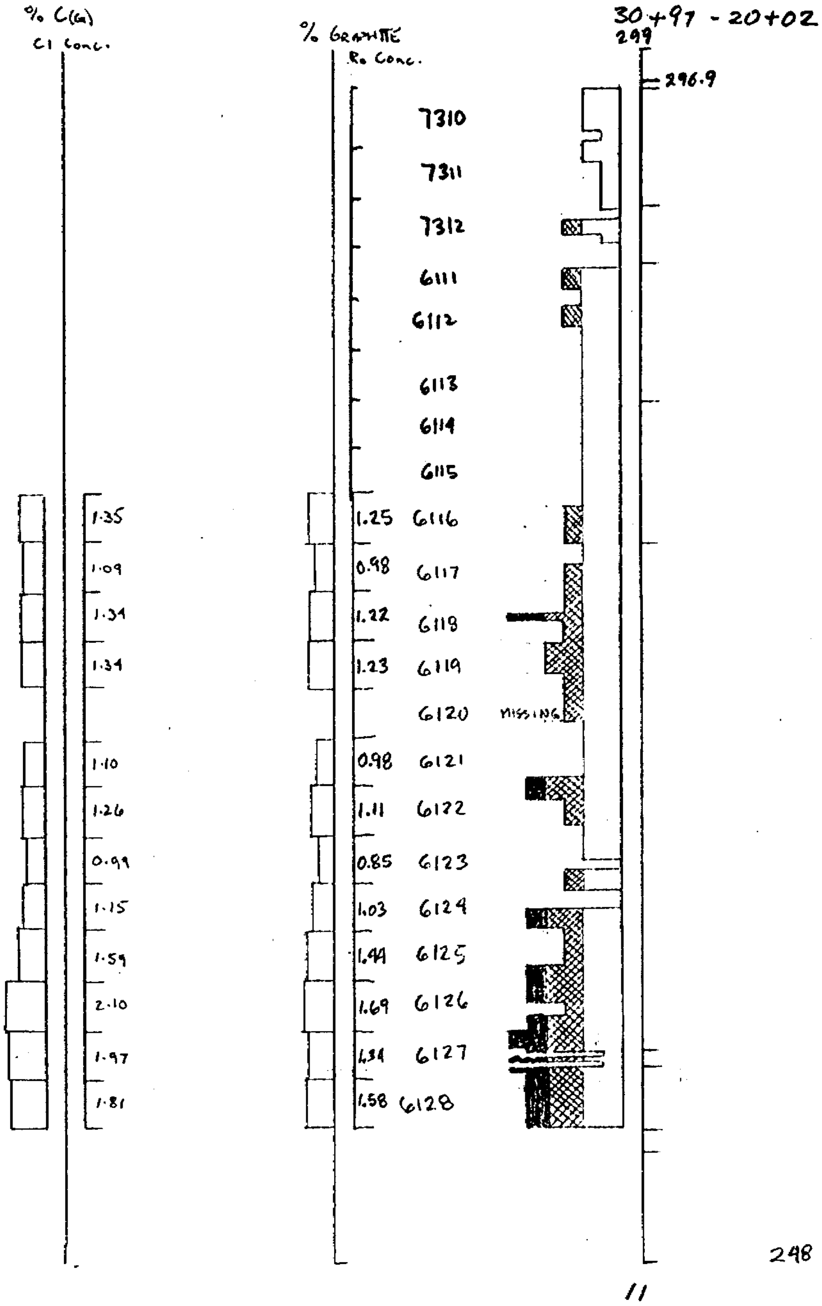

DDH 85-11

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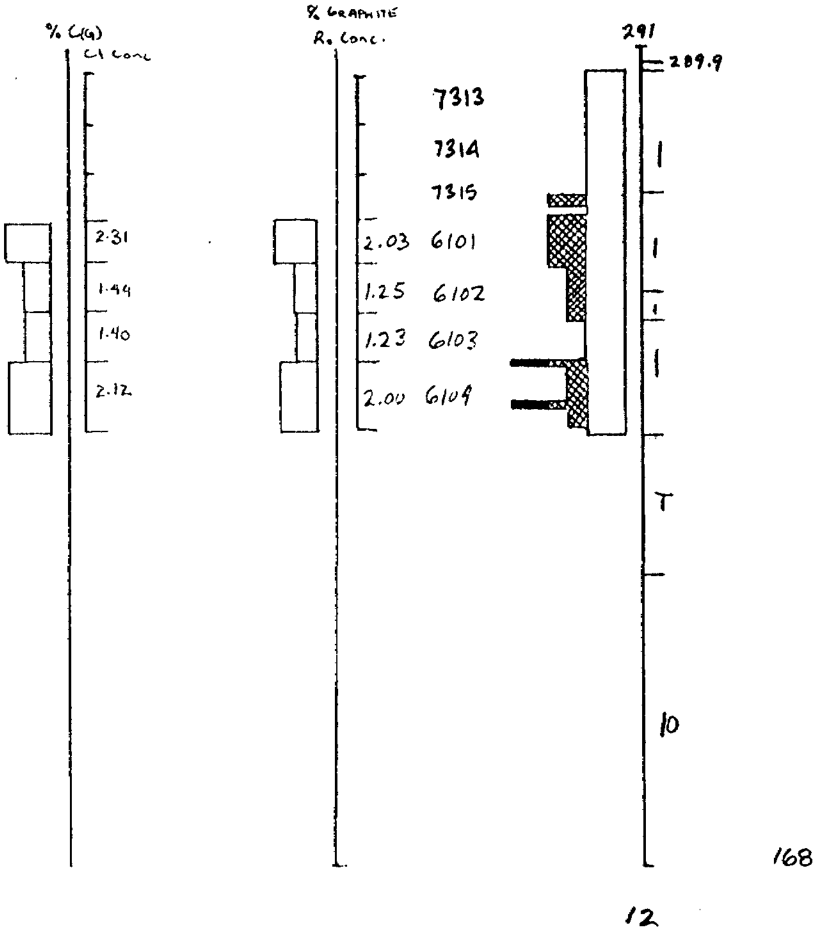
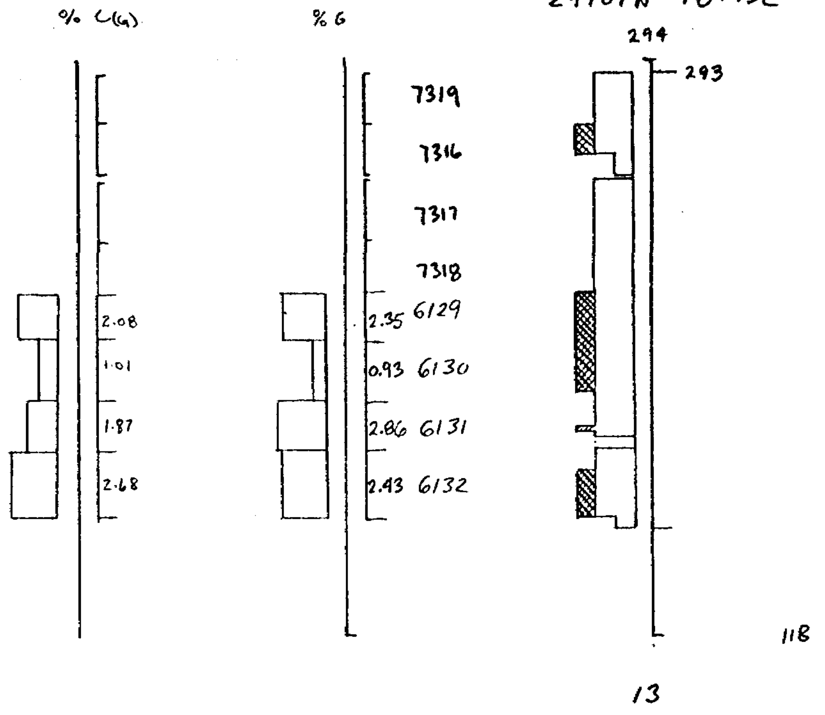
30+00N - 19+07E



DDH 85-12

SCALE 1:480

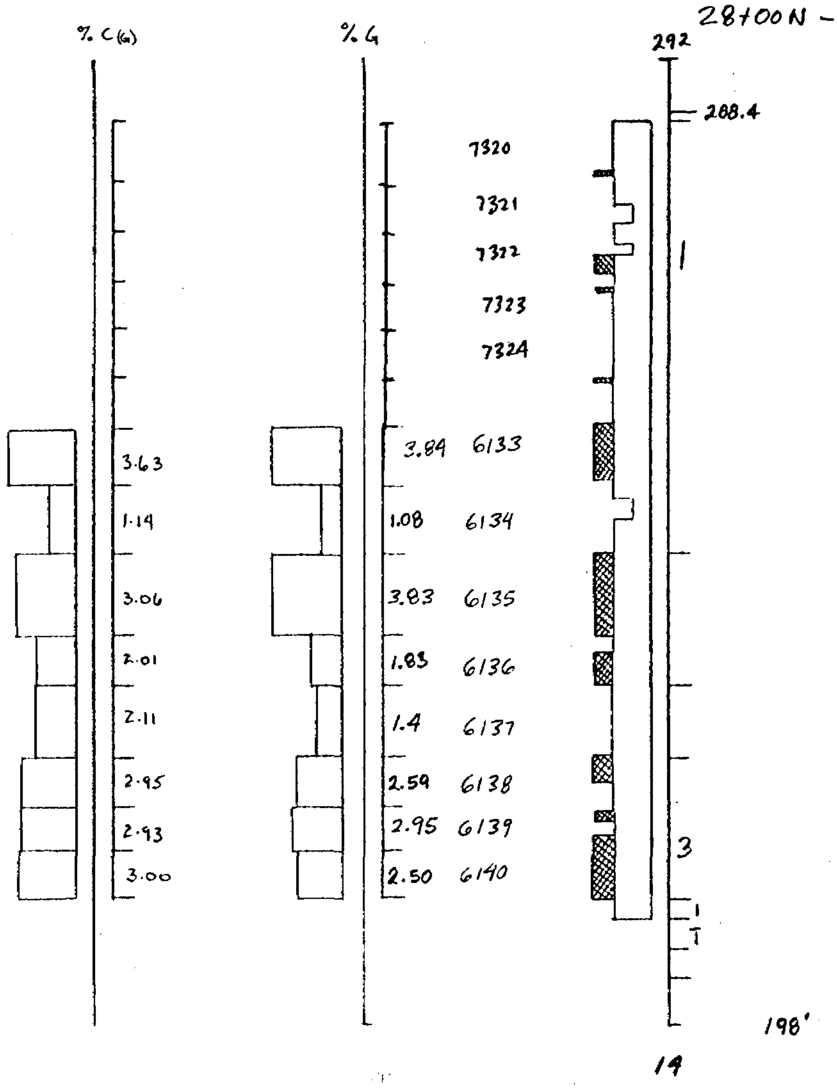
29+01N - 18+75E



DDH 85-13

SCALE 1:480

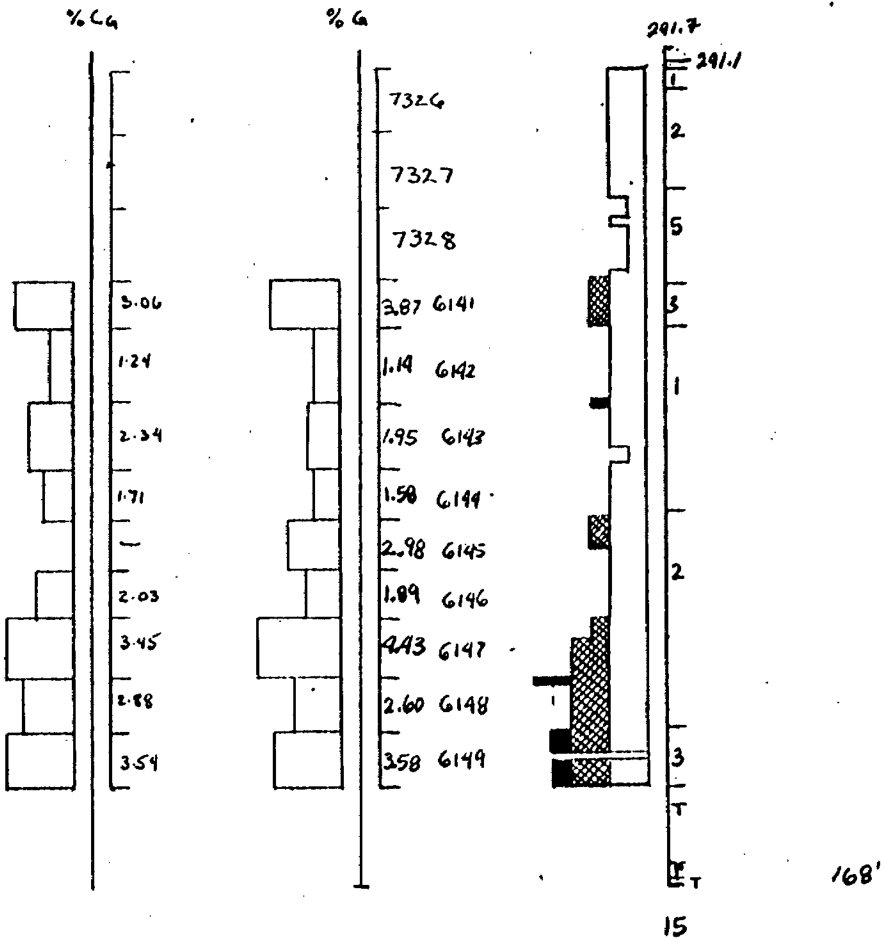
28+00N - 19+75E



DDH 85-14

SCALE 1:480

27+00N - 19+50E



DDH 85-15

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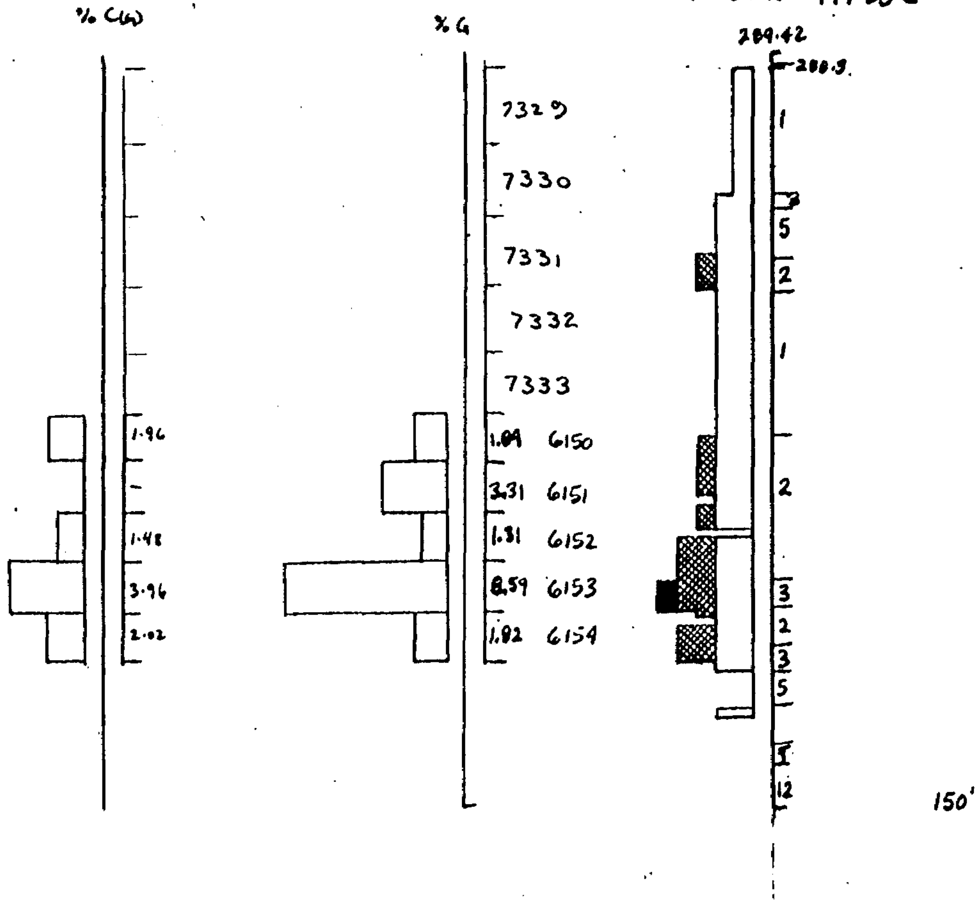
26+01 N - 19+50 E



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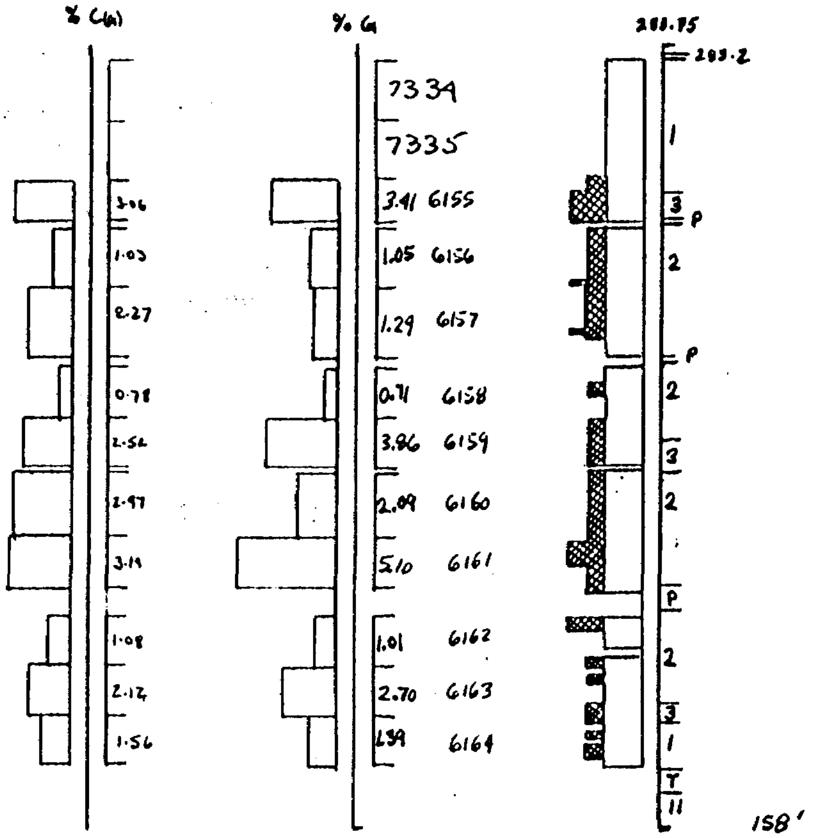
DDH 85-16

SCALE 1:480

25+00N - 19+49E



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DDH 85-17

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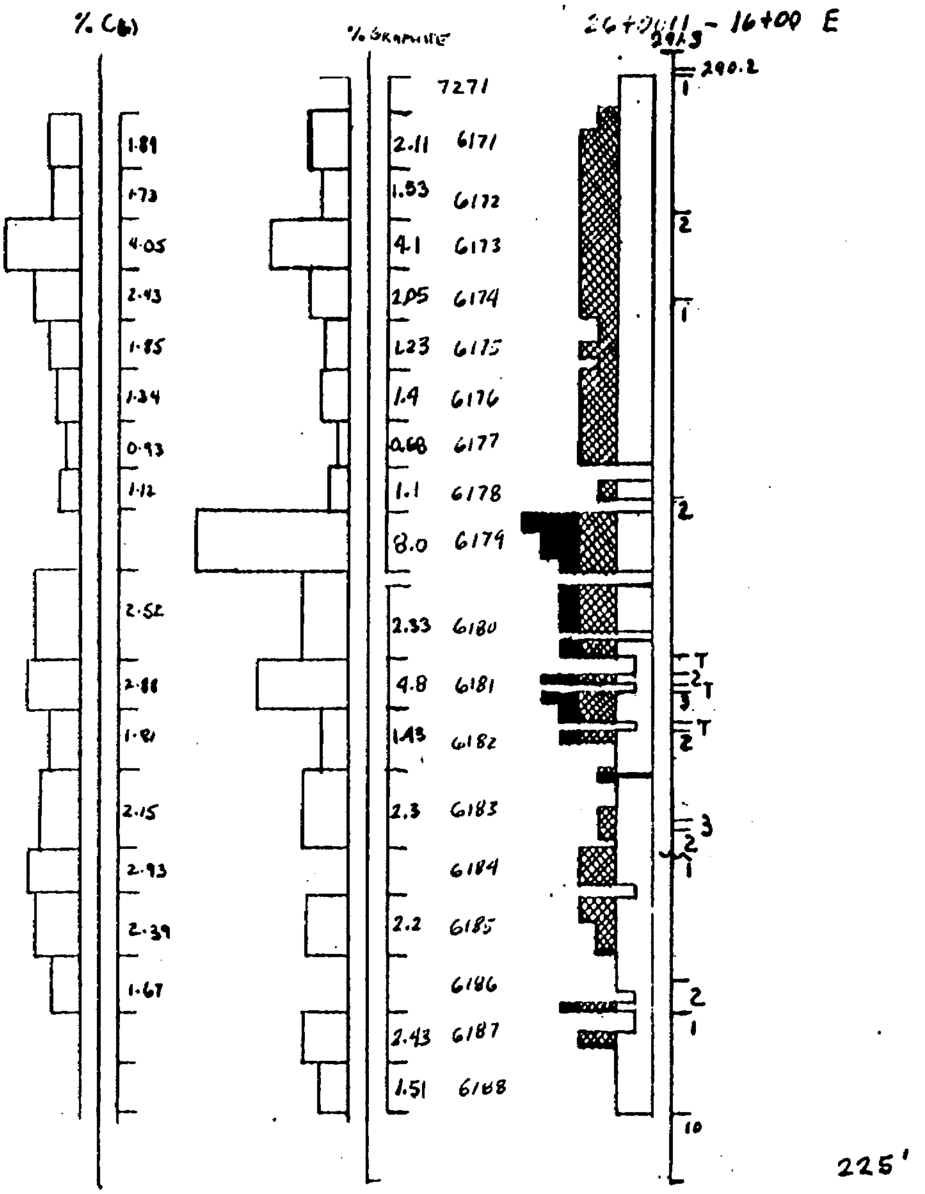

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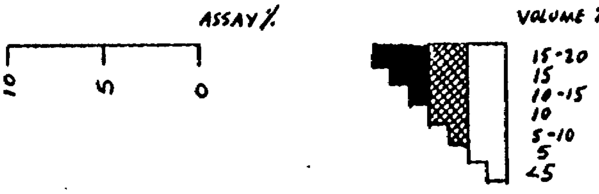

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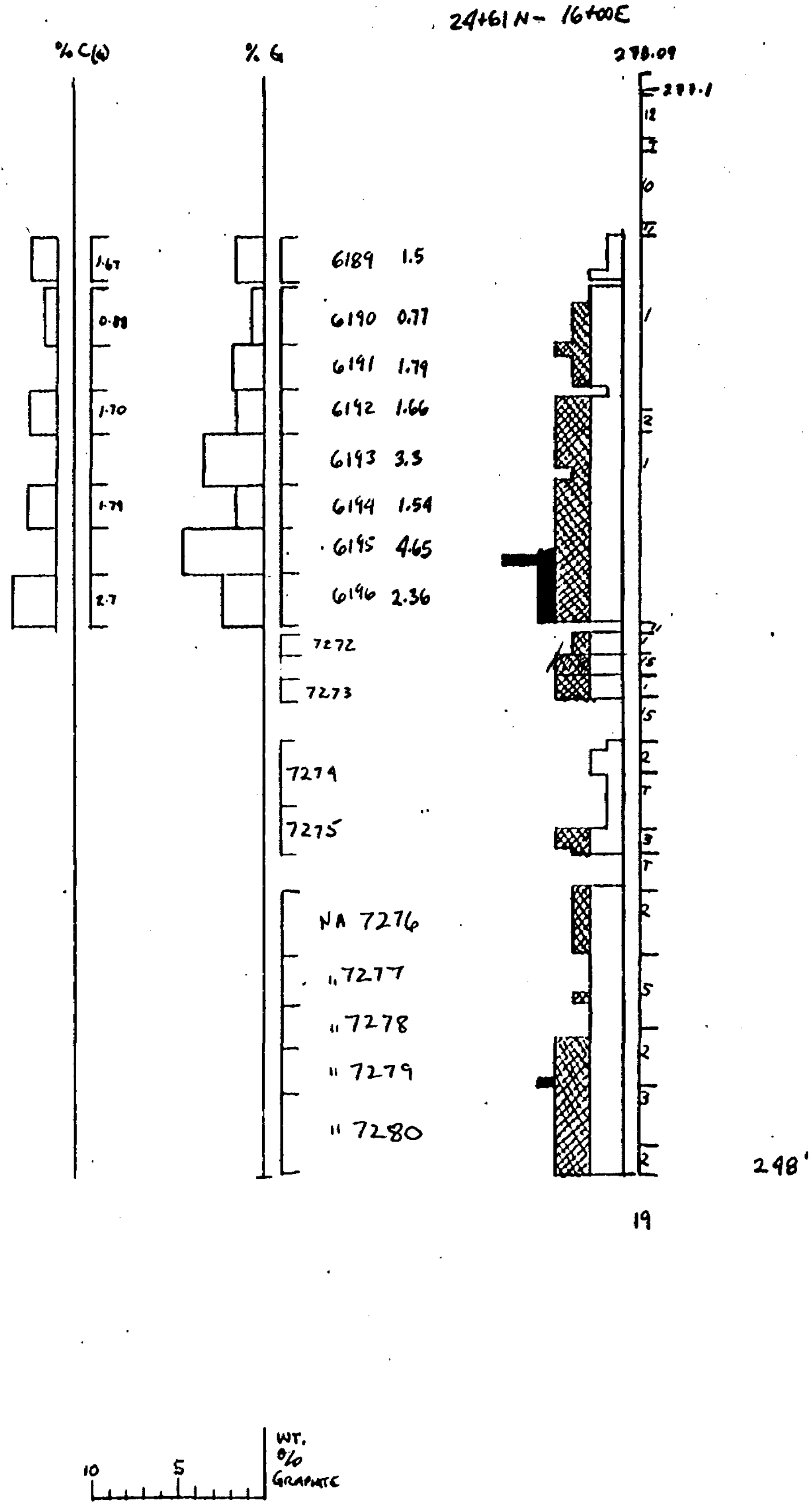

DDH 85-19

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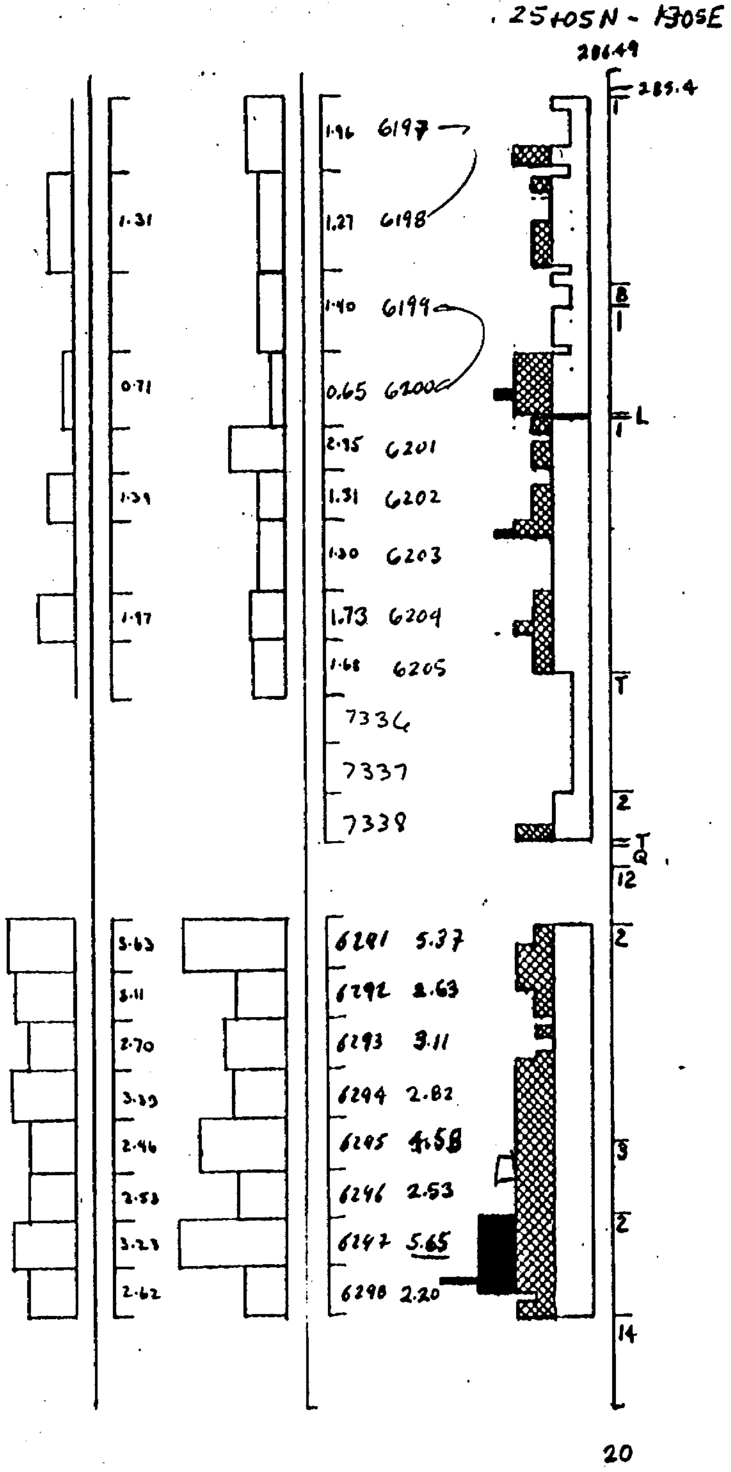

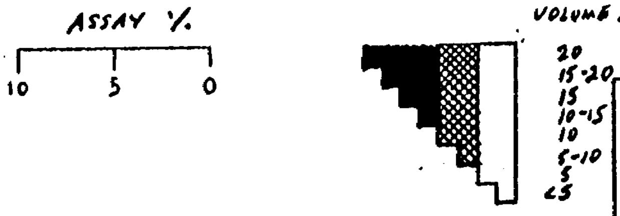

DDH 85-20
SECTION
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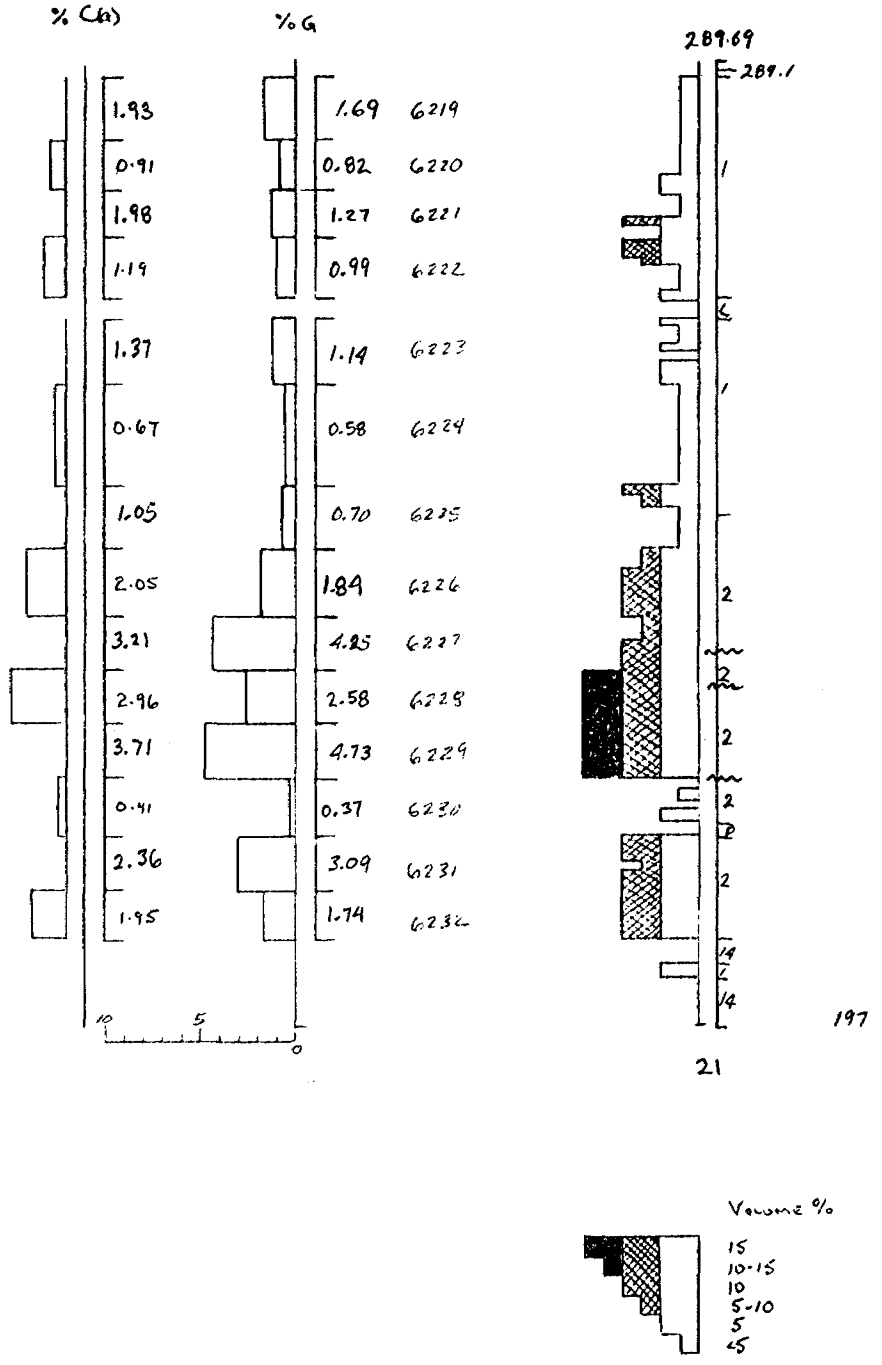
DDH 85-21



