

86-891-15629

GEOCHEMICAL, GEOLOGICAL AND PROSPECTING REPORT

ON THE

NORMA GROUP ONE AND NORMA GROUP TWO

Banks Island, British Columbia

N.T.S. 103G/8

Latitude 53° 20' / Longitude 130° 08'

for

C.E. COE

COELTON VENTURES

625 Howe Street

Vancouver, B.C.

by

J.T. SHEARER, M.Sc., F.G.A.C.

3832 St. Thomas Street

Port Coquitlam, B.C.

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15,629

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

FILMED

**Vancouver, B.C.
December 19, 1986**

Field work completed between October 19th and November 4th, 1986

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SUMMARY

- 1) The contiguous Norma 1 to 7 mineral claims total 121 units. They were recorded on January 6th and 30th, 1986 as agent for C. Coe. An affidavit has been filed by C.Coe to indicate that the claims are contiguous.
- 2) The claims are located 118 km south of Prince Rupert. Access is by fixed-wing aircraft or boat to Waller Bay.
- 3) The area is underlain by a relatively wide belt of metasediments, which is mainly composed of grey marble and thin-bedded metasiltstone. In 1963 Falconbridge Nickel Mines Ltd. conducted a self potential survey. Four pack-sack diamond drillholes were completed totaling 206 feet in 1964. Limited geological mapping and prospecting was done for the Orequest Syndicate in 1974.
- 4) Geochemistry and limited geological mapping and prospecting were conducted in 1986 on the claims. The geological setting in which the claims are located is similar to that found 2.2 km to the north where a number of deposits of base and precious metal mineralization have been found.
- 5) 250 soil samples were analyzed for gold by neutron activation. The results indicate uniformly low values throughout the area sampled with the highest value 61 ppb gold.
- 6) Rock chip sampling of narrow sheared, pyritic zones throughout the claim group gave low assay values. The highest assay was 27 ppb gold.
- 7) No significant showings were found by the present work program. The marble unit is extensively altered and folded. Intrusive contacts indicate a complex plutonic history. The area resembles the general geological setting which hosts the Tel Deposit, 2 km north of Norma claims.

- 8) Detail geological mapping and prospecting are required south of Witness Lake where float samples found in the past have given anomalous gold values.
- 9) This report was written to fulfill one year of assessment work requirements and only reflects a preliminary evaluation program.

INTRODUCTION

The contiguous Norma 1 to 7 mineral claims are located in a geological environment consisting of a granitic complex which is traversed by a wide belt of metasedimentary lithologies, including limestone, and their granitized equivalents. The unusually wide outcrop exposure of metasedimentary rocks is probably due to regional, large scale folding. The Waller Bay area is within the hinge zone of regional fold structure. Easterly trending lineaments transect the northwest trend of the metasedimentary belts and it is suggested that such structural intersections are important in the localization of metal deposits that have been previously found on Banks Island.

The area covered by the Norma mineral claims was explored in reconnaissance fashion by the Ventures-Frobisher (pre-Falconbridge) Group in the early 1960's, as the sedimentary bands, believed favourable, extended southward from the Banks (Yellow Giant) deposits. A few targets were examined where helicopter or aircraft landings could be made easily. No significant or systematic ground exploration program, such as would include definitive prospecting, geological surveys, or grid soil sampling, evolved at this end of the belt except for a small self-potential survey in 1964 on what is now Norma 2 (Previously the Waller 1-12 Claims) and packsack diamond drilling, totalling 206 feet, in 1964 (MacDougall, 1965). Limited prospecting and geological mapping was done in 1974 (Wares, 1974) for the Orequest Syndicate.

Early exploration work, conducted primarily by Falconbridge Nickel Mines Ltd. and McIntyre Porcupine Mines Ltd., resulted in the location of eleven separate gold deposits and occurrences on the Yellow Giant property located immediately north of the Norma claims. These are of two main types: (a) bulk tonnage disseminated and (b) high grade replacement deposits. Mineralization consists of native gold which may be accompanied by sphalerite, chalcopyrite, molybdenite and pyrite.

All of the known deposits are controlled by and in part, remobilized into well-developed faults and fracture systems in both the metasedimentary and the intrusive rocks. A large percentage of the gold occurrences located on Banks Island are found where the more east-west trending lineaments intersect a

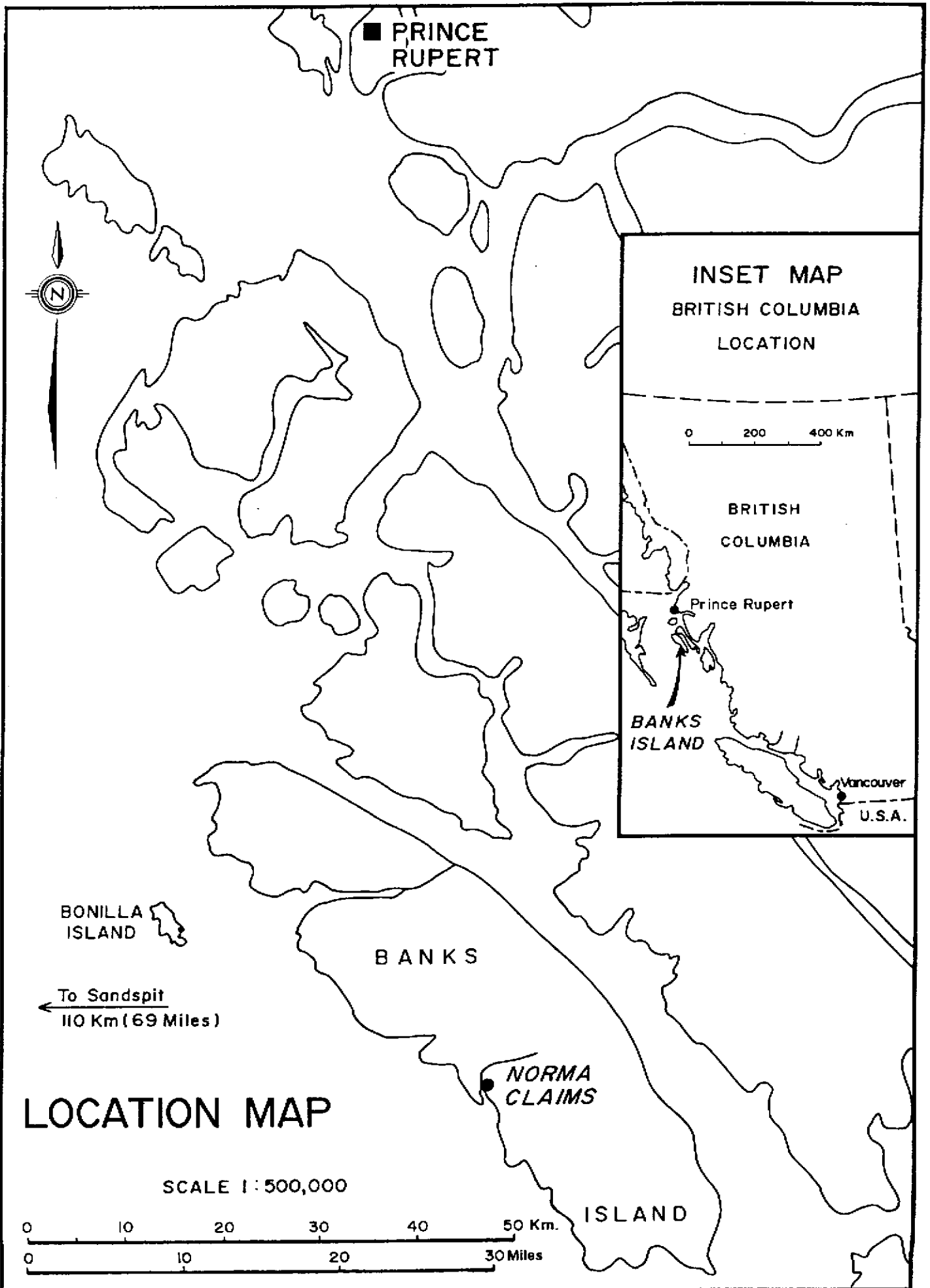


FIGURE 1

northwest trending set. The latter often contain the metasediments, particularly the calcareous bands, which may have influenced the deposition of gold or related mineralization. The Tel Deposit, 2.2 km north of the Norma Claims has been recently estimated to contain 212,000 short tons averaging 0.86 oz/ton gold using a 0.25 oz/ton cut-off (Shearer 1986).

