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ASSESSMENT REPORT  
ON  
DIAMOND DRILLING WORK  
ON THE FOLLOWING

DELTA.....#3622(11)

located

45 KM NORTH-NORTHWEST OF  
STEWART, BRITISH COLUMBIA  
SKEENA MINING DIVISION

56 degrees 22 minutes latitude  
130 degrees 07 minutes longitude

N.T.S. 104B/8E

PROJECT PERIOD: Aug. 27 - Oct. 4, 1986

ON BEHALF OF  
TEUTON RESOURCES CORP.  
TERRITORIAL PETROLEUM VENTURES INC.  
VANCOUVER, B.C.

REPORT BY

D. Cremonese, P. Eng.  
200-675 W. Hastings  
Vancouver, B.C.

Date: Feb. 12, 1987

15,645

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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## 1. INTRODUCTION

### A. Property, Location, Access and Physiography

The Delta claim is situated approximately 6 km north of the airstrip at Tide Lake Flats (just north of the old Granduc concentrator). Access from Stewart, 45 air-kilometers to the south, is by helicopter; alternative access is via the Granduc road to the aforementioned air strip and thence by helicopter. Access by foot is possible from the terminus of the Granduc Road system near the old East Gold mine, however this would entail a hazardous crossing over a highly crevassed glacier.

The claim is bisected by the west-east trending "Little Canoe" Glacier, the first valley glacier north of the giant Frankmackie Glacier, from which a small stream drains eastward into Toe Lake. An extensive icefield encroaches on the western and northern margins of the claim.

Terrain is steep throughout except on the topland near the 1,600 m level just below the icecap on the Delta claim, an area marked by gently sloping eskers and patches of glacially scoured rock. From the upland, sharply incised creeks drain southward into the valley glacier. Vegetation, consisting of mountain balsam and hemlock, thickens gradually downslope from treeline at the 1,300 m mark. Above this, alpine grass, dwarf bushes and mountain flowers gradually thin until only lichens grow.

### B. Status of Property

Relevant claim information is summarized below:

Name	Record No.	No. of Units	Record Date
Delta	3622	16	Nov. 1, 1982

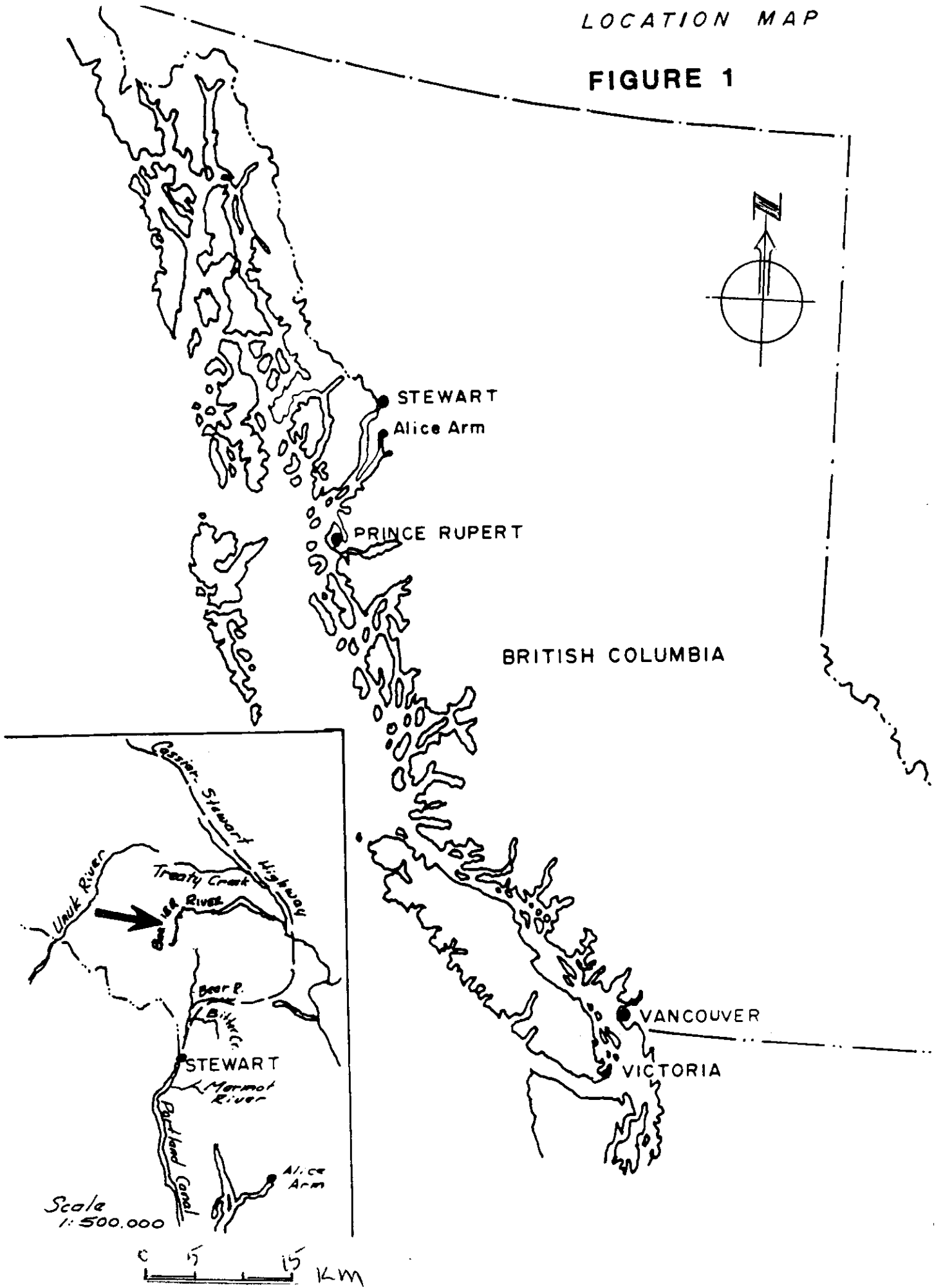
The claim is shown on Fig. 2 and is owned by Teuton Resources Corp. At the time the work was being carried out on the claim, it was under option to Territorial Petroleum Ventures Inc.

### C. History

Very little is known of the history of the claim during the early periods of exploration of the Stewart Complex, that is, during the span from 1900 to 1940. It is likely that the claims were just beyond the ambit of convenient exploration from the supply center of Stewart. Also, extensive snow and ice cover in the area, which is marked by large ice and snow fields, was probably much more extensive then than now.