DDH 85-21

SECTION

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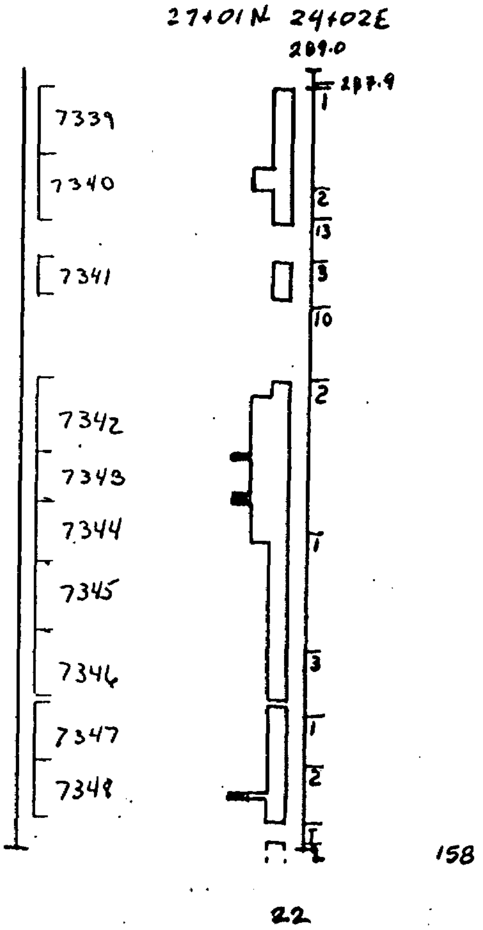
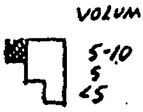


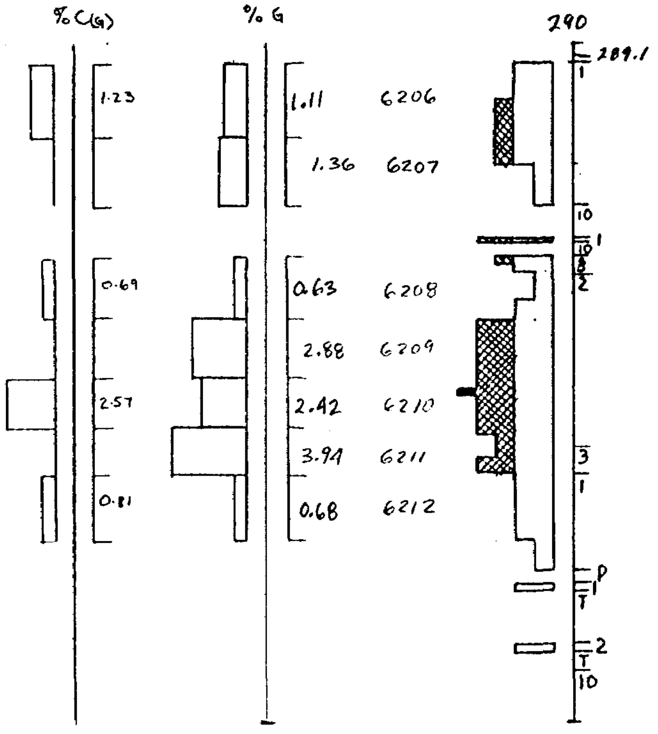


DDH 85-22

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

26+00N 23+97E



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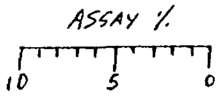

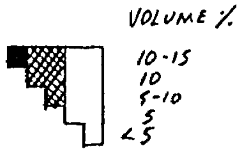

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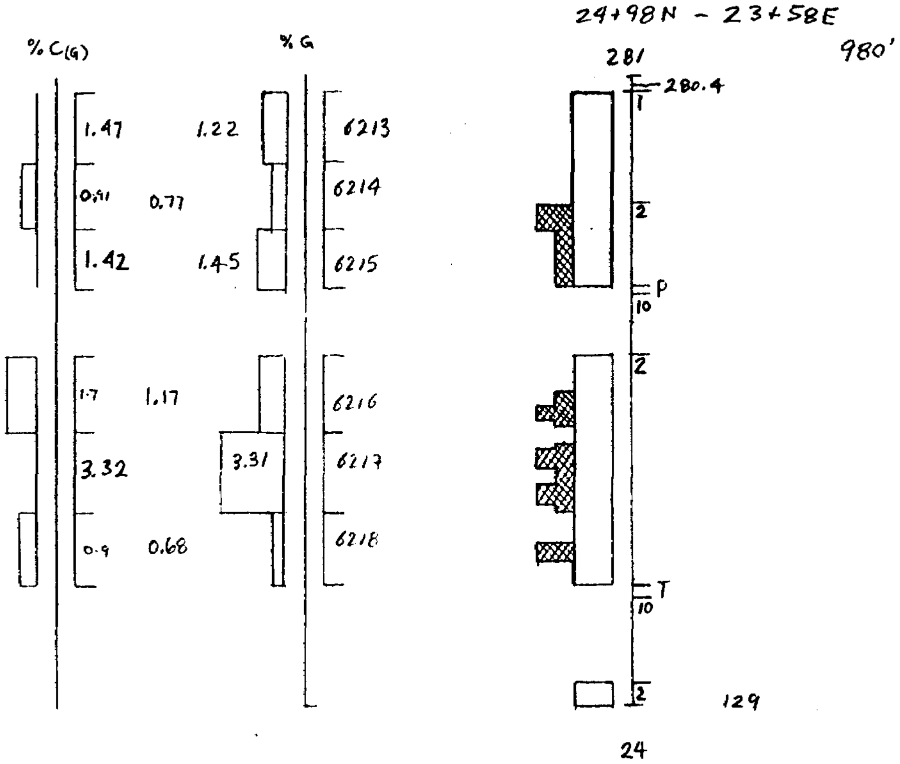
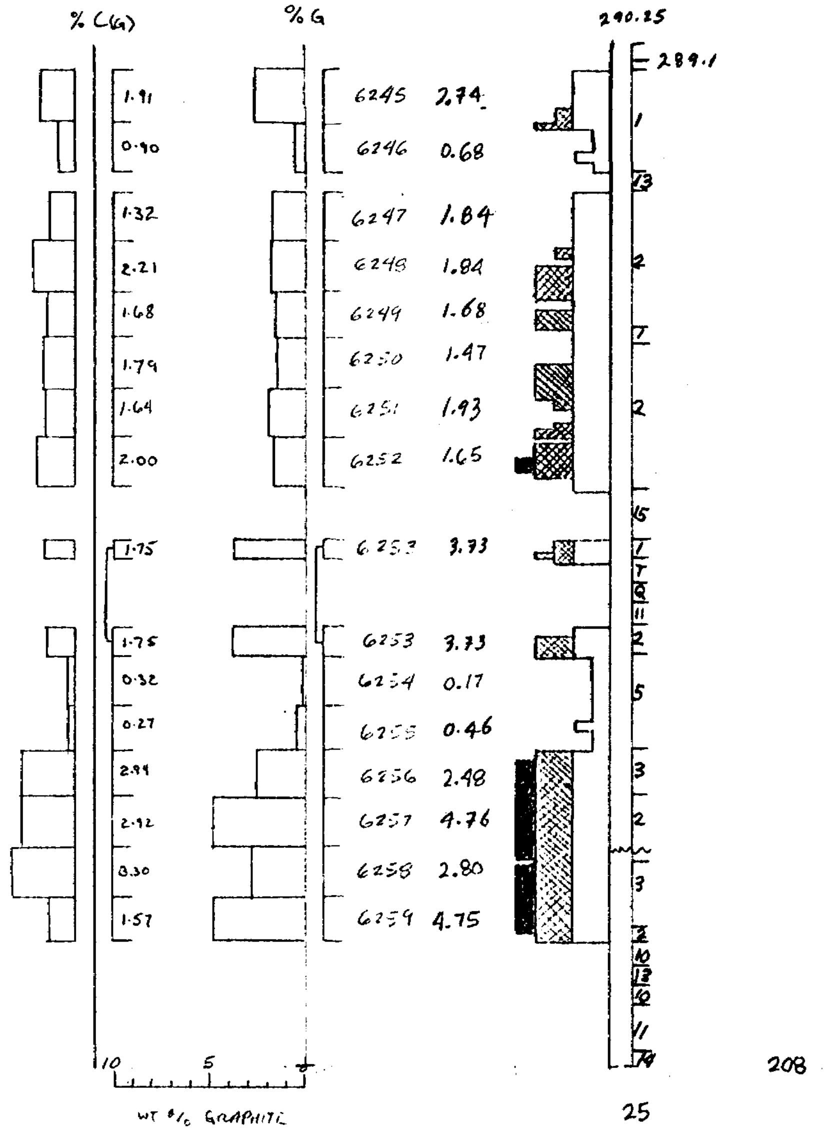


DDH 85-24

SCALE 1:480

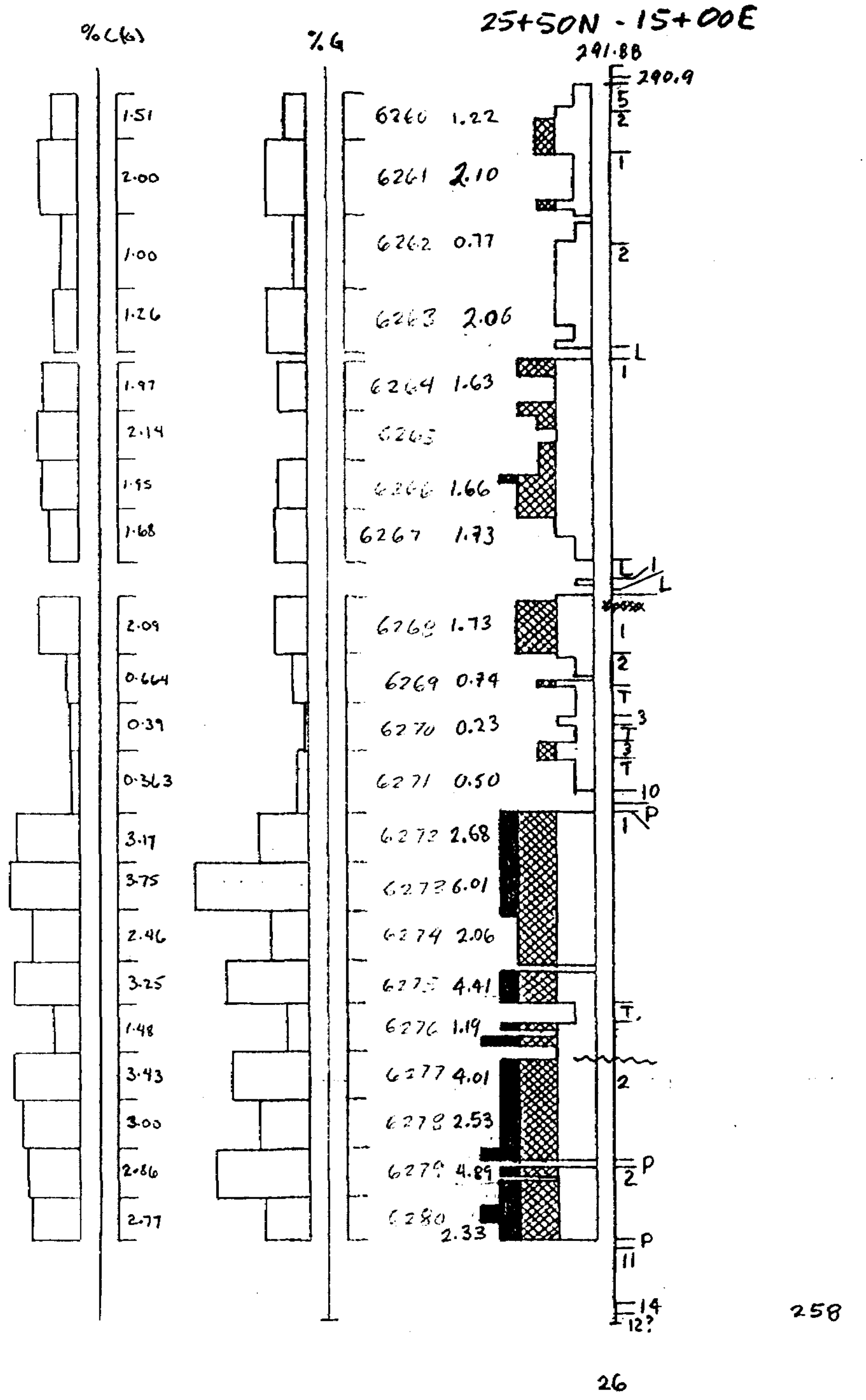
NORTHWEST GEOLOGICAL CONSULTING LTD

25+85N - 15+00E



DDH 85-25
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD

25+50N - 15+00E 1005'



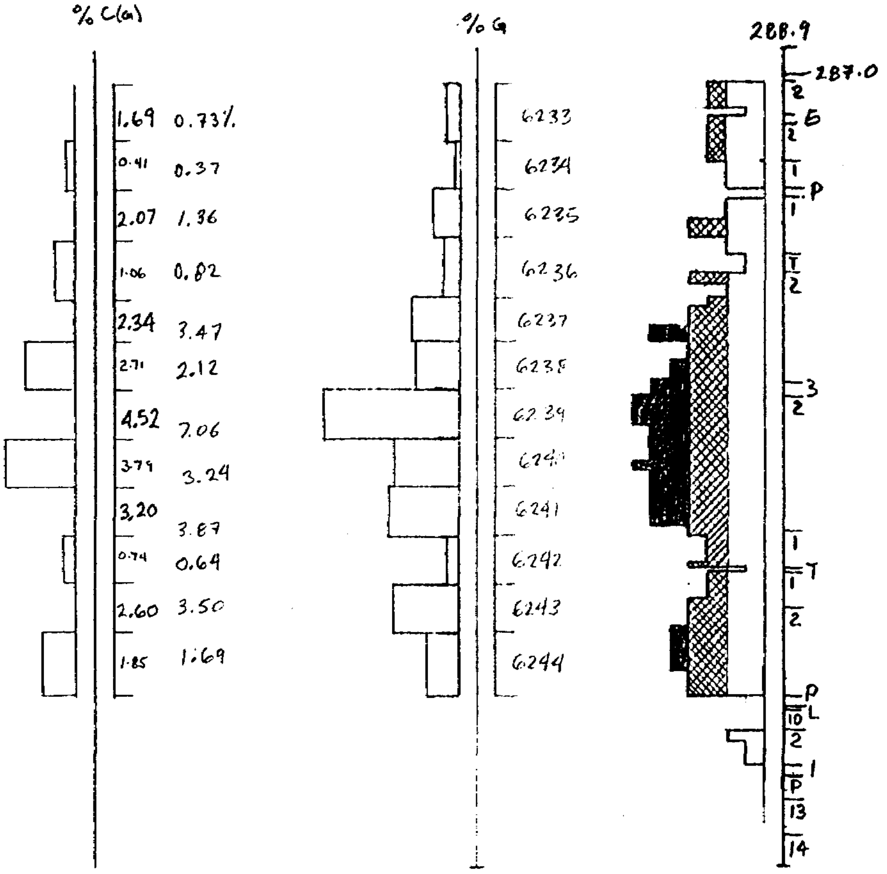
DDH 85-26

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

25+72N-13+83

ELEV. 1000'



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27

AMENDED

DDH 85-27

1: 480

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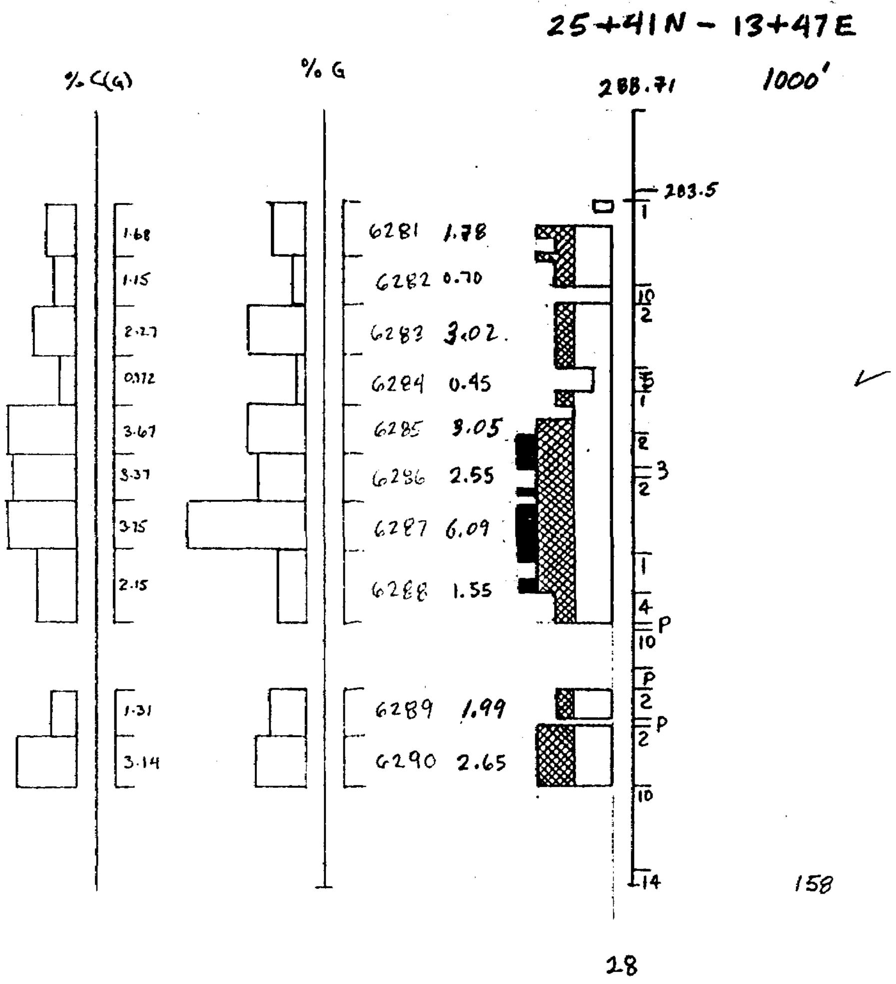


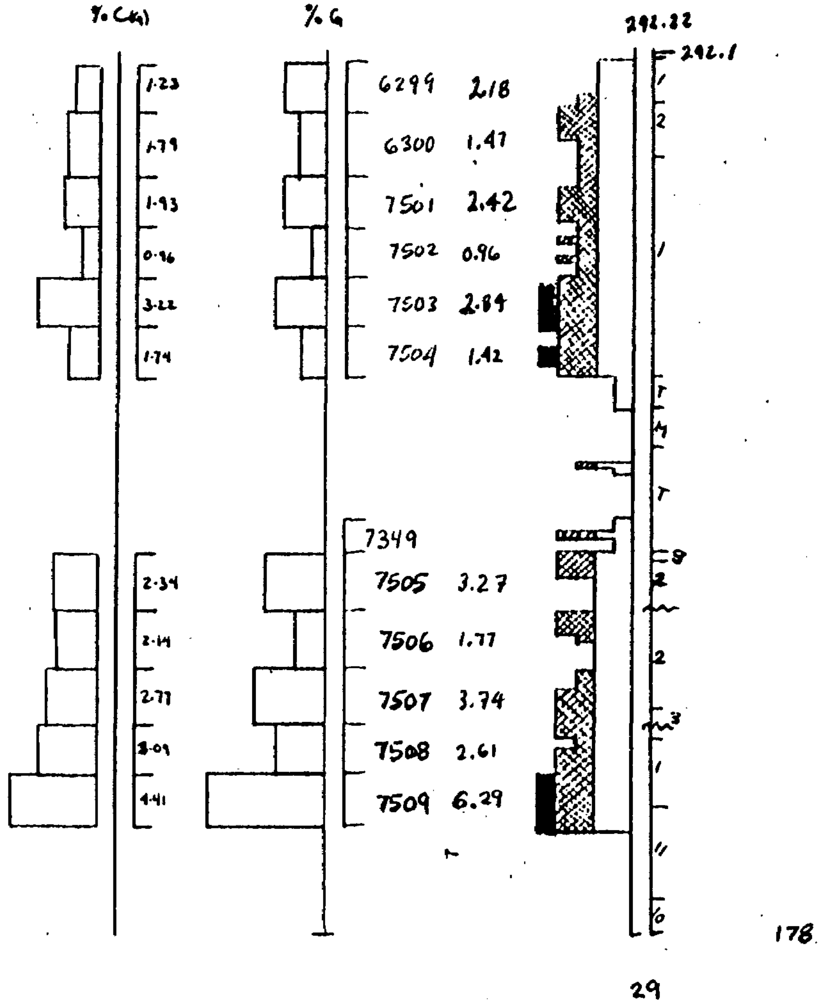
DDH 85-28

SCALE 1:480

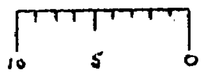
NORTHWEST GEOLOGICAL CONSULTING LTD

25+95N -14+49E

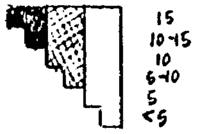
ELEV. 1000'



Assayed wt %



% Volume

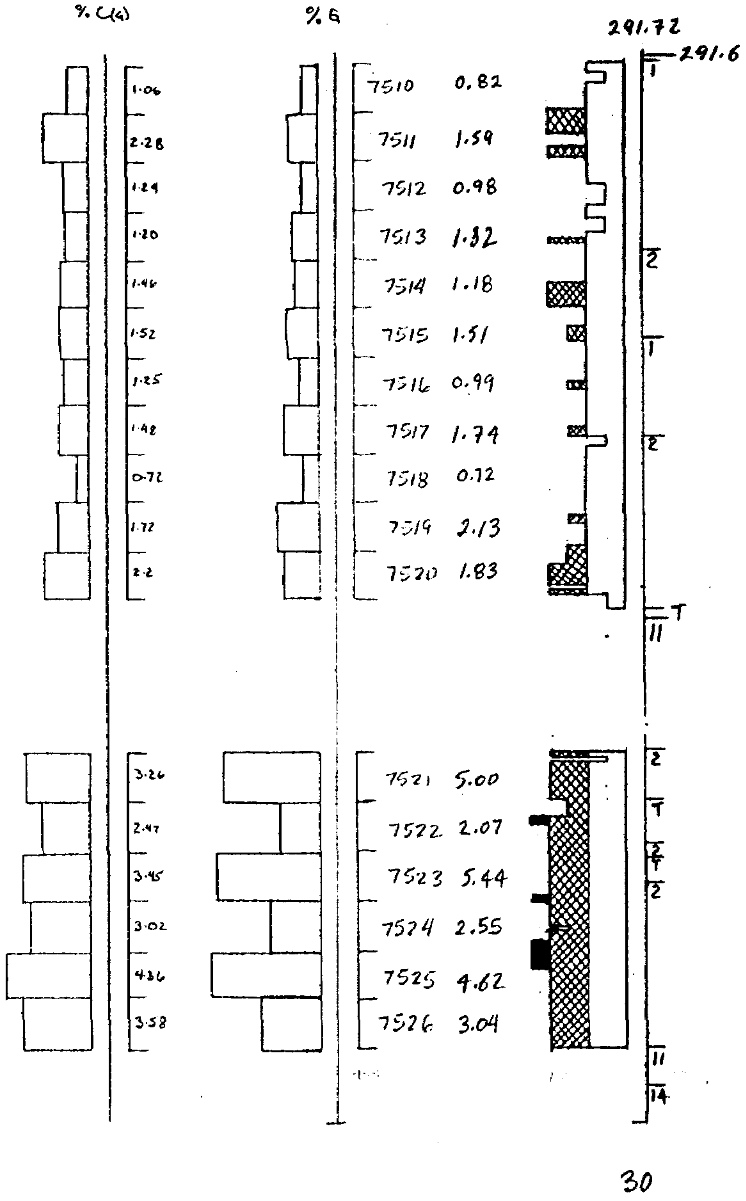


DDH 85-29
SECTION
SCALE 1: 480

NORTHWEST GEOLOGICAL CONSULTING LTD

25+50N - 14+50E

ELEV. 1005'



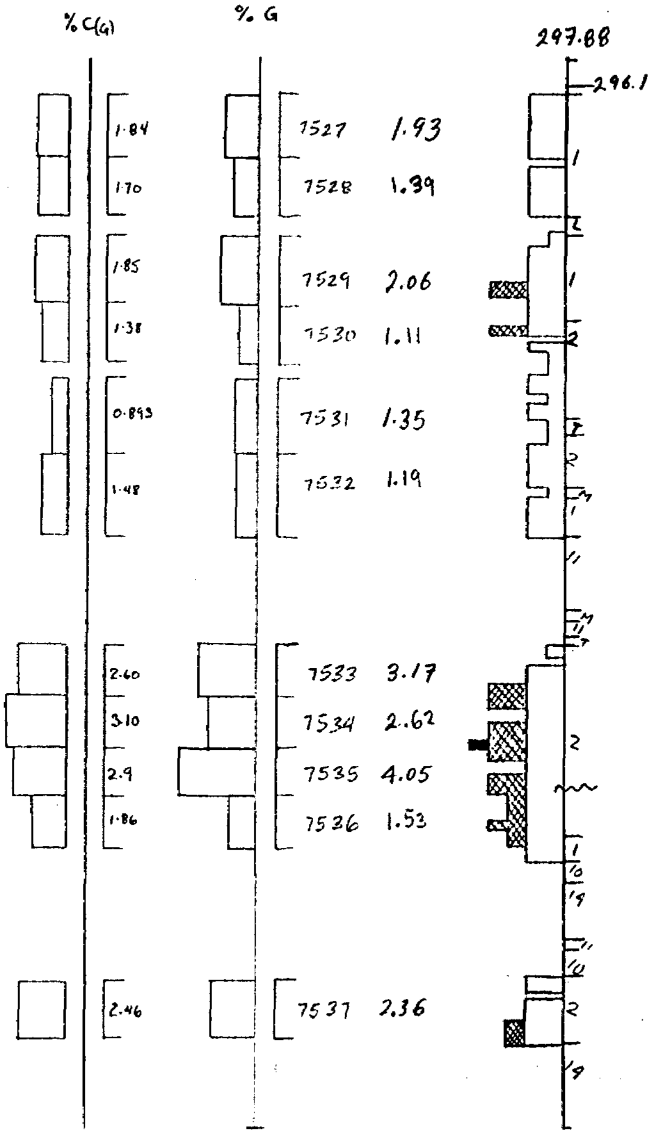
DDH 85-30

SCALE 1:480

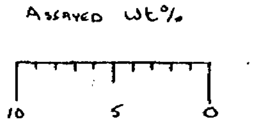
NORTHWEST GEOLOGICAL CONSULTING LTD

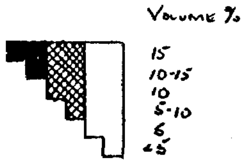
25+00N - 13+56E

ELEV. 1035'



31





DDH 85-31

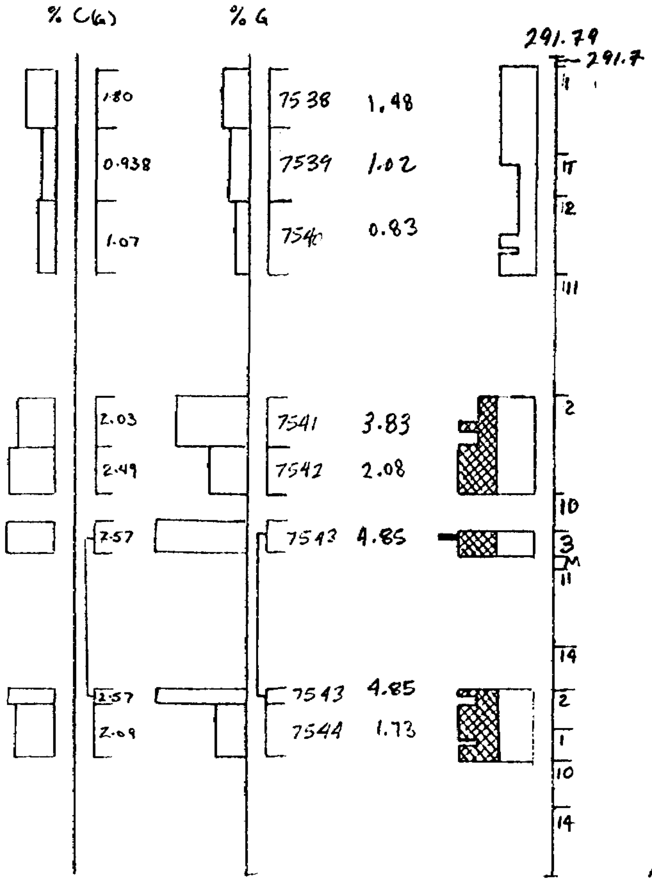
SECTION

Scale 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD.

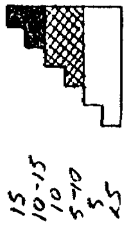
25+01N - 13+15E

ELEV. 1010



168

32



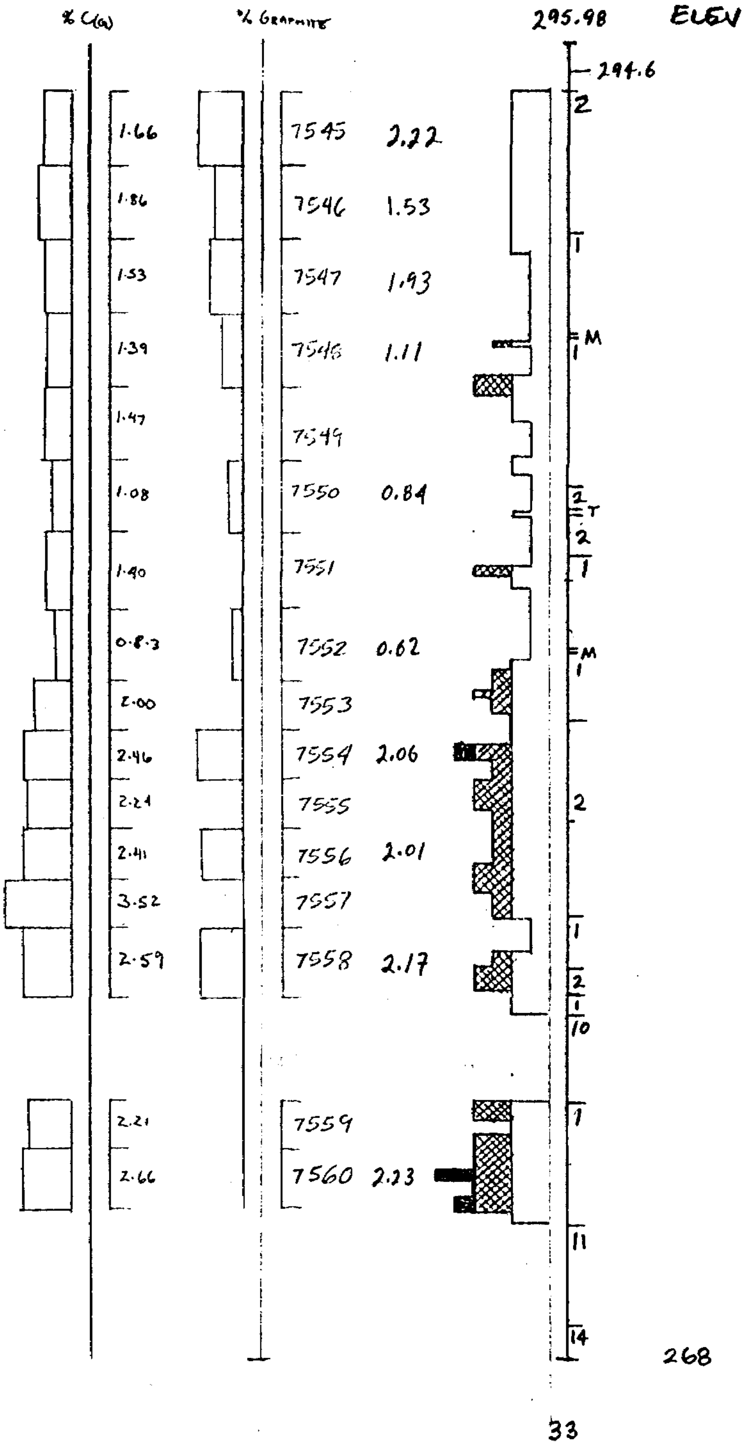
DDH 85-32

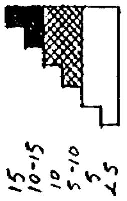
1: 480 SCALE

NORTHWEST GEOLOGICAL CONSULTING LTD.