PROPERTY, LIST OF CLAIMS

The principal area of interest is covered by the Norma 1 to 7 mineral claims staked under the modified grid system. The claims are located in the Skeena Mining Division and were recorded January 6th and 30th, 1986. The claims are currently held by C. Coe. Figure 2 shows the recorded claim block located on map 103⁶/8E.

TABLE 1

List of Claims

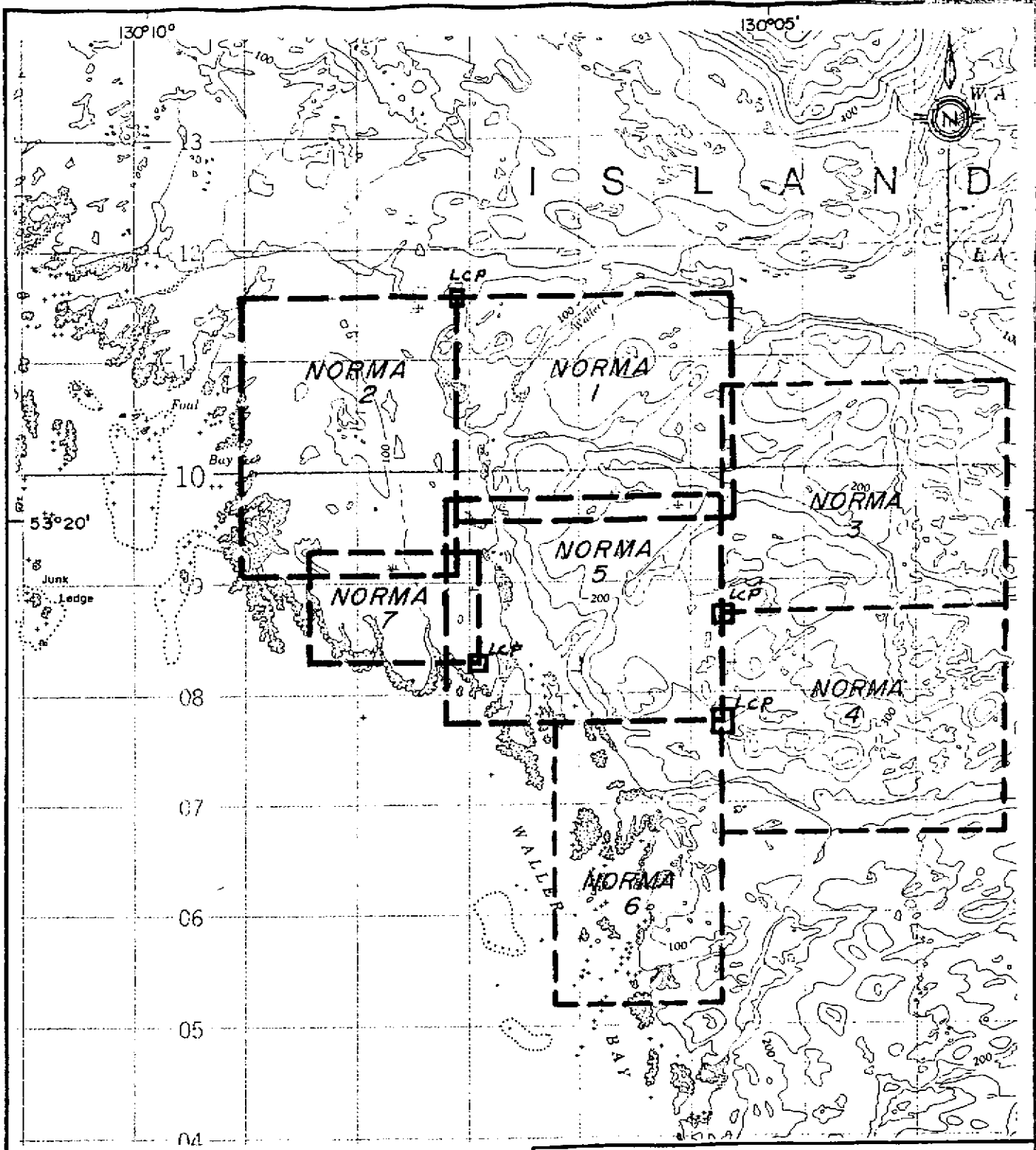
Norma Group One and Norma Group Two

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Size</u>	<u>Recording Date</u>	<u>Owner</u>	<u>Expiry* Date</u>
Norma 1	5131	20	4S,5E	Jan 6/86	C. Coe	Jan 6/88
Norma 2	5132	20	5S,4W	Jan 6/86	C. Coe	Jan 6/88
Norma 3	5136	20	4N,5E	Jan 6/86	C. Coe	Jan 6/88
Norma 4	5137	20	5E,4S	Jan 30/86	C. Coe	Jan 30/88
Norma 5	5138	20	4N,5W	Jan 30/86	C. Coe	Jan 30/88
Norma 6	5139	15	3W,5S	Jan 30/86	C. Coe	Jan 30/88
Norma 7	5140	6	2N,3W	Jan 30/86	C. Coe	Jan 30/88

(Norma Group One - Norma 1-4 and 6, Norma Group Two - Norma 5 and 7)

* by application of assessment work filed by this report.

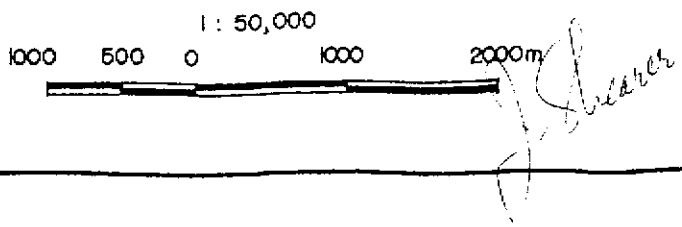
A letter has been sent by C.Coe to the Skeena Mining Division Gold Commissioner stating that the Norma 3 and Norma 1 claims are contiguous which is contrary to the preliminary sketch submitted by the locators.



COELTON VENTURES

CLAIM MAP

PROJECT :	NORMA CLAIMS	
ENG. :	TRM ENGINEERING LTD.	
DATE : NOV. 86	FIG.	2



LOCATION AND ACCESS

The Norma 1 to 7 mineral claims are located approximately 120 kilometres south of Prince Rupert, B.C. at approximate geographic co-ordinates 53° 20' N, 130° 08' W, NTS 103G/8 (Figure 1). Access from Prince Rupert is either by float plane or boat, to Waller Bay. Banks Island has no permanent inhabitants.

Elevations on the Norma 1 to 7 mineral claims varies from sea level to 122 metres a.s.l.. The eastern and southern portion of the claim group are characterized by subdued, hilly topography broken locally by northwesterly trending muskeg belts.