LOCATION MAP

FIGURE 1



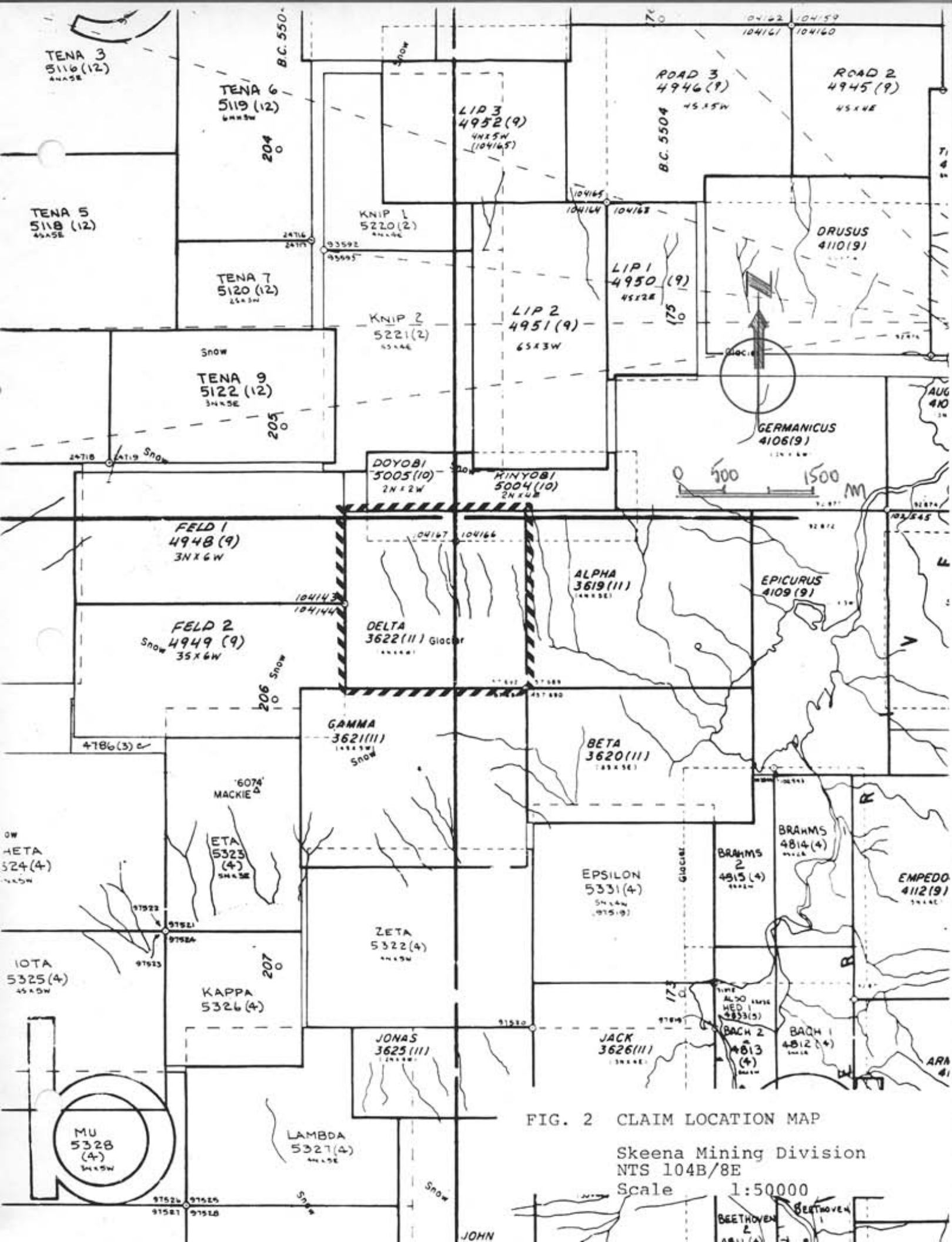
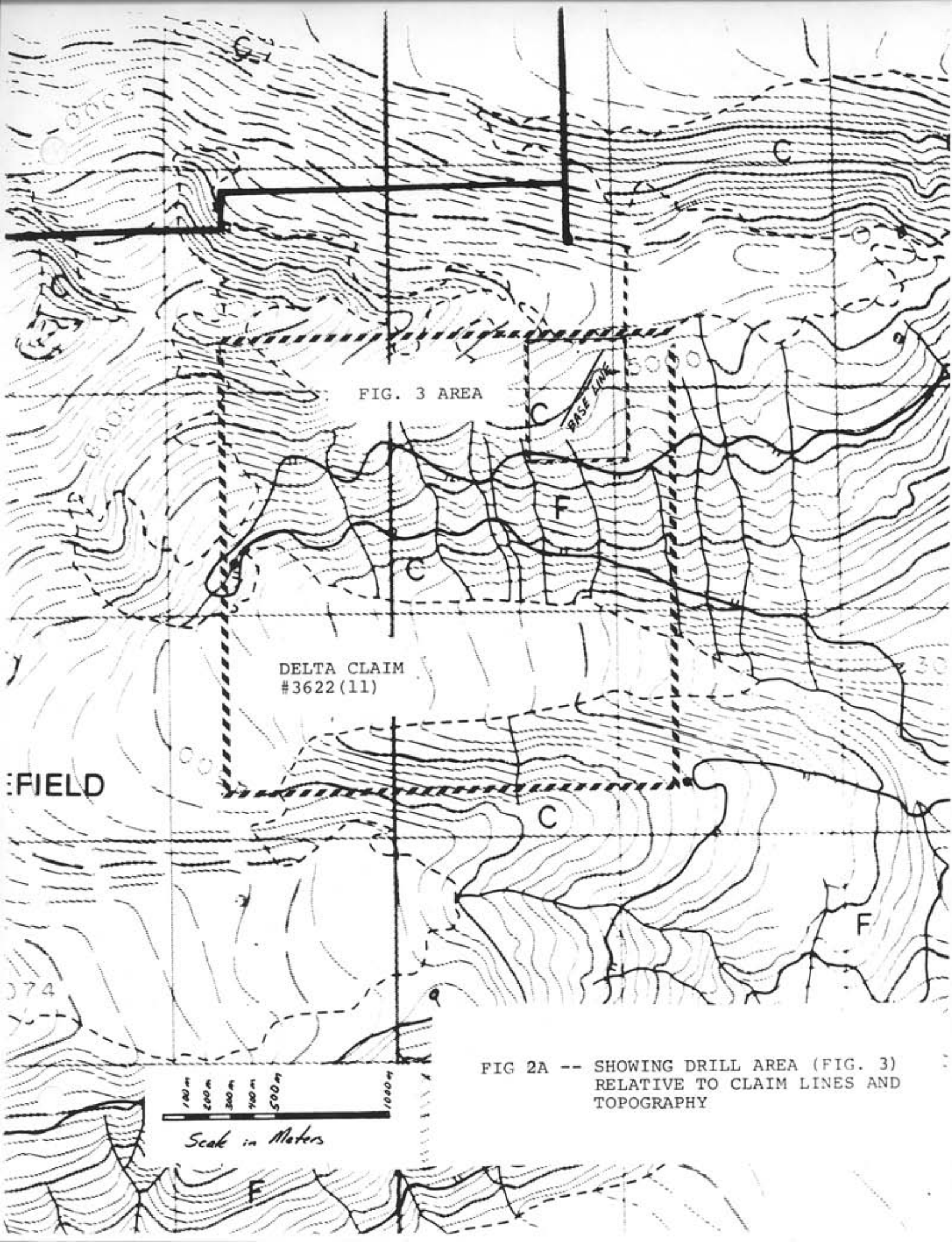


FIG. 2 CLAIM LOCATION MAP

Skeena Mining Division  
NTS 104B/8E

Scale 1:50000



In 1966/67 the claims area formed part of a regional study by the B.C. Department of Mines under the direction of E.W. Grove, P.Eng (Ref.3). The area remained dormant until the early 1980's when rising precious metal values prompted many exploration companies to initiate new reconnaissance programs. Teuton Resources Corp. staked the ground in 1982 under the presumption that geology similar to that occurring at the Sulphurets property 15 km to the north would be exposed by retreating ice. The assumption was partly confirmed by a prospecting expedition in 1983 (attended by the author) which uncovered a large alteration zone made up, among other units, of sericite schists and pyritized sediments.

Geochemical stream sediment and rock character sampling during a reconnaissance program carried out in 1985 by Teuton Resources Corp. (Ref. 7) resulted in the discovery of a number of samples highly anomalous in gold and silver.

#### D. References

1. ALLDRICK, D.J.(1984); Geological Setting of the Precious Metals Deposits in the Stewart Area, Paper 84-1, Geological Fieldwork 1983, B.C.M.E.M.P.R.
2. GROVE, E.W. ET AL (1982); Unuk River-Salmon River-Anyox Area. Geological Mapping 1:1000000 B.C.M.E.M.P.R.
3. GROVE, E.W.(1982); The Frankmackie Glacier Property, A Summary Report Compiled for Teuton Resources Corp. (Private).
4. GROVE, E.W. (1971); Geology of Mineral Deposits of the Stewart Area. Bulletin 58, B.C.M.E.M.P.R.
5. CREMONESE, D. (1983); Assessment Report on Prospecting Work on the Following Claims, Alpha #3619(112) and Delta #3622(11). NTS 104B/8E.
6. GROVES, W.D. & SHELDRAKE, R.(1984); Assessment Report on Geophysical Work (Airborne EM and Mag) on the Bowser River Properties of Teuton Resources Corp. NTS 104B/8E
7. CREMONESE, D., P.ENG. (1985); Assessment Report on Geological and Geochemical Work on the Alpha and Delta Claims, NTS 104B/8E.
8. SHEARING, RALPH (1986); Verbal communications and access to field notes and field maps.
9. GROVES, W.D., PHD, P.ENG. (1986); Verbal communications and field notes.

### E. Summary of Work Done

Base camp preparation, core logging, core splitting, core sampling and field supervision of the Delta drilling program was carried out by contractor Quest Canada Exploration Services Inc. as part of a five week program on certain of Teuton's claims in the Stewart area. This project spanned the period Aug. 27 - Oct. 4, 1986 (including mobilization and demobilization of crews from and to Vancouver). Base camp was established on the Alpha claim (adjoining directly to the east) on Sept. 1, consisting of four tents (wooden frame) with all materials and supplies brought in by helicopter from the Tide Flats strip. Helicopter support was provided by an Okanagan Helicopters Hughes 500 which was stationed at the Brucejack Lake camp, 12 km to the north-northwest.