25+00N - 13+99E

ELEV. 1030'



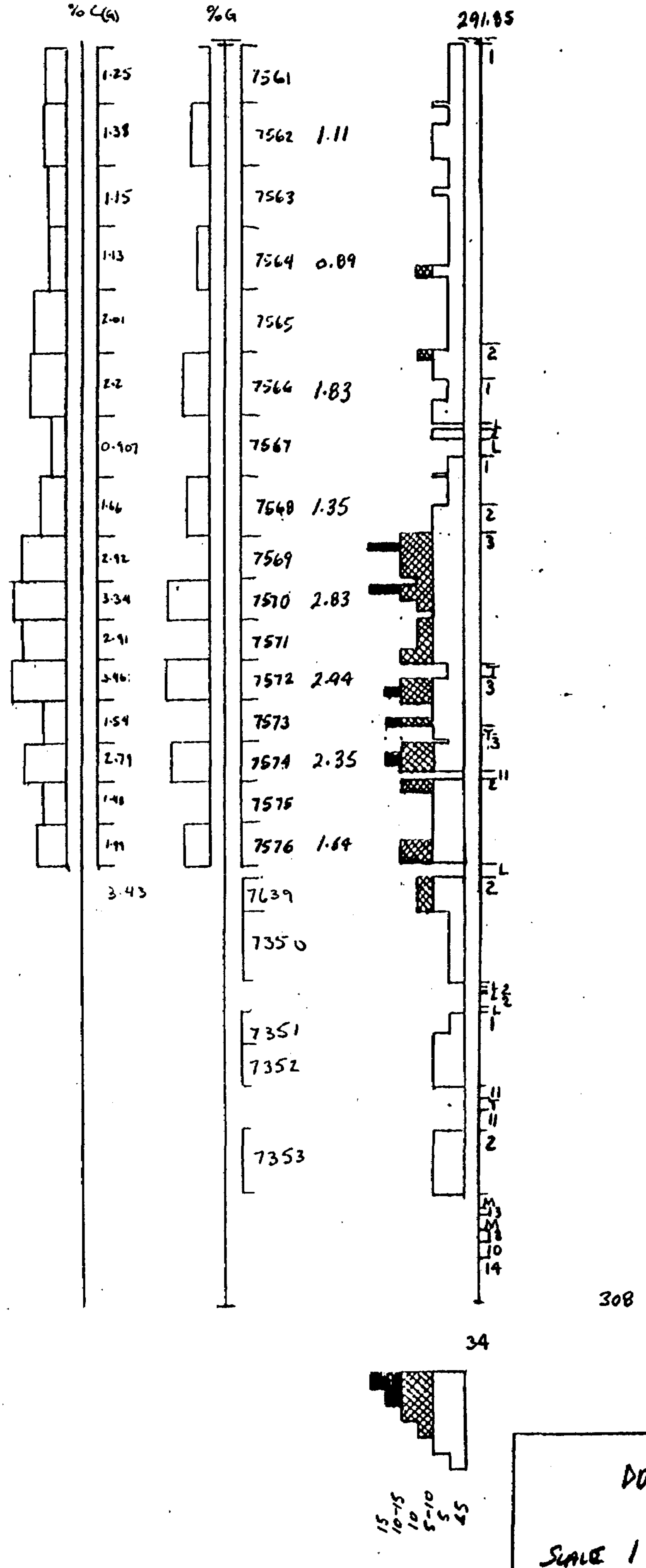


DDH 85-33

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

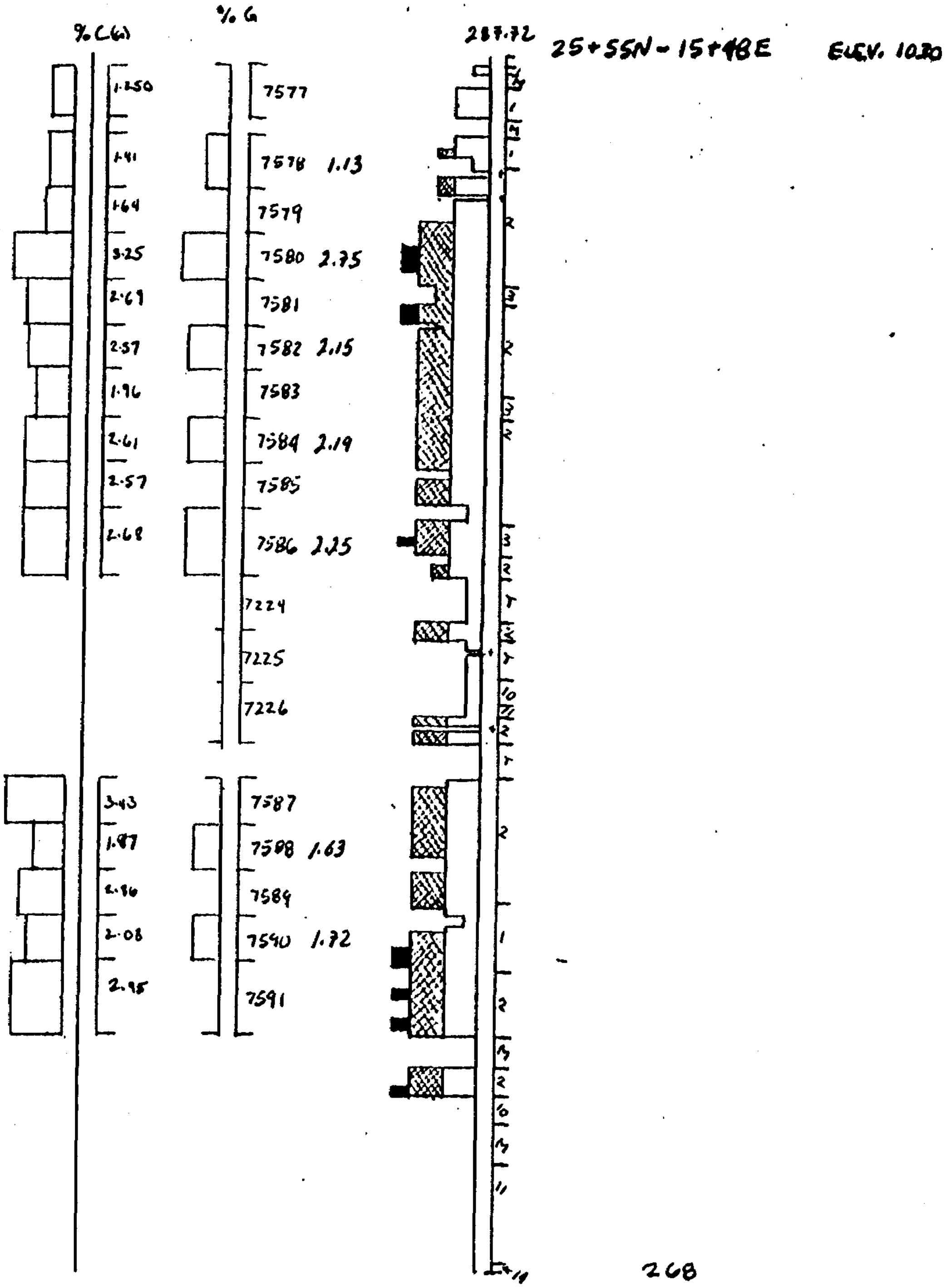
25+51N-15+97E 1050' ELEV.

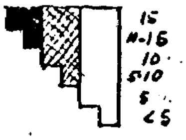


DDH 85-34

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD



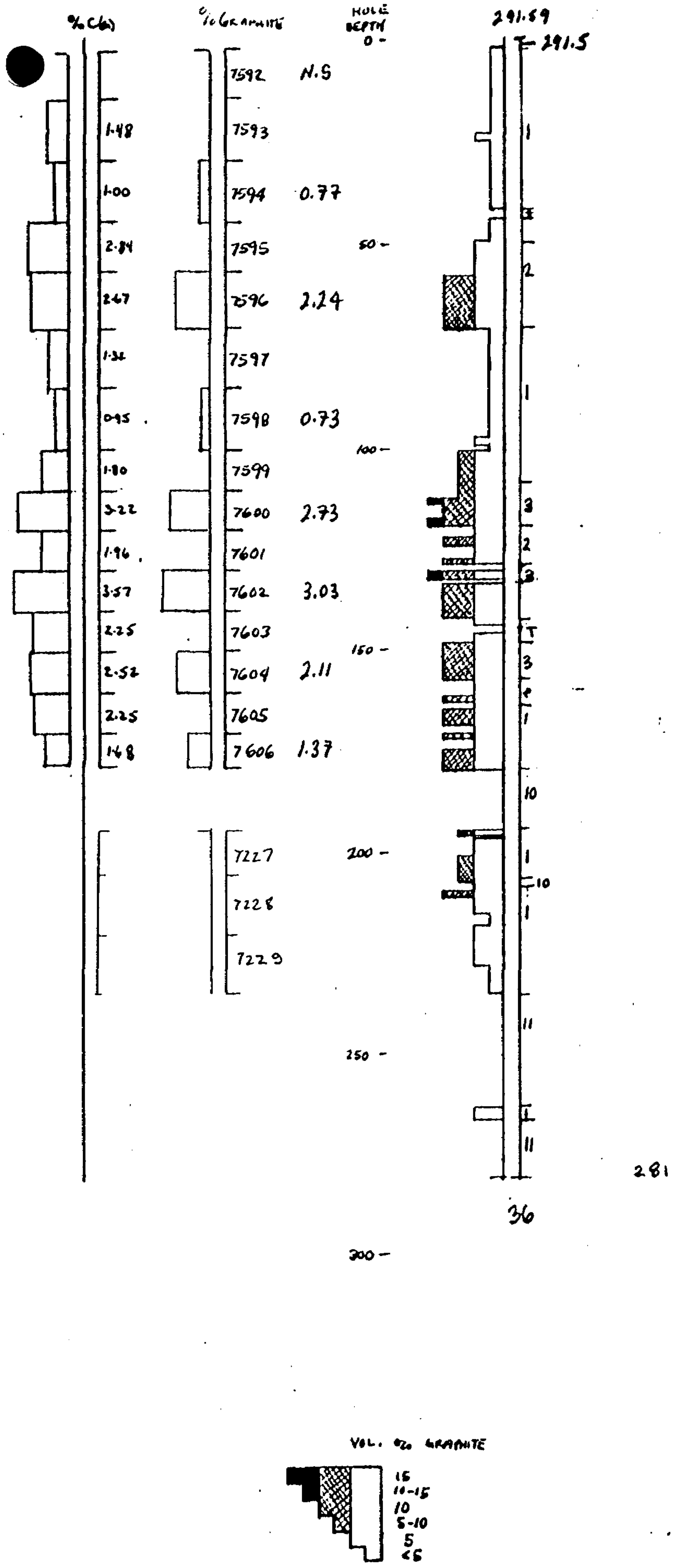


DDH 85-35
SECTION

1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

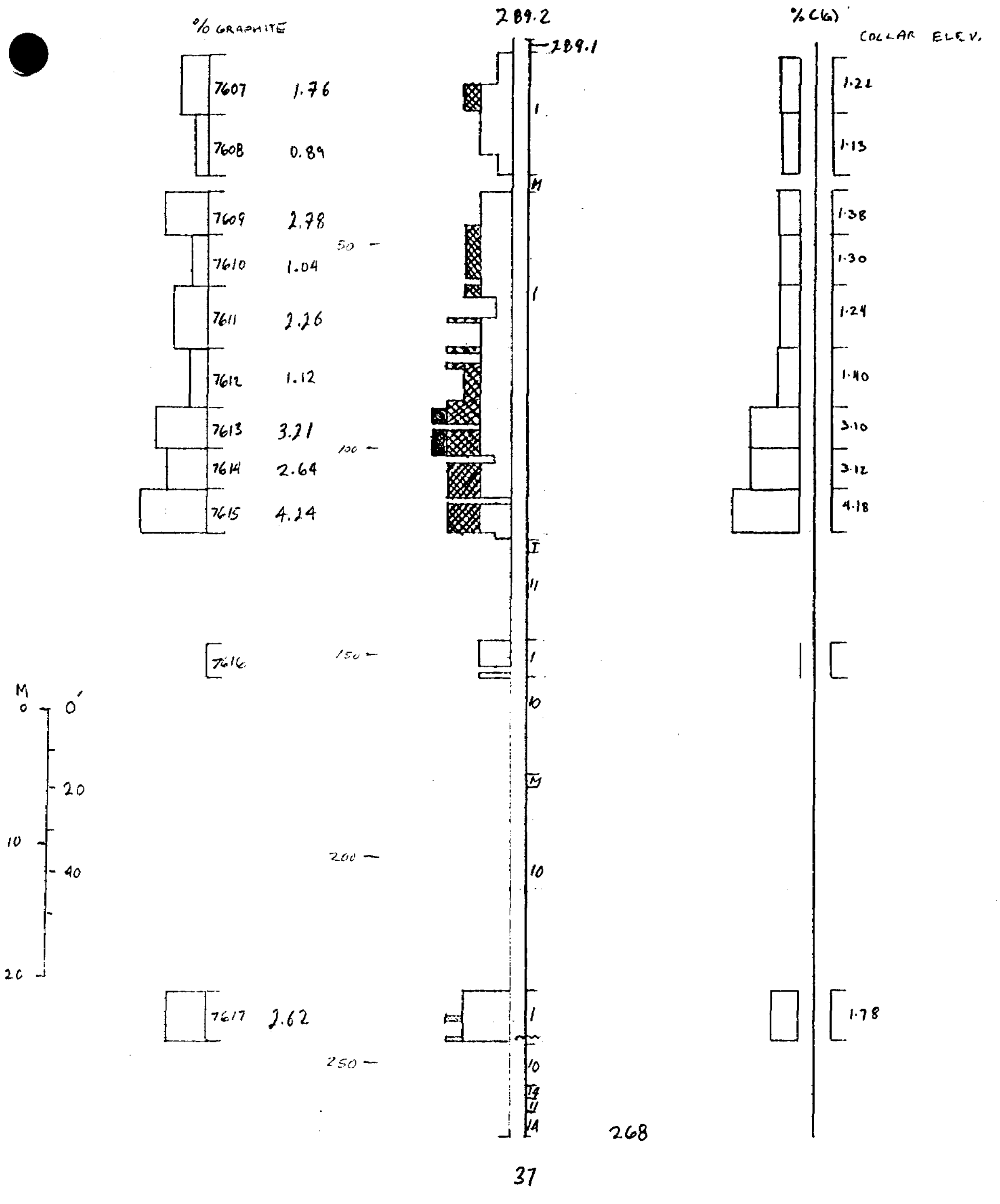
25+86N-16+51E

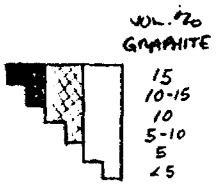


DDH 85-36
SECTION

SCALE 1:480

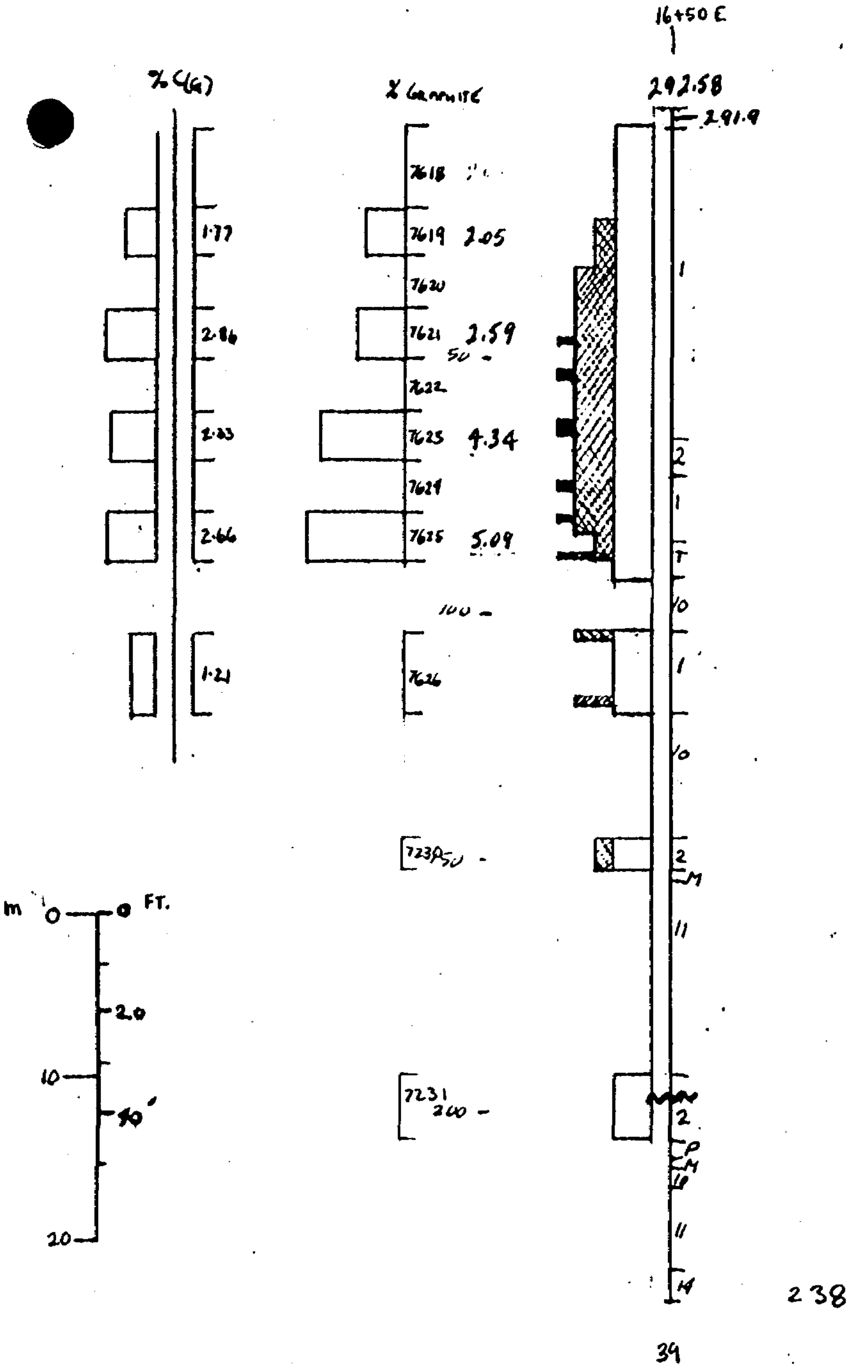
NORTHWEST GEOLOGICAL CONSULTING LTD





DDH 85-37
SECTION

SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD.

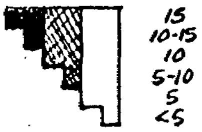


LEGEND

G 1aG

T 1aB$_T$

B 1qB



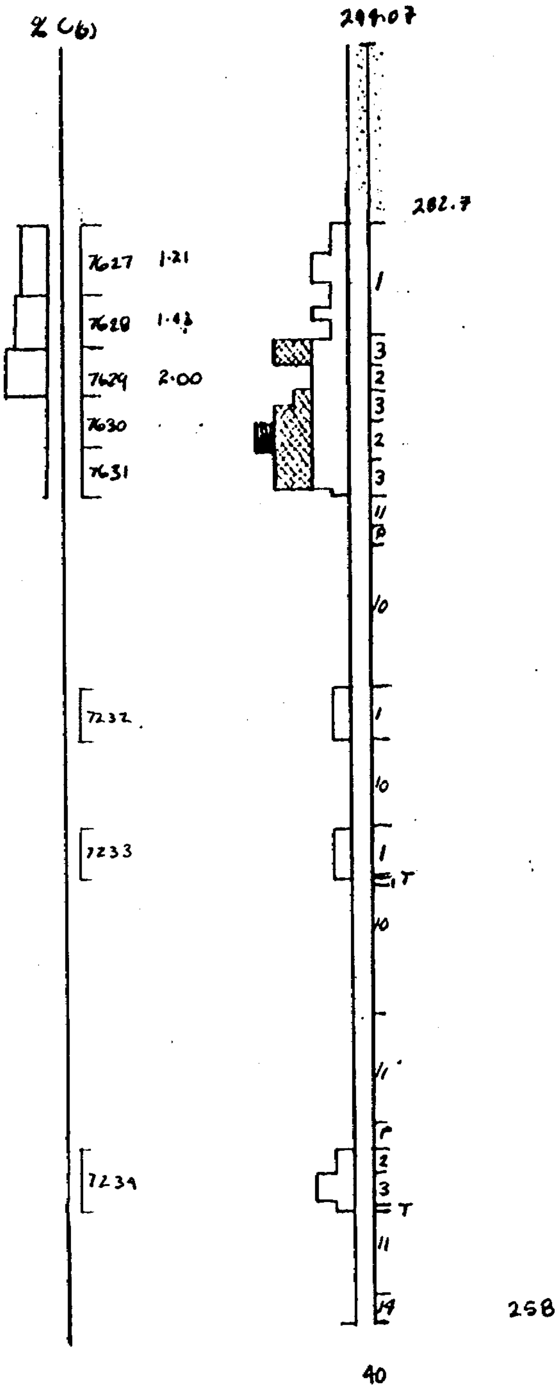
SECTION 27+50N

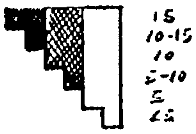
DDH 85-39

40 SCALE

1:480

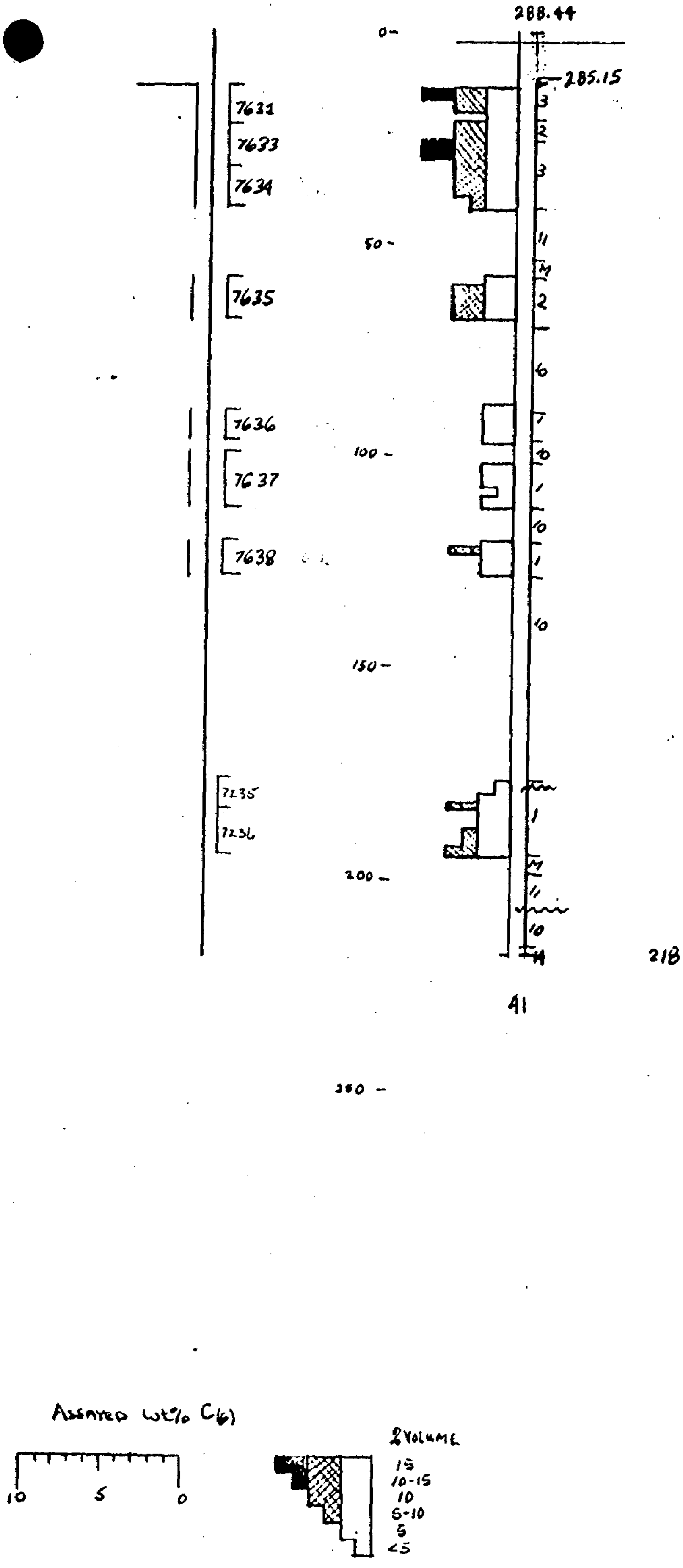
NORTHWEST GEOLOGICAL CONSULTING LTD.





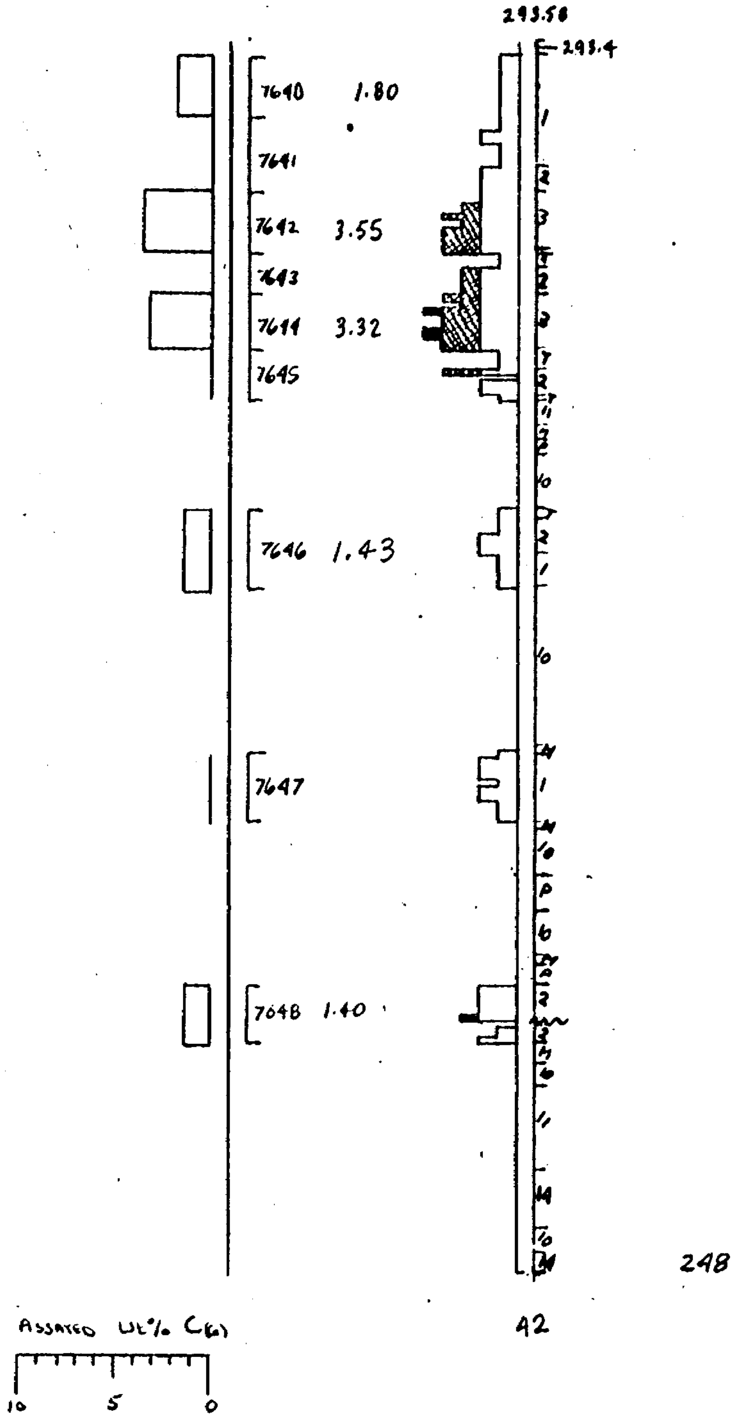
DOH 85-40
SECTION
SCALE 1:480

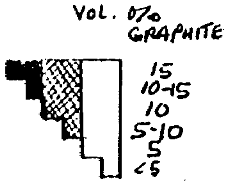
NORTHWEST GEOLOGICAL CONSULTING LTD.



DDH 85-41
SECTION
SCALE 1:480

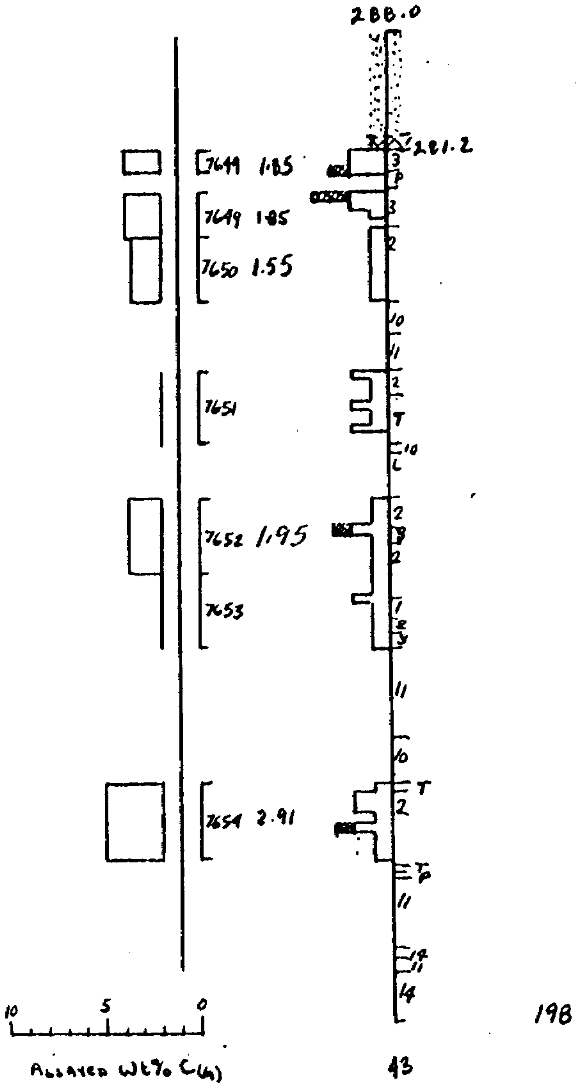
NORTHWEST GEOLOGICAL CONSULTING LTD

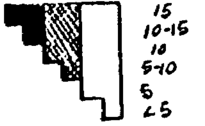




DDH 85-42
SECTION

NORTHWEST GEOLOGICAL
CONSULTING LTD.

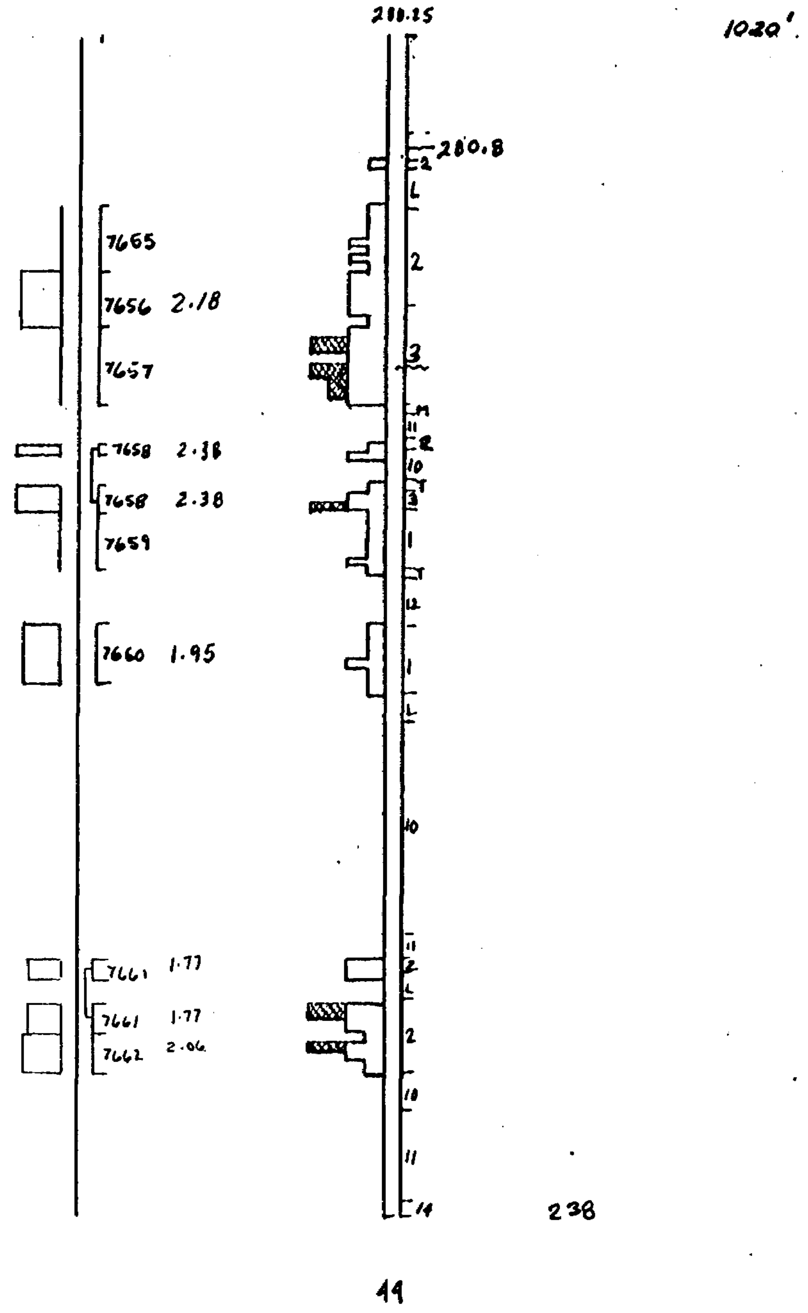




DDH 85-43

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

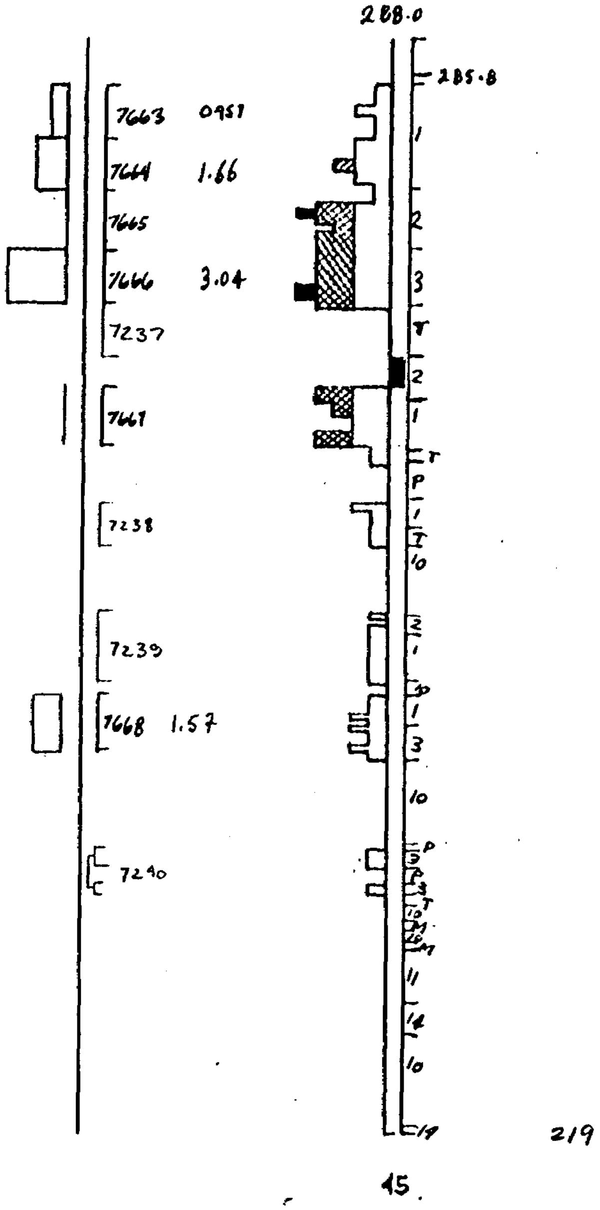


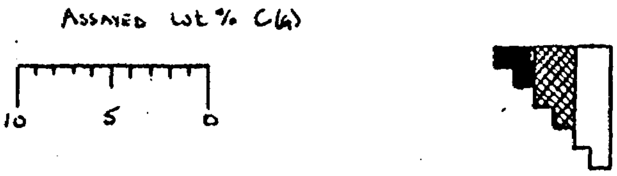
DDH 85-44

SECTION

1:480 SCALE

NORTHWEST GEOLOGICAL CONSULTING LTD.