Vegetation consists of dense conifers over the metasedimentary rocks while coastal muskeg and grass predominate in the low-lying areas. Geological units are enhanced by the abundance (or lack of) vegetation. The percentage of outcrop approximates 15%. The shoreline gives an almost continuous bedrock exposure.

Climate is typical north-coastal with wet winters and moderate summers. Snowfall may occur and remain at the higher elevations for short periods but is insufficient to prevent exploration.

FIELD PROCEDURES

The soil lines were run with a Silva compass and roughly measured for slope corrections by a Belt Chain calibrated in metres for which the manufacturer claims a 0.1% accuracy. Soil lines were established at irregular intervals trending east-west starting at tidewater and are marked in many orange flags with stations in numbered pink flagging. Soil samples were taken at 50 and 25 metre intervals from the B horizons at depths ranging between 10 and 120 cm by a grubhoe and shovel. Samples were placed in a numbered waterproof Kraft bag and delivered to Chemex Labs, 212 Brooksbank Avenue, North Vancouver. Analysis was by neutron activation as outlined in Appendix IV. Standard soil data were recorded in the field noting such items as sample number, location, depth, horizon, colour, particle size, organics, pH, slope, vegetation and additional remarks.

Rock samples were taken as continuous chips over short intervals. Results are plotted on Figures 4 and 5 (in pocket) using Hip Chain traverses between soil lines and the 1:5,000 orthophotograph for control.

REGIONAL GEOLOGY

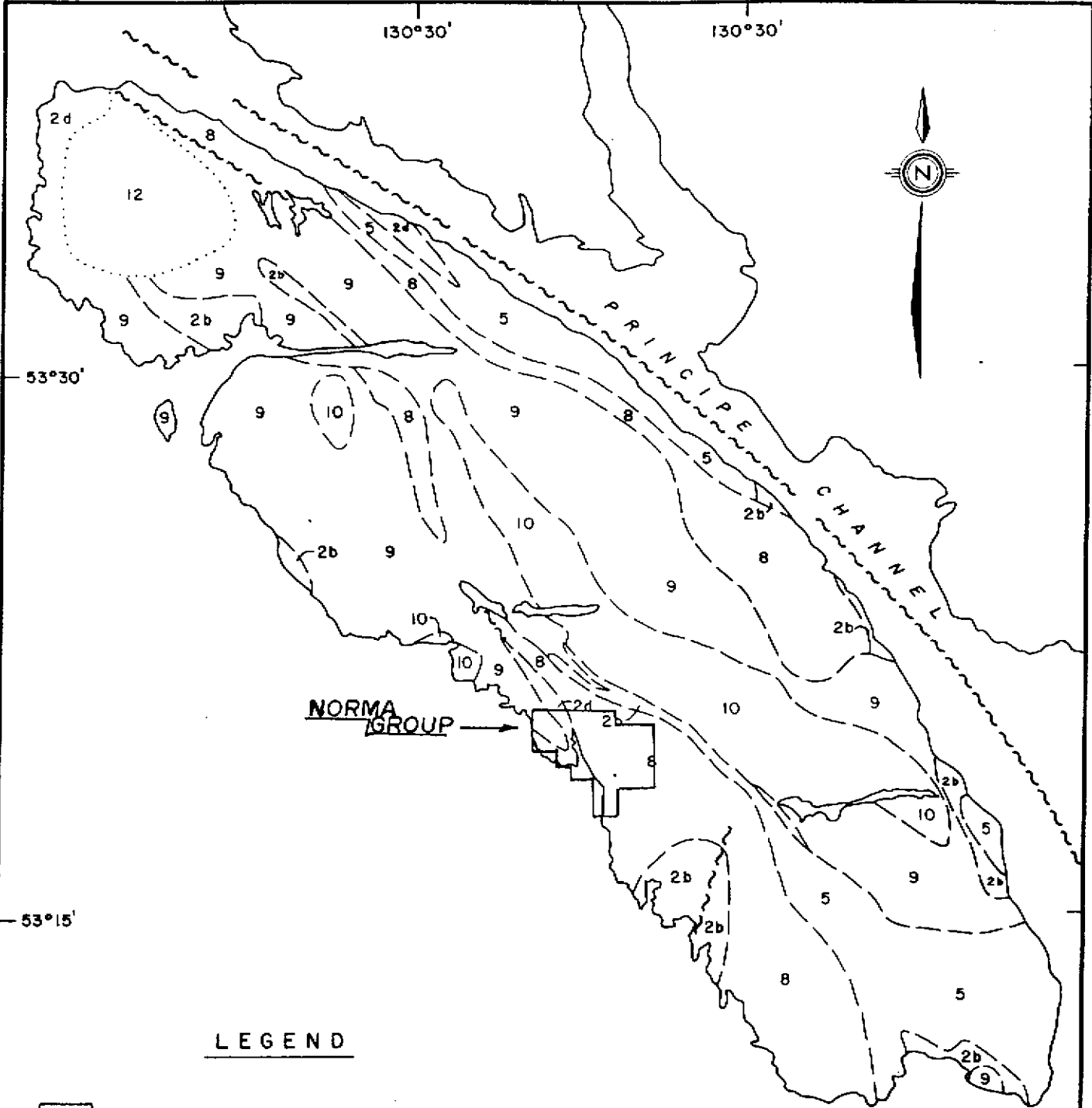
Regional geological features have been compiled by Roddick (1970) as Map 23-1970, Figure 3, mainly from field work conducted by the Geological Survey of Canada in 1963 along coastal exposures and in 1964 by wide spaced landings with a helicopter on interior sites.

Banks Island is underlain by granitic plutons and subordinate metasedimentary rocks that occur at the western margin of the Coast Plutonic Complex. The granitic plutons intrude isoclinally folded, metamorphosed, calcereous and pelitic sediments of probable Paleozoic age.

The Banks Island composite pluton, as described by Geological Survey of Canada reconnaissance mapping, has a monzonitic to granodioritic core surrounded by a quartz diorite phase, followed by an irregular peripheral gneissic diorite - gabbro - migmatite phase. A potassium-argon date of 144 ± 6 Ma has been obtained from the Banks Island pluton. The pluton displays emplacement relationships suggestive of formation at a depth of 2 to 4 kilometres. Diorite sills near the Tel Deposit have been recently dated by U/Pb methods at 123 Ma.

Banks Island is bounded on the east by the steep easterly dipping Principe Laredo fault and to the west by a gravity inferred splay of the Principe Laredo fault. The Principe Laredo fault and other nearby faults are apparently near-vertical with right-lateral movement and have a northwesterly directed structural trend. The magnitude and time of displacement along these fault systems is unknown although recent interpretations of their movement suggest that they have been active from at least Lower Mesozoic time (Yorath and Chase, 1981).

Steeply dipping faults which have a 315° trend appear to bound the metasediments. These are frequently cut by east-west faults with horizontal dextral displacements. Tensional fractures and subsidiary shears are related to these structures.



LEGEND

- 12 ALLUVIUM
- 10 QUARTZ MONZONITE, GRANITE
- 9 GRANODIORITE
- 8 QUARTZ DIORITE
- 5 GNEISSIC DIORITE - MIGMATITE COMPLEX
- 2d CRYSTALLINE LIMESTONE
- 2b MICACEOUS QUARTZITE, SKARN, SCHIST

COELTON VENTURES

GENERAL GEOLOGICAL MAP OF BANKS ISLAND

PROJECT: **NORMA CLAIMS**

ENG.: **TRM ENGINEERING LTD.**

DWG. NUMBER: **FIG. 3**

LOCAL GEOLOGY

The Norma 1 to 7 mineral claims are located in an area where a wide belt of metasediments have been surrounded and infolded by later intrusive rocks. Limited geological mapping was conducted in central Norma 1, 2, 5 and 7 claims, Figures 4 and 5, in pocket.