Field supervision and drill logistics were the responsibility of geologist Ralph Shearing.

On Sept. 10, 1986, the author examined the Delta claim in the company of consultant W.D. Groves, Ph.D., P.Eng. Mr. Groves had been directed by Territorial Petroleum Ventures Inc., optionee of the claim at that time, to select drill targets based on the data collected to date. Targets were isolated in a zone of structural crumpling and faulting-feathering off a cross fault discovered in 1985 (which yielded several hand samples carrying free gold and tetrahedrite in a small quartz vein). On Sept. 13, 1986 Ralph Shearing escorted diamond drill contractor, Sylvain Leduc, over the proposed drill sites.

On Sept. 19, 1986 (after a contract had been signed between Adanac Drilling and Territorial), drill camp, drill crew and drilling equipment were mobilized by helicopter from the Tide Lake air strip to the property. The contract called for a minimum of 1,000 feet of drilling. After five short NQ holes were completed, totalling 300.2 m, the drill crew and portions of the drilling equipment were demobilized on Sept. 26 and 27. Thereafter Ralph Shearing and five assistants demobilized the base camp, with the last helicopter trip occurring on Sept. 30, 1986.

Because of the prospect of winter setting in, the entire drill core was flown out and transported to Stewart for logging and splitting. The core was logged, split and sampled in a large garage appended to a house owned by Hans Foerster (at 4th and Brightwell in Stewart). [The unsampled core is scheduled to be reflown into the property and stored in a proper core shack during the 1987 field season.]

Core samples, 267 in all, were analysed by Min-En Laboratories of North Vancouver, B.C., for gold (ppb tolerance) and silver (ppm tolerance) by fire assay and spectrophotometry.



## 2. TECHNICAL DATA AND INTERPRETATION

### A. Regional Geology

The Delta claim lies in the Stewart area east of the Coast Crystalline Complex and within the western onlap boundary of the Bowser Basin. Rocks exposed in the area belong to the Mesozoic Hazelton Group and have been folded on regional NW-SE axes, cut by faults and selective tectonism, locally hydrothermalized and intruded by plugs of both Cenozoic and Mesozoic age.

Locally, within the Hazelton Group, Lower Jurassic volcanic and sedimentary rocks of the Unuk River Formation are unconformably overlain by the Middle Jurassic marine and non-marine volcanics and sediments of the Betty Creek Formation, the volcano-sedimentary Upper Jurassic Salmon River Formation, and the post-accretion fine clastic basinal Nass Formation.

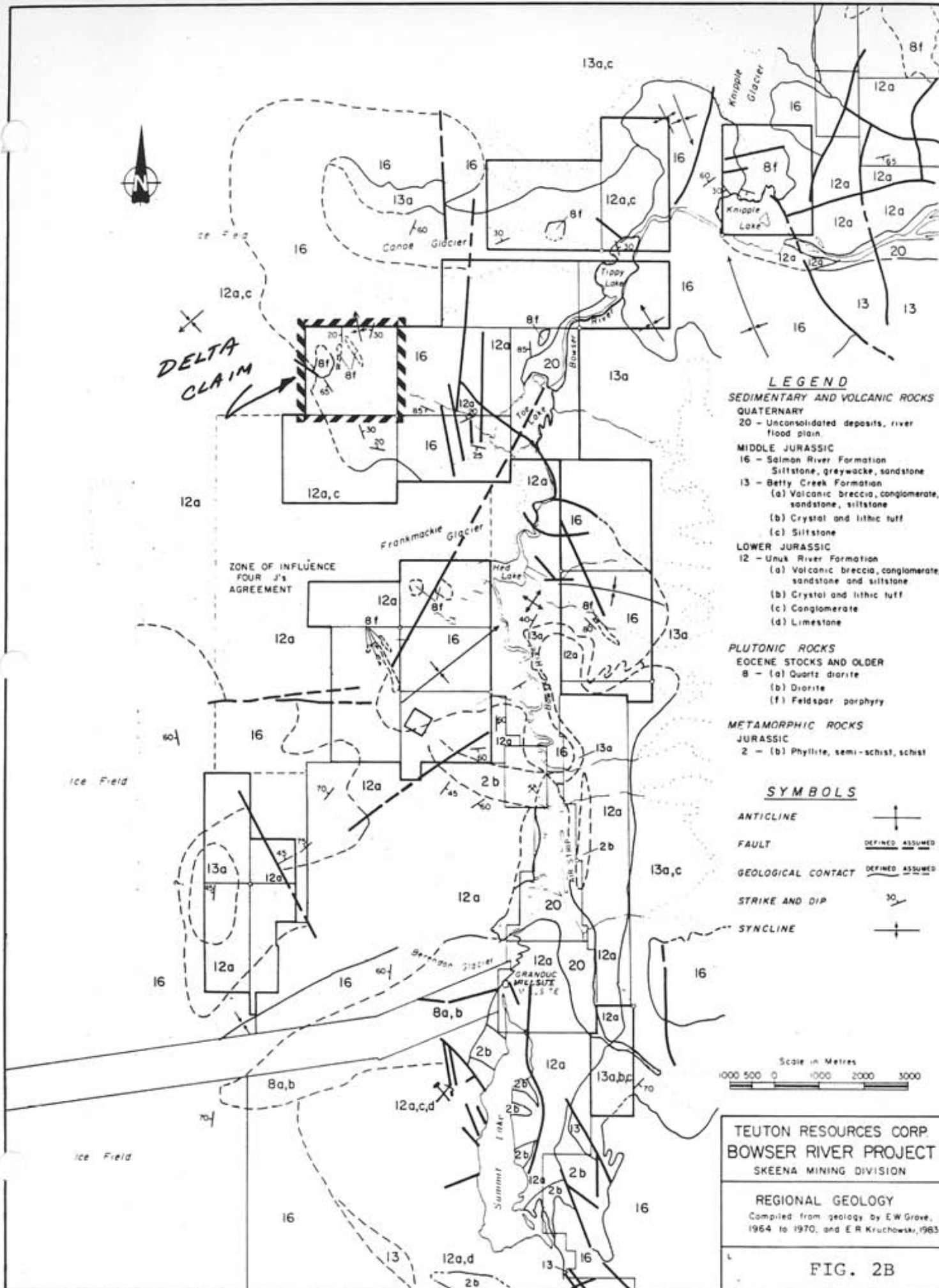
The oldest rocks in the area belong to the Lower Jurassic Unuk River Formation which forms a north-northwesterly trending belt extending from Alice Arm to the Iskut River. It consists of green, red and purple volcanic breccia, conglomerate, sandstone and siltstone with minor crystal and lithic tuff, limestone, chert and coal. Also included in the sequence are pillow lavas and volcanic flows.

In the study area the Unuk River Formation is overlain by Lower Middle and Middle Jurassic rocks from the Betty Creek and Salmon River Formations, respectively. A variable to high angle unconformity is in places traceable between the underlying (steeper) Unuk River cycle of volcanics and overlying (flatter) cycle of often similar-looking Betty Creek volcanics. Geometry of the interface between the Betty Creek and overlying Salmon River is, at most, somewhat disconformable: the Nass Formation overlies as a sedimentary quiet basin-filling onlap with only a relatively minor erosional component from the island-arc and/or accreted terrane.

The Betty Creek Formation consists of submarine pillow lavas, broken pillow breccias, andesitic and basaltic flows, plus (emergent) green, red and purple volcanic breccia, conglomerate, sandstone and siltstone with minor crystal and lithic tuff, limestone, chert and coal. Also included in the sequence are pillow lavas and volcanic flows.

According to Grove (Ref. 2 & 3), the majority of the rocks from the Hazelton Group were derived from the Hazelton age andesitic volcanoes subsequently rapidly eroding to form overlapping lenticular sedimentary wedges varying laterally in grain size from breccia to siltstone.