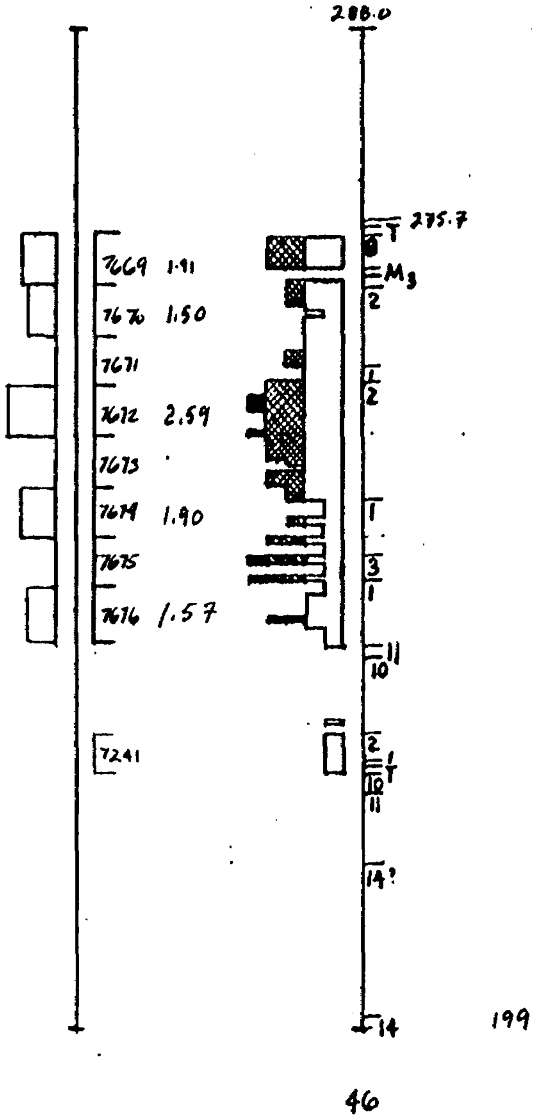
DDH 85-45

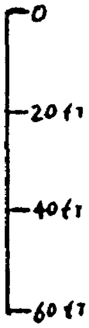
SECTION

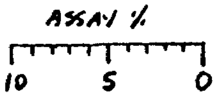
SCALE 1:480

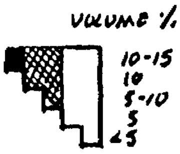
NORTHWEST GEOLOGICAL CONSULTING LTD.

D.D.H 85-46



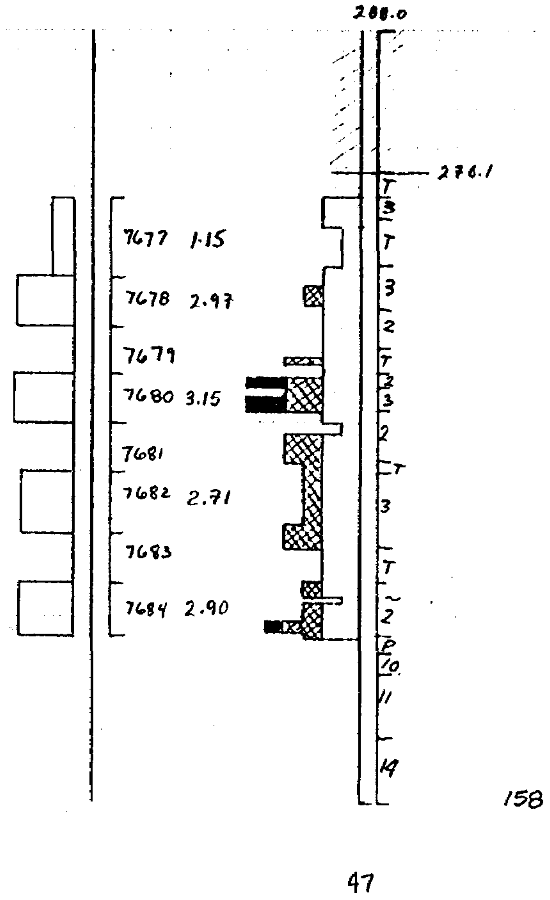




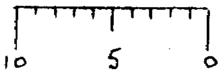


BISSETT CK PROJ
DDH 85-46
NORTHWEST GEOLOGICAL CONSULTING LTD

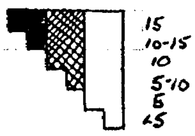
D.D.H 85-47.



ASSAYED WT% C(G)



VOLUME%



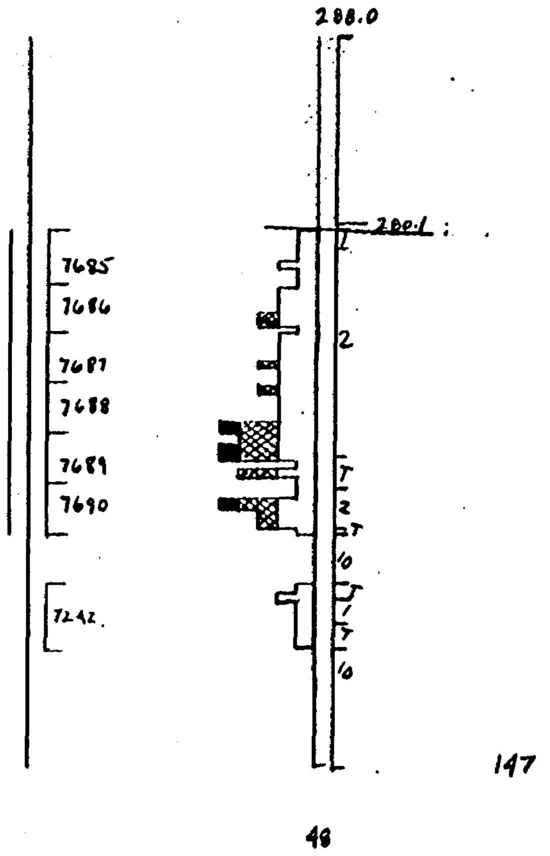
DOH 85-47

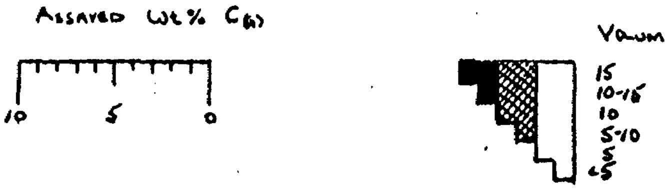
SECTION

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

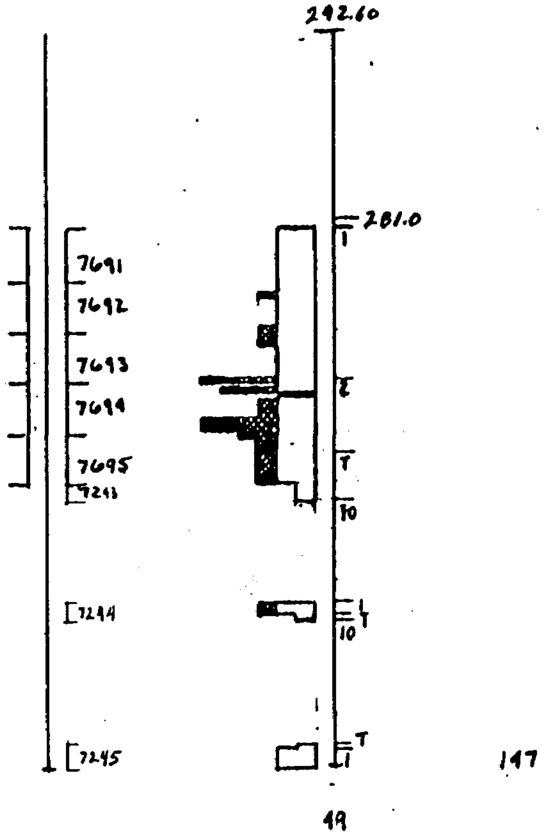
D.D.H 85-48
27+25N / 17+00N

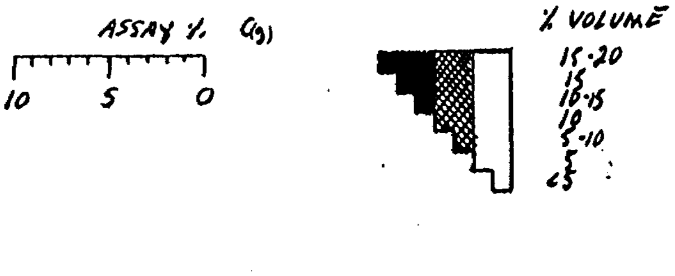




DOH 85-48
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD

DDH 85-49
L 27125N / 16+75E

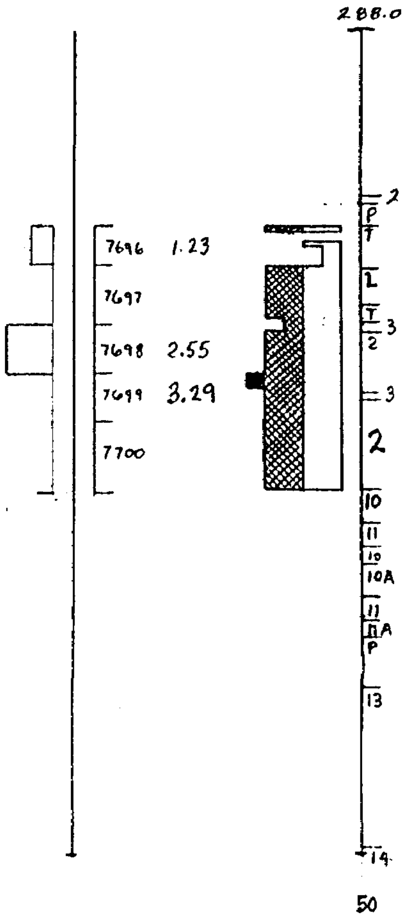




DDH-85 49
SECTION
SCALE 1:480
MATHWEST GEOLOGICAL
CONSULTING LTD.

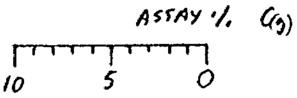
DDH 85 50

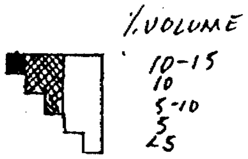
27+00N 14+50E



168

A = ALTERED

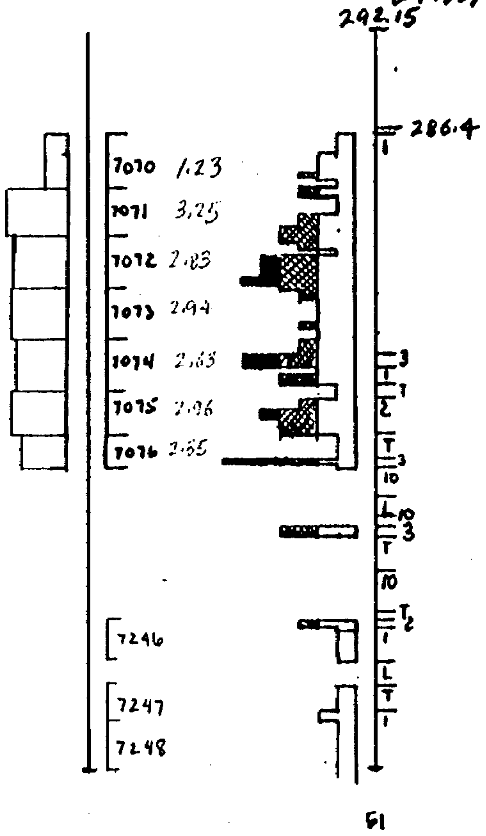




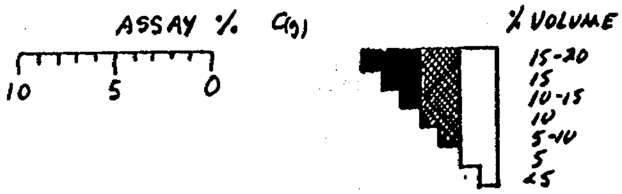
DDH-85-50
SECTION
SCALE 1:480

DDH 85-51

27+25N 16+50E



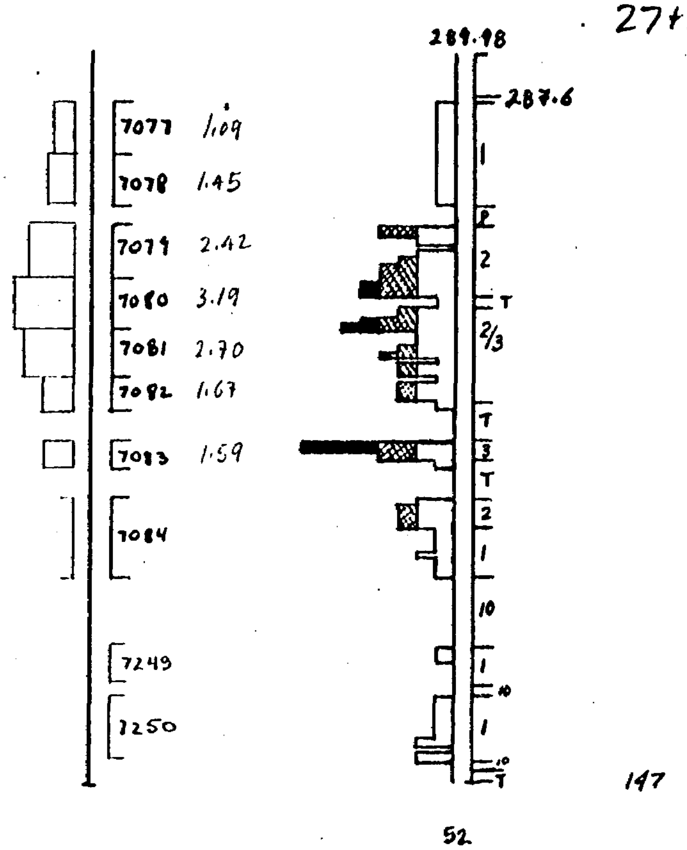
147

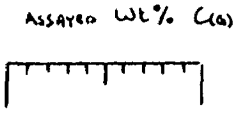


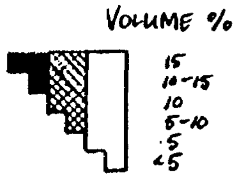
DDH-85-51
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD

DDH 85-52

27+25 N 16+25E







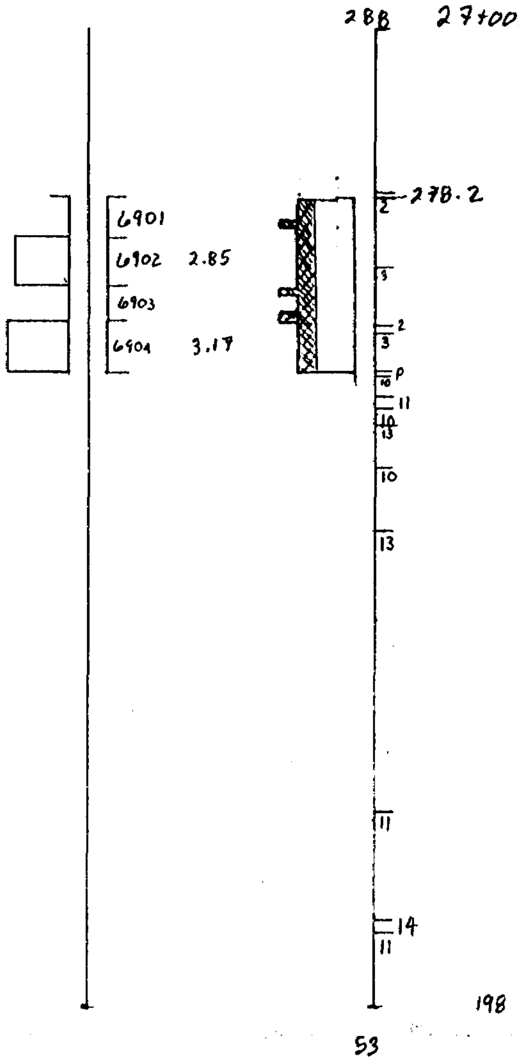
DDH 85-52

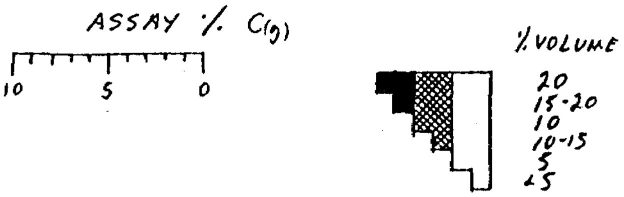
scale 1:480

NORTHWEST GEOLOGICAL CONSULTING, LTD

DDH 85 53

288 27+00N 14+00E





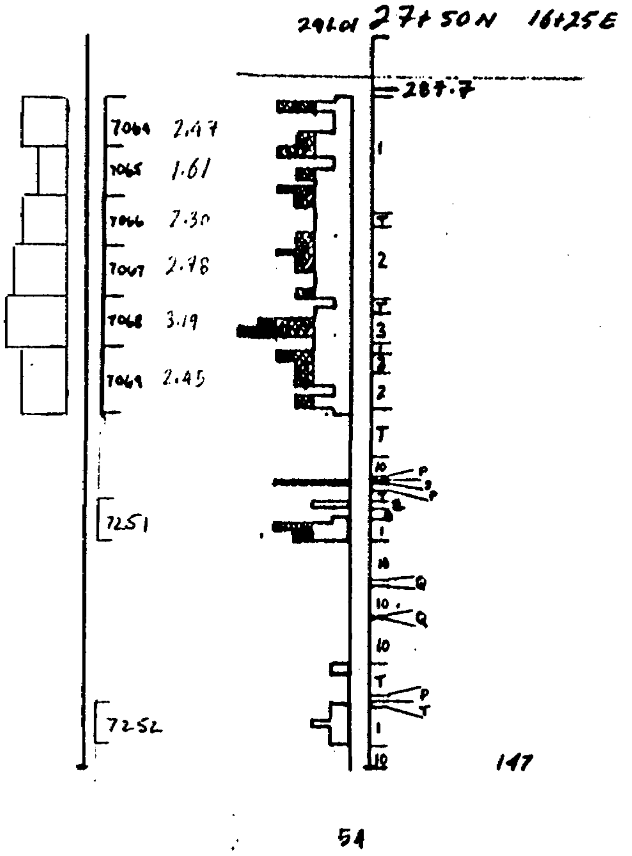
DDH 85 - 53

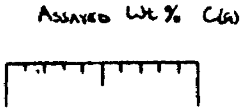
SECTION

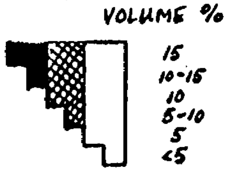
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD.

DDH 85-54





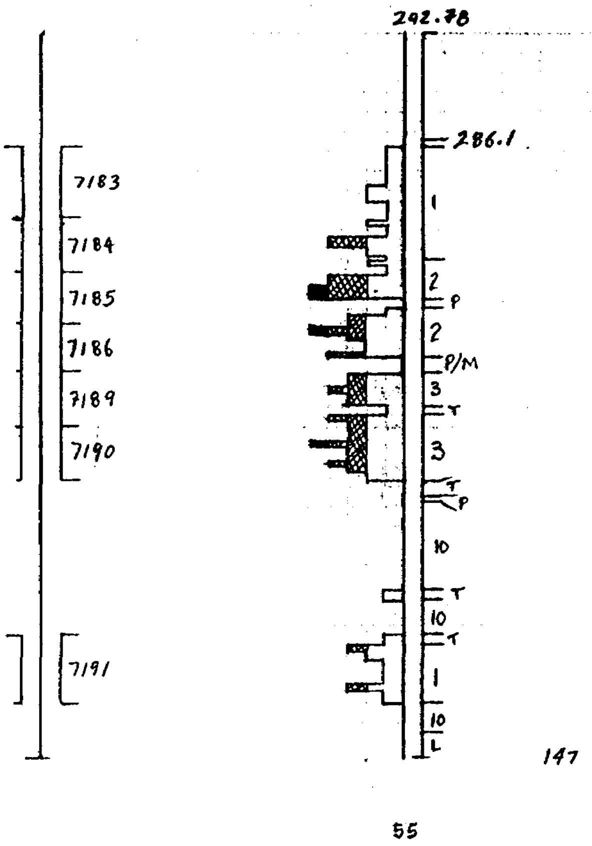


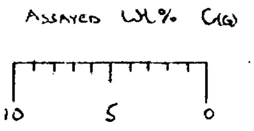
DDH 85-54

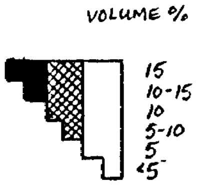
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING, LTD.

DDH 85-55
27+50 N 16+75 E
1030'



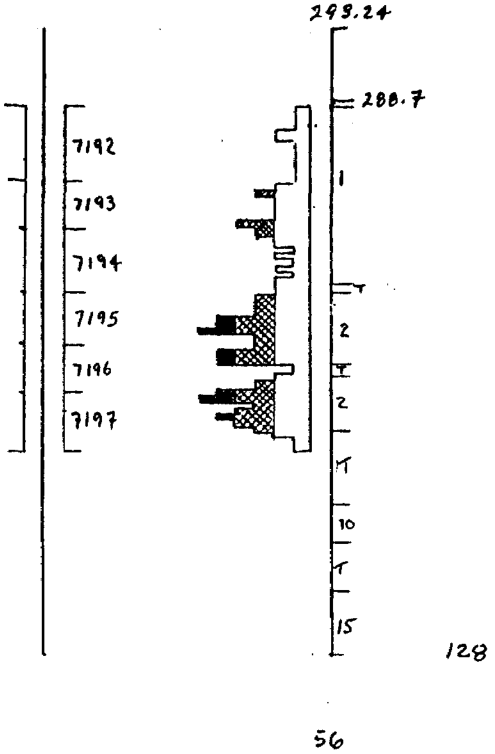


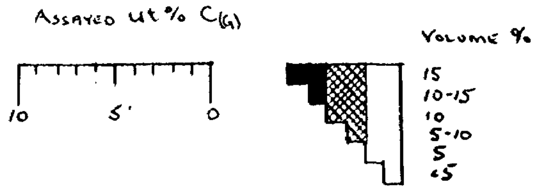


DDH 85-55
Scale 1:480
NORTHWEST GEOLOGICAL CONSULTING, LTD

DDH 85-56

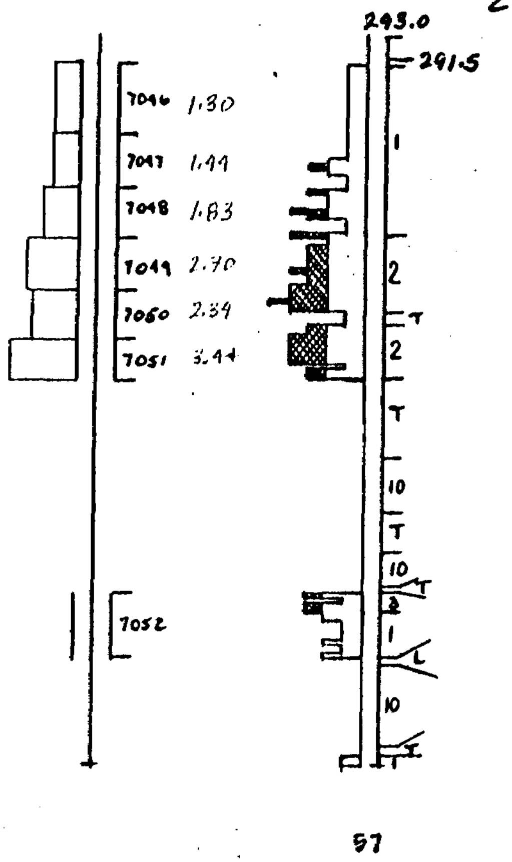
27+25 N 17+25E

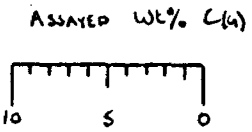


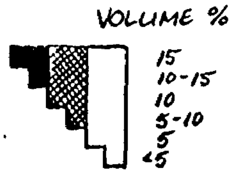


D.D.H 85-56
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD.

85-57
27+75 N 16+50E





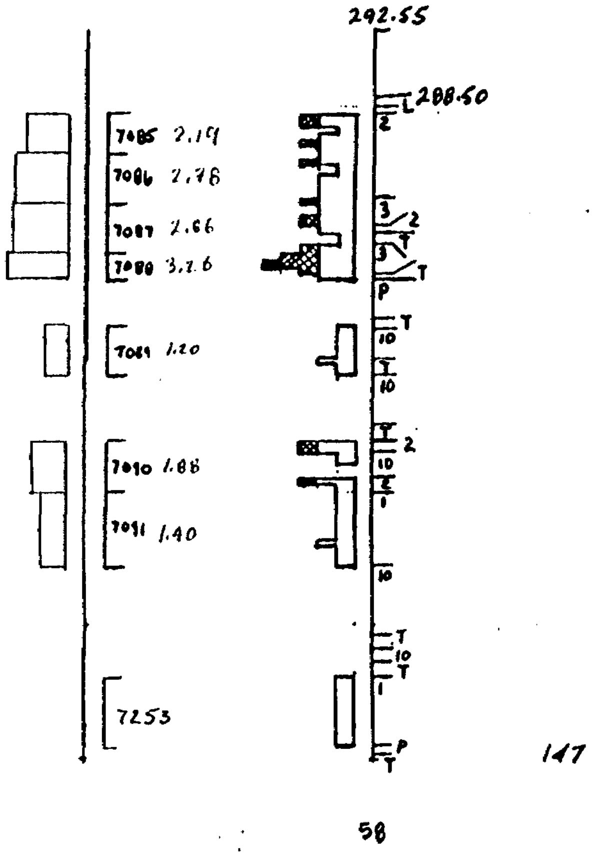


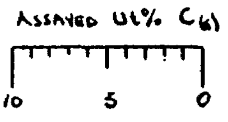
DDH 85-57

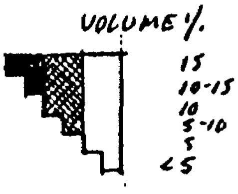
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING, LTD

DDH-85-58

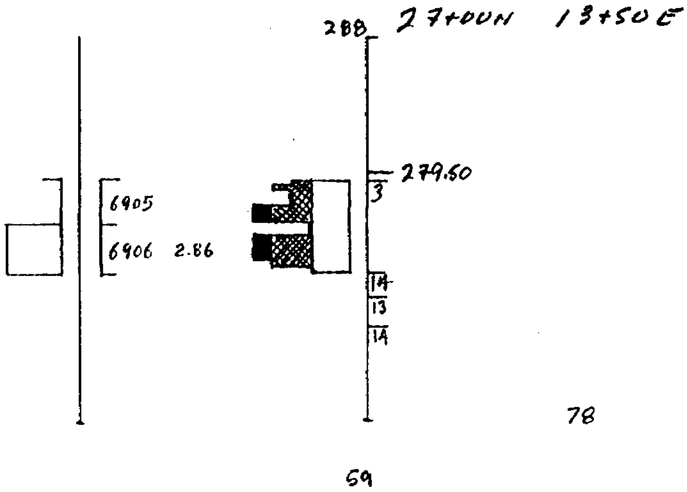


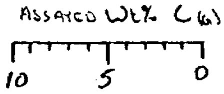


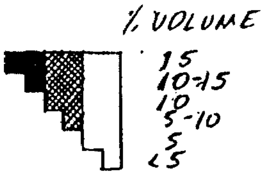


DDH-85-58
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85-59





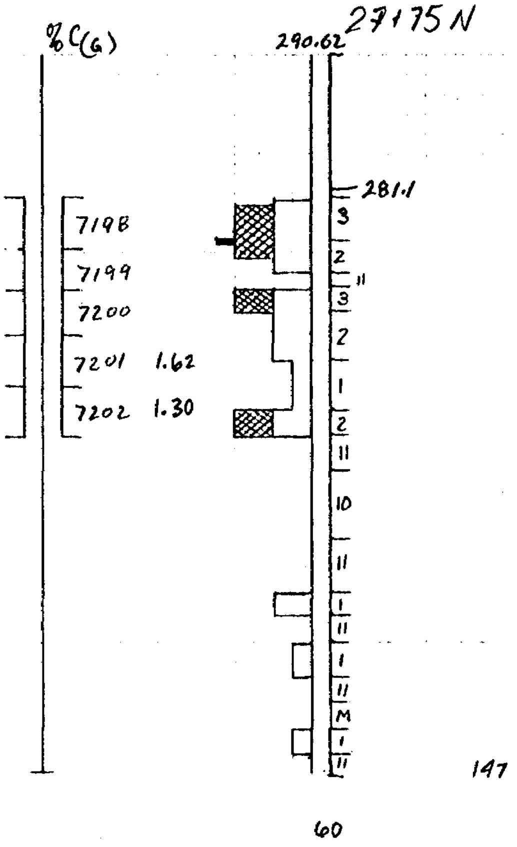


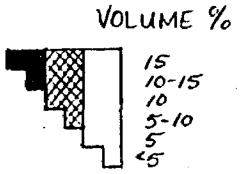
DDH 85-59
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85-60

27+75N 16+00E





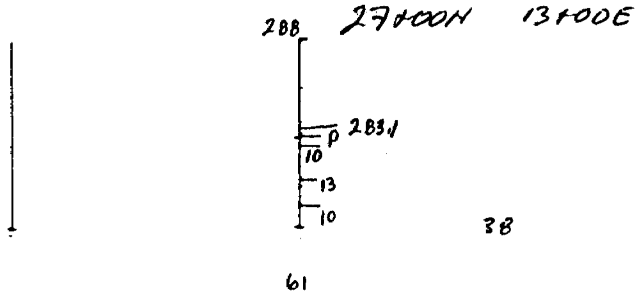
AMENDED

DDH 85-60

Scale 1:480

NORTHWEST GEOLOGICAL CONSULTANTS, LTD.

DDH 85-61

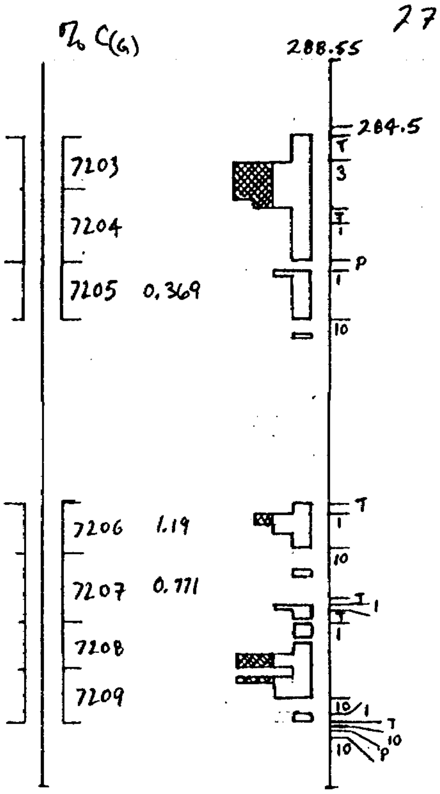


DDH-85-61
SECTION
SCALE 1:480

NORTWEST GEOLOGICAL
CONSULTING LTD.