The area mapped can be divided into three main rock groups: (A) Intrusives, mainly diorite (Unit 3), (B) Marble and impure carbonate lithologies (Unit 2) and (C) Siltstones, quartzites and their metamorphic equivalents (Unit 1).

On the orthophoto, Figure 5, Unit 1 occurs as the light coloured area of generally higher elevation, about 500 meters west of Waller Bay (West Arm). Surface exposures are abundant in this belt, however the outcrops only occur as recessive small ridges without any cliffs. This area is very wet having small ponds and stretches of coastal muskeg. Bedrock is near surface. Soils in this area are usually sandy and generally grey in colour. The rocks are mainly siltstone, biotite schist or thin bedded quartzite with very minor marble. Weathered surfaces are usually rusty and finely disseminated pyrite is common. Thin diorite sills and possibly dykes were noted throughout the section.

Unit 2 rocks trend roughly northwest and show up remarkably well on the photocompilation as the densely wooded area immediately west of Waller Bay. The marble generally weathers a uniform buff to grey-brown. Small scale karst features are common. On fresh surfaces they are usually medium to coarse crystalline and range from creamy white and grey banded to speckled with orange spots (limonite staining). Flecks of graphite are very common. No sulfide mineralization was seen in the marbles. Often pure marble was interbedded with thin siltstone or siliceous lenses and beds. These quartz and calc-silicate-rich beds are commonly pyritic and very rusty on weathered surfaces.

Intrusive rocks, Unit 3, are exposed extensively north and east of the northern end of the West Arm of Waller Bay. The intrusive is mainly uniform, fresh diorite within the area mapped. No associated sulfide mineralization was found in the large bodies of diorite.

The metasedimentary rocks generally strike NNW (348°) and usually dip moderately to steeply (66° to 89°) to the east. Minor folds axes plunge moderately (50° to 68°) in the general strike direction (348°). All the metasediments have undergone extreme deformation with boudinage structures throughout. The carbonate horizons have flowed plastically around the more brittle siltstone and diorite sill lithologies.

GEOCHEMISTRY

Soil sample results are plotted on Figures 4 and 5 (in pocket). Relatively low gold values were encountered throughout the grid. The highest value was 61 ppb at NAH 86-085. Several areas, such as the western end of Line E, are slightly above background and should be checked in detail.

This type of response is similar to the area between Banks Lake and Barge Bay along the Bank-Barge Lineament close to the known gold deposits such as the Bob Deposit and Tel Zone on the Yellow Giant Property. Soil sampling over 20 metres from outcrop of the Bob Deposit which has mineral inventory reserves of 50,000 tons at 1.17 oz/ton gold are down to the background of 1 ppb gold (Shearer, 1985a). However, close spaced soil geochemistry is too costly an exploration method to apply in preliminary reconnaissance work. A more productive method is to carefully prospect the favourable linears and collect close spaced soil samples along the structural intersections.

GEOPHYSICS

Preliminary self potential surveys were conducted by Falconbridge Nickel Mines Ltd in 1964. These results were not available to Wares (1974) although he noted the existence of the grid. McDougall (1965a) states that:

"In 1963, twelve claims were staked just north of Waller Bay on a portion of the west limb sediments immediately south of McIntyre's ground.

An S.P. survey was run over the central claims as well as four of the more northwesterly claims, and a soil sampling job partially completed (Geoph. Map #3/64).

Several well-located S.P. anomalies were turned up and drilled with the packsack. Core recovered (WB #1, 2, 3 - total 136 feet) showed disseminated pyrrhotite with minor zinc-lead (up to 0.7% zinc but averaging about 0.2%) plus low copper and trace gold-silver values.

A 70-foot hole (WB #4) was drilled into an extremely high anomaly occurring in limestone near a graphitic shale contact on Waller Bay but no mineralization was encountered and it was assumed that the electrical activity was due to graphite visible in rocks of the zone which was traceable using S.P. and limited outcrop for several miles (the "graphite horizon").

An excerpt from a list of interpretations by Falconbridge geophysicist, D.J. Salt, is as follows: (McDougall 1965b):

"Waller Bay Grid: The map is almost self-explanatory. The maximum values on areas "A" and "B" probably indicate graphite, suggesting that they are metasedimentary bands. The other weaker anomalies may be of greater economic importance."

Several packsack drill holes were collared to test anomalies occurring along Line 2 N. Limestone float suggested a relation of the anomalies to this important rock type. Disseminated sulphides, mostly pyrrhotite and pyrite, but containing some sphalerite and traces of chalcopyrite, were encountered across widths of several feet.

The strong anomaly at the northerly end of Line 8 S was drilled but only marble encountered. It is felt due to an unexposed graphitic horizon occurring under water just beyond the test area.

The anomaly at the top of Line 4 S was investigated by blasting and found to be caused by minor amounts of sulphides and graphite occurring in an argillaceous horizon whose continuance is suggested along strike toward the top end of Line 30 N."

The drill logs for the 1964 drilling program are contained in Appendix V of this report.

CONCLUSIONS AND RECOMMENDATIONS

The property is underlain by a wide belt of calcareous metasediments at the contact between magnetic hornblende quartz diorite and biotite quartz monzonite. The area is transected by numerous airphoto lineaments that predominately trend northwesterly. A series of easterly trending lineaments transect the structural trend of the metasedimentary belts in the vicinity of Waller Bay. Extensions of the

calcareous rocks to the north, of the northern boundary of the Norma claim group, host important gold mineralization in marble (Shearer, 1986). The structural setting of the Norma Group, particularly in the upper Waller Bay area, is similar to that of the Tel and Bob setting. The Discovery Deposit is estimated to contain 100,000 tons at 0.46 oz/ton gold hosted by skarnified marble at the contact between biotite quartz monzonite and hornblende quartz diorite (Shearer, 1985b).

Since orientation geological mapping in conjunction with soil geochemistry was not successful in locating mineralized zones, a short, Phase I intensive prospecting program is warranted. This would entail three experienced workers for approximately two weeks. Areas in which structural lineaments intersect should be carefully prospected.

This program, depending on results, could be followed by more detailed geological mapping in addition to appropriate geophysical and geochemical surveys. Exploratory diamond drilling could be undertaken on defined targets located by these prior exploration surveys.

A cost estimate for future work is summarized below:

Phase I

- 1) Detail prospecting in conjunction with soil and silt sampling. Crew: 3 men for a period of 14 days.

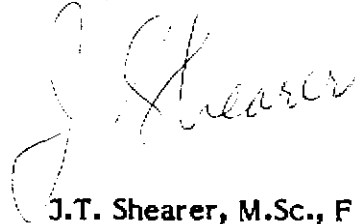
COSTS

Wages and Benefits 42 man days @ 250	\$ 10,500
Mobilization and Demobilization (Fixed wing from Prince Rupert)	2,750
Travel	1,200
Rental of Equipment (boat)	800
Camp and Board	1,800
Analytical	1,875
Report Preparation	1,200
Reproduction and Drafting	600
Contingency (15%)	<u>3,109</u>
Total	<u>\$ 23,834</u>

Phase II

Contingent on success of Phase I prospecting in locating bedrock mineralized zones, Phase II should consist of detail geological mapping, geophysical and geochemical surveys in association with trenching to define drill targets.

Respectfully submitted,

A handwritten signature in cursive script that reads "J. T. Shearer". The signature is written in dark ink and is positioned above the printed name.