Intrusives in the region are dominated by the granodiorite

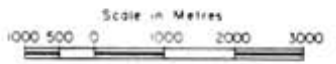


**DELTA CLAIM**

**ZONE OF INFLUENCE  
FOUR J's  
AGREEMENT**

- LEGEND**
- SEDIMENTARY AND VOLCANIC ROCKS**
- QUATERNARY**  
20 - Unconsolidated deposits, river flood plain.
- MIDDLE JURASSIC**  
16 - Salmon River Formation  
Siltstone, greywacke, sandstone  
13 - Betty Creek Formation  
(a) Volcanic breccia, conglomerate, sandstone, siltstone  
(b) Crystal and lithic tuff  
(c) Siltstone
- LOWER JURASSIC**  
12 - Unuk River Formation  
(a) Volcanic breccia, conglomerate, sandstone and siltstone  
(b) Crystal and lithic tuff  
(c) Conglomerate  
(d) Limestone
- PLUTONIC ROCKS**  
**Eocene stocks and older**  
8 - (a) Quartz diorite  
(b) Diorite  
(f) Feldspar porphyry
- METAMORPHIC ROCKS**  
**JURASSIC**  
2 - (b) Phyllite, semi-schist, schist

- SYMBOLS**
- ANTICLINE**
- FAULT**
- GEOLOGICAL CONTACT**
- STRIKE AND DIP**
- SYNCLINE**



**TEUTON RESOURCES CORP.**  
**BOWSER RIVER PROJECT**  
SKEENA MINING DIVISION

**REGIONAL GEOLOGY**  
Compiled from geology by E.W. Grove,  
1964 to 1970, and E.R. Kruchowski, 1963

**FIG. 2B**

of the Coast Plutonic Complex (to the west). Some of the smaller intrusive plugs in the study area range from quartz monzonite to granite and are likely related outlyer processes associated with the Coast Plutonic Complex.

It is currently believed that subvolcanic, Mesozoic, K-feldspar rich stocks of the andesite volcano age, plus associated hydrothermal emanations, were the main gold mineralizers in the study area. Small Cenozoic feldspar porphyry dykes, sills and small plugs and related quartz-sulphide and epithermal phenomena (e.g., gossans, silica/precious metal and Buchanan Funnel effects), reworking deeper metalliferous units, also appear to be of economic importance.

Regional geology after Grove (Ref. 2) is presented in this report as Fig. 2B.

## B. Property Geology

In general, the western margin of the property is underlain by Lower Jurassic volcanics and sediments of the Unuk River Formation. These rocks are unconformably overlain to the east by Middle Jurassic sediments of the Salmon River Formation. The sediments have been folded into synclines and anticlines with northerly trending fold axes. Small Eocene feldspar porphyry intrusions, important as mineralizers in the region, outcrop in the northwest quadrant of the Delta claim.

The area of drilling detailed in Fig. 3 is referenced to claim lines and topography in Fig. 2A. W. D. Groves, P.Eng., Ph.D. has described the local geology of the Fig. 3 area as follows:

"A calcareous rhyolite tuff bed ["crystal tuffs" -- Fig. 3], flat to shallow dips into the hill, is cross-cut by a N30W/steep cross fault. It is probably originally a reverse fault as the section is end crumple-inflected for several hundred meters on each side. Below the tuff bed is a dark carbonaceous argillite ["black shales and argillites" -- Fig. 3] containing some lime sections: these are fossiliferous. Where the topography planes gently across the tuff bed in the drill area, a variety of mineralized minor steep dragfold nose dilations, 45 degree tension faults, etc., bear either pyritic sulphides (the fold noses) or tetrahedrite-rich mineralization (also in one location containing visible gold) in the minor faults. These appear to be minor structural "feathers" off the main cross fault. The main fault plane itself does not appear to be mineralized."

### C. Drill Hole Data and Core Geochemistry

Five NQ holes were drilled from two collars for a total depth of 300.2 meters. A geological plan showing drill locations is presented in this report as Fig. 3. Relevant information follows:

<u>Hole</u>	<u>Inclination</u> (degrees)	<u>Azimuth</u> (degrees)	<u>Length</u> (meters)
86-1	-45	048	56.5
86-2	-45	077	56.7
86-3	-45	097.5	55.5
86-4	-45	120	71.0
86-5	-45	144	60.5

The core logs were prepared by Ralph Shearing, field geologist (see Appendix III). Sulphide mineralization noted was predominantly pyrite, ranging from less than 1% to as much as 15% in places. Minor, occasional tetrahedrite(?) mineralization was also noted. Mr. Shearing also spotted what he believed to be electrum in Hole 86-1 at a few locations. The author had the opportunity to observe the same sections -- mineralization present was more in the character of chalcopyrite than electrum.

Most of the core was analyzed by rock geochemistry for gold and silver. In order to avoid duplication, upper sections of certain holes were not assayed because virtually identical sections were available (holes drilled from the same collar). Assay results are presented in Appendix IV: Assay Certificates. Sample numbers are keyed to sample hole and sampling interval in meters. Almost all of the sample intervals were over one meter.

Only 3 intervals can be characterized as anomalous (and they are only "weakly" anomalous) based on a 200 ppb gold threshold -- a somewhat arbitrary number chosen by reference to a number of rock geochemistry studies in the general area. They are:

Interval	Gold (ppb)
86-4 21-22 (m)	294
86-4 25-26 (m)	233
86-5 21-22 (m)	375

It appears that the 21-22m intervals in holes 86-4 and 86-5 may originate in the same mineralized horizon. No anomalous silver values were obtained.

Min-En's rock sample treatment (preparation) is as follows: samples are dried at 60 degrees C, crushed on a primary crusher, then crushed on a primary crusher to minus 10 mesh before being

split on a Jones' riffle. After splitting a 500 gram subsample is obtained which is then pulverized to minus 100 mesh. After that the sample is mixed, rolled and quartered.

The assay for gold is carried out on a one half assay ton sample, fire assay temperature 1750 degrees C using standard fluxes. The resulting lead button is cupelled, leaving a small bead which is then dissolved in aqua regia and analysed by AA for gold content.

The assay for silver proceeds on a 5.00 gram subsample, where the subsample is dissolved in aqua regia followed by chemical separation and filtering. The amount of silver is determined by AA.

#### D. Discussion and Conclusions

The drilling results were uniformly disappointing; none of the five holes encountered high-grade gold and silver mineralization of the type noted on surface during the previous year's program [Note: during a 1986 surface examination abundant tetrahedrite mineralization was visible in minor feather faults in the drill zone.]

A possible explanation is given by W.D. Groves, Ph.D., P.Eng., as follows: "The drilling indicates that the tetrahedrite (plus gold and silver) mineralization sampled on surface attenuates downward (that is, upgrades upward). The upper contact of the tuff was not inspected in 1986: it should definitely be looked at during the upcoming field season.

Soil geochemistry studies conducted along the strike of the tuff bed to the west-southwest (results received after the drilling was completed) indicate several areas of anomalous gold content. More surface work is required to understand the local geological setting."

Respectfully submitted,



D. Cremonese, P.Eng.  
Feb. 12, 1987

## APPENDIX I -- WORK COST STATEMENT

Field Personnel -- Period Sept. 19 to Oct. 2, 1986		
R. Shearing, Geologist (Supervision and logging)	11 days @ \$220/day	\$ 2,420
T. Bell, Assistant (core splitting/sampling)	3 days @ \$165/day	495
I. Clark, Assistant (splitting/sample transport)	2 days @ \$137.50/day	275
R. Turner, Assistant (splitting/sampling)	1 day @ \$137.50/day	137
A. Hoppenrath, Assistant (sample transport)	1 day @ \$137.50/day	137
Helicopter -- Vancouver Island Hel. (Stewart Base)		
Drill gear, camp, personnel, moves	19.3 hours total @ \$516/hr.	9,959
Food -- 18 man-days (excl. drillers) @ \$30/man-day		540
Diamond drilling contract - Adanac Drilling	1000 ft. minimum: NQ	25,000
Assays		
Rock geochem - Min-En Laboratories		
Rock geochem - Ag, fire Au	Unit - \$8.50	
Rock sample preparation:	Unit - <u>\$3.00</u>	
Total: 267 samples @	\$11.50	3,070
Share of Project Support Costs (Field crew):		
(Share = 18 man-days/192 man-days, or 9.4%)		
Personnel: mob/demob, base camp set-up	..... 9.4% of \$6,050	569
Supplies, transportation, equipment rental, truck rental, radio, wood frames, helicopter mob/demob, accommodation, etc.	..... 9.4% of \$18,464	1,736
Report Costs		
Report and map preparation, compilation and research		
D. Cremonese, P.Eng.,	2 days @ \$300/day	600
R. Shearing	1 day @ \$220/day	220
Draughting -- F. Chong/J. Rhodes		120
Word Processor - 4 hrs. @ \$25/hr.		100
Typing logs		180
Copies, report, jackets, maps, etc.		<u>70</u>
TOTAL.....		<u>\$45,628</u>

**APPENDIX II - CERTIFICATES**

I, Dino M. Cremonese, do hereby certify that:

1. I am a mineral property consultant with an office at Suite 200-675 W. Hastings, Vancouver, B.C.
2. I am a graduate of the University of British Columbia (B.A.Sc. in metallurgical engineering, 1972, and L.L.B., 1979).
3. I am a Professional Engineer registered with the Association of Professional Engineers of the Province of British Columbia as a resident member, #13876.
4. I have practiced my profession since 1979.
5. This report is based upon work carried out on the Delta mineral claim, Skeena Mining Division in Sept. 1986.
6. I am a principal of Teuton Resources Corp., beneficial owner of the Delta claim: this report was prepared solely for satisfying assessment work requirements in accordance with government regulations.