DDH BS-62

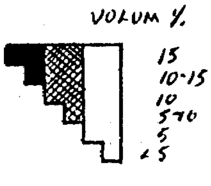
27175N 15+75E



147

62

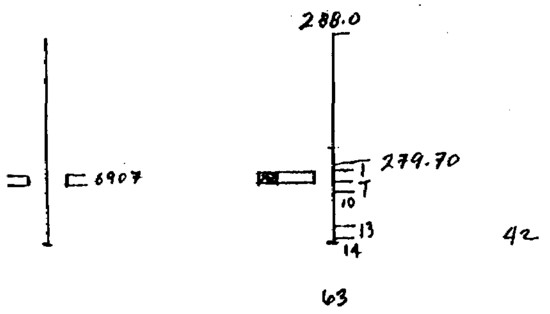
AMENDED

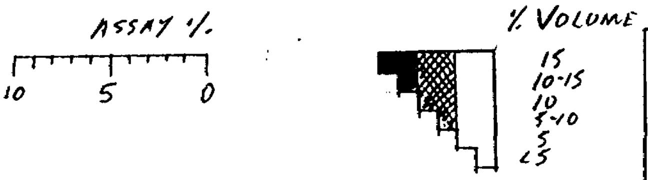


DDH BS-62
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85-63

27+00N 13+25E



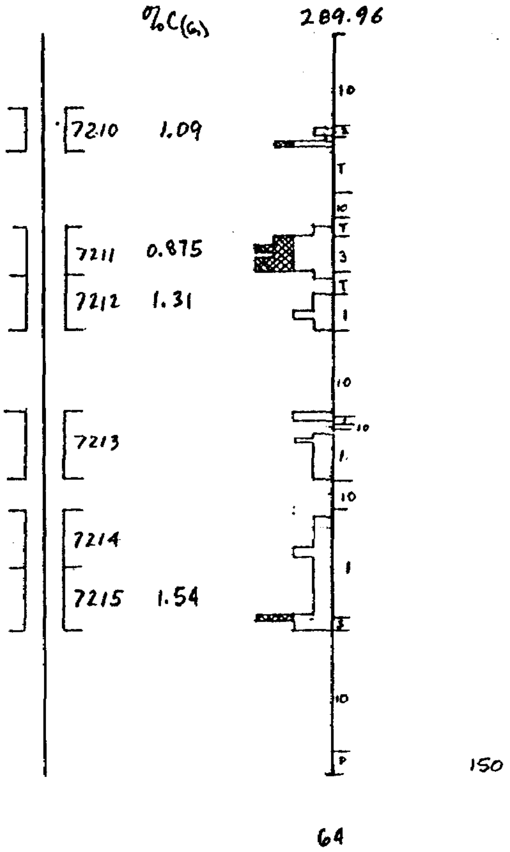


DDH 85-63
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

D.D.H. 85-64

28+00 N · 15+50 E



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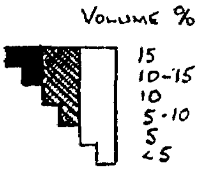
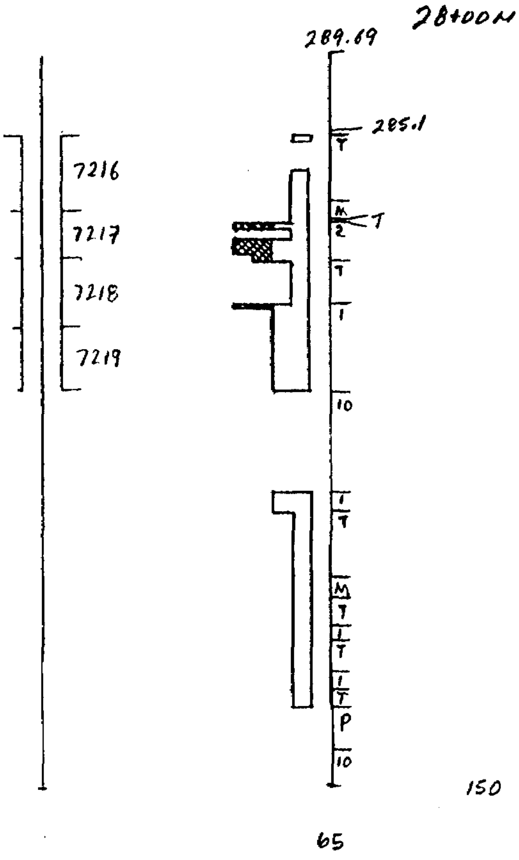


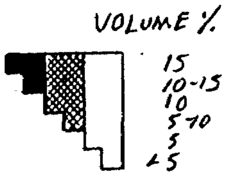
D.D.H. 85-64
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85-65

28+00N 15+75E

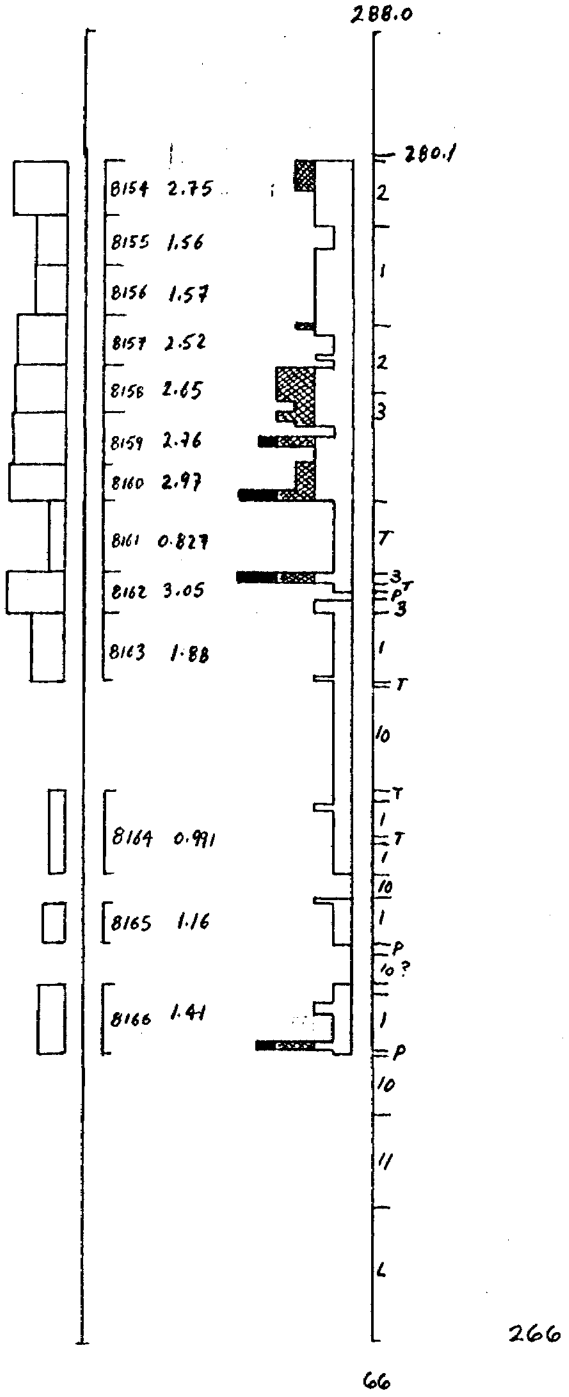




DDH-85-65
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

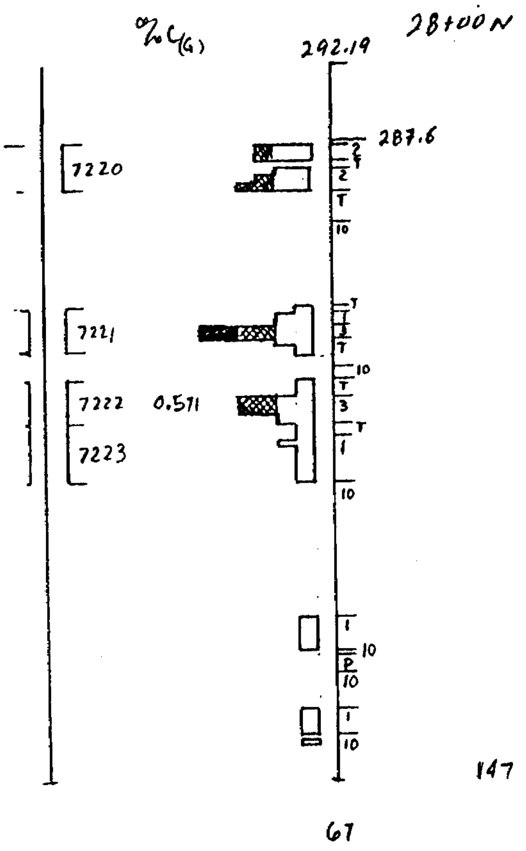
DDH-85-66



DDH 85-66
SECTION
1:480 SCALE

DDH-85-67

28+00N 16+00E



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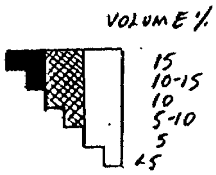
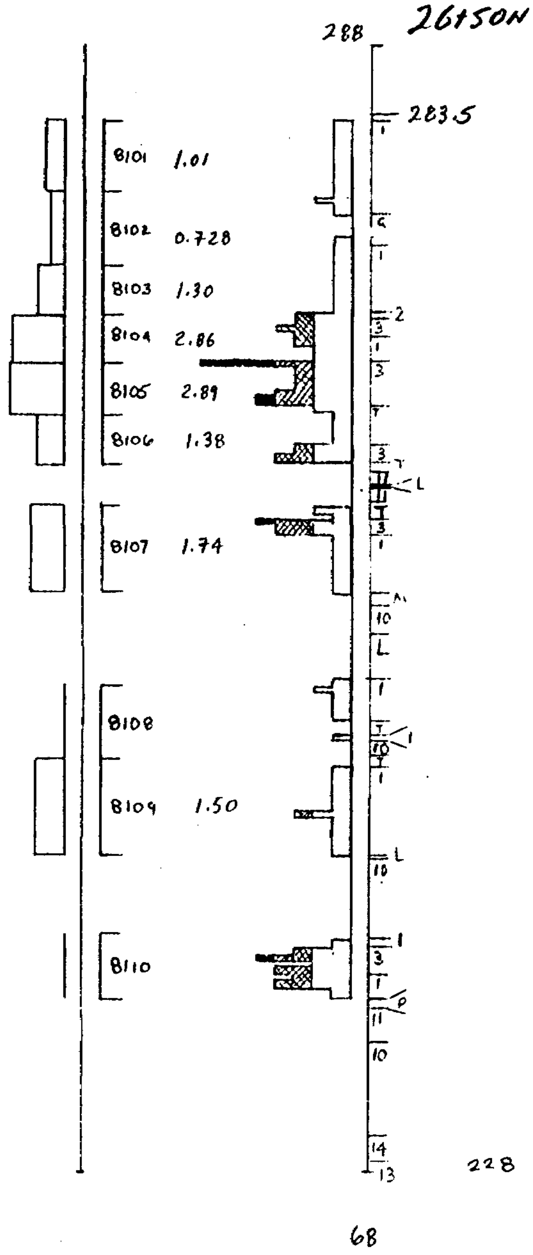


DDH-85-67
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

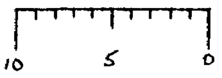
DDH 85-6B

26+50N 16+00E

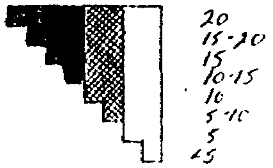


COMPLETED

ASSAYED Wt % C(G)



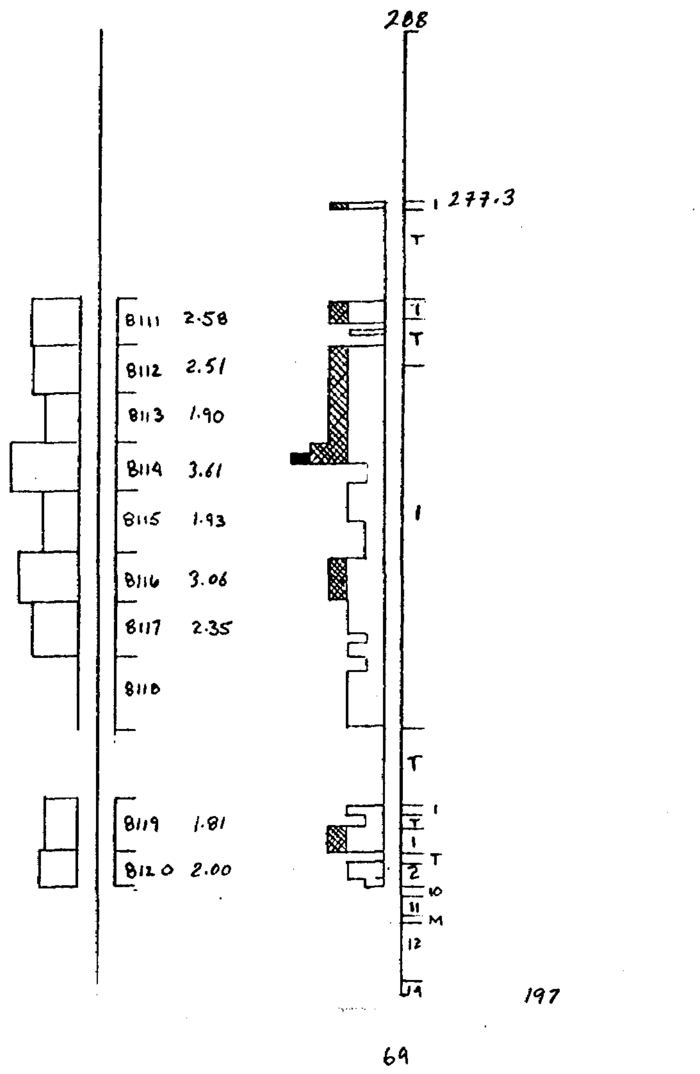
VOLUME %

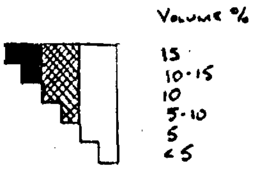


DDH 85-68
SECTION
SCALE 1:480
NORTH WEST GEOLOGICAL CONSULTING LTD.

D.D.H. 85-69

26+50 N 15+50E





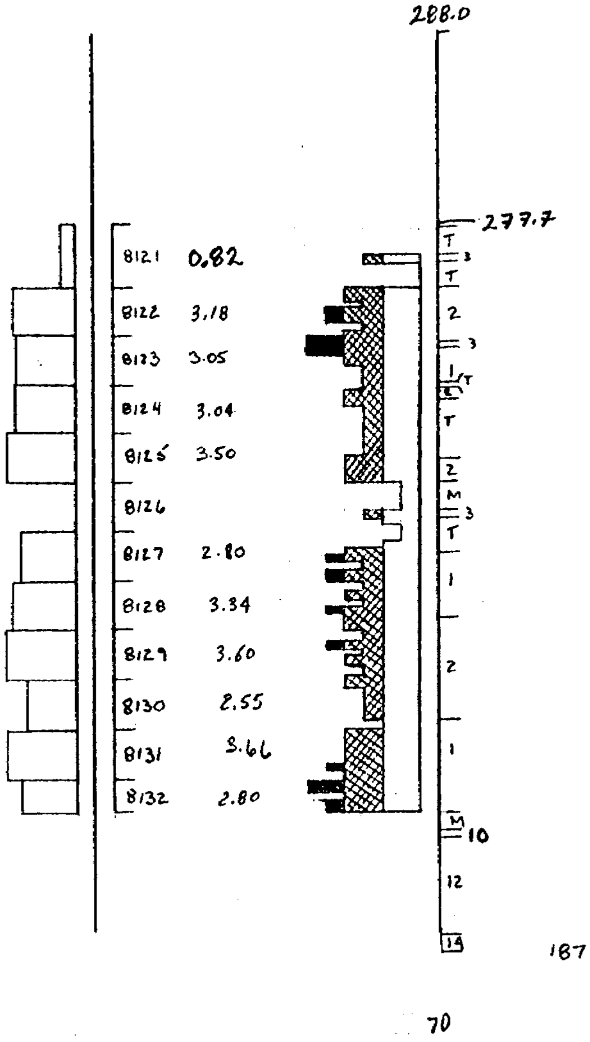
D.D.H. 85-69

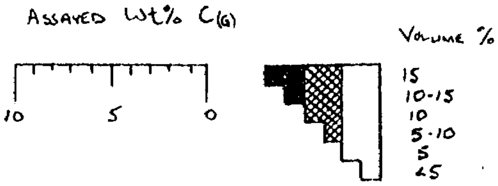
SECTION

SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.H 85-70
26+50 N 15+00E



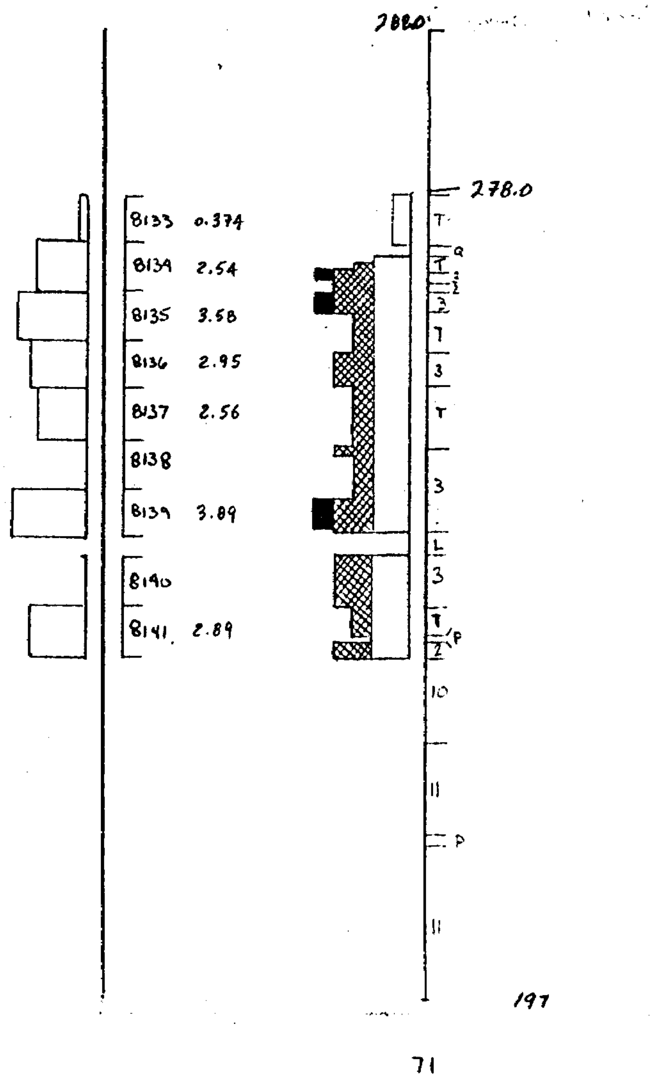


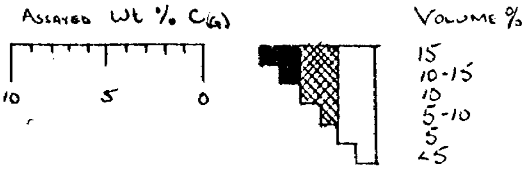
Corrected ✓

D.D.H 85-70
Section
Scale 1:480
Northwest Geological Consulting Ltd

D.D.H. 85-71

26+50 N / 14+50





D.D.H. 85-71

Section

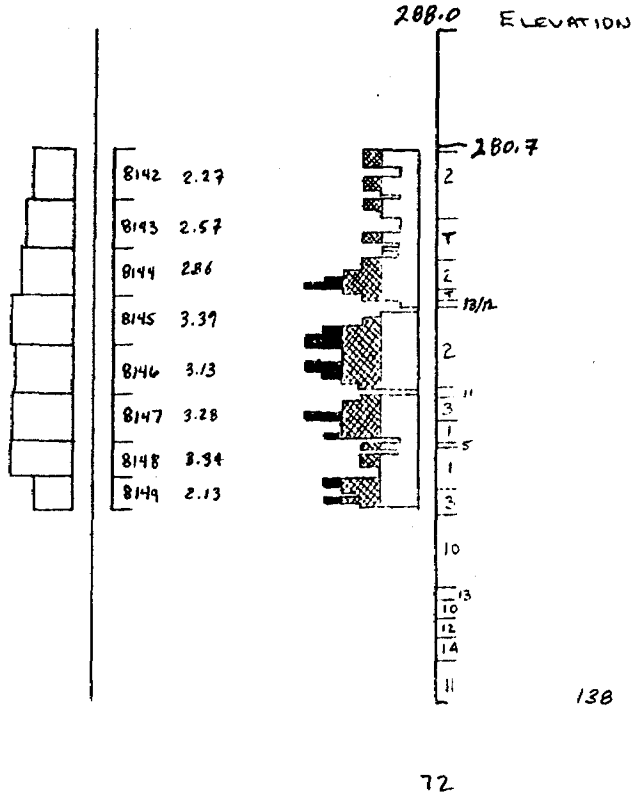
Scale 1:480

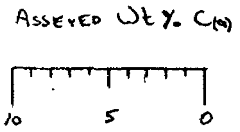
Northwest Geological Ltd

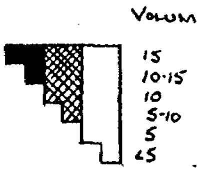
D.D.H 85-72

26+50 N 14+00 E

Elevation 1000'



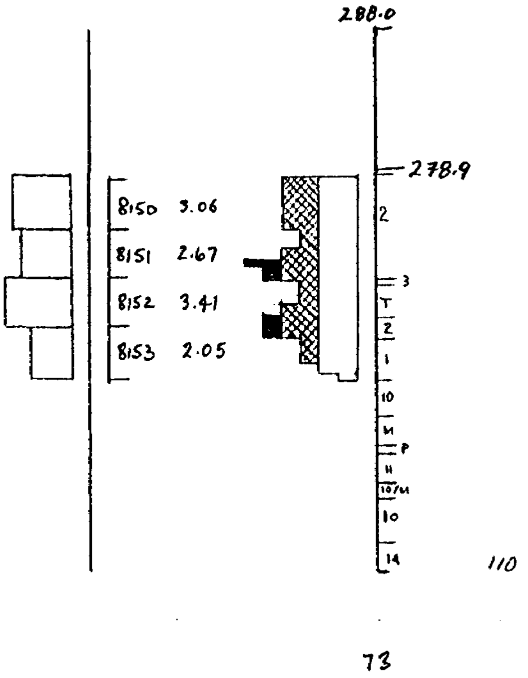


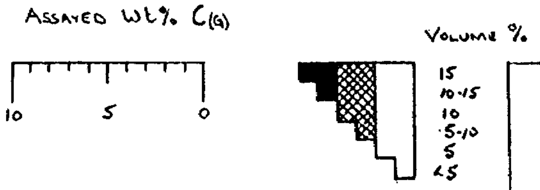


D.D.H. 85-72
Section
Scale 1:480
Northwest Geological
Consulting Ltd.

D.D.H. 85-73

26+50N 13+50E



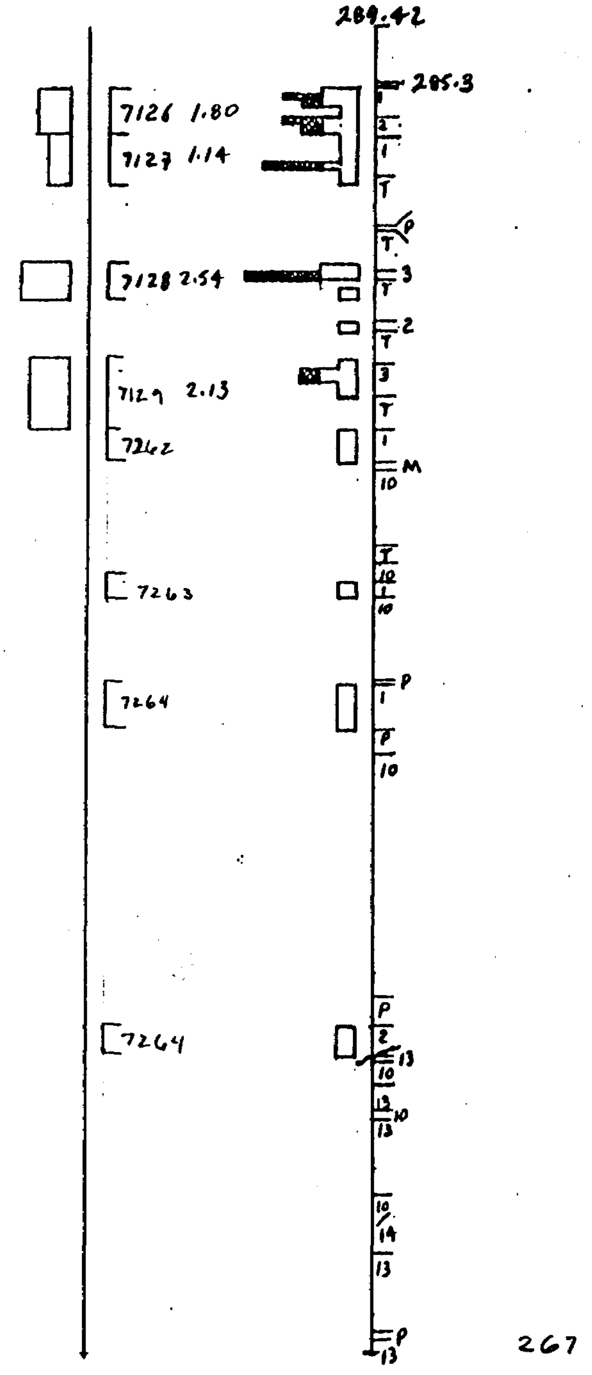


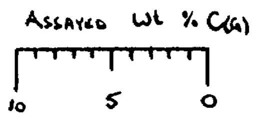
D.D.H. 85-73
SECTION
SCALE 1:480

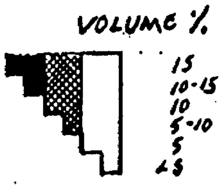
NORTH WEST GEOLOGICAL
CONSULTING LTD

DDH 85-74

28+50N 17+00E



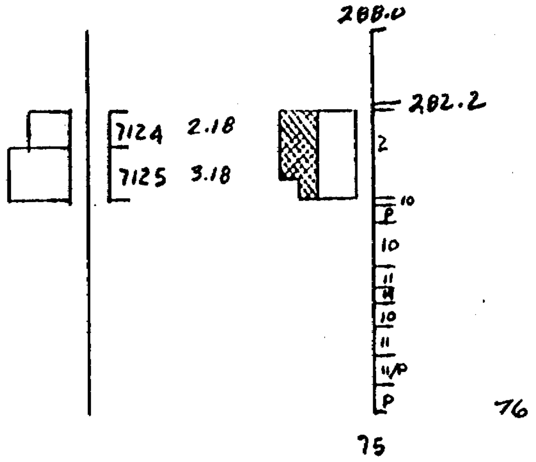


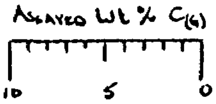


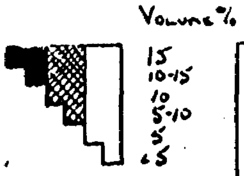
DDH 85-74
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD.

D.D.H 85-75
26150 N 13400 E



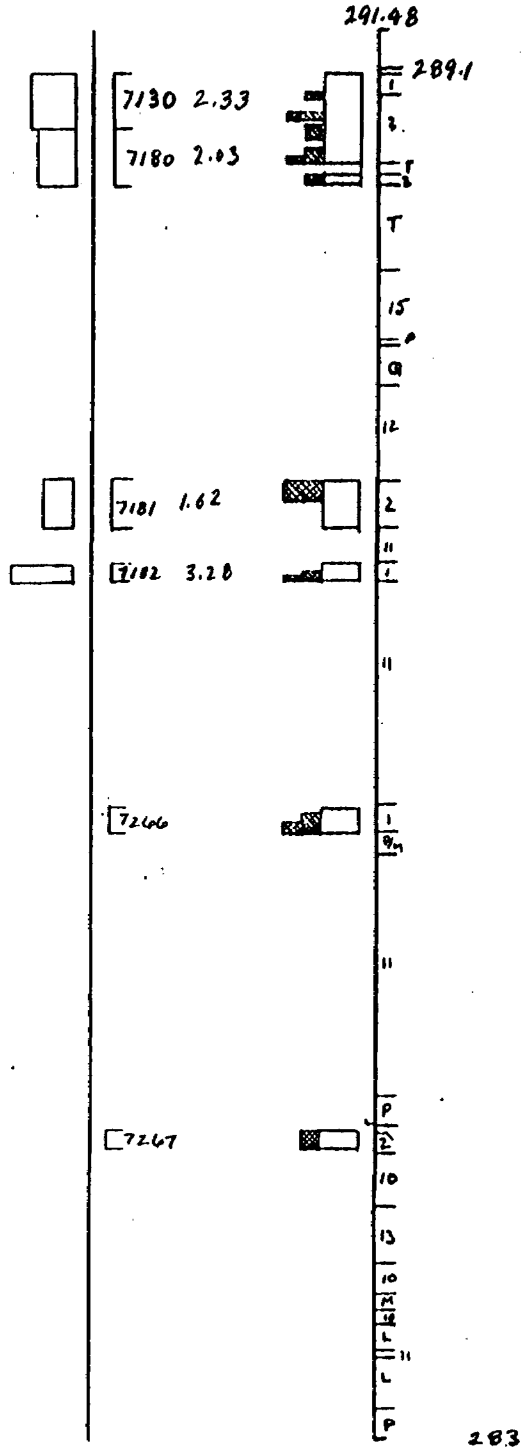


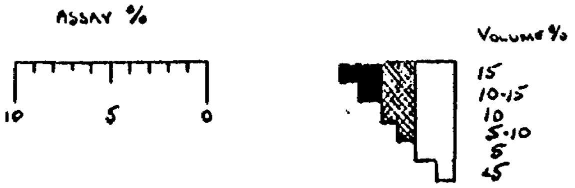


D.D.H 85-75
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

29+00N / 17+25E
Elevation 1010'

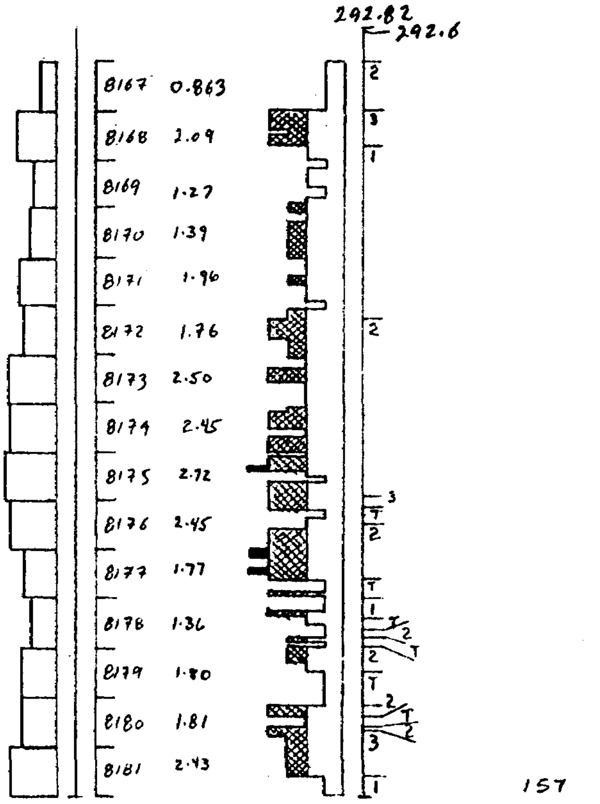




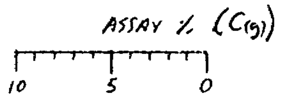
D.D.H. 85-76
Scale 1:480
North West Geological
Consulting Ltd.

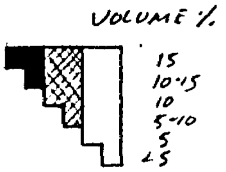
DDH 85-77

26+00N 18+50 E



77



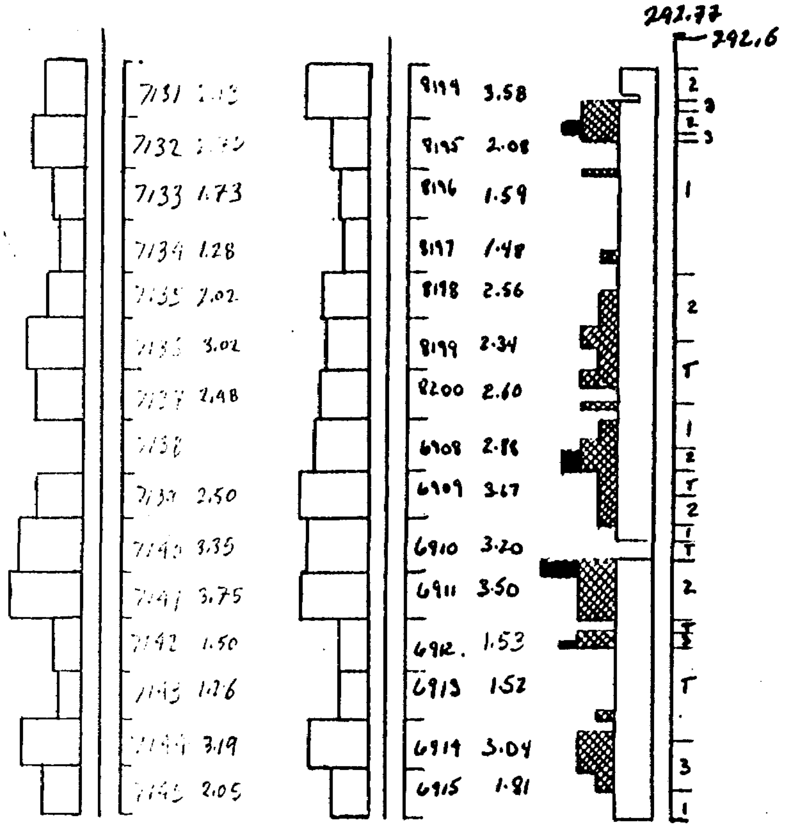


DDH 85-77
SECTION
SCALE 1:480

NORTH-WEST GEOLOGICAL
CONSULTING LTD.

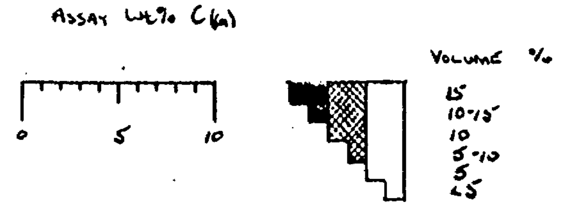
DDH 85-78

26+00N 18+60E



157

78



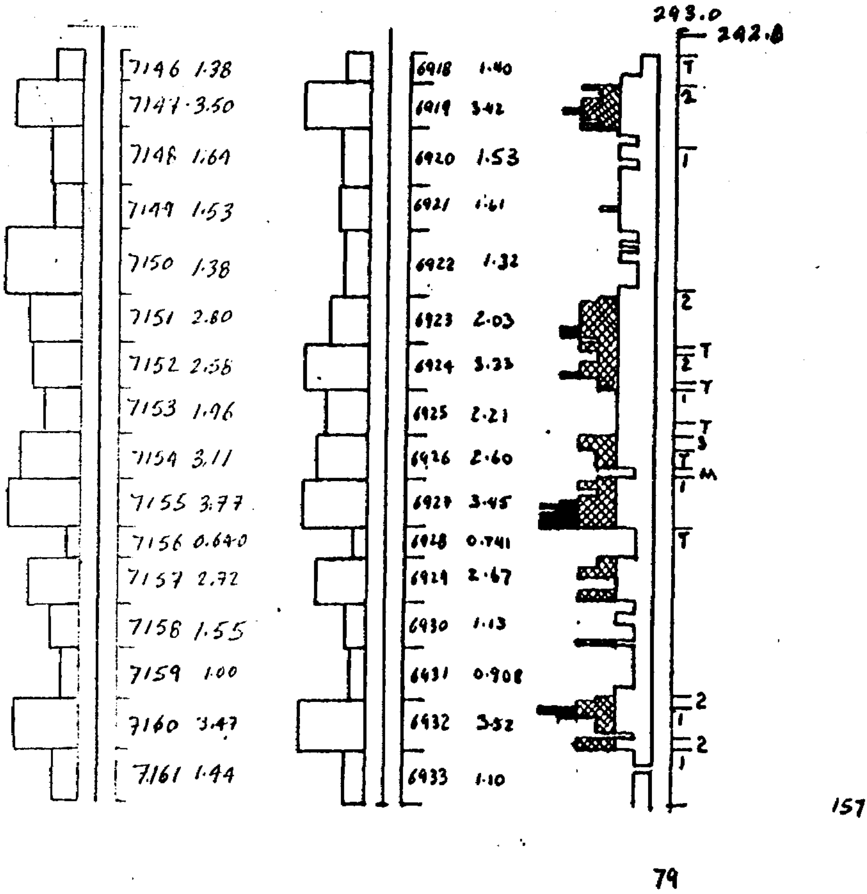
D.D.H 85-78

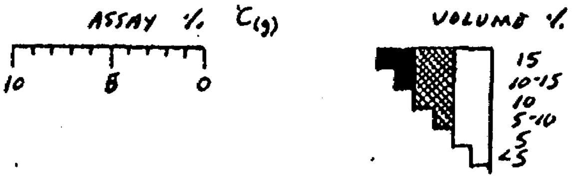
Scale 1:480

Northwest Geological Consulting Ltd.