J.T. Shearer, M.Sc., F.G.A.C.

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APPENDIX I

STATEMENT OF COSTS

Norma Group One and Norma Group Two

NTS 103G/8, Skeena Mining Division

**Field work completed between
October 22nd and November 1st, 1986**

COST STATEMENT

Norma Claims

		<u>Norma Group One</u>	<u>Norma Group Two</u>
Field work completed between October 22nd and November 1st, 1986		Division of wages based on number of man days spent on each group	
		75%	25%
<u>Wages and benefits</u>			
J. Shearer, Geologist, 5 days at \$250/day	\$ 1,250.00	\$ 937.50	\$ 312.50
B. Augusten, Geologist, 12½ days at \$160/day	1,680.00	1,260.00	420.00
P. Huxley, Sampler, 11 days at \$140/day	<u>1,260.00</u>	<u>945.00</u>	<u>315.00</u>
Sub-total	4,190.00	3,142.50	1,047.50
<u>Transportation</u>			
Vancouver - Prince Rupert (proportion of mandays) with Ryan claims 2 persons \$712.80 x 55%	391.60	293.70	97.90
Fixed-wing Beaver basic \$392 x 1.5 (144 miles x \$2.72/mile)	588.00	441.00	147.00
7 minimum landings at \$50	350.00	262.50	87.50
Helicopter, VIH invoice 56574, 1.0 hr @ \$558.30	<u>550.30</u>	<u>418.72</u>	<u>139.58</u>
Sub-total	1,887.30	1,415.93	471.98
Analytical Chemex Labs Ltd. 255 soil samples at \$7.35	1,874.25	1,690.50	183.75
14 rock samples at \$9.25	129.50	230 samples 114.80	25 samples 14.70
	<u>2,003.75</u>	<u>12 samples</u>	<u>2 samples</u>
Camp and Food, 20 field days at \$40/day	800.00	600.00	200.00
Hotel in Prince Rupert	45.00	33.75	11.25
Drafting, 19.75 x \$20 per hour	395.00	296.25	98.75
Maps, 1:10,000 enlargement, 1:5,000 orthophoto	87.00	65.25	21.75
Reproduction	42.50	31.88	10.62
Word Processing, 8 hours at \$20/hour	<u>140.00</u>	<u>105.00</u>	<u>35.00</u>
GRAND TOTAL	\$ 9,591.15	\$ 7,495.86	\$ 2,095.29
Withdrawal	<u>2,877.35</u>	<u>2,248.76</u>	<u>628.59</u>
		\$ 9,500.00	2,600.00

J. Shearer

APPENDIX II

STATEMENT OF QUALIFICATIONS

for

J.T. SHEARER, M.Sc., F.G.A.C.

**Norma Group One and Norma Group Two
Banks Island, Skeena Mining Division, 103G/8**

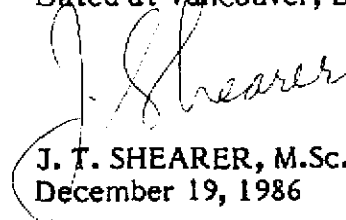
November, 1986

APPENDIX II

I, J.T. Shearer of the City of Port Coquitlam in the Province of British Columbia, hereby certify that:

- 1) I am a graduate of the University of British Columbia (1973) B.Sc. in Honours Geology, and the University of London, Imperial College (1977) M. Sc., DIC.
- 2) I am a Fellow of the Geological Association of Canada.
- 3) I have worked continuously in Mineral Exploration since 1973 for McIntyre Mines Limited, J.C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.
- 4) I do not have any interest in the Norma Claims or the securities of Coelton Ventures and its affiliated companies, nor do I expect to receive any interest in the future.
- 5) I personally worked on the Norma Claims between October 19th and November 4th, 1986. I supervised the field crew of B. Augusten, B.Sc. and P. Huxley during their work on the Norma Claims. This report is based on interpretation of data collected.

Dated at Vancouver, British Columbia



J. T. SHEARER, M.Sc., F.G.A.C.
December 19, 1986

APPENDIX III

LIST OF PERSONNEL AND DATES WORKED

Norma Group One and Norma Group Two
Banks Island, 103G/8

Field work completed between
October 22nd and November 4th, 1986

APPENDIX III
List of Personnel and Dates Worked

Name	Position	Address	Date Worked
J. T. Shearer	Geologist / Coordinator	3832 St. Thomas Street Port Coquitlam, B.C. V3B 2Z1	Oct. 23, 23, 25 Nov. 15, 16,(report)
B.E.K. Augusten	Geologist / Prospector	P.O Box 5014 Squamish, B.C. V0N 3G0	Oct. 22 ($\frac{1}{2}$ day) 23-31 incl. Nov. 1, 3, 4
P. Huxley	Soil sampler / Prospector	1659 Herman Place Prince Rupert, B.C. V8J 2E9	Oct. 23-31 inclusive Nov. 1, 3

B.E.K. Augusten graduated in Honours Geology from Carleton University, Ottawa in 1985 with a B.Sc. and has 3 years field experience.

P. Huxley has worked for TRM Engineering on Banks Island since November 1985 performing a variety of exploration duties.

APPENDIX IV

**ANALYTICAL PROCEDURES AND
ASSAY CERTIFICATES**

Norma Group One and Norma Group Two

as performed by

CHEMEX LABS LTD.

212 Brooksbank Ave.,
North Vancouver, B.C.
Phone 984-0221

Lloyd Twaites, Hart Bichler Assay and Geochemical Managers

CHEMEX LABS LTD.
212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

Gold NAA ppb:

A 10 gm sample is fused in litharge, carbonate, and silicious flux. The resulting lead button containing any gold in the sample is cupelled in a muffle furnace to produce a precious metals bead. Sample beads, plus standard and blank beads are irradiated in a thermal neutron flux. The gamma emissions of the irradiated beads are counted utilizing a Ge (Li) detector and quantified for gold.

Detection limit: 1 ug/kg (ppb)



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INVOICE # : 18620949
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Sample description	Prep code	Au NAA ppb					
NAA-001-86	205	27	--	--	--	--	--
NAA-002-86	205	17	--	--	--	--	--
NAA-003-86	205	10	--	--	--	--	--
NAA-004-86	205	8	--	--	--	--	--
NAA-005-86	205	<1	--	--	--	--	--
NAA-006-86	205	<1	--	--	--	--	--
NAA-007-86	205	3	--	--	--	--	--
NAA-008-86	205	<1	--	--	--	--	--
NAA-010-86	205	3	--	--	--	--	--
NAA-011-86	205	<1	--	--	--	--	--
NAA-012-86	205	7	--	--	--	--	--
NAA-013-86	205	7	--	--	--	--	--
NAA-014-86	205	2	--	--	--	--	--