Dated at Vancouver, B.C. this 12 day of February, 1987.



D. CREMONESE, P. ENG.

## CERTIFICATE

I, Ralph Edward Shearing, of 3433 West 12th Ave., Vancouver, B.C., DO HEREBY CERTIFY THAT:

1. I am a Fellow of the Geological Association of Canada. Membership #F4366.
2. I am Professional Geologist registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. Membership #40288.
3. I am President of Quest Canada Exploration Services Inc., a geological consulting and services company, with business office at 302-119 West Pender St., Vancouver, B.C.
4. I am a graduate of the University of British Columbia with a degree of B.Sc., Geology, 1981.
5. I have been active in mineral exploration since 1979 as follows:
  - a. 1979 - Summer employee with St. Joseph Explorations Limited; Pb,Zn,Au,Ag and U exploration in the Yukon and B.C.
  - b. 1980 - Summer employee with Sulpetro Minerals Limited; Pb,Zn,Au,Ag and U exploration in the Yukon and Northern B.C.
  - c. 1981-82 - Permanent employee with Sulpetro Minerals; Pb, Zn,Au and Ag exploration in the Yukon and northern B.C.. Geological and geophysical exploration for Au,Ag,Cu,Pb and Zn in northwestern Quebec and northern Ontario.
  - d. 1983 - present - Independent consulting geologist with Quest Canada Exploration Services Inc. Geological and geophysical exploration for Au,Ag,Pb and Zn in central B.C.
6. I managed the exploration (drilling) program conducted during Sept. 1986 on the Delta claim located north of Stewart, B.C. I also logged the core (see Appendix III - Drill Logs) obtained during the drill program on the Delta claim.

Dated this 12th day of February, 1987



Ralph Shearing, F.G.A.C., P. Geol.(Alta.)



## CERTIFICATE

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Dated this 12th day of February, 1987

Ralph Shearing, F.G.A.C., P. Geol.(Alta.)

**APPENDIX III**

**DIAMOND DRILL HOLE CORE LOGS**

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS	
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	0.33 m	Casing									
0.33	0.44 m	xtl tuff	Cream minor gy	micro & minor shards, vfg.		Adularia		6	1-2%		1-2% py in astomizing dark network of rock, also, finely disseminated but mostly confined to dark areas. Poorly developed foliation at 20° to core axis.
0.44	0.60	mylonite fault zone	black	vfg-coarse		limonite			1%		Black carbonaceous zone. Main zone is mylonitic ~ 100 mm with a small coarser brxx zone ~ 8 cm just below. Fracture at 45° to core axis. Slightly ground core. Central section has extensive sulphide boxwork.
0.60	0.88	xtl tuff	Cream gy	micro- large clast like adularia		SiO <sub>2</sub>		35	2-3% py		Very similar to 0.33-0.44. Slightly more mafics and py. Limonite or fractures. Py veinlets up to 2 mm wide.
0.88	0.96	fracture zone in xtl tuff	br-cream			SiO <sub>2</sub> limonite			2%		Broken core, limonite fracture zone in xtl tuff.
0.96	2.90	xtl tuff	dk gy to cream			SiO <sub>2</sub> (less) Adularia			1% py		50% mafics, 40% fsp (Ad) less qtz fractures 30-40% to core axis - fractures have up to 1 cm limonite envelope. Good xtl tuff with heavy mafic content and well developed Ad and moderate SiO <sub>2</sub> . Ore fracture opposite to majority (update) at 20° to axis.
2.90	2.94	Clay	mud bn.	Clay		Clay					Clay seam, hard packed. Contact sharp 10° to core axis.
2.94	3.66	xtl tuff	dk. gy to cream			SiO <sub>2</sub> Ad			1% py		As 0.96 - 2.90 - 5-10% cream qtz stringers.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS	
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
3.66	3.77	Clay & brxx fault zone	red-br			limonite clay			?		1st 6 cm is red brown clay with small brxx fragments, last 5 is brxx with minor clay.
3.77	4.26	Massive xtl tuff	cream lt. gy.	Micro		Ad	Tr tet?		1-2% py Tr tet?		Disseminated fractures @ 45° to core axis. Py mostly occurs as disseminated blebs < 1 mm in size. Ad is more massive and slightly gy-cream in color. Strong SiO <sub>2</sub> flooding.
4.26	4.74	Broken limonite xtl tuff	red-br to cream	micro to vfg		limonite SiO <sub>2</sub>	Tr tet? vfg		2% py Tr tet.		Broken limonitic xtl tuff - fracture zone - fractures @ ~ 60° to core axis - some mm sized py veinlets with trace tet.
4.74	6.00	Massive xtl-tuff				SiO <sub>2</sub>			2-3% py		Massive xtl tuff - 2-3% py veinlets. Strong SiO <sub>2</sub> flooding - fractures @ 55° to core. @ 55° to core axis.
6.00	6.30	Silicified xtl tuff	white-gy minor limonite			SiO <sub>2</sub> strong limonite			2-3% py		Mineral segretation @ 65° to core axis. SiO <sub>2</sub> flooding and irregular blob type "vein".
6.30	6.66	xtl tuff				SiO <sub>2</sub> moderate limonite			2-3 % py		Broken and limonitic, less qtz than previous section, strongly fractured.
6.66	6.91	xtl tuff	gy-cream	Massive		SiO <sub>2</sub>	Electrum		8-10% Py		Small specks of electrum seen mostly on fracture surface with abundant vfg py and possibly tet. Some

INTERVAL		ROCK TYPE	COLOUR	GRAIN SIZE	DESCRIPTION				%	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO				TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE			
										electrum seen in py . Py veinlets 50° to core axis.	
6.91	7.36	xtl tuff	gy-cream		massive	SiO <sub>2</sub>				Similar to electrum section but no veins..	
7.36	7.74	xtl tuff	gy-pink & cream			SiO <sub>2</sub>	Strong			Fractured and strongly silicified. Tr Boronite (1.5 mm speck) Fractures @ 30° to core axis increasing to 60° lower end of section.	
7.74	8.87	xtl tuff	cream-py			SiO <sub>2</sub>		5-10% Py		8.13 3 cm qtz vein @ 40° to core axis. Py occurs in veinlets and dissem. Turquoise green color in core near beginning of section. 8.23 py veinlets @ 50-60° to core axis. Section is moderately fractured @ 2-4 fractures in 8 cm.	
8.87	9.42	Fracture zone	limonite bn-cream			limonite		3% Py		Badly broken, silicified ore	
9.42	9.67	xtl tuff	Cream- white					3% Py		Broken ore	
9.67	10.16	Xtl tuff	Cream- White			SiO <sub>2</sub> (Strong)		5-8% Py		Moderately fractured, py veinlets @ 45° increasing	
10.16	11.41	Xtl tuff	Cream-gn White					Electrum @ 11.12		green color to core. (likely green talc) up to 20% of core. Electrum on slip plane smudged across plane.	
11.41	12.00	Xtl tuff	pale-cream varied grey w/ greenish tinge			SiO <sub>2</sub> flooded Ad extensive		10% Py		10% astomizing qtz veins, py occurs in 2 mm wide py veinlets, disseminated and blobs, minor fracturing, greenish tinge is likely talc.	

BOA SERVICES LTD.

## DRILL LOG

HOLE NO. D 86-1

INTERVAL		ROCK TYPE	DESCRIPTION					FRACTURES PER METRE	%	Sulphide	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS					
12.00	13.45	xtl tuff	Increasing green color			Less SiO <sub>2</sub>			5% Py		Very similar as above; however very few qtz veinlets. Green color strong in tops of section. Also, less py stringers. Bottom 1/2 section is quite massive. Ad with 3% py and 1% qtz veinlets. Fractures minor and at different angles - mostly 35° to core axis. Some stringers 80°.	
13.45	13.90	xtl tuff	"						1% Py		Strongly fractured core, slightly limonitic py mostly in veinlets.	
13.90	16.66	xtl tuff							10% 60° to axis		Very boring- similar. 2 cm qtz vein @ 14.08 at 50° to core axis, 15.55 - .65 broken core (fracture zone) limonitic. Qtz vein 1.5 cm wide @ 50° barren - 15.95-16.00 small zone of open spaces, limonitic very siliceous.	
16.66	17.18								10% Py		Zone of fracturing ~ 10° to axis. Core split and in chunks. Py mostly disseminated.	
16.66	17.37	qtz vein.	white	micro							Relatively barren qtz vein slightly lim.	
17.37	17.45	Clay gouge	Dark Grey								Clay fault gouge.	
17.45	17.72	xtl tuff	Cream-green grey			SiO <sub>2</sub> Ad	Strong				Abundant py stringers up to .5 cm @ 30° to axis and qtz stringers up to 1 cm green color is in Ad?	