DDH-85-79

26+00N 18+70E





DDH 85-79

SECTION

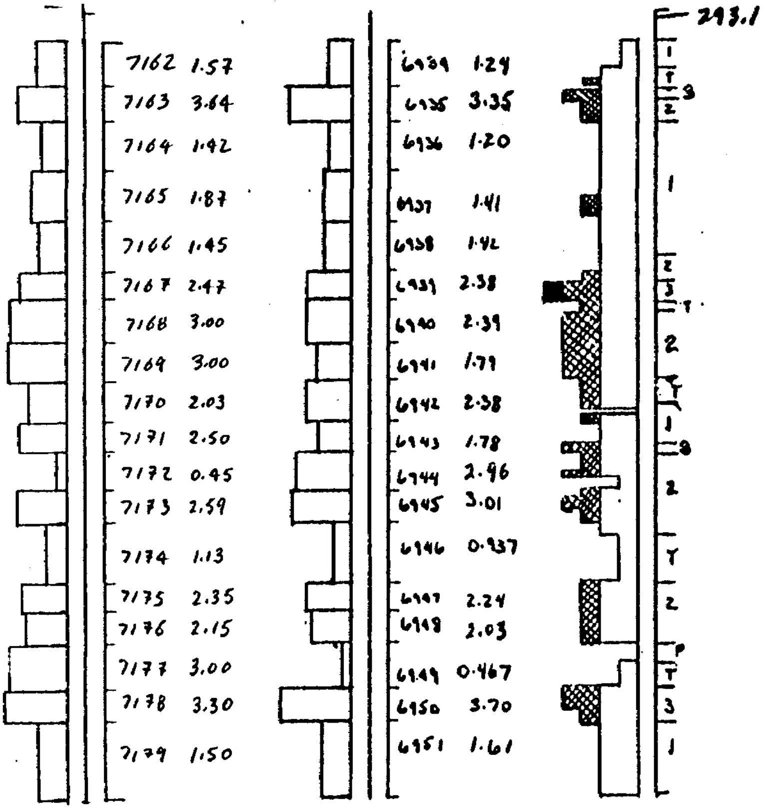
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.'H. 85-80

26+00N 18+80E

298.27



7162	1.57	6934	1.24
7163	3.64	6935	3.35
7164	1.42	6936	1.20
7165	1.87	6937	1.41
7166	1.45	6938	1.42
7167	2.47	6939	2.38
7168	3.00	6940	2.39
7169	3.00	6941	1.79
7170	2.03	6942	2.38
7171	2.50	6943	1.78
7172	0.45	6944	2.96
7173	2.59	6945	3.01
7174	1.13	6946	0.937
7175	2.35	6947	2.24
7176	2.15	6948	2.03
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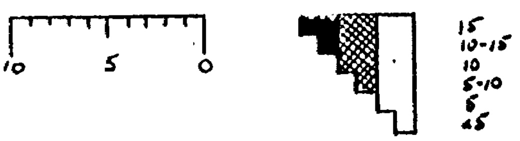
7179	1.50	6951	1.61

157

80

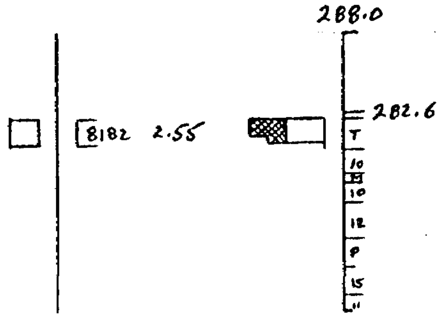


D.D.H. 85-80

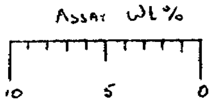
SCALE 1:480

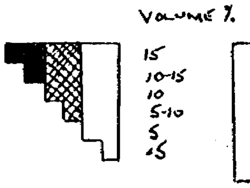
NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.H. 85-81
26150N / 12+75E
ELEVATION 944.88



57

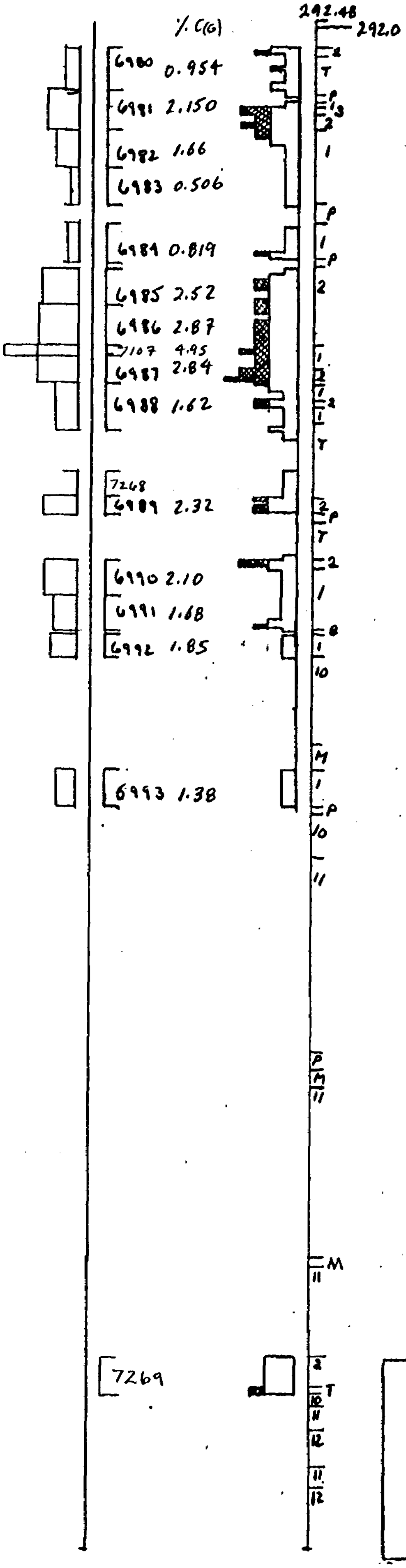




D.D.H. 85-81
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD.

DDH-85-82

26+00N 19+00E



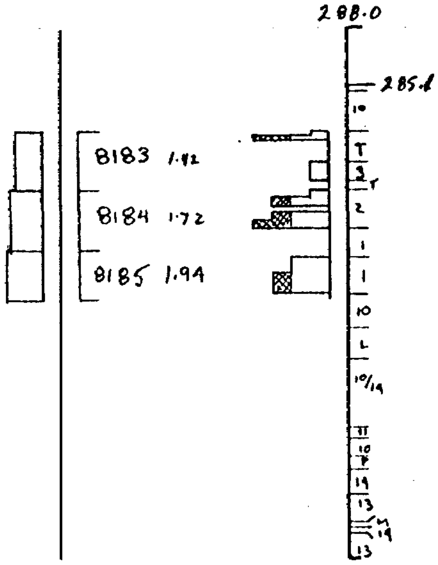
DDH 85-82

X SECTION

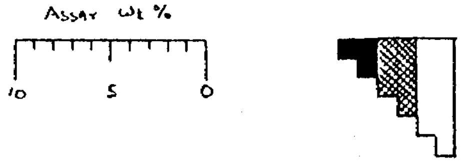
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD.

D.D.H 85-83
26100N / 12+50E
ELEVATION 944.88

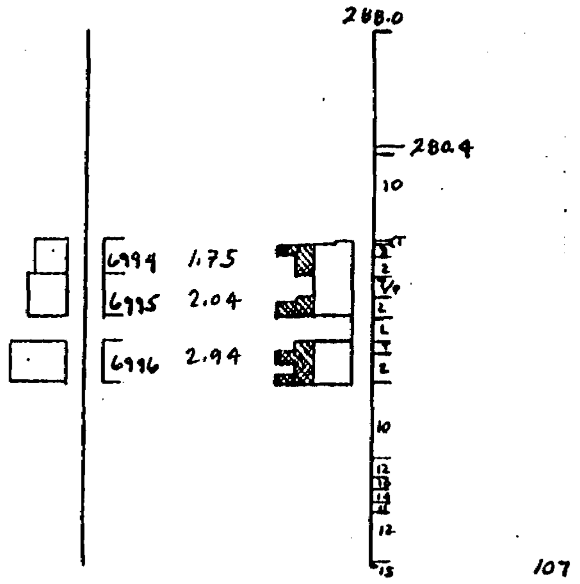


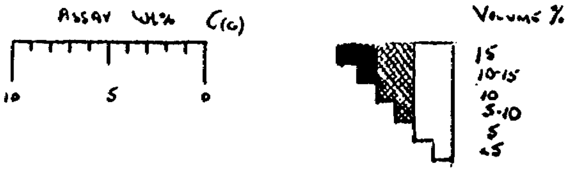
108



D.D.H 85-83
SCALE 1:480
NORTH WEST GEOLOGICAL
CONSULTING LTD.

D.D.H. 85-89
26100N / 1300E

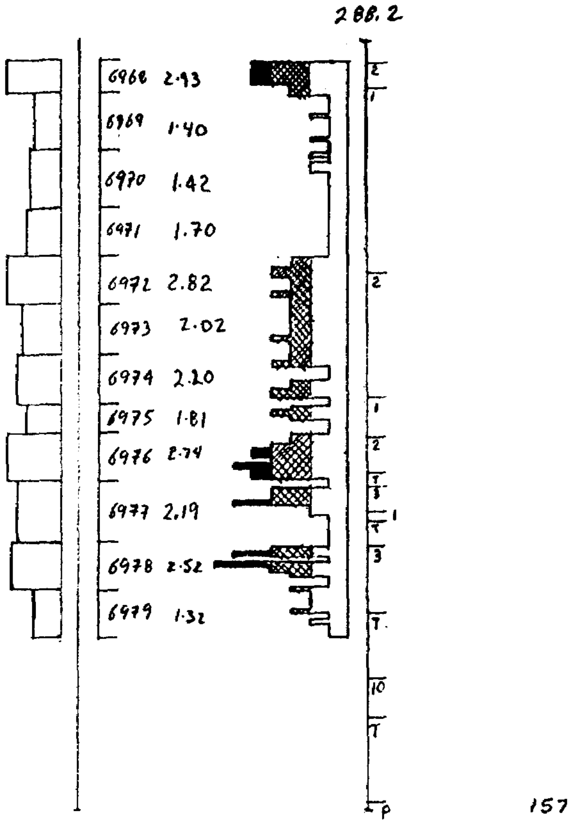




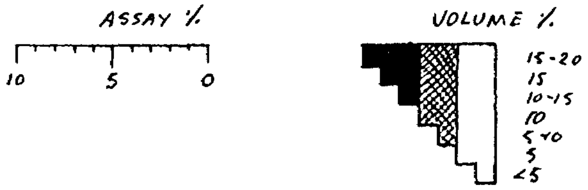
D.D.H. 85-89
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD

DDH-85-85

25+50N 19+00E

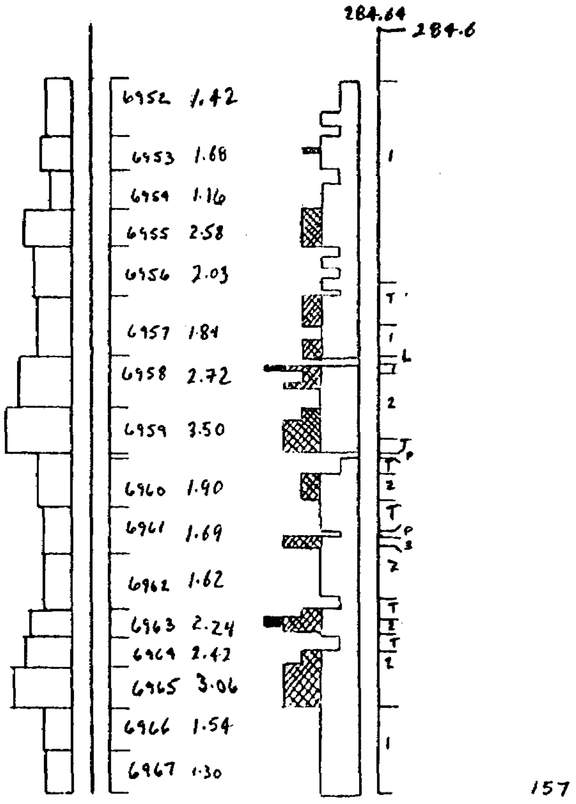


85

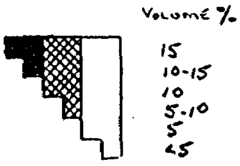


DDH-85-85
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD.

D.D.H. 85-86
25+50N - 18+50E

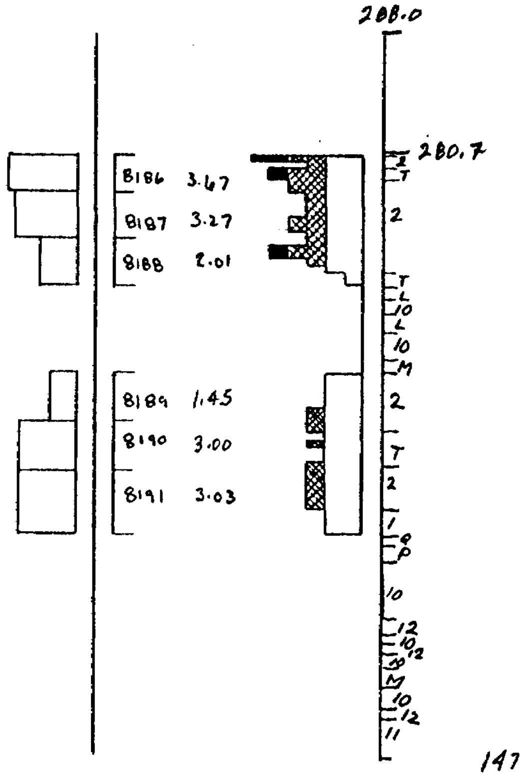


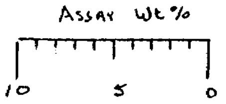
86

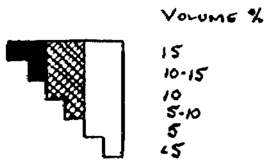


D.D.H. 85-86
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD

D·D·H. 85-87
25+50N / 13+50E
ELEVATION

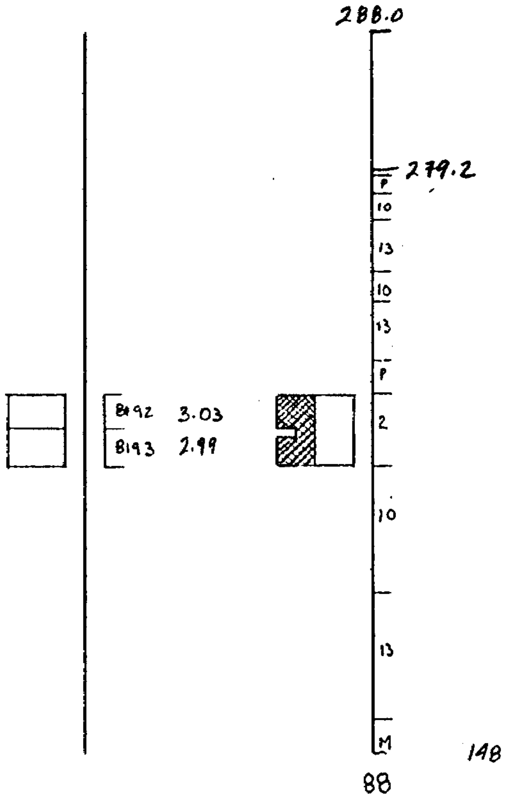


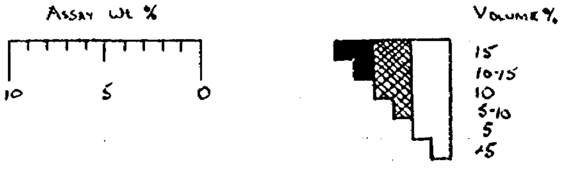




D·D·H 85-87
SCALE 1:480
NORTH WEST GEOLOGICAL
CONSULTING LTD

D.D.H. 85-88
25+50N / 12+50E
ELEVATION 944.88

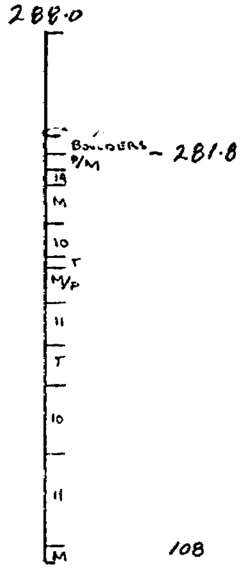


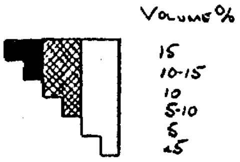


D.D.H. 85-88
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD

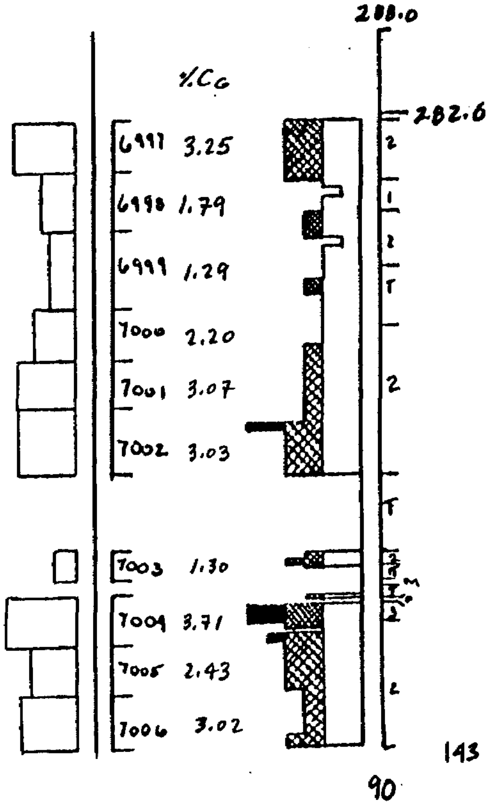
D.D.H. 85-89
25+50N / 12+50E
ELEVATION 999.88

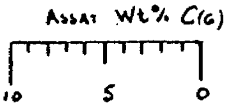


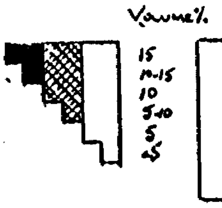


D.D.H. 85-89
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD

D.D.H. 85-90
26100N / 15150E
ELEVATION 944.88

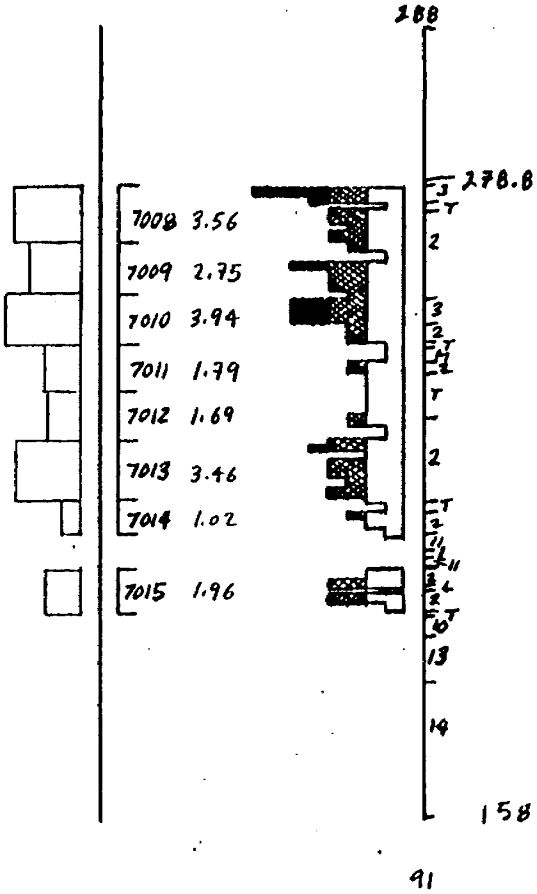






D.D.H. 85-90
SCALE 1:480

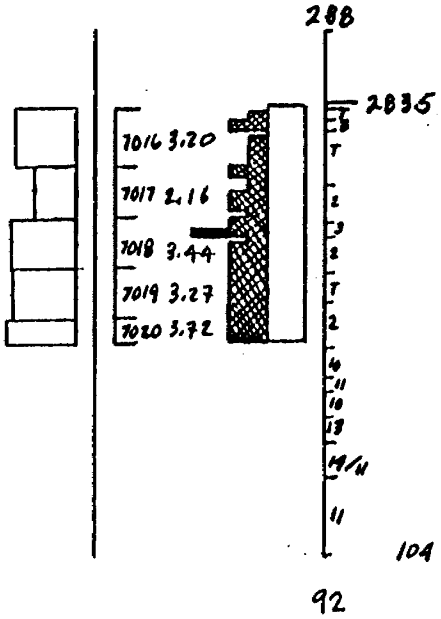
NORTHWEST GEOLOGICAL
CONSULTING LTD.



DDH 85-91

SECTION

NORTHWEST GEOLOGICAL
CONSULTING LTD.

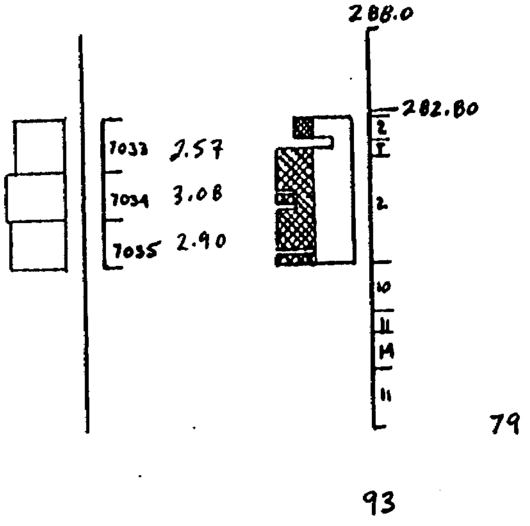


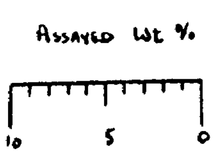
DDH 85-92

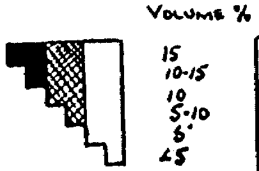
SECTION

1:480
NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.H. 85-93
27+50N / 14+25E
ELEVATION

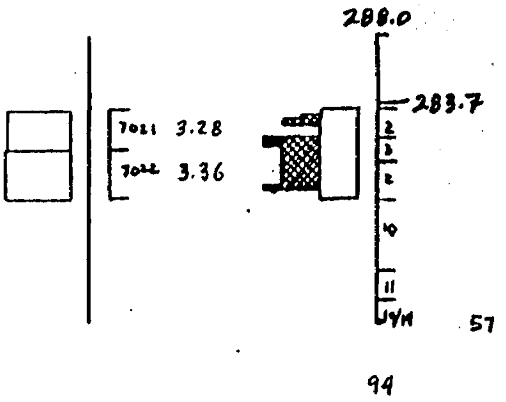


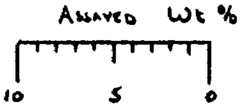


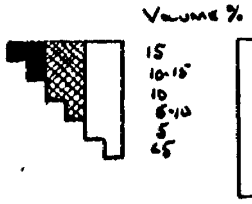


D.D.H. 85-93
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.H. 85-94
2715ON / 19100E
ELEVATION:

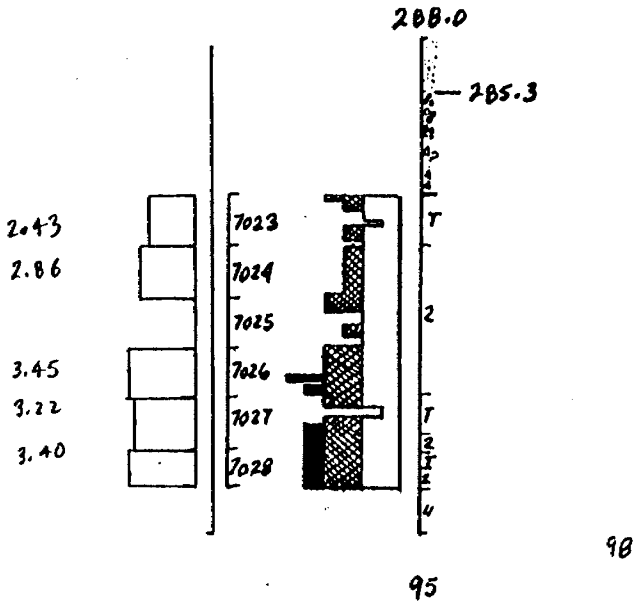






D.D.H. 85-94
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD

DDH-85-95



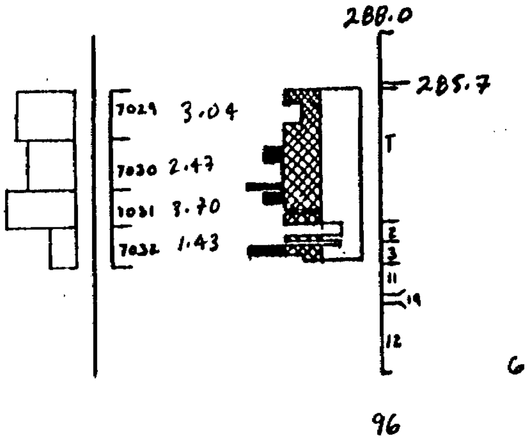
DDH 85-95

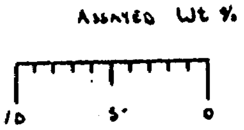
SECTION

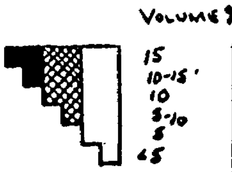
1:480 SCALE

NORTHWEST GEOLOGICAL CONSULTING LTD

D.D.H. 85-96
28100N / 13+50E
ELEVATION







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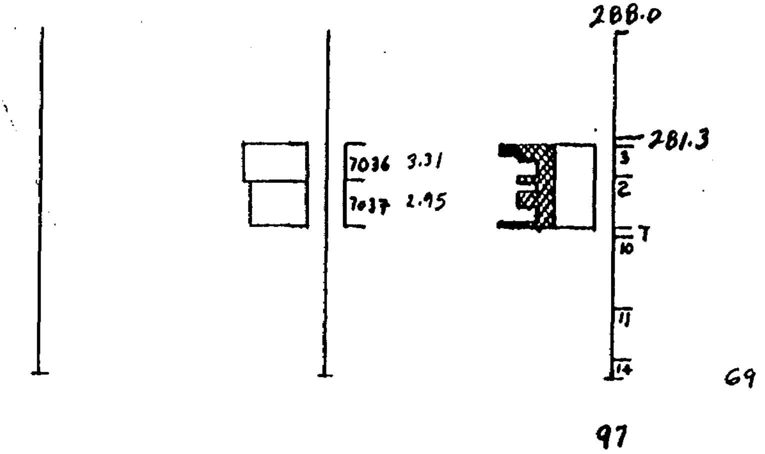
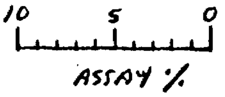
SCALE 1:480
NORTHWEST GEOLOGICAL CONSULTING LTD.

DDH 97

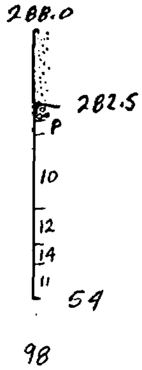
27+50N 13+50 E





DDH 85-97
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD



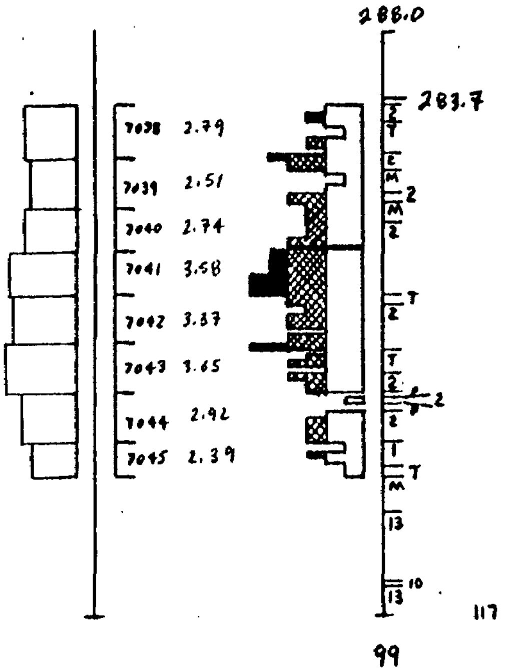
DDH 85-98

SECTION

NORTHWEST GEOLOGICAL CONSULTING LTD.

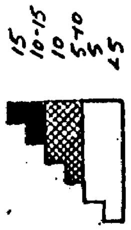
DDH 99

28+00N 1[illegible]+50 E



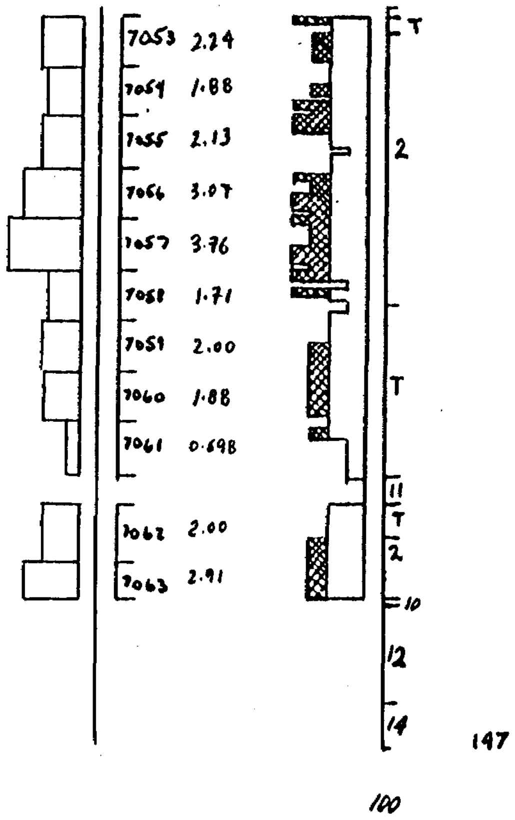
ASSAY %

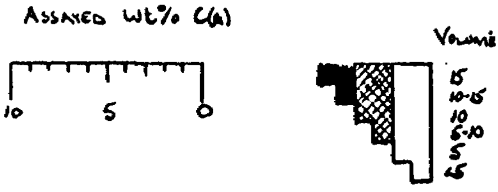
VOLUME %



DDH 85-99
SECTION
SCALE 1:480
NORTHWEST GEOLOGICAL
CONSULTING LTD

D.D.H. 85-100
L2600N /





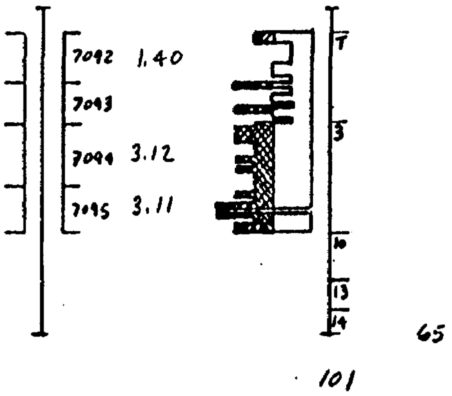
D.DH 85-100L

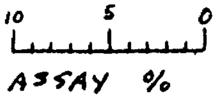
Scale 1:480

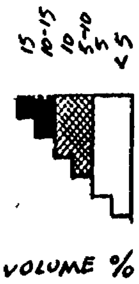
Northwest Geological Consulting Ltd.

DDH 85 101

28+50N 14+00E







DDH 85 - 101

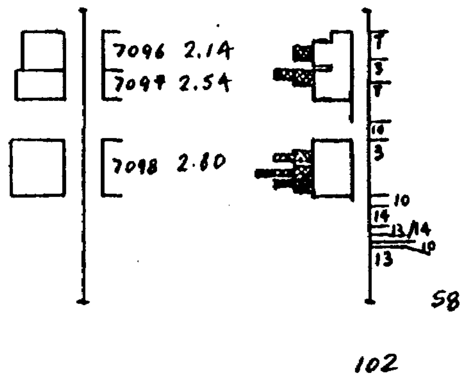
SECTION

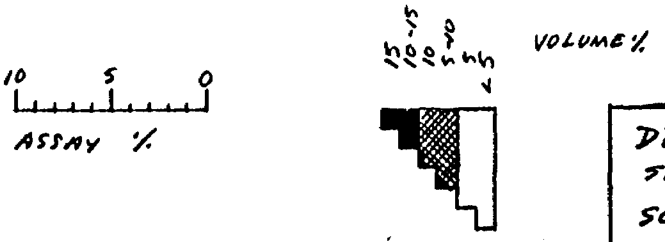
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85-102

29+00N 14+50E



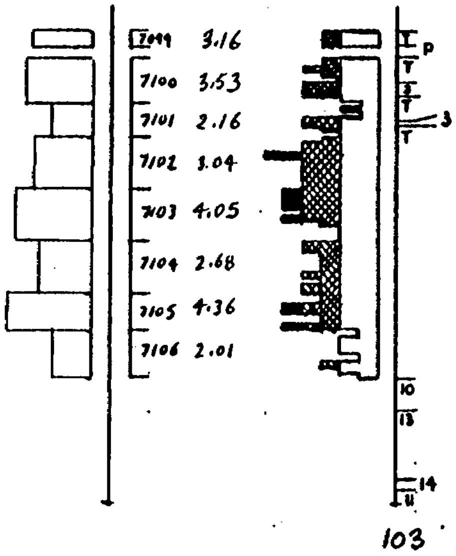


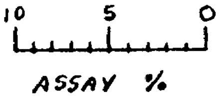
DDH 85 102
SECTION
SCALE 1:400

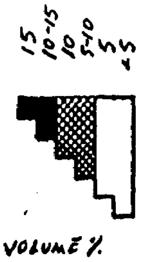
NORTHWEST GEOLOGICAL
CONSULTING LTD.

DDH 85 103

28+50N 14+50E





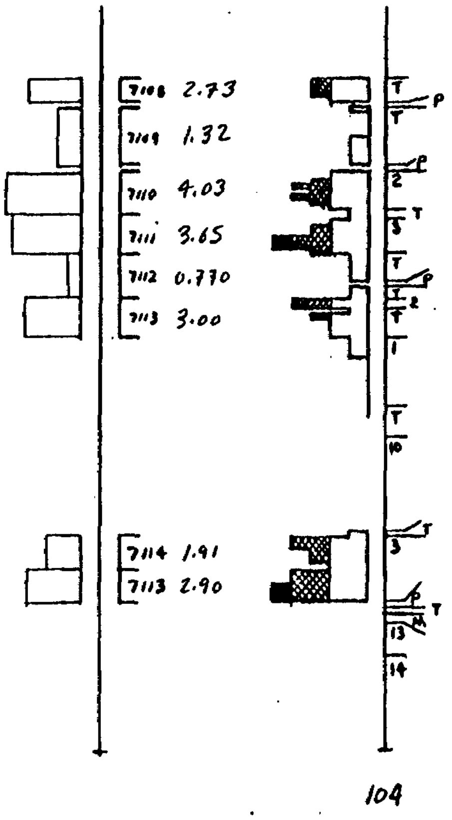


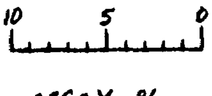
DDH-85-103
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL CONSULTING LTD.

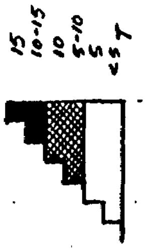
DDH 85-104

28+50N 15+00E





ASSAY %

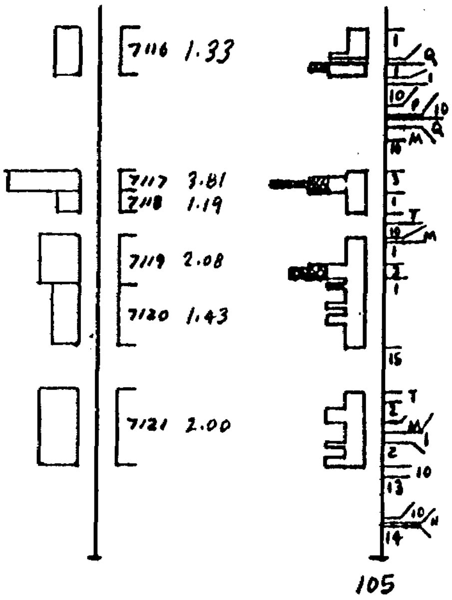


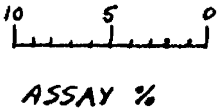
VOLUME %

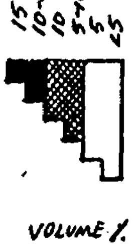
DDH 85-104
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD

DDH 85 105
29+00N 15+00E



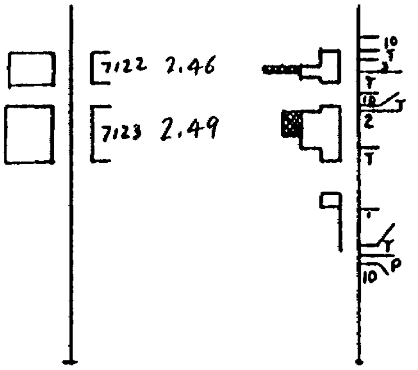




DDH 85-105
SECTION
SCALE 1:480

NORTHWEST CONSULTING
GEOLOGICAL LTD.