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P.O. # : NONE
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Sample description	Prep code	Au NAA ppb						
NAH-001-86	203	12	--	--	--	--	--	--
NAH-002-86	203	3	--	--	--	--	--	--
NAH-003-86	217	2	--	--	--	--	--	--
NAH-004-86	201	4	--	--	--	--	--	--
NAH-005-86	201	<1	--	--	--	--	--	--
NAH-006-86	201	1	--	--	--	--	--	--
NAH-007-86	201	3	--	--	--	--	--	--
NAH-008-86	201	<1	--	--	--	--	--	--
NAH-009-86	201	2	--	--	--	--	--	--
NAH-011-86	217	1	--	--	--	--	--	--
NAH-012-86	217	3	--	--	--	--	--	--
NAH-014-86	201	3	--	--	--	--	--	--
NAH-015-86	201	<1	--	--	--	--	--	--
NAH-016-86	217	1	--	--	--	--	--	--
NAH-017-86	201	2	--	--	--	--	--	--
NAH-018-86	217	<2	--	--	--	--	--	--
NAH-019-86	201	2	--	--	--	--	--	--
NAH-020-86	201	<1	--	--	--	--	--	--
NAH-021-86	201	<1	--	--	--	--	--	--
NAH-022-86	201	2	--	--	--	--	--	--
NAH-023-86	217	3	--	--	--	--	--	--
NAH-024-86	201	2	--	--	--	--	--	--
NAH-025-86	201	1	--	--	--	--	--	--
NAH-026-86	201	2	--	--	--	--	--	--
NAH-027-86	217	<1	--	--	--	--	--	--
NAH-028-86	217	<1	--	--	--	--	--	--
NAH-029-86	217	<1	--	--	--	--	--	--
NAH-030-86	201	<1	--	--	--	--	--	--
NAH-031-86	201	<1	--	--	--	--	--	--
NAH-032-86	201	<1	--	--	--	--	--	--
NAH-033-86	201	<1	--	--	--	--	--	--
NAH-034-86	201	<1	--	--	--	--	--	--
NAH-035-86	201	<1	--	--	--	--	--	--
NAH-036-86	201	<1	--	--	--	--	--	--
NAH-037-86	217	2	--	--	--	--	--	--
NAH-038-86	201	<1	--	--	--	--	--	--
NAH-039-86	201	<1	--	--	--	--	--	--
NAH-040-86	217	<1	--	--	--	--	--	--
NAH-041-86	217	<1	--	--	--	--	--	--
NAH-042-86	201	7	--	--	--	--	--	--

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Sample description	Prep code	Au NAA ppb						
NAH-043-86	217	9	--	--	--	--	--	--
NAH-044-86	217	1	--	--	--	--	--	--
NAH-045-86	201	2	--	--	--	--	--	--
NAH-046-86	201	<1	--	--	--	--	--	--
NAH-047-86	217	<1	--	--	--	--	--	--
NAH-048-86	203	6	--	--	--	--	--	--
NAH-049-86	203	<2	--	--	--	--	--	--
NAH-050-86	203	2	--	--	--	--	--	--
NAH-051-86	201	<1	--	--	--	--	--	--
NAH-052-86	201	<1	--	--	--	--	--	--
NAH-053-86	201	9	--	--	--	--	--	--
NAH-054-86	201	<1	--	--	--	--	--	--
NAH-055-86	203	<1	--	--	--	--	--	--
NAH-056-86	201	<1	--	--	--	--	--	--
NAH-057-86	217	<1	--	--	--	--	--	--
NAH-058-86	217	<1	--	--	--	--	--	--
NAH-059-86	217	2	--	--	--	--	--	--
NAH-060-86	201	<1	--	--	--	--	--	--
NAH-061-86	201	2	--	--	--	--	--	--
NAH-062-86	201	<1	--	--	--	--	--	--
NAH-063-86	201	7	--	--	--	--	--	--
NAH-064-86	217	<1	--	--	--	--	--	--
NAH-065-86	217	<2	--	--	--	--	--	--
NAH-066-86	201	10	--	--	--	--	--	--
NAH-067-86	201	1	--	--	--	--	--	--
NAH-068-86	201	<1	--	--	--	--	--	--
NAH-069-86	201	<1	--	--	--	--	--	--
NAH-070-86	201	<1	--	--	--	--	--	--
NAH-071-86	201	2	--	--	--	--	--	--
NAH-072-86	201	<1	--	--	--	--	--	--
NAH-073-86	201	<1	--	--	--	--	--	--
NAH-074-86	203	<1	--	--	--	--	--	--
NAH-075-86	201	<1	--	--	--	--	--	--
NAH-076-86	201	1	--	--	--	--	--	--
NAH-077-86	201	<1	--	--	--	--	--	--
NAH-078-86	201	1	--	--	--	--	--	--
NAH-079-86	201	2	--	--	--	--	--	--
NAH-080-86	217	<1	--	--	--	--	--	--
NAH-081-86	217	2	--	--	--	--	--	--
NAH-082-86	217	<1	--	--	--	--	--	--

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Sample description	Prep code	Au NAA ppb						
NAH-083-86	217	1	--	--	--	--	--	--
NAH-084-86	203	<1	--	--	--	--	--	--
NAH-085-86	201	61	--	--	--	--	--	--
NAH-086-86	201	8	--	--	--	--	--	--
NAH-087-86	201	1	--	--	--	--	--	--
NAH-088-86	201	4	--	--	--	--	--	--
NAH-089-86	201	<1	--	--	--	--	--	--
NAH-090-86	201	1	--	--	--	--	--	--
NAH-091-86	201	<1	--	--	--	--	--	--
NAH-092-86	201	<1	--	--	--	--	--	--
NAH-093-86	217	<1	--	--	--	--	--	--
NAH-094-86	201	<1	--	--	--	--	--	--
NAH-095-86	201	<1	--	--	--	--	--	--
NAH-096-86	201	<1	--	--	--	--	--	--
NAH-097-86	201	2	--	--	--	--	--	--
NAH-098-86	201	9	--	--	--	--	--	--
NAH-099-86	201	<1	--	--	--	--	--	--
NAH-100-86	201	2	--	--	--	--	--	--
NAH-101-86	201	<1	--	--	--	--	--	--
NAH-102-86	217	<1	--	--	--	--	--	--
NAH-103-86	201	4	--	--	--	--	--	--
NAH-104-86	201	13	--	--	--	--	--	--
NAH-105-86	201	11	--	--	--	--	--	--
NAH-106-86	201	<1	--	--	--	--	--	--
NAH-107-86	217	<1	--	--	--	--	--	--
NAH-108-86	201	<1	--	--	--	--	--	--
NAH-109-86	201	<1	--	--	--	--	--	--
NAH-110-86	201	<1	--	--	--	--	--	--
NAH-111-86	201	2	--	--	--	--	--	--
NAH-112-86	201	<1	--	--	--	--	--	--
NAH-113-86	201	<1	--	--	--	--	--	--
NAH-114-86	201	2	--	--	--	--	--	--
NAH-115-86	201	<2	--	--	--	--	--	--
NAH-116-86	201	1	--	--	--	--	--	--
NAH-117-86	203	<2	--	--	--	--	--	--
NAH-118-86	201	4	--	--	--	--	--	--
NAH-119-86	201	6	--	--	--	--	--	--
NAH-120-86	201	2	--	--	--	--	--	--
NAH-121-86	201	2	--	--	--	--	--	--
NAH-122-86	201	<1	--	--	--	--	--	--