INTERVAL		ROCK TYPE	DESCRIPTION						%	Sulphide	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE				
17.72	20.42	xtl tuff	Cream-green			SiO <sub>2</sub> moderate Ad			5-8% Py		Py occurring mostly as dissem & blobs. Minor Py stringers. Scattered 1-2 cm SiO <sub>2</sub> blobs more abundant near 20 m mark. 20.30 m 40° to axis small py stringer and SiO <sub>2</sub> string zone.	
20.42	21.25	andesite tuff	green-gy fg.		massive	minor SiO <sub>2</sub>			1%		Massive andesite? Tuff, minor SiO <sub>2</sub> flooding SiO <sub>2</sub> stringer with fg-mg cubic py envelope near 21 m. becomes progressively more bleached near bottom of section.	
21.25	23.91	xtl tuff	cream-gy green			SiO <sub>2</sub> Ad			10% Py		Altered xtl tuff - well developed py stringers and blobs + dissem. Well developed green (talc?) color throughout section: strong SiO <sub>2</sub> flooding in and around SiO <sub>2</sub> stringers. Also flooding unrelated to stringers. (Good looking section) 6 cm gouge seam (sand size) at 21.61 m.	
23.91	26.00	Andesite tuff moderately altered	pale green			minor SiO <sub>2</sub>			1%		Pale green-gray moderately altered andesite 1% dissem py, 1 cm bull qtz @ 24.60 m. .5 m SiO <sub>2</sub> stringer ~ 0-5° to core axis @ 25 m. Strong SiO <sub>2</sub> flooding from 25.35 m to 26.00. Fracturing @ 45-55° to axis.	
26.00	28.75	xtl tuff	gy-br			limonite SiO <sub>2</sub> Ad			10%		Zone of broken and strongly fractured core. Py dissem blobs and veinlets - badly broken "gouge" zone @ 28 m - 10 cm wide sand-pebble sized frags.	

BOA SERVICES LTD.

## DRILL LOG

HOLE NO. D 86-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
28.75	29.37	Mafic dyke	gy-br(dk)							Bottom etc. @ 35° to core axis.
29.37	32.61	Andesite	gr-gy			SiO <sub>2</sub>	Strong		3-5% Py	Moderately altered andesite - host xtls present.
						Ad	Weak			Strongly silicified with astomizing fg veinlets.
32.61	36.10	xtl tuff	Creamy White & gy			SiO <sub>2</sub>			10% Py	The usual Ad SiO <sub>2</sub> Py.
						Ad				Py mostly diss. and 3-5% from 32.61-33.70.
										From 33.70 to end of section mostly veinlets with diss. blobs and dissem. xtls. 35.30 is 7 cm grey clay zone vfg py in clay.
36.10	37.19	xtl tuff	Creamy White-gr			SiO <sub>2</sub>	Moderate		3-5% Py	Relatively massive Ad with green tinge. Py mostly finely diss. Some small veinlets. Small 3 cm clay seam at 36.90.
37.19	47.60	xtl tuff	Cream-white green tinge			SiO <sub>2</sub>	Strong		5-10% Py	Broken core @ 39 m, strongly fractured to 40.60 m. Fault gouge @ 40.23.
						Ad	Strong			Py mostly dissem. blobs - some py stringers.
										Section is consistent in alteration and pyritization.
										Last 2 m has increasing stringer of mafics and py.
47.60	50.00	Andesite tuff	green			SiO <sub>2</sub>	weak		2% Py	Relatively fresh andesite tuff - chloritic green.
50.00	51.60	Andesite tuff	Cream- Pale						1%	





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## DRILL LOG

HOLE NO. 86-2

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	1.66	OVB collar									
1.66	2.43	xtl tuff	Creamy White & Grey			SiO <sub>2</sub> Ad			1% Py	Streaky mafic network surrounding Ad places and SiO <sub>2</sub> patches.	
2.43	2.78	Carbonaceous Zone, xtl tuff	Black & Cream with red-br lin.			Limonite					
2.78	7.80	xtl tuff								As 1.66-2.43, broken limonite core at 3m to 3.2 m. Strong fracturing with limonite at 4.5 to 4.8 m and at 5.7 to 5.9 m, and at 7.1. Broken and fractured core at 7.8 to 7.9.	
7.80	10.46	xtl tuff	drk gy cream			SiO <sub>2</sub> Ad			5-8% Py	8.3 - 9.1 strongly fractured and broken core black and limonitic br colour. Coarse fault gouge material for 20 cm @ 8.8. 9.15 to end of section is good xtl tuff with 5 to 88 py occurs as blobs and in mafic-py stringers. Strong SiO <sub>2</sub> flooding in this section. Section is noticeably more mafic than usual.	
10.46	14.70	xtl tuff	Creamy w/little grey			SiO <sub>2</sub> strong Ad strong			5-8% Py	Py mostly dissem. and blebs. Some veinlets of py. 11.55 to 11.72 mafic zone. More py veinlets in low 1/2 of section. Distinct soft ( ) green talc? Mineral. Qtz. veinlets in lower section.	

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
14.70	15.10	broken & fractured						limonite	5-10% Py	
15.10	20.5	xtl tuff	creamy with grey					Ad } SiO <sub>2</sub> }	Strong 10% Py	Streaky mafics with py. Distinct green talc? Mafic -py stringers. Moderate SiO <sub>2</sub> stringers. Strong green talc @ 17.88 - 18 m. Fault zone @ 17.20-17.38 broken limonitic core.
20.5	21.2	Andesite	Creamy-grey (fg)			Ad moderate SiO <sub>2</sub> strong			2-4% Py diss. only	Fairly massive core with moderate Ad alt. Ghost fsp xtls seen. Greenish tinge not like talc green. Low % of mafics.
21.2	21.85	Broken xtl tuff				Limonite Ad SiO <sub>2</sub>				
21.85	23.47	as 15.10 -20.5 xtl tuff								Broken from 23-23.15.
23.47	27.90	as 20.5-21.2	Creamy-gy- fg							Strongly silicified - 3 cm. Qtz vein at 26.95. Very few mafic py stringers. Some ghost frags.
27.90	29.56	xtl tuff	Creamy	vfg	massive	Ad very strong SiO <sub>2</sub> moderate				Quite massive Ad. and very low mafic content. Resembles very hard clay. Some green talc like material. However, much harder than usual (~ 4).

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE		REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
29.56	30.38	xtl tuff	Creamy-w/gy-black layers								Very streaky light-dark grey in creamy rock. Cream portion is as 27.90 - 29.56. Grey portion possible sedimentary layering.
30.38	31.45	Andesite	Creamy gy to strong chlorite green			SiO <sub>2</sub>			1% Py		Alteration decreases towards end of section into good andesite tuff - SiO <sub>2</sub> flooded vfg at top to med gr at bottom.
31.45	32.23	Andesite	Green-brown	fg		Limonite near end					Unaltered equivalent of 20.5 - 21.2 becomes limonitic near small fault gouge zone and end of section.
32.23	33.1	xtl tuff				limonite		Strong Fracturing	5% Py		Streaky mafic-py. Strong limonitic fracturing SiO <sub>2</sub> flooding/
33.1	37.19	xtl tuff	Creamy-gy-white			Ad -moderate SiO <sub>2</sub> - moderate			5-10% Py		Mostly streaky mafic - py veinlets in a med-gr matrix of grey tuff.
37.19	39.80	xtl tuff				SiO <sub>2</sub> Ad			5-10% Py		Distinct talc green, mostly 5% diss xtls and blobs py increasing to 10% py dissem blobs, xtls & stringers.
39.80	40.4	xtl tuff							5% Py		Strong SiO <sub>2</sub> flooding py blobs.
40.4	41.67	xtl tuff				SiO <sub>2</sub> Strong Ad )			10% Py		Blobs stringers dissem. py. Some green talc color near 41 m.