DDH 85-106
29+00N 15+52E



ASSAY %

VOLUME %

DDH 85-106
SECTION
SCALE 1:480

NORTHWEST GEOLOGICAL
CONSULTING LTD.

APPENDIX G

CORE SAMPLE RESULTS

To Accompany report by Uwe Schmidt, B.Sc., F.G.A.G. "Geology and 1985 Diamond Drilling, Bissett Creek Graphite Property", March 7, 1986.

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

PLE No.	DDH	SAMPLE INTERVAL (FT)	DATE SHIPPED	LAKEFIELD	PARTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)	% Total Carbon	Calc's % C(g)
6101	85-12	35-44					1.980	85.5	2.310		
6102		44-54					1.220	84.4	1.440		
6103		54-64					1.190	84.9	1.400		
6104	85-12	64-78					1.950	91.9	2.120		
6105	85-8	100-113					1.650	92.0	1.790		
6106	85-8	113-123					2.110	78.3	2.700		
6107	85-9	72-88					1.730	82.1	2.110		
6108		88-98					2.520	84.5	2.980		
6109	85-9	98-108					2.320	76.6	3.030		
6110	85-10	11-21					2.040	90.5	2.250		
6111	N/S										
6112	N/S										
6113	N/S										
6114	N/S										
6115	N/S										
6116	85-11	90-100					1220	90.1	1.350		
6117		100-110					0.970	89.1	1.090		
6118		110-120					1.190	88.6	1.340		
6119		120-130					1.210	90.1	1.340		
6120		130-140									
6121		140-150					0.950	86.6	1.100		
6122		150-160					1.090	86.1	1.260		
6123		160-170					0.810	87.5	0.990		
6124		170-180					0.990	86.1	1.150		
6125		180-190					1.410	88.8	1.590		
6126		190-200					1.620	77.3	2.100		
6127		200-210					1.260	63.9	1.970		
6128	85-11	210-220					1.530	84.7	1.810		
6129	85-13	48-58					2.350	66.46	2.08	2.220	
6130		58-67					0.880	86.9	1.010		
6131		70-80					2.860	62.0	1.87	2.140	
6132	85-13	80-94					2.330	87.0	2.680		
6133	85-14	75-87					3.840	67.11	3.63	3.490	
6134		87-101					1.020	89.2	1.140		
6135		101-118					3.830		3.06	3.310	
6136		118-128					1760	87.6	2.010		
6137		128-143					1.400		2.11	2.420	
6138		143-153					2.530	85.8	2.950		
6139		153-162					2.950		2.93	3.430	
6140	85-14	162-172					2.390	79.6	3.000		
6141	85-15	46-56					3.870		3.06	3520	
6142		56-71					1.100	88.6	1.240		
6143		71-84					1.950		2.34	2.010	
6144		84-94					1.550	90.8	1.710		
6145		94-104					2.980		?		
6146		104-114					1.850	91.1	2.030		
6147	85-15	114-126					4.430		3.455	4.350	

BISSETT CK. PROJECT SAMPLE SHIPMENT

PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	RESULTS % GRAPHITE	% LOI	% C(G)	%Total Carbon	Checks %C(G)
6148	85-15	126-137					2.490	86.6	2.880		
6149	85-15	137-148					3.580		3.54	3.410	
6150	85-16	71-81					1.800	92.2	1.960		
6151		81-91					3.310				
6152		91-101					1.270	86.0	1.480		
6153		101-111					8.590		3.96	5.32	
6154	85-16	111-121					1.760	87.0	2.020		
6155	85-17	27-36					3.410		3.06	3.07	
6156		37-49					1.010	89.8	1.030 1.13		
6157		49-63					1.290		2.24 2.27		
6158		65-75					0.680	86.6	0.780		
6159		75-85					3.860		2.52		
6160		86-99					2.050	69.2	2.97		
6161		99-109					5.100		3.19		
6162		115-125					0.990	91.2	1.080		
6163		125-135					2.700		2.12		
6164	85-17	135-146					1.330	85.3	1.560		
6165	85-4	138-148					3.240		1.93		
6166		148-158					2.190	81.3	2.690		
6167		158-169					2.340		2.43 2.41		
6168		169-182					1.280	85.4	1.500		
6169		182-193					0.900		1.14		
6170	85-4	193-204					1.270	83.90	1.510		
6171	85-18	12-23					2.110		1.89		
6172		23-33					1.490	85.9	1.730		
6173		33-43					4.100		4.05		
6174		43-53					1.990	82.6	2.41		
6175		53-63					1.230		1.85		
6176		63-73					1.400		1.34		
6177		73-82					0.660	71.0	0.93		
6178		82-91					1.100		1.12		
6179		91-103					8.000				
6180		106-120					2.210	87.7	2.520		
6181		120-130					4.800		2.88		
6182		130-143					1.360	74.9	1.810		
6183		143-158					2.300		2.15		
6184		158-168							2.93		
6185		168-180					2.200		2.39		
6186		180-191							1.67		
6187		191-201					2.430				
6188	85-18	201-211					1.510				
6189	85-19	36-46					1.500		1.67		
6190		47-60					0.730	83.0	0.880		
6191		60-70					1.790				
6192		70-80					1.610	94.60	1.700		
6193		80-91					3.300				
6194	85-19	91-101					1.480	82.7	1.790		

BISSETT CK. PROJECT SAMPLE SHIPMENT

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFLD	PORTO	DATE RECEIVED	RESULTS				
							% GRAPHITE	% LOI	% C(G)	% TOTAL CARBON	CHECKS % C(G)
6195	85-19	101-111					4.650				
6196	85-19	111-123					2.31	85.5	2.700		
6197	85-20	5-20					1.960				
6198		20-40					1.220	92.6	1.310		
6199		40-56					1.400				
6200		56-71					0.600	83.7	0.710		
6201		71-80					2.950				
6202		80-90					1.290	92.7	1.390		
6203		90-104					1.300				
6204		104-114					1.700	86.2	1.970		
6205	85-20	114-125					1.680				
6206	85-23	4-19					0.990	80.0	1.230		
6207		19-33					1.360				
6208		43-56					0.60	86.1	0.690		
6209		56-68					2.880				
6210		68-78					2.380	92.6	2.570		
6211		78-88					3.940				
6212	85-23	88-101					0.640	78.1	0.810		
6213	85-24	3-17					1.22		1.47		
6214		17-31					0.740	81.3	0.910		
6215		31-43					1.45		1.42		
6216		57-73					1.130	66.6	1.700		
6217		73-89					3.31		3.32		
6218	85-24	89-104					0.660	73.2	0.900		
6219	85-21	3-16					1.69		1.93		
6220		16-26					0.810	89.0	0.910		
6221		26-36					1.27		1.98		
6222		36-48					0.980	82.0	1.190		
6223		52-65					1.14		1.37		
6224		65-86					0.560	83.2	0.670		
6225		86-99					0.70		1.05		
6226		99-113					1.790	87.1	2.050		
6227		113-124					4.25		3.21		
6228	85-21	124-135					2.47	83.4	2.960		
6229		135-146					4.73		3.71		
6230		146-158					0.34	82.9	0.410		
6231		158-169					3.09		2.36		
6232	85-21	169-179					1.68	86.0	1.950		
6233	85-27	7-19					0.73		1.69		
6234		19-29					0.35	85.1	0.410		
6235		29-39					1.36		2.07		
6236		39-51					0.80	74.9	1.060		
6237		51-60					3.47		2.34		
6238		60-70					2.00	73.9	2.710		
6239		70-80					7.06		4.52		
6240		80-90					3.17	83.6	3.790		
6241	85-27	90-100					3.87		3.20		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).	% TOTAL CARBON	Check %C(G)
6242	85-27	100-110					0.63	85.3	0.740		
6243		110-120					3.50		2.60		
6244	85-27	120-133					1.66	89.4	1.850		
6245	85-25	5-16					2.74		1.910	2.60	
6246		16-26					0.68		0.900	1.39	0.880
6247		30-40					1.84		1.320	1.57	
6248		40-50					1.84		2.21	2.45	2.160
6249		50-60					1.68		1.67 1.680	1.83	
6250		60-70					1.47		1.790	2.39	1.780
6251		70-80					1.93		1.640	2.11	
6252		80-90					1.65		2.000	2.71	2.080
6253		101-105 119-125					3.73		1.750	2.24	
6254		125-135					0.17		0.320	0.314	0.218
6255		135-144					0.46		0.273	0.370	
6256		144-154					2.48		2.940	3.20	3.140
6257		154-164					4.76		2.920	3.45	
6258		164-174					2.80		3.300	3.39	3.220
6259	85-25	174-183					475		1.57	2.18	
6260	85-26	5-15					1.22		1.510	2.01	1.560
6261		15-30					2.10		2.000	2.19	
6262		30-45					0.77		1.000	1.40	1.510
6263		45-58					2.06		1.260	1.56	
6264		60-70					1.63		1.970	2.43	2.140
6265		70-80					core lost		2.140	2.33	
6266		80-90					1.61		1.950	2.28	1.940
6267		90-101					1.73		1.680	2.15	
6268		108-120					1.730		2.090	3.17	2.100
6269		120-130					0.74		0.664	1.38	
6270		130-140					0.23		0.390	0.634	0.417
6271		140-153					0.50		0.364	0.644	
6272		153-163					2.68		3.170	3.57	3.200
6273		163-173					6.01		3.750	4.00	
6274		173-183					2.06		2.460	2.50	2.460
6275		183-192					4.41		3.250	3.32	
6276		192-202					1.19		1.480	1.65	1.550
6277		202-212					4.01		3.430	3.95	
6278		212-222					2.53		3.000	3.28	3.120
6279		222-232					4.89		2.860	3.31	
6280	85-26	232-241					2.33		2.770	2.97	2.750
6281	85-28	19-30					1.78		1.490	1.68	
6282		30-40					0.70		0.920	1.15	0.790
6283		40-50					3.02		1.900	2.27	
6284		50-60					0.45		0.630	0.972	0.708
6285		60-70					3.05		3.160	3.67	
6286		70-80					2.55		3.020	3.37	2.930
6287		80-90					6.09		3.460	3.75	
6288	85-28	90-105					1.55		1.880	2.15	1.800

BISSETT CK. PROJECT SAMPLE SHIPMENT

							RESULTS				
SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).	% Total Carbon	CHECK Chem's %Cg
6289	85-28	118-128					1.99		1.310	1.54	
6290	85-28	128-138					2.65		3.140	3.28	3.110
6291	85-20	170-180					5.37		3.830	4.09	
6292	|	180-190					2.63		3.110	3.42	3.230
6293	|	190-200					3.11		2.700	3.10	
6294	|	200-210				85-12-16	2.82		3.330		3.20
6295	|	210-220					4.58		2.460	3.02	
6296	|	220-230					3.00		~~2.530~~ 3.00		3.15
6297	|	230-240					5.65		3.230	3.52	
6298	85-20	240-250					2.20		2.620		2.81
6299	85-29	2-12					2.18		1.230	1.85	
6300	|	12-25					1.47		1.790		2.23

BISSETT CK. PROJECT SAMPLE SHIPMENT

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	RESULTS				
							% GRAPHITE	% LOI	% C(G)		
6901	85-53	34-42								2.60	
6902	|	42-52							2.85		2.85
6903	|	52-59								3.65	
6904	85-53	59-69							3.17		3.17
6905	85-59	29-38								3.87	
6906	85-59	38-46.5							2.86		
6907	85-63	28-30									
6908	85-78	77-87							2.88		
6909	85-78	87-97							3.67		
6910	85-78	97-107							3.20		
6911	85-78	107-117							3.50		
6912	85-78	117-127							1.53		
6913	85-78	127-137							1.52		
6914	85-78	137-147							3.04		
6915	85-78	147-157							1.81		
6916											
6917											
6918	85-79	5.5-11							1.40		
6919	85-79	11-20							3.42		
6920	85-79	20-32							1.53		
6921	85-79	32-41							1.61		
6922	85-79	41-54							1.32		
6923	85-79	54-63							2.03		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

MPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).	% Total Carbon	Residue % C(G)
6924	85-79	63-73							3.33		
6925	85-79	73-82							2.21		
6926	85-79	82-91							2.60		
6927	85-79	91-101							3.45		
6928	85-79	101-107							0.741		
6929	85-79	107-116							2.67		
6930	85-79	116-125.5							1.13		
6931	85-79	125.5-136							0.908		
6932	85-79	136-146							3.52		
6933	85-79	146-157							1.10		
6934	85-80	6-15.5							1.24		
6935	85-80	15.5-22.5							3.35		
6936	85-80	22.5-32							1.20		
6937	85-80	32-42							1.41		
6938	85-80	42-52							1.42		
6939	85-80	52-58							2.38		
6940	85-80	58-66							2.39		
6941	85-80	66-73.5							1.79		
6942	85-80	73.5-82							2.38		
6943	85-80	82-88							1.78		
6944	85-80	88-94							2.96		
6945	85-80	94-102							3.01		
6946	85-80	102-114							0.937		
6947	85-80	114-120							2.24		
6948	85-80	120-126.5							2.03		
6949	85-80	130-135							0.464		
6950	85-80	135-142.5							3.70		
6951	85-80	142.5-157							1.63		
6952	85-86	11.5-22.5							1.42		
6953	85-86	22.5-29							1.68		
6954	85-86	29-37							1.16		
6955	85-86	37-45							2.58		
6956	85-86	45-55							2.03		
6957	85-86	55-67							1.84		
6958	85-86	67-78							2.72		
6959	85-86	78-87							3.50		
6960	85-86	88.5-98							1.94		
6961	85-86	98-108							1.69		
6962	85-86	108-119							1.62		
6963	85-86	119-125							2.24		
6964	85-86	125-131							2.42		
6965	85-86	131-139							3.06		
6966	85-86	139-148							1.54		
6967	85-86	148-157							1.30		
6968	85-85	4.5-11							2.93		
6969	85-85	11-23							1.40		
6970	85-85	23-34							1.42		

BISSETT CK. PROJECT SAMPLE SHIPMENT

S[illegible]PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	BARTO	DATE RECEIVED	% GRAPHITE	% LOI	RESULTS % C(G).	% Total carbon	Checks % C(G)
6971	85-85	34-44							1.70		
6972	85-85	44-54							2.82		
6973	85-85	54-64							2.02		
6974	85-85	64-74							2.20		
6975	85-85	74-80							1.81		
6976	85-85	80-90							2.74		
6977	85-85	90-102							2.19		
6978	85-85	102-112							2.52		
6979	85-85	112-122							1.32		
6980	85-82	07-18							0.954		
6981	85-82	18-28							2.150		
6982	85-82	28-38							1.66		
6983	85-82	38-47.5							0.506		
6984	85-82	52.5-62							0.819		
6985	85-82	63.5-73							2.52		
6986	85-82	73-83							2.87		
6987	85-82	83-93							2.84		
6988	85-82	93-105							1.62		
6989	85 82	122-126							2.32		
6990	85-82	137-147							2.10		
6991	85-82	147-156							1.68		
6992	85-82	157-163							1.85		
6993	85-82	192-202							1.38		
6994	85-84	42-49							1.75		
6995	85-84	49-57							2.04		
6996	85-84	62-70							2.94		
6997	85-90	18-28							3.25		
6998	85-90	28-40							1.79		
6999	85-90	40-55							1.29		
7000	85-90	55-65							2.22		
7001	85-90	65-75							3.07		
7002	85-90	75-88							3.03		
7003	85-90	103-109							1.30		
7004	85-90	112-122							3.71		
7005	85-90	122-132							2.43		
7006	85-90	132-143.5							3.02		
~~7007~~	No ticket 7007								—		
7008	85-91	32'-43							3.56		
7009	85-91	43-53							2.75		
7010	85-91	53-63							3.94		
7011	85-91	63-72							1.79		
7012	85-91	72-82							1.69		
7013	85-91	82-94							3.46		
7014	85-91	✓ 94-101							1.02		
7015	85-91	108? ~~[illegible]~~ - 117							1.96		
7016	85-92	16'-27							3.20		
7017	85-92	27-37							2.16		

BISSETT CK. PROJECT SAMPLE SHIPMENT

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFLD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)		
							RESULTS				
7018	85-92	37'-47'							3.44		
7019	85-92	47-57							3.27		
7020	85-92	57-62							3.72		
7021	85-94	14.5-23							3.28		
7022	85-94	23-33							3.36		
7023	85-95	31-41							2.43		
7024	85-95	41-51							2.86		
7025	85-95	51-61							3.28		
7026	85-95	61-71							3.45		
7027	85-95	71-81							3.22		
7028	85-95	81-88.5							3.40		
7029	85-96	11-21							3.04		
7030	85-96	21-31							2.47		
7031	85-96	31-38							3.70		
7032	85-96	38-46.5							1.43		
7033	85-93	17-27							2.57		
7034	85-93	27-37							3.08		
7035	85-93	37-46							2.90		
7036	85-97	23'-30							3.31		
7037	85-97	30-39							2.95		
7038	85-99	14.5-25							2.79		
7039	85-99	25-35							2.51		
7040	85-99	35-43							2.74		
7041	85-99	43-52							3.58		
7042	85-99	52-62							3.37		
7043	85-99	62-72							3.65		
7044	85-99	72-82							2.92		
7045	85-99	82-87							2.39		
7046	85-57	6-20							1.30		
7047	85-57	20-31							1.44		
7048	85-57	31-41							1.83		
7049	85-57	41-51							2.70		
7050	85-57	51-61							2.34		
7051	85-57	61-69							3.44		
7052	85-57	112-125.5							1.69		
7053	85-100	2'-12'							2.24		
7054	85-100	12'-22'							1.88		
7055	85-100	22'-32'							2.13		
7056	85-100	32'-42'							3.07		
7057	85-100	42'-52'							3.76		
7058	85-100	52'-62'							1.71		
7059	85-100	62'-72							2.00		
7060	85-100	72-82							1.88		
7061	85-100	82-93							0.698		
7062	85-100	98.5-110							2.00		
7063	85-100	110-117							2.91		
7064	85-54	12-22							2.47		

BISSETT CK. PROJECT SAMPLE SHIPMENT

PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFD	PORTO	DATE RECEIVED	RESULTS % GRAPHITE	% LOI	% C(G).		
7065	85-54	22'-32'							1.61		
7066	85-54	32-42							2.30		
7067	85-54	42-52							2.78		
7068	85-54	52-62							3.19		
7069	85-54	62-75							2.45		
7070	85-51	20.5-31							1.23		
7071	85-51	31-41							3.25		
7072	85-51	41-51							2.83		
7073	85-51	51-61							2.94	2.75	
7074	85-51	61-71							2.63		
7075	85-51	71-80							2.96		
7076	85-51	80-87							2.35		
7077	85-52	10-20							1.09		
7078	85-52	20-30.5							1.45		
7079	85-52	34.5-45							2.42		
7080	85-52	45-55							3.19		
7081	85-52	55-65							2.70		
7082	85-52	65-72							1.67		
7083	85-52	78-84							1.59		
7084	85-52	90-106							2.07		
7085	85-58	16.5-25							2.19		
7086	85-58	25-35							2.78		
7087	85-58	35-45							2.86		
7088	85-58	45-51							3.26		
7089	85-58	59-69							1.20		
7090	85-58	82.5-93							1.88		
7091	85-58	93-108							1.62		
7092	85-101	5-15							1.40		
7093	85101	15-23									
7094	85101	23-35							3.12		
7095	85-101	35-45							3.11		
7096	85-102	4-12							2.14		
7097	85-102	12-18							2.54		
7098	85-102	26-37.5							2.80		
7099	85-103	5-8							3.16		
7100	85-103	10.5-19							3.53		
7101	85-103	19-26							2.16		
7102	85-103	26-36							3.04		
7103	85-103	36-46							4.05		
7104	85-103	46-56							2.68		
7105	85-103	56-63							4.36		
7106	85-103	63-73							2.01		
7107	85-82	84-87							4.95		
7108	85-104	14.5-19							2.73		
7109	85-104	20-31.5							1.32		
7110	85-104	32.5-41							4.03		
7111	85-104	41-49							3.65		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)		
7112	85-104	49-58							0.770		
7113	85-104	58-66							3.00		
7114	85-104	105.5-112							1.91		
7115	85-104	112-118.5							2.90		
7116	85-105	4-13							1.33		
7117	85-105	32-36							3.81		
7118	85-105	36-40							1.19		
7119	85-105	45-55							2.08		
7120	85-105	55-67							1.43		
7121	85-105	76-91							2.00		
7122	85-106	9-15							2.46		
7123	85-106	20-30							2.49		
7124	85-75	20-27							2.18		
7125	85-75	27-33							3.18		
7126	85-74	12-21							1.80		
7127	"	21-31							1.14		
7128	"	47-54							2.54		
7129	85-74	66-81							2.13		
7130	85-76	9-20							2.33	2,014	
7131	85-78	7-17							2.13		
7132	"	17-27							2.75		
7133	"	27-37							1.73		
7134	"	37-47							1.28		
7135	"	47-57							2.02		
7136	"	57-67							3.02		
7137	"	67-77							~~2.48~~		
7138	"	77-87							2.48		
7139	"	87-97							2.50		
7140	"	97-107							3.35		
7141	"	107-117							3.75		
7142	"	117-127							1.50		
7143	"	127-137							1.26		
7144	"	137-147							3.19		
7145	"	147-157							2.05		
7146	85-79	5.5-10							1.38		
7147	"	10-20							3.50		
7148	"	20-32							1.64		
7149	"	32-41							1.53		
7150	"	41-54							1.38		
7151	"	54-63							2.80		
7152	"	63-73							2.58		
7153	"	73-82							1.96		
7154	"	82-91							3.11		
7155	"	91-101							3.77		
7156	"	101-107							0.640		
7157	"	107-116							2.72		
7158	"	116-125.5							1.55		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

[illegible]PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFAB	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).		
7159	85-79	125.5-136							1.00		
7160	"	136-146							3.47		
7161	"	146-157							1.44		
7162	85-80	6-15.5							1.57		
7163	"	15.5-22.5							3.64		
7164	"	22.5-32							1.42		
7165	"	32-42							1.87		
7166	"	42-52							1.45		
7167	"	52-58							2.47		
7168	"	58-66							3.00		
7169	"	66-73.5							3.00		
7170	"	73.5-82							2.03		
7171	"	82-88							2.50		
7172	"	88-94							0.457		
7173	"	94-102							2.59		
7174	"	102-114							1.18		
7175	"	114-120							2.35		
7176	"	120-126.5							2.15		
7177	"	126.5-135							3.00		
7178	"	135-142							3.36		
7179	85 80	142-157							1.57	1.57	
7180	DDH 85-76	20-31.5							2.03	0.910	
7181	"	89.5-99							1.62		
7182	85-76	106.5-110							3.28		
7183	85-55	23-38									
7184	"	38-49							2.226		
7185	"	49-59									
7186	"	59-69									
7187	No	Tickets									
7188											
7189	85-55	69-80									
7190	"	80-91							3.166		
7191	"	122-136									
7192	85-56	16-31							1.063		
7193		31-41							2.175		
7194		41-54							1.532		
7195		54-64							2.782		
7196		64-74									
7197	85-56	74-86							2.694		
7198	85-60	29-39							3.382		
7199	"	39-47							1.455		
7200	"	47-57							1.965		
7201	"	57 67							1.62	1.498	
7202	85-60	67-77.5							1.30	1.907	
7203	85-62	15.5-26							1.89	2.263	
7204	85-62	26-40.5							0.522	1.644	
7205	85-62	40.5-52							0.369	1.430	

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

MPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFLD	PETRO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)		
7206	85-62	89.5 100							1.19	1.415	
7207	85-62	100 - 114							0.771	0.3826	
7208	85-62	114 - 123							1.10	1.494	
7209	85-62	123 - 134							0.423	1.294	
7210	85-64	15 - 24							1.09	0.3823	1.040
7211	"	39 - 49							0.875	2.604	
7212	"	49 - 60							1.31	1.471	
7213	"	76.5 - 90.5							1.33	1.765	
7214	"	96.5 108							1.08		
7215	85-64	108 - 121							1.54	1.400	
7216	85-65	17-32							2.43	0.1705	
7217	85-65	32-42							1.40	1.594	
7218	85-65	42-56							0.352	1.187	
7219	85-65	56-69							0.614	1.770	
7220	85-67	17 - 26.5							2.11	0.2869	
7221	"	51 - 59							1.75	3.20	
7222	"	65 - 74							0.591	2.217	
7223	85-67	74 - 86							1.266		
7224	85-35	115-127							0.3970		
7225	85-35	127-139							0.631		
7226	"	139-152							0.913		
7227	85-36	194-205							2.009		
7228	"	205-220							1.268		
7229	"	220-235							1.632		
7230	85-39	145.5-152									
7231	"	193-206							0.830		
7232	85-40	129-139.5							1.938		
7233	"	157.5-168									
7234	"	222-235							0.878		
7235	85-41	177-184							1.490		
7236	"	184-194									
7237	85-45	52-63									
7238	"	92.5-101									
7239	"	115-129							1.328		
7240	"	162-166+169.5-171							0.3426		
7241	85-46	140 - 148							2.318		
7242	85-48	110 - 123							1.716		
7243	85-49	90 - 95							0.703		
7244	"	115 - 119							1.282		
7245	"	143 - 148							1.618		
7246	85-51	118 - 126							0.7393		
7247	"	131 - 138							0.637		
7248	"	138 - 147							1.697		
7249	85-52	120 - 127.5									
7250	"	127.5 143									
7251	85-54	93 - 101							1.296		
7252	"	129.5-142.5							1.112		

BISSETT CK. PROJECT SAMPLE SHIPMENT

								RESULTS			
MPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEHEAD	PORTO	DATE RECEIVED	% GRAPHITE	% COT	% C(G).		
7253	85-58	130.5 - 144.5							1.999		
7254	85-60	110 - 114.5									
7255	85-60	120.5 - 127.5							1.553		
7256	"	138 - 144									
7257	85-65	90 - 105									
7258	"	105 - 120							0.8515		
7259	"	120 - 134							0.556		
7260	85-67	114.5 - 120.5							1.394		
7261	"	133 - 140							1.060		
7262	85-74	81 - 86.5									
7263	"	110 - 114							1.147		
7264	"	132 - 141.5							1.467		
7265	"	201.5 - 207							0.371		
7266	85-76	155 - 160.5									
7267	"	220 - 225							1.639		
7268	85-82	115 - 122							0.780		
7269	"	347 - 357									
7270	85-40	110 - 115							0.318		
7271	85-18	5-12							1.585		
7272	85-19	125.5-130							2.979		
7273	85-19	135-140							2.532		
7274	85-19	150-165							0.7112		
7275	85-19	165-175.5							1.973		
7276	85-19	183-198							3.384		
7277	85-19	198-209							2.983		
7278	85-19	209-219							2.109		
7279	85-19	219-229							3.463		
7280	85-19	229-247									
7281	84-4	25-29									
7282	84-4	39-43									
7283	84-4	62-73									
7284	85-4	204-214									
7285	85-5	171-185							1.501		
7286	85-5	222-236							1.837		
7287	85-7	158-162							1.139		
7288	85-7	170-178							1.762		
7289	"	178-188							1.717		
7290	"	215.5-230.5							1.713		
7291	"	239-244							1.850		
7292	"	285-295									
7293	"	295-307							1.574	1.822	
7294	85-8	6-16									
7295	85-8	16-26							1.060		
7296	85-8	33-48							1.20		
7297	85-8	48-63							1.396		
7298	85-8	68.5-78							1.331		
7299	85-9	11.5-25.5							1.331		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIE	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)
7300	85-9	27-41							1.296
7301	"	41-66							1.345
7302	"	67.5-72							1.750
7303	85-10	22-36							1.303
7304	85-10	36-41							
7305	"	48-61 "							1.520
7306	"	63.5-72							0.782
7307	"	72-82							
7308	"	82-94							
7309	"	102-113							1.144
7310	85-11	8-20							1.841
7311	"	20-30							1.076
7312	"	30-40							1.438
7313	85-12	5-15							1.110
7314	"	15-25							1.071
7315	"	25-35							1.263
7316	85-13	14-25							1.452
7317	"	26-38							0.996
7318		38-48							1.050
7319		3-14							1.469
7320	85-14	13-25							1.785
7321	85-14	25-35							1.167
7322	"	35-45							1.575
7323	"	45-55							1.099
7324	"	55-65							1.271
7325	"	65-75							1.901
7326	85-15	3-16							1.074
7327	"	16-31							1.456
7328	"	31-46							1.188
7329	85-16	3-18							1.141
7330	"	18-33							1.175
7331	"	33-47							0.983
7332	"	47-60							1.377
7333	"	60-71							1.574
7334	85-17	3-15							0.923
7335	85-17	15-27							1.025
7336	85-20	125-135							1.45
7337	"	135-145							0.1865
7338	"	145-153							2.556
7339	8522	5-18							1.151
7340	"	18-31							1.327
7341	"	38-48							1.338
7342	"	63-78							1.497
7343	"	78-87							2.406
7344	"	87-100							1.756
7345	"	100-114							1.226
7346	"	114-126.5							1.436

BISSETT CK. PROJECT SAMPLE SHIPMENT

							RESULTS				
PLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PARTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)		
7347	85-22	128-140									
7348	"	140-152							1,27		
7349	85-29	93-100							2.413		
7350	85-34	214-230							1,302		
7351	"	237-245							1,633		
7352	"	245-255							1.045		
7353	"	266.5-281.5							1.747		
7354	85-82	105-114.2							0.5433		
7355	"	125.8-137							0.372		
7356	85-106	30-50							1,240		
7357	85-57	69-85							0.3657		
7358	85-54	75-84							0.494		
7359	85-102	18-26							0.327		
7360	85-104	66-86							1.077		
7361	85-45	129-130.5							0.308		
7362	85-69	35-53.75							0.484		
7363	85-18	3-5							1.397		
7364	85-90	88.25-102.5							0.1320		
7365	85-35	152-160							0.316		
7366	85-19	176-183							0.1469		
7367	85-29	65-71							0.1956		
7368	"	79-83							0.267		
7369	85-20	154-170							0.111		
7370	85-85	122-144							0.1283		
7371	"	144-157'							0.1683		

BISSETT CK. PROJECT SAMPLE SHIPMENT

							RESULTS				
SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).	Total Carbon	% C(G) check
7501		25-35					2.49		1.930	1.98	
7502		35-45					0.96		~~0.960~~ 1.21	1.60	1.450
7503		45-55					2.84		3.220	3.70	
7504		55-65					1.42		1.74	2.13	2.040
7505		100-112					3.27		2.340	2.58	
7506		112-124				85 12 16	1.77		2.14		2.28
7507		124-135					3.74		2.770	3.29	
7508		135-145					2.61		3090	3.27	3120
7509	85-29	145-156					6.29		4.410	4.56	
7510	85-30	2-12					0.82		1.060	1.64	1.320
7511		12-22					1.59		2.280	2.43	
7512		22-32					0.98		1.240		
7513		32-42					1.32		1.200	1.56	
7514		42-52					1.18		1.460		
7515		52-62					1.51		1.520	1.82	
7516		62-72					0.99		1.250		
7517		72-82					1.74		1.480	1.81	
7518		82-92					0.94		~~0.720~~ 0.94		
7519		92-102					2.13		1.710	2.00	
7520		102-112				85 12 16	1.83		2.200	2.47	2.400
7521		143-153							3.260	3.62	
7522		153-163				85 12 16	2.07		2.470	2.66	2.650
7523		163-173					5.44		3.450	3.67	
7524		173-183				85 12 16	2.55		3.020	3.31	3.120
7525		183-193					4.62		4.360	4.72	
7526	85-30	193-203				85 12 16	3.04		3.580		3.35
7527	85-31	7-20					1.93		1.840	1.91	
7528		20-32				85 12 16	1.39		1.700		1.79
7529		36-50					206		1.850	2.36	
7530		50-62				85 12 16	1.11		1.380		1.38
7531		65-80					1.35		0.893	1.14	
7532		80-97					1.19		1.480		
7533		119-130					3.17		2.600	3.05	
7534		130-140				85-12-16	2.620		3.100		3.12
7535	85-31	140-150					4.05		2.900	3.00	

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

[illegible]MPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).	% Total Carbon	Carbon %C(t)
7536	85-31	150-161					1.53		1.860		
7537	85-31	188-200					2.36		2.460	2.88	
7538	85-32	3-15					1.48		1.800		2.15
7539		15-30					1.02		0.938	1.11	
7540		30-45					0.83		1.070		
7541		70-80					3.83		2.030	2.25	
7542		80-90					2.08		2.490		
7543		95-102 130-133					4.85		2.570	2.79	
7544	85-32	133-144					1.73		2090		
7545	85-33	10-25					2.22		1.660	2.39	
7546		25-40					1.53		1.860		2.06
7547		40-55					1.93		1.530	1.79	
7548		55-70					1.11		1.39		1.42
7549		70-85							1.470	1.77	
7550		85-100					0.84		1.080		
7551		100-115							1.400	1.54	
7552		115-130					0.62		0.830		
7553		130-140							2.000	2.28	
7554		140-150					2.06		2.460		
7555		150-160							2.240	3.82	
7556		160-170					2.01		2.410		
7557		170-180							3.520	4.26	
7558		180-194					2.17		2.59		
7559		215-225							2.210	2.80	
7560	85-33	225-237					2.23		2.660		
7561	85-34	1-15							1.250	1.38	
7562		15-30					1.11		1.38		
7563		30-45							1.150	1.33	
7564		45-60					0.89		1.130		
7565		60-75							2.010	2.64	
7566		75-90					1.83		2.200		
7567		90-105							0.907	1.93	
7568		105-120					1.35		1.66		
7569		120-130							2.920	3.57	
7570		130-140					2.83		3.34		
7571		140-150							2.910	3.74	
7572		150-160					2.94		3.46		
7573		160-170							1.540	1.81	
7574		170-180					2.35		2.79		
7575		180-190							1.480	1.80	
7576	85-34	190-201					1.64		1.99		
7577	85-35	2-14							1.250	1.47	
7578		18-30					1.13		1.41		
7579		30-40							1.640	2.06	
7580		40-50					2.75		3.25		
7581		50-60							2.690	3.55	
7582	85-35	60-70					2.15		2.57		