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Sample description	Prep code	Au NAA ppb					
NAH-123-86	201	<1	--	--	--	--	--
NAH-124-86	201	2	--	--	--	--	--
NAH-125-86	201	<1	--	--	--	--	--
NAH-127-86	203	2	--	--	--	--	--
NAH-128-86	201	<1	--	--	--	--	--
NAH-129-86	201	6	--	--	--	--	--
NAH-130-86	201	<1	--	--	--	--	--
NAH-131-86	201	<1	--	--	--	--	--
NAH-132-86	201	<1	--	--	--	--	--
NAH-133-86	201	<1	--	--	--	--	--
NAH-134-86	201	4	--	--	--	--	--
NAH-135-86	201	<1	--	--	--	--	--
NAH-136-86	201	2	--	--	--	--	--
NAH-137-86	201	1	--	--	--	--	--
NAH-138-86	201	<1	--	--	--	--	--
NAH-139-86	201	<1	--	--	--	--	--
NAH-140-86	201	2	--	--	--	--	--
NAH-141-86	201	<1	--	--	--	--	--
NAH-142-86	201	3	--	--	--	--	--
NAH-143-86	201	<1	--	--	--	--	--
NAH-144-86	201	<1	--	--	--	--	--
NAH-145-86	201	<1	--	--	--	--	--
NAH-146-86	201	<1	--	--	--	--	--
NAH-147-86	201	<1	--	--	--	--	--
NAH-148-86	201	<1	--	--	--	--	--
NAH-149-86	201	<1	--	--	--	--	--
NAH-150-86	201	<1	--	--	--	--	--
NAH-151-86	201	<1	--	--	--	--	--
NAH-152-86	201	2	--	--	--	--	--
NAH-153-86	201	8	--	--	--	--	--
NAH-154-86	201	1	--	--	--	--	--
NAH-155-86	201	1	--	--	--	--	--
NAH-156-86	201	1	--	--	--	--	--
NAH-157-86	201	3	--	--	--	--	--
NAH-158-86	201	2	--	--	--	--	--
NAH-159-86	201	1	--	--	--	--	--
NAH-160-86	201	<1	--	--	--	--	--
NAH-162-86	201	7	--	--	--	--	--
NAH-163-86	201	<1	--	--	--	--	--
NAH-164-86	201	<1	--	--	--	--	--

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Sample description	Prep code	Au NAA ppb						
NAH-165-86	201	<1	--	--	--	--	--	--
NAH-166-86	201	<1	--	--	--	--	--	--
NAH-167-86	201	4	--	--	--	--	--	--
NAH-168-86	201	2	--	--	--	--	--	--
NAH-169-86	201	<1	--	--	--	--	--	--
NAH-170-86	201	1	--	--	--	--	--	--
NAH-171-86	201	<1	--	--	--	--	--	--
NAH-172-86	201	<1	--	--	--	--	--	--
NAH-173-86	217	2	--	--	--	--	--	--
NAH-174-86	201	1	--	--	--	--	--	--
NAH-175-86	201	<1	--	--	--	--	--	--
NAH-176-86	201	3	--	--	--	--	--	--
NAH-177-86	201	<1	--	--	--	--	--	--
NAH-178-86	217	4	--	--	--	--	--	--
NAH-179-86	201	2	--	--	--	--	--	--
NAH-180-86	201	3	--	--	--	--	--	--
NAH-181-86	201	<1	--	--	--	--	--	--
NAH-182-86	201	4	--	--	--	--	--	--
NAH-183-86	201	<1	--	--	--	--	--	--
NAH-184-86	201	<1	--	--	--	--	--	--
NAH-185-86	201	<1	--	--	--	--	--	--
NAH-186-86	201	2	--	--	--	--	--	--
NAH-187-86	217	2	--	--	--	--	--	--
NAH-188-86	201	2	--	--	--	--	--	--
NAH-189-86	201	<1	--	--	--	--	--	--
NAH-190-86	201	<1	--	--	--	--	--	--
NAH-191-86	201	1	--	--	--	--	--	--
NAH-192-86	201	<1	--	--	--	--	--	--
NAH-193-86	201	<1	--	--	--	--	--	--
NAH-194-86	201	<1	--	--	--	--	--	--
NAH-195-86	201	<1	--	--	--	--	--	--
NAH-196-86	201	<1	--	--	--	--	--	--
NAH-197-86	201	<1	--	--	--	--	--	--
NAH-198-86	201	2	--	--	--	--	--	--
NAH-199-86	201	1	--	--	--	--	--	--
NAH-200-86	201	<1	--	--	--	--	--	--
NAH-201-86	201	1	--	--	--	--	--	--
NAH-202-86	201	<1	--	--	--	--	--	--
NAH-203-86	201	2	--	--	--	--	--	--
NAH-204-86	201	<1	--	--	--	--	--	--

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DATE : 26-NOV-86
P.O. # : NONE
NORMA CLAIMS

CC: J. SHEARER

Sample description	Prep code	Au NAA ppb						
NAH-205-86	201	<1	--	--	--	--	--	--
NAH-206-86	201	<1	--	--	--	--	--	--
NAH-207-86	201	3	--	--	--	--	--	--
NAH-208-86	201	1	--	--	--	--	--	--
NAH-209-86	201	<1	--	--	--	--	--	--
NAH-210-86	201	<1	--	--	--	--	--	--
NAH-211-86	201	4	--	--	--	--	--	--
NAH-212-86	201	4	--	--	--	--	--	--
NAH-213-86	201	<1	--	--	--	--	--	--
NAH-214-86	201	<1	--	--	--	--	--	--
NAH-215-86	201	4	--	--	--	--	--	--
NAH-216-86	201	<1	--	--	--	--	--	--
NAH-217-86	201	2	--	--	--	--	--	--
NAH-218-86	201	<1	--	--	--	--	--	--
NAH-219-86	201	<1	--	--	--	--	--	--
NAH-220-86	201	4	--	--	--	--	--	--
NAH-221-86	201	3	--	--	--	--	--	--
NAH-222-86	201	<1	--	--	--	--	--	--
NAH-223-86	201	2	--	--	--	--	--	--
NAH-224-86	201	<1	--	--	--	--	--	--
NAH-225-86	201	<1	--	--	--	--	--	--
NAH-226-86	201	<1	--	--	--	--	--	--
NAH-227-86	201	<1	--	--	--	--	--	--
NAH-228-86	201	<1	--	--	--	--	--	--
NAH-229-86	201	5	--	--	--	--	--	--
NAH-230-86	201	<1	--	--	--	--	--	--
NAH-231-86	201	1	--	--	--	--	--	--
NAH-232-86	201	<1	--	--	--	--	--	--
NAH-233-86	201	<1	--	--	--	--	--	--
NAH-234-86	201	<1	--	--	--	--	--	--
NAH-235-86	201	<1	--	--	--	--	--	--
NAH-236-86	201	21	--	--	--	--	--	--
NAH-237-86	201	4	--	--	--	--	--	--
NAH-238-86	201	4	--	--	--	--	--	--
NAH-239-86	201	<1	--	--	--	--	--	--
NAH-240-86	201	1	--	--	--	--	--	--
NAH-241-86	201	1	--	--	--	--	--	--
NAH-242-86	201	4	--	--	--	--	--	--
NAH-243-86	201	1	--	--	--	--	--	--
NAH-244-86	201	<1	--	--	--	--	--	--

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VANCOUVER, B.C.
V6C 1A5

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INVOICE # : I8620950
DATE : 26-NOV-86
P.O. # : NONE
NORMA CLAIMS

CC: J. SHEARER

Sample description	Prep code	Au NAA ppb					
NAH-245-86	201	<1	--	--	--	--	--
NAH-246-86	201	<1	--	--	--	--	--
NAH-247-86	201	1	--	--	--	--	--
NAH-248-86	201	2	--	--	--	--	--
NAH-249-86	201	1	--	--	--	--	--
NAH-250-86	201	2	--	--	--	--	--
NAH-251-86	201	1	--	--	--	--	--
NAH-252-86	201	1	--	--	--	--	--
NAH-253-86	201	<1	--	--	--	--	--
NAH-254-86	201	<1	--	--	--	--	--
NAH-255-86	201	<1	--	--	--	--	--
NAH-256-86	201	5	--	--	--	--	--

Certified by ..*Hart Bichler*..