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## DRILL LOG

HOLE NO. 86-3

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
0	1.52	OVB									
1.52	2.90	xtl tuff	Creamy white grey			SiO <sub>2</sub> Ad		<1%		Pale green to patchy dark grey. Altered crystal tuff. Less than 1% dissem. py. Strong SiO <sub>2</sub> flooding.	
2.90	3.44	Carbonaceous xtl tuff.	Black to lt. gy.			SiO <sub>2</sub> (lower section) Ad (minor)				Top 1/2 section extremely carbonaceous and slightly siliceous. Bottom section is light gray cream with much less carbonaceous material ~ 10%.	
3.44	4.00	xtl tuff	light bn grey			Limonite		3-5% Py		Broken & fractured core, limonite bn color. Py dissem fractures @ ~ 45 - 55° to axis.	
4.00	8.65	xtl tuff	pale creamy gy			SiO <sub>2</sub> moderate to stronger Ad		5% Py		-5% py mostly dissem. in small (.5 to several mm) blobs and xtls. Minor Py veinlets & stringers. Strongly silicified fractures and veinlets. -5 m @ 30° to axis fractures. @ 60-80° to axis fractures. 6 m fractures @ 50° to axis * SiO <sub>2</sub> veinlets. 7 m fracture at 60°. @ 5.18, 5 cm section of strongly limonitic core with small open spaces. Fractures are generally limonitic.	
8.65	9.00	xtl tuff fraction zone	rd-br			limonite				Strongly broken and fractured zone.	
9.00	9.70		dk gy to lt. gy.			SiO <sub>2</sub>		10% Py		10% Py in veinlets mostly with some diss. Py. This section is layery with dark mafic py rich bands or veinlets, SiO <sub>2</sub> veinlets creamy white and Ad bands sometimes with green talc? color. Py is also diss. in Ad with only	

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## DRILL LOG

HOLE NO. 86-3

INTERVAL		ROCK TYPE	DESCRIPTION						% Sulphide	STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										slightly diss. py in SiO <sub>2</sub> bands. Bands at ~ 50 -40° to core axis.	
9.70	10.10	xtl tuff	creamy-white green			SiO <sub>2</sub> Ad			5% Py	5% py in 1 mm sized veinlets & dissem. Strong SiO <sub>2</sub> flooding and veinlets. Distinct green tinge to core.	
10.10	10.35	as 9.00-9.70							10%	Moderately fractured 10% Py.	
10.35	11.28	xtl tuff	Creamy-white less grey			SiO <sub>2</sub>			10%	Strongly pyritized - mostly in blobs and diss. Less veinlets. Very strongly silificied near 10.5 m and near 11.28.	
11.28	12.30	xtl tuff	dk. grey to lt. gy minor gn tinge						10-15% Py	- Strong py stockwork veinlets @ ~ 40° to axis. Veinlets contain abundant py and mafic material. Creamy areas Ad and SiO <sub>2</sub> contain diss. py and have green talc? tinge. Strong fracture at 12.25.	
12.30	13.55	xtl tuff	Cream white less gy			SiO <sub>2</sub> Ad			5-10% Py	Minor py-mafic bands (veinlets) mostly Ad and SiO <sub>2</sub> with diss. and blobs of py. Strong green talc? near 13 m. 3 cm of white qtz and cream qtz at 12.60.	
13.55	14.00	xtl tuff	Dk gy gr cream			SiO <sub>2</sub> Ad			5-10% Py	Banded stockwork py-mafic in creamy Ad SiO <sub>2</sub> banding at ~ 60° to axis. Some Py (minor) diss. in SiO <sub>2</sub> Ad.	
14.00	15.70	as 12.30-13.55 xtl tuff					Tr tet @ 4.90		5% Py	One small piece of tet in white qtz veinlet, several more tet vfg in qtz at 15.35.	

BOA SERVICES LTD.

## DRILL LOG

HOLE NO. 86-3

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS	
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
15.70	15.95	Broken fractured	Creamy-gy			SiO <sub>2</sub>			5% Py		Zone of moderate fracture and strong SiO <sub>2</sub> .
15.95-16	16.21	Xtl tuff							5% Py		Highly SiO <sub>2</sub> flooded traces of tet.
16.21	16.74	as 12.30-13.55							5-10% Py		Banded mafic py and Ad-SiO <sub>2</sub>
16.74	17.76	xtl tuff- creamy white				SiO <sub>2</sub> Ad			4-8% Py		Non-banded - "Massive" Ad with dissem. blobs and xtls of py. Minor bands of mafic and pyrite.
17.76	18.90	xtl tuff	gy-cream						18-10% Py		Banded mafic py and Ad SiO <sub>2</sub> . Strong SiO <sub>2</sub> flooded. 18.30 -18.35 limonitic gouge zone 18.50-18.58 limonitic gouge zone
18.90	19.35	broken xtl tuff							5% py		Broken & fractured core - some sericite
19.35	20.14	xtl tuff	Py pale creamy-gr			SiO <sub>2</sub> Ad limonite		Strong fracturing	10% Py		Fracturing @ 30° to axis - moderately fractured and limonitic. Strong Py veinlets up to 1 cm wide. Py occurs in bands and minor dissem.
20.14	23.00	Andesite tuff	Light to dark gy			Minor Ad & SiO <sub>2</sub>			1% Py		Moderately altered tuff. Medium. Some individual grains can be seen. Section contains moderate limonite fractures and moderate SiO <sub>2</sub> veinlets. Fracturing crosses qtz vein 1% dissem py. 21.30-21.78 m fracturing sub to core axis. Strongly limonitic with some open spaces. No sharp contact will lower next section. is gradual.



INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE		REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
23.00	26.00	bleached andesite? tuff	creamy white-gy		Minor Minor	SiO <sub>2</sub> Ad			< 1% Py	Bleached tuff. Minor py as dissem. Ghost fsp xtls in matrix of bleached very slightly green material. Minor fracturing various angles. Patches spots of mafics. Moderate qtz stringers and flooding. 25.15 3 cm limonitic gouge seam (fracture zone) coarse frags.	
26.00	26.52	bleached tuff	slightly	darker than above			(23-26 m)			Distinctly more andesite. (less altered)	
26.52	28.80	as 23-26	Cream-white green								
28.80	29.57	xtl tuff	cream white green			SiO <sub>2</sub> Ad chlorite				Chlorite stringers ~ 5 cm wide @ 30° to axis. Ghost fsp xtls, qtz flooded and veinlets @ 30° and ~ 15 to core axis.	
29.57	30.46		light gy			SiO <sub>2</sub> Ad			< 1% Py	Relatively massive Ad. some green stringers 80° to axis. Moderate SiO <sub>2</sub> flooding.	
30.46	31.06		light gy to black			SiO <sub>2</sub> Ad	Strong			Section of highly silicified core. Color ranges from lt. gy at top of section to dk gy black. Top section contains abundant qtz stringers and veinlets. Bottom of section is dark altered andesite tuff?	

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
31.06	31.75	xtl tuff				SiO <sub>2</sub> Strong Ad		Tr Tel (one speck)	< 1% Py	31.1 - 31.3 is fracture zone, limonitic and broken. Lower portion of section strong Ad similar to 29.57 - 30.46.	
31.75	34.00	Andesite tuff	Gr-gy	c.g-f.g.		Moderate SiO <sub>2</sub> Minor Ad			< 1% Py	Good cg-fg (variable) andesite crystal tuff. Abundant tuffaceous fragments and xtls. Both frags & xtls show varying degrees of alteration.	
34.00	35.20	xtl tuff	cream-white			SiO <sub>2</sub> Ad			10% Py	Well altered xtl tuff. Py occurring in veinlets blobs and dissem. to 34.5 is strong veinlets, below 34.5 is strong blobs and dissem.	
35.20	36.36	xtl tuff	creamy-lt. green			SiO <sub>2</sub> -Strong Ad -Strong			5% Py	Py mostly blobs and dissem. Some veinlets at bottom of section. Ad has slight green color. Section contacts dyke. sharp. Increase in py near possibly related to dyke.	
36.36	37.95	Mafic dyke	mud gy bn							Some xenolith of gneissic material ~ 2 cm wide.	
37.95	42.16	xtl tuff	cream-white			SiO <sub>2</sub> Ad			5-10% Py	SiO <sub>2</sub> and Ad alteration. Py mostly as blobs and dissem. Green tinge throughout 39.4 is 5 cm fracture zone. Moderate <sup>qtz</sup> veinlets. .41 m broken core (fracture zone)?	
42.16	42.45	Fracture zone				limonite				Broken core.	
42.45	42.80	xtl tuff							3-5% Py		