BISSETT CK. PROJECT SAMPLE SHIPMENT

RESULTS

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE [illegible]	% LOI	% C(G).	% TOTAL CARBON	[illegible] % C(G)
7583	85-35	70-80							1.960	2.23	
7584		80-90					2.19		2610		
7585		90-100							2.570	3.06	
7586		100-115					2.25		2680		
7587		160-170							3.430	3.93	
7588		170-180					1.63		1.970		
7589		180-190							2.860	2.89	
7590		190-200					1.72		2.080		
7591	85-35	200-216							2.950	3.25	
7592	85-36	2-15					missing		missing	1.37	1.22
7593		15-30							1.480	1.58	
7594		30-45					0.77		1.000		
7595		45-57							2.840	3.84	
7596		57-70					2.24		2.670		
7597		70-85							1.320	1.42	
7598		85-100					0.73		0.950		
7599		100-110							1.800	2.27	
7600		110-120					2.73		3.220		
7601		120-130							1.960	2.72	
7602		130-140					3.03		3.570		
7603		140-150							2.25		
7604		150-160					2.11		2.520		
7605		160-170							2.25		
7606	85-36	170-179					1.37		1.680		
7607	85-37	3-18					1.76		1.220	1.77	
7608		18-33					0.89		1.130		
7609		31-47					2.78		1.380	1.88	
7610		47-60					1.04		1.300		
7611		60-75					2.26		1.140	1.49	
7612		75-90					1.12		1.400		
7613		90-100					3.21		3.100	3.40	
7614		100-110					2.64		3.120		
7615		110-121					4.24		4.180	5.04	
7616		147-156									
7617	85-37	233-245					2.62		1.780	2.38	
7618	85-39	4-20									
7619		20-30					2.05		1.770	2.29	
7620		30-40									
7621		40-50					2.59		2.860	3.12	
7622		50-60									
7623		60-70					4.34		2.390	2.50	
7624		70-80									
7625		80-90					5.09		2.660	3.17	
7626	85-39	104-120									
7627	85-40	36-50							1.210	1.69	
7628		50-60					1.15		1.430		
7629	85-40	60-70							2.00		

BISSETT CK. PROJECT SAMPLE SHIPMENT

S[illegible]LE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	RESULTS % GRAPHITE	% LOI	% C(G).	% Total Carbon	Calcul. % Cg
7630	85-40	70-80					2.34		2.78	2.780	
7631	85-40	80-90								3.16	
7632	85-41	13-22					3.17		3.73	3.730	
7633		22-32								3.15	
7634		32-42					2.38		2.83	2.830	
7635		59-68								3.05	
7636		90-97					0.71		0.93	0.930	
7637		100-113								1.48	
7638	85-41	121-129					0.95		1.20	1.200	
7639	85-34	204-214								3.43	
7640	85-42	3-15							1.80		
7641		15-30								2.41	
7642		30-42							3.55		
7643		42-50								1.88	
7644		50-61							3.32		3.32
7645		61-71								1.57	
7646		93-109							1.23		
7647	85-42	142-156							1.93	1.72	
7648	? 42	189-200							1.40		
7649	85-43	23-27 31-40							1.850	2.12	
7650		40-53							1.55		
7651		67-82								1.50	
7652		93-108							1.95		
7653		108-123								1.36	
7654	85-43	150-165							2.91		
7655	85-44	33-46								1.46	
7656		46-57							2.18		
7657		57-73								3.43	
7658		81-83 89-95							2.38		
7659		95-107								1.52	
7660		117-129							1.95		
7661		185-189 193-199							1.770	2.50	
7662	85-44	199-209							2.06		
7663	85-45	9-20							0.957	1.10	
7664		20-30							1.66		
7665		30-42								2.08	
7666		42-52							3.04		
7667		69-81								2.12	
7668	85-45	131-142							1.57		
7669	85-46	40-50							1.910	2.05	
7670		50-60							1.50		
7671		60-70								1.32	
7672		70-80							2.59		
7673		80-90								3.19	
7674		90-100							1.90		
7675		100-110								2.65	
7676	85-46	110-122							1.57		

BISSETT CK. PROJECT SAMPLE SHIPMENT

SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFLD	PARTO	DATE RECEIVED	% GRAPHITE	% LOI	RESULTS % C(G).	%Total Cw	Chem %Cw
7677	85-47	34-48							1.150	1.33	
7678		50-60							2.97		2.97
7679		60-70								2.64	
7680		70-80							3.15		3.15
7681		80-90								2.84	
7682		90-103							2.71		2.71
7683		103-113								3.02	
7684	85-47	113-124							2.90		
7685	85-48	39-50								~~3.50~~	
7686		50-60									
7687		60-70									
7688		70-80									
7689		80-90									
7690	85-48	90-100									
7691	85-49	39-50									
7692	|	50-60									
7693	85-49	60-69									
7694	|	69-80									
7695	85-49	80-90									
7696	85-50	40-48							1.23		1.23
7697		48-60'								3.50	
7698		60-70							2.55		2.55
7699		70-80								3.29	
7700	85-50	80-94							3.00		

BISSETT CK. PROJECT SAMPLE SHIPMENT

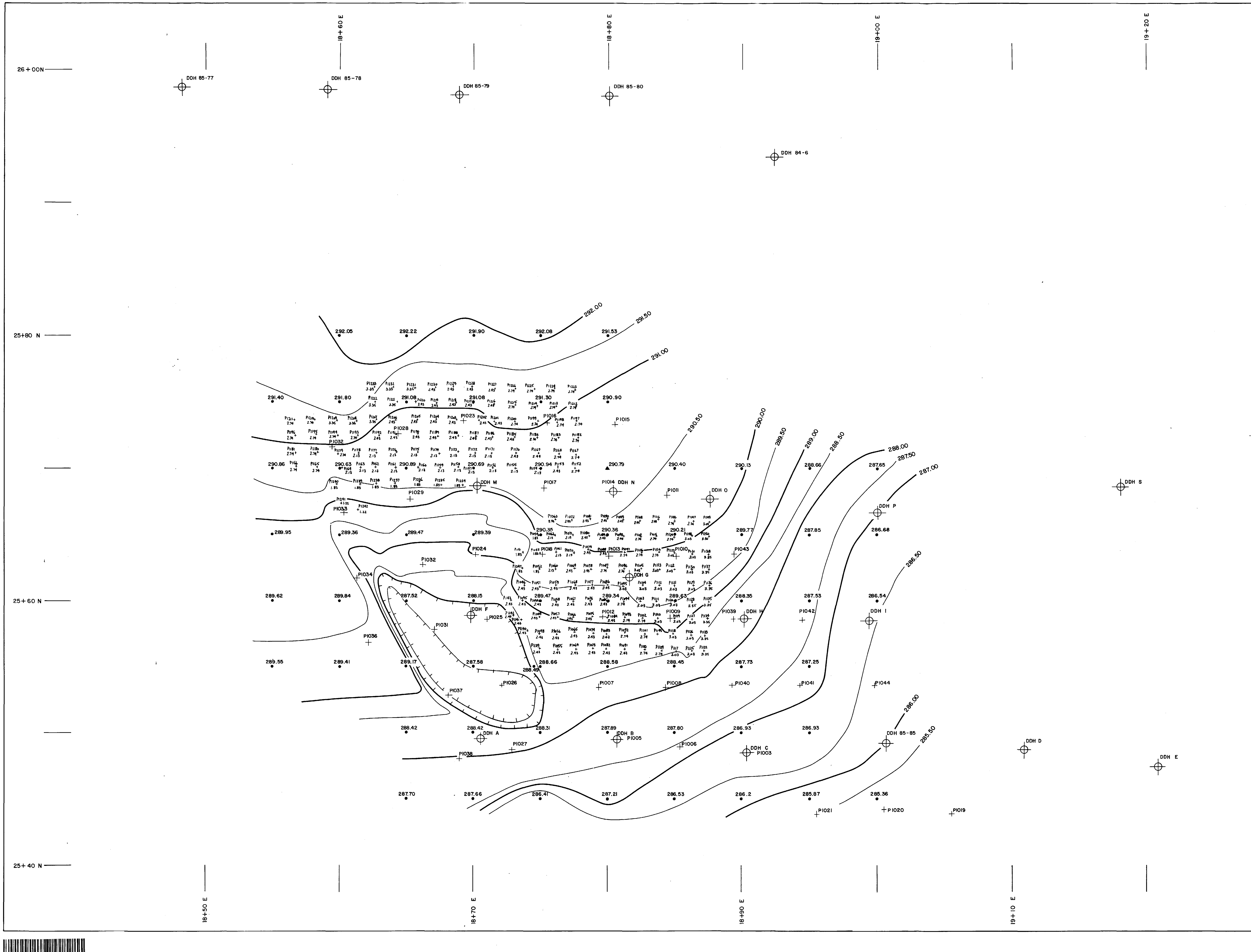
S LE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)	% TOTAL CARBON	CHECKS % C(G)
						RESULTS					
8101	85-68	15-30			✓				1.01		
8102	"	30-45		✓					0.728		
8103	"	45-55			✓				1.30		
8104	"	55-65		✓					2.86		
8105	"	75-85			✓				2.89		
8106	"	85-94		✓					1.38		
8107	"	94-111			✓				1.74		
8108	"	130-145		✓					0.888		
8109	"	145-164			✓				1.50		
8110	85-68	181.5-193		✓					1.75		
8111	85-69	54-64			✓				2.58		
8112	"	64-74		✓					2.51		
8113	"	74-84			✓				1.90		
8114	"	84-94		✓					3.61		
8115	"	94-107			✓				1.73		
8116	"	107-117		✓					3.06		
8117	"	117-128			✓				2.35		
8118	"	128-143		✓					1.65		
8119	"	157-168			✓				1.81		
8120	85-69	168-175							2.00		
8121	85-70	39-52							0.822		
8122	"	52-62							3.18		
8123	"	62-72							3.05		
8124	"	72-82							3.04		
8125	"	82-92							3.50		
8126	"	92-102							2.66		
8127	"	102-112							2.80		
8128	"	112-122							3.34		
8129	"	122-132							3.60		
8130	"	132-142							2.55		
8131	"	142-152							3.66		
8132	85-70	152-159							2,80		
8133	85-71	33-43							0.374		
8134	"	43-53							2.54		
8135	"	53-63							3.58		
8136	"	63-73							2.95		
8137	"	73-83							2.56		
8138	"	83-93							2.44		
8139	"	93-103							3.89		
8140	"	107-117							3.99		
8141	85-71	117-127							2.89		
8142	85-72	25-35							2.27		
8143	"	35-45							2.57		
8144	"	45-55							2.86		
8145	"	55-65							3.39		
8146	"	65-75							3.13		
8147	85-72	75-85							3.28		

BISSETT CK. PROJECT SAMPLE SHIPMENT

									RESULTS		
SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFIELD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G)	% TOTAL CARBON	CHECK % C(G)
8148	85-72	85-92							3.34		
8149	85-72	92-99							2.13		
8150	85-73	31-41							3.06		
8151	"	41-51							2.67		
8152	"	51-61							3.41		
8153	"	61-71							2.05		
8154	85-66	26-37							2.75		
8155	85-66	37-47							1.56		
8156	"	47-57							1.57		
8157	"	57-67							2.52		
8158	"	67-77							2.65		
8159	"	77-87							2.76		
8160	"	87-95							2.97		
8161	"	95-110							0.827		
8162	"	110-118							3.05		
8163	"	118-132							1.88		
8164	"	154.5-171							0.991		
8165	"	177-185							1.16		
8166	85-66	193-207							1.41		
8167	85-77	7-17							0.863		
8168	"	17-27							2.09		
8169	"	27-37							1.27		
8170	"	37-47							1.39		
8171	"	47-57							1.96		
8172	"	57-67							1.76		
8173	"	67-77							2.50		
8174	"	77-87							2.45		
8175	"	87-97							2.72		
8176	"	97-107							2.45		
8177	"	107-117							1.77		
8178	"	117-127							1.36		
8179	"	127-137							1.80		
8180	"	137-147							1.81		
8181	85-77	147-157							2.43		
8182	85-81	18-24							2.55		
8183	85-83	21-33							1.42		
8184	"	33-45							1.72		
8185	85-83	45-55							1.94		
8186	85-87	25-33							3.67		
8187	"	33-42							3.27		
8188	"	42-51.5							2.01		
8189	"	69-79							1.45		
8190	"	79-89							3.00		
8191	85-87	89-102.5							3.03		
8192	85-88	73.5-81							2.86		
8193	85-88	81-88.5							2.99		
8194	85-78	7-17							3.58		

BISSETT CK. PROJECT SAMPLE SHIPMENT

							RESULTS				
SAMPLE No.	DDH	SAMPLE INTERVAL	DATE SHIPPED	LAKEFLD	PORTO	DATE RECEIVED	% GRAPHITE	% LOI	% C(G).		
8195	85-78	17-27	85-11-15		✓	85-11-25			2.08		
8196	"	27-37	↓		✓	85-11-25			1.59		
8197	"	37-47			✓				1.48		
8198	"	47-57			✓				2.56		
8199	"	57-67			✓				2.34		
8200	85-78	67-77	85-11-15		✓				2.60		



DDH 85-85 Diamond Drill Hole

P1044 + Percussion Hole

Assay No. P1149 + Depth in metres 3.03 Blast Hole

▲ Transit Monument

● Surveyed Topo Point

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BISSETT CREEK PROJECT

PRINCETON RESOURCES CORPORATION

PIT 1 AREA

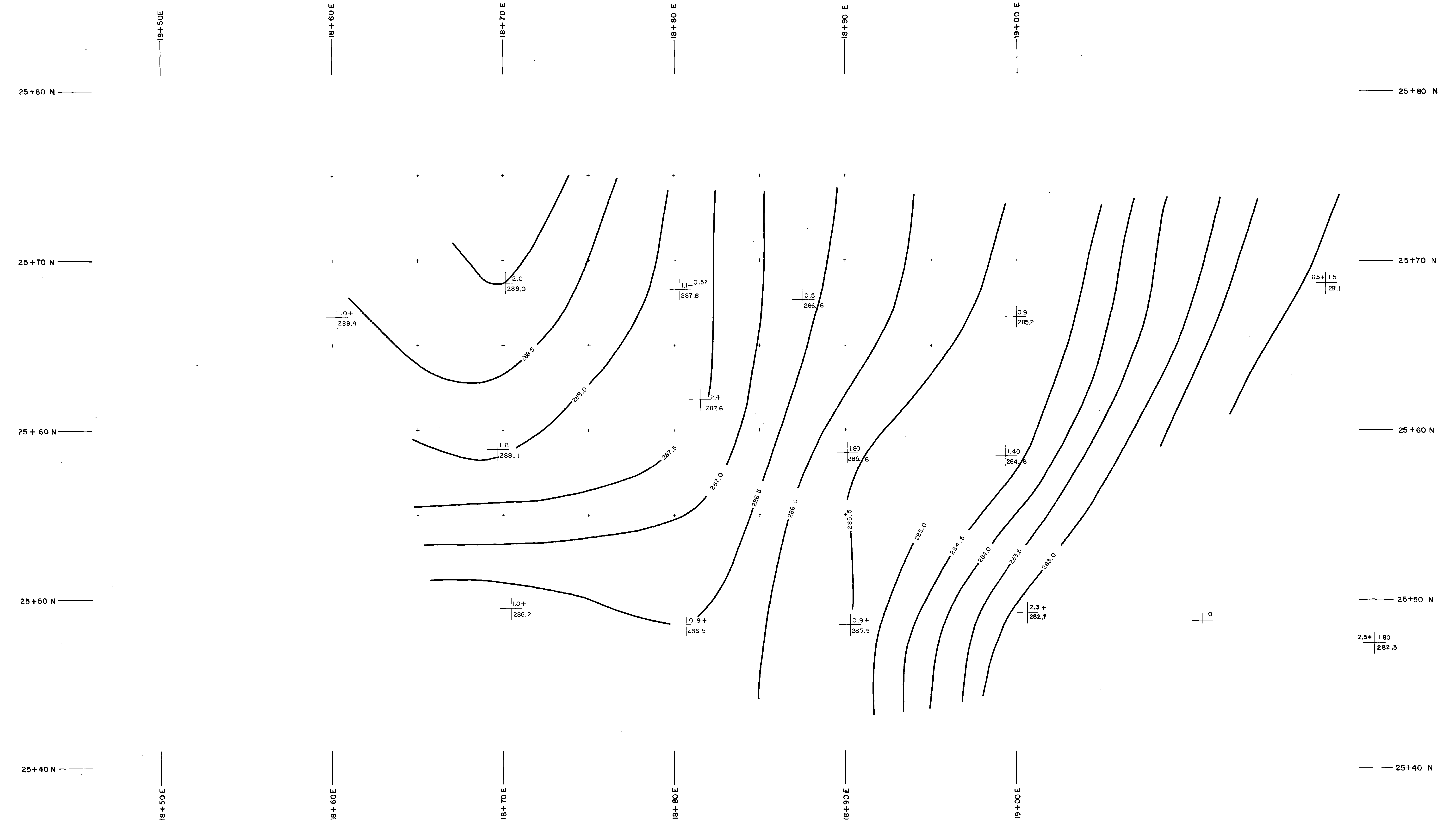
BLAST HOLE PATTERN OVERLAID ONTO

PRELIMINARY EXCAVATION DWG. No. 2.

SCALE 1:100 0 1 3 5 7

map 1

200



Thickness of Overlying Low Grade Rock

Minimum Thickness of Graphite Zone

0.3 | 1.0

Surveyed Location

283.1 — Elevation of Graphite Zone

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BISSETT CREEK PROJECT

PRINCETON RESOURCES CORPORATION

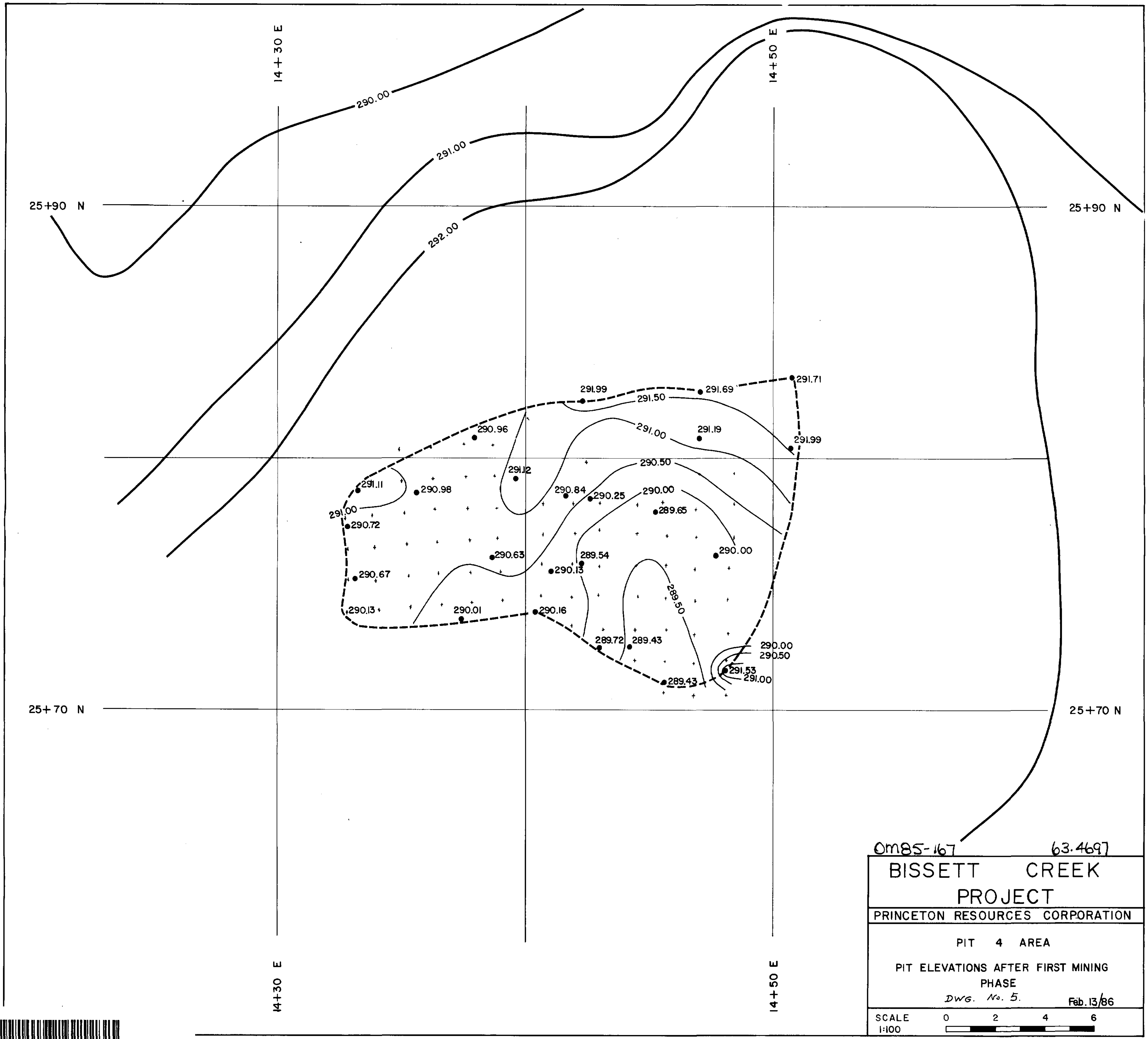
PIT 1 AREA - DETAIL PLAN
DIAMOND DRILL HOLE LOCATION AND
BASE OF GRAPHITE ZONE

DWG. No. 1.

SCALE 1:100
0 1 2 3 4 5 6 7

map 2

210



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BISSETT CREEK PROJECT

PRINCETON RESOURCES CORPORATION

PIT 4 AREA

PIT ELEVATIONS AFTER FIRST MINING PHASE

DWG. No. 5.

Feb. 13/86

map 3

31L01NE0051 63.4697 MARIA

220

NOTE : All blast pattern holes drilled to 11 feet

OM85-167 634697

BISSETT CREEK PROJECT

PRINCETON RESOURCES CORPORATION

PIT 3 AREA

CONTOUR MAP, PERCUSSION TEST AND BLAST HOLES

DWG. No. 3.

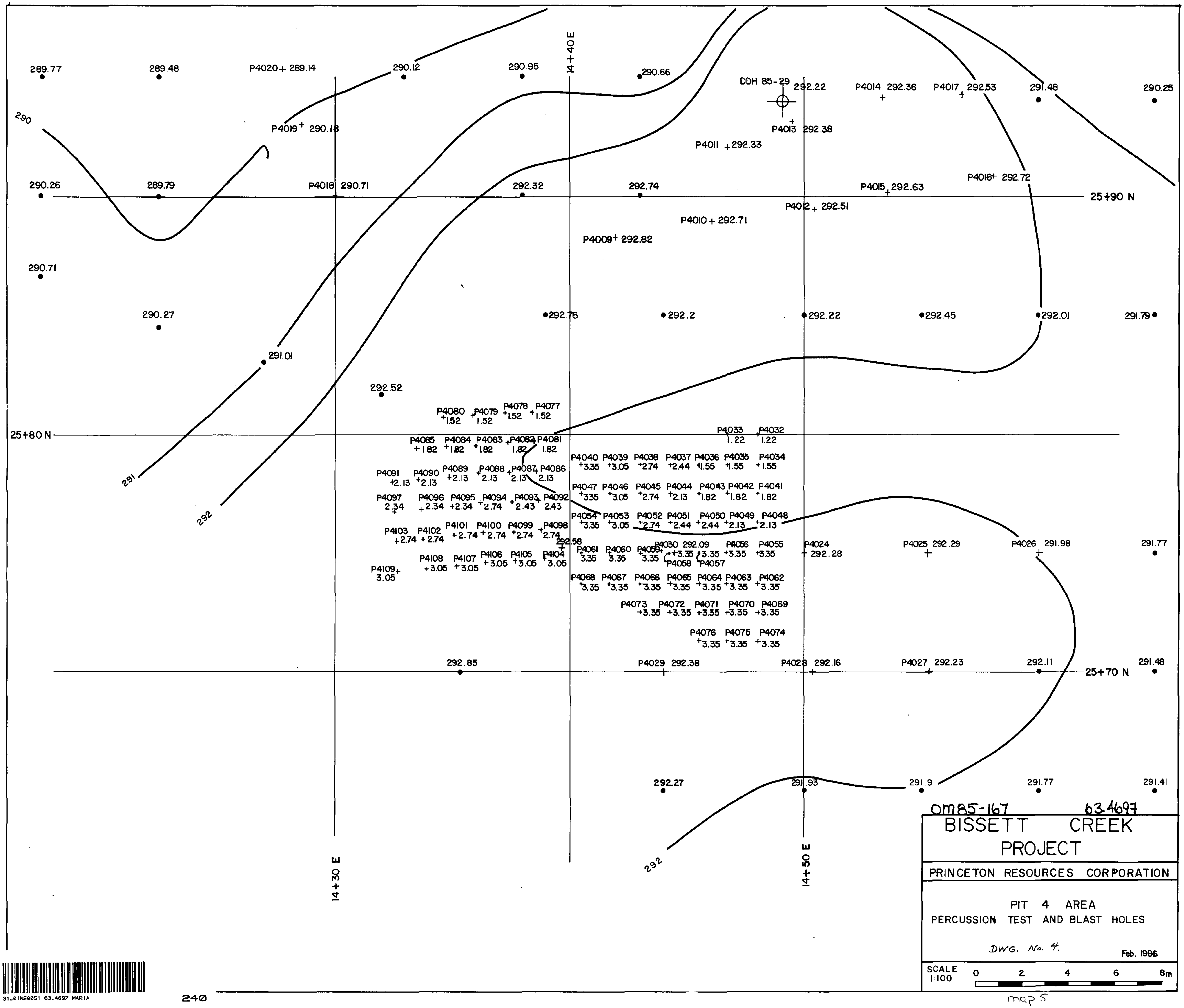
3/86

SCALE 1:100

0 1 3 5 7

map 4

230



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BISSETT CREEK PROJECT

PRINCETON RESOURCES CORPORATION

PIT 4 AREA
PERCUSSION TEST AND BLAST HOLES

DWG. No. 4.

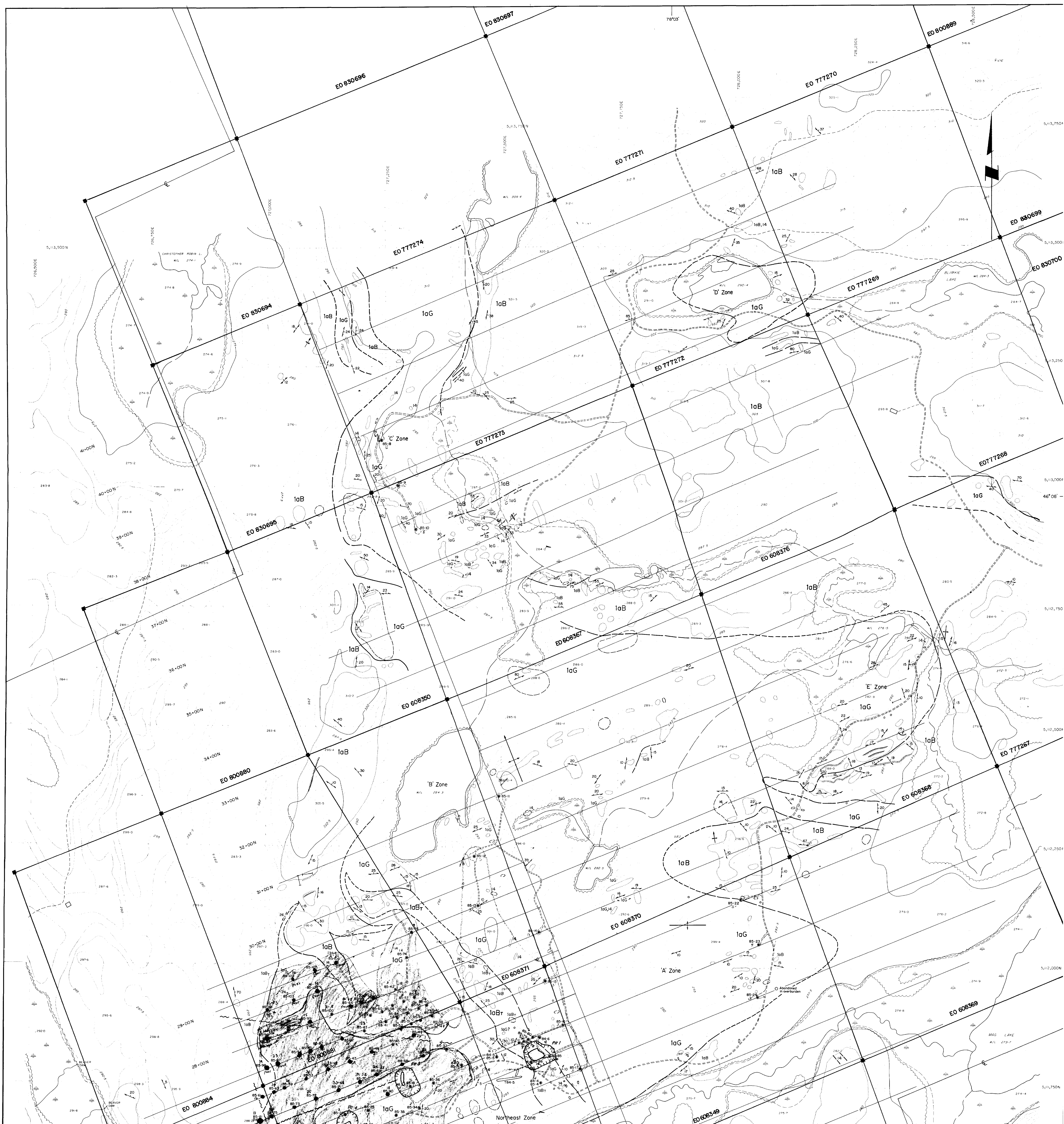
Feb. 1986

SCALE 1:100
0 2 4 6 8m

map 5

31L01NE0051 63.4697 MARIA

240



SYMBOLS

	Limit of outcrop
	Limit of sub-outcrop
○	Small outcrop
	Geological boundary : defined, interpreted, assumed
	Antiform, synform
60	Jointing : inclined, vertical
15	Gneissosity : horizontal, inclined, vertical
	Fault : defined, interpreted
28+00N	Cut grid line (metric)
℄	Claim line
■	Claim post
	Swamp
	Pond or lake
292·5	Elevation in metres
T84-3	Trench
◉ 84·1	Diamond drill hole : vertical
○	" " " :abandoned
=========	4x4 Road
	Water course
Pit 4	Bulk sample site

LEGEND

CAMBRIAN

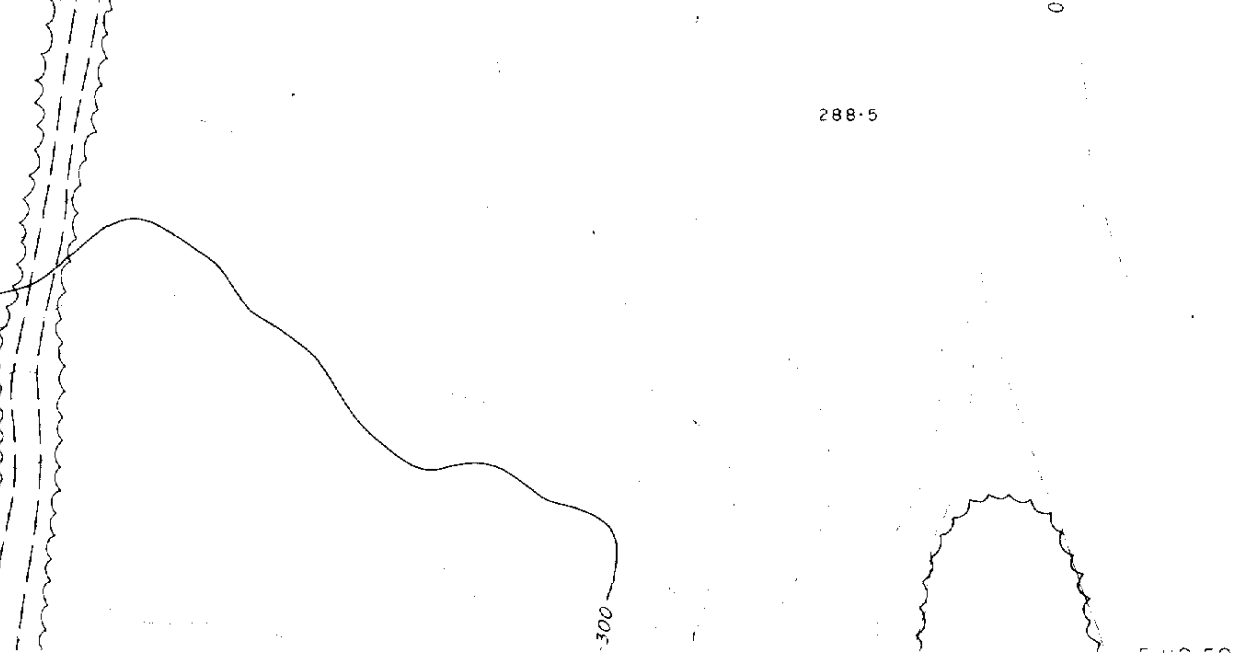
16a	*Lamprophyre dykes*

LATE PRECAMBRIAN

14	*Granitic pegmatite dykes and sills; includes weakly-deformed pegmatites which are probably older.*

MIDDLE PRECAMBRIAN

1a	*Migmatitic biotite gneiss -* *Metasedimentary biotite - K - feldspar - quartz - plagioclase - gneiss, 10% quartzo - feldspathic veins and bands*
1aG	*Graphitic gneiss -* *Pale yellow to red-brown weathering, graphitic, pyritic, biotite - quartzo - feldspathic gneiss, minor biotite - garnet - quartzo - feldspathic gneiss, 1-5% graphite, 1-6 mm flake diameter*
$1aB_T$	*Transitional gneiss -* *Quartz - and muscovite - rich variety of barren gneiss, may contain graphite*
1aB	*Barren gneiss -* *Medium to dark grey biotite - garnet - quartzo - feldspathic gneiss, includes minor pink granitic gneiss, unit 14*



Mapping by:
U. Schmidt, 1984
U.Schmidt and S.Frostad, 5/85
U. Schmidt, 9/85

GEOLOGICAL ASSOCIATION OF CANADA
UWE SCHMIDT
FELLOW

OM85-167

Fig. 9

63.4697

PRINCETON RESOURCES CORPORATION

BISSETT CREEK PROPERTY
GEOLOGY

N.T.S. 31 L/1E

MARIA TWP, ONTARIO

Scale 1:2,500

0 50 100 metres

NORTHWEST GEOLOGICAL CONSULTING LTD.

March, 1986

D.L.Phillips Draughting

250