WALLER
DRILL LOGS

PROPERTY: WALLER CLAIMS (BANKS ISLAND)

HOLE NUMBER: WB - 1

SHEET NUMBER: 1

SECTION FROM: TO:

DIAMOND DRILL RECORD

LOCATION: LAT On Waller Geophy. Grid
 DEP approx 480. E on Line 2 N
 ELEVATION OF COLLAR 60 ft f
 TUM
 BEARING easterly
 SECTION AT START: DIP -46°

STARTED: June 19th, 1964
 COMPLETED: June 20th, 1964
 ULTIMATE DEPTH: 50 ft.
 PROPOSED DEPTH:

DEPTH FEET	FORMATION	FROM	TO	WIDTH OF SAMPLE	Gold	Ag	Zn	Cu
	Start 31484	0 - 5		5.0	tr	tr	.15	.08
0 - 11	brownish hornfelsic siliceous lg. meta - sediments	5 - 11		6.0	"	"	.12	
	containing 2 - 6% diss py and pyrr - - banding @ 34°	17 - 22		5.0	"	"	.15	.06
11 - 50	90% lms (marble-banded) 10% incl m.s. as above - banding @ 20° - gouge @ 32, 37, 38							
	(E N D)							
	95% C. R.							
	Test of S.P anomaly.							

PROPERTY WALLER CLAIMS (BANKS ISLAND)

HOLE NUMBER WB - 3

SHEET NUMBER 1

SECTION FROM _____ TO _____

DIAMOND DRILL RECORD

LOCATION: LAT AS WB - 1

STARTED June 20th, 1964

DEP " " "

COMPLETED June 20th, 1964

LOCATION OF COLLAR " "

ULTIMATE DEPTH 16 ft.

JM _____

PROPOSED DEPTH _____

LOCATION AT START: BEARING _____
DIP -90°

DEPTH FEET	FORMATION	FROM	TO	WIDTH OF SAMPLE	Gold	Ag	Zn	Cu
	Start 31479	0 - 5		5.0	tr	tr	.05	.06
0 - 15	Pyritic meta-seds as in WB-1	5 - 10		5.0	tr	tr	.07	
		10 - 14		4.0	"	"	.22	
	- Some banding @ 30°	14 - 16		2.0	"	"	.72	
	- 14 - 16 -- 8% S ₂	20 - 22		2.0	"	"	.17	
0 - 24	As above but 50% intermixed banded marble							
	- banding @ 40°; occ pyrr							
0 - 46	85% marble 15% skarn and hornfelsic m.s. - darker section slightly min.							
	(E N D)							
	S.P. and assess work hole.							
	95% C. R.							

PROPERTY WALLER CLAIMS (BANKS ISLAND)

HOLE NUMBER WB - 4

DIAMOND DRILL RECORD

SHEET NUMBER 1

SECTION FROM _____ TO _____

LOCATION: LAT - Above high tide on W side

STARTED June 21st, 1964

DEP Waller Bay, approx 980 E on Line 14S

COMPLETED June 21st, 1964

ELEVATION OF COLLAR 10'

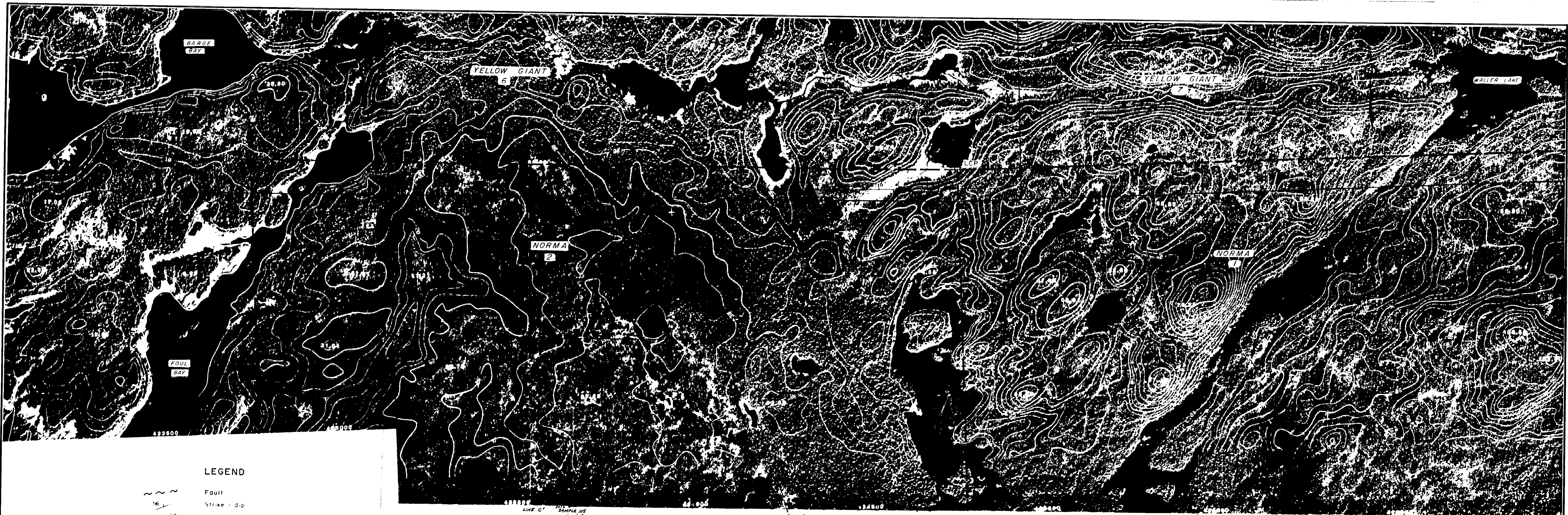
ULTIMATE DEPTH 70 ft.

TUM _____

PROPOSED DEPTH _____

DIRECTION AT START: BEARING West
DIP -38°

DEPTH FEET	FORMATION	FROM	TO	WIDTH OF SAMPLE	Gold	Ag	Zn	Cu
	Start 31487	19.5	23	3.5	tr	tr	.20	
0 - 70	Banded white and gray marble.							
	- 20% Arg hornfelsic meta - seds.							
	- Banding 30 - 45°							
	19.5 - 23							
	Sl. pyrr in hornfelsic m.s.							
	45 - 48, 49 - 50, 63 - 67 MISSING.							
	(E N D)							
	Drilled to test strong S.P. anomaly plus assessment work							
	- no obvious mineralization.							



LEGEND

- Fault
- Strike / d.p
- Plunge of minor folds
- Outcrop
- Soil sample number
Assay value in parts per billion
- Rock sample number
Assay value in parts per billion

- 4** KIM, biotite Quartz Monzonite, unaltered, fine to medium crystalline, equigranular
 - 4b quartz - feldspar, Fine grained, usually pyritized
 - q = quartz alteration
- 3** Undifferentiated Diorite, Quartz diorite
 - 3a diorite
 - 3b quartz diorite
 - 3c granodiorite

- 2** Marble
 - 2b skarn
 - 2cs calc-silicate
- 1** Undifferentiated Siltstone, Argillite, shales with minor quartzite, schist and hornfels
 - 1b argillaceous Quartzite
 - 1c calcareous Siltstone
 - 1cs siltstone with bands of calc-silicate
 - 1g graphitized siltstone and shale
 - 1d hornfels

To accompany assessment report entitled "Geochemical and Prospecting Report" on NORMA Claims by J.T. Shearer, M.Sc., dated December 19, 1986

WORK BY JS, BA, PH
DRAWN BY BA, JS
NTS 103 G / B

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,629

SCALE 1:5,000

COELTON VENTURES

SKEENA M.D.
DETAIL GEOLOGY AND ORTHOPHOTO

PROJECT	NORMA CLAIMS
ENG.	TRM ENGINEERING LTD.
DATE	OCTOBER 30, 1986
FIGURE	5