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide		
42.80	43.28	Fracture Zone xtl tuff				Limonite			5% Py.	Broken ore - some good xtl tuff - core with large open spaces.	
43.28	48.70	xtl tuff				SiO <sub>2</sub> Ad talc			5-10% Py	Mostly diss. and blobs of py. Green tinge throughout. Pyrite-mafic veinlets at 44.7-44.8 and at 48.3-48.5	
48.70	50.00	Andesite tuff	green(pale)			SiO <sub>2</sub> -Moderate			<1% Py	"relatively" unaltered andesite.	
50.00	50.86	xtl tuff				SiO <sub>2</sub>			5% Py	Blobs and dissem.	
50.86	52.00	Andesite tuff	Pale Green						<1% Py	as 48.7 - 50.0.	
52.00	52.70	xtl tuff		vfg (micro)		SiO <sub>2</sub> Ad (strong)			<1% Py	Pale cream (slight green tinge) massive Ad with astomizing "green" SiO <sub>2</sub> veinlet.	
52.70	54.45	xtl tuff	pale cream green			SiO <sub>2</sub> -strong Ad			<1% Py	Strong SiO <sub>2</sub> flooding moderate fracturing. Fract are limonitic. Broken core at 54 m.	
54.45	54.70	carbonaceous zone	Black								
54.70	55.47	dyke									
		END OF HOLE									

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## DRILL LOG

HOLE NO. 86-4

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	1.99	collared at 1.88									
1.99	6.00	Andesite	limonite green bn	mg	tuff	Limonite SiO <sub>2</sub> - moderate			1%		10 cm orange-bn clay gouge at 3 m. 5 cm red-bn fault gouge at 4.45 m.
6.00	11.46	gy-gr andesite		mg		SiO <sub>2</sub> moderate			1% Py		relatively fresh andesite - slightly bleached at end of section.
11.46	12.10	fracture zone	limonite bn								Broken and fractured core with gouge material at 11.80.
12.10	16.16	andesite tuff	drk gy	md-g to black		SiO <sub>2</sub>					Moderately altered, pale grey cream at top of section. Becomes much darker from 13.5 to bottom of section. This darker material is unaltered tuff. Strong qtz stringers.
16.16	16.50	xtl tuff	pale cream gr-bn	fg		Ad SiO <sub>2</sub>			3-5% Py		
16.50	17.27	Fracture zone	limonite bn								Strongly fractured, vfg xtl tuff.
17.27	17.50	xtl tuff	cream-gy	vfg		Ad			2% Py		
17.50	18.95	Fracture zone				Limonite					Strongly fractured, vfg xtl tuff

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
18.95	25.00	Xtl tuff	creamy grey	vfg		Ad SiO <sub>2</sub> -moderate			3-5% Py		Pale creamy grey with greeny tinge. Section is sometimes pinkish-br-orange with 1-2 mm sized patches of greenish material. Equivalent section logged in 86-5 hole. Py is all dissem. Broken core at 24.8 to 25.
25.00	28.00	Xtl tuff	gr-green	vfg		Ad )Moderate SiO <sub>2</sub> )					Generally similar to above but far less patches of greenish material.
28.00	33.17	Mafic Dyke									
33.17	42.28	xtl tuff	grey			Ad )Moderate SiO <sub>2</sub> )			3-8% Py		Large section of very similar core - patchey green chlorite? 1-2 mm. Moderately altered core, moderately to weakly fractured shallow to axis 30-10° py dissem.
42.28	46.90	xtl tuff	grey	vfg	massive	Ad SiO <sub>2</sub> strong			5% Py		Dissem. Strong silicified xtl tuff. Py mostly dissem - some py stringers.
46.90	52.40	xtl tuff	green	vfg		SiO <sub>2</sub> moderate)					Strong SiO <sub>2</sub> flooding - 47 m. Fairly massive tuff. 49.30 - 2 cm gouge.
52.40	52.70	broken limonite									
52.70	54.40	xtl tuff	creamy-gy			SiO <sub>2</sub> moderate - strong Ad - moderate			5% Py		



INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS	
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	1.70	Collar									
1.70	6.00	Andesite	limonite br-gr	fn-nd-gr		SiO <sub>2</sub> - weak Ad - minor			<1% Py		Relatively fresh andesite stained limonite bn. Moderate fracturing. Weak to moderate qtz stringers broken and gouged core @ 5.1 m.
6.00	6.62	gy andesite	lt gy	fn-nd gr		SiO <sub>2</sub> weak			<1% Py		SiO <sub>2</sub> blobs minor fracturing. Some original texture remaining.
6.62	7.60	Andesite	rd-bn			limonite		zone of	mildly broken		limonitic core.
7.60	14.23	andesite tuff	gn-gy-bl			SiO <sub>2</sub> weak			1% Py		Section of "fresh" lapilli tuff. Some zones of strong SiO <sub>2</sub> flooding - @ 7.8 m, 8.5 m, 10.5 m and 12.3 -13.5 m. Color varies from green-gy to black. Some fracturing at various angles.
14.23	18.40	xtl tuff	creamy white			SiO <sub>2</sub> Ad		abundant	5% Py fracturing		Zone of strong fracturing. Altered tuff Strong Ad - moderate SiO <sub>2</sub> . Fracturing very strong @ 14.33 to 15.3. Again at 17.8 to 18.1.
18.40	19.10	xtl tuff	limonte bn			limonite					
18.40	19.10	xtl tuff	creamy-gy green			Ad SiO <sub>2</sub>		moderate	3-5% Py fracturing diss		Ore 2 cm blobs of PY and SiO <sub>2</sub>
19.10	23.00	xtl tuff	gy-gn some orange alteration			Ad SiO <sub>2</sub> -mod		moderately	5% Py fractured diss		Core is moderately broken and fractured. Has irregular shaped patches or blobs of semi-transparent green mineral. In area of patches is rusty pinkish- orange color. Some SiO <sub>2</sub> stringers & flooding, not string.

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	% Sulphide	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
23.00	25.20	mafic dyke	dr by-gy								Mafic dyke. Gouge seam with clay 2 cm at bottom of section.
25.20	25.35	xtl tuff	cream-gy								
25.35	27.10	Mafic dyke									Gouge seam 3 cm at 26.90.
27.10	29.50	xtl tuff									Similar to 19.1 - 23. Less patchey material.
29.50	35.45	Massive xtl tuff	creamy-white			Ad SiO <sub>2</sub>			5% Py		Moderate to strong SiO <sub>2</sub> flooding. Py mostly dissem xtls & blobs. Good solid core.
35.45	36.00	40% recovery									
36.00	37.00	10% recovery									Zone of highly broken core and gouge.
37.00	38.00	30% recovery									Seams. Some 3-6 cm pieces of solid xtl.
38.00	40.00	5% recovery									tuff- 5% py. Mostly limonitic fragments and gouge
40.00	41.00	50% recovery									recovered.
41.00	42.00	15% recovery									Small 4 cm section at 47 m with 1% tet.
42.00	43.00	15% recovery									10-15% Py - Tr Sp.
43.00	44.00	20% recovery									
44.00	45.00	50% recovery									
45.00	46.00	10% recovery									
46.00	47.00	60% recovery									
47.00	49.70	xtl tuff									Broken limonitic core.
		50% recovery									





**APPENDIX IV**

**ASSAY CERTIFICATES**

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)980-4324

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TEUTON RES. CORP./QUEST CANADA  
 Project:  
 Attention: D. CREMONESE/R. SHEARING

File: 6-983/P1  
 Date: OCT 17/86  
 Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-1 11-12	6.7	90
86-1 12-13	1.9	26
86-1 13-14	1.8	25
86-1 14-15	3.2	9
86-1 15-16	2.4	34
86-1 16-17	3.2	49
86-1 17-18	1.9	8
86-1 18-19	1.7	24
86-1 19-20	2.6	60
86-1 20-21	1.7	5
86-1 21-22	3.3	53
86-1 22-23	4.6	175
86-1 23-24	2.2	70
86-1 24-25	0.9	4
86-1 25-26	1.0	1
86-1 26-27	1.9	1
86-1 26-27	1.2	18
86-1 27-28	2.8	16
86-1 28-29	0.9	80
86-1 29-30	1.8	160
86-1 30-31	1.1	59
86-1 31-32	1.2	53
86-1 32-33	1.5	56
86-1 33-34	2.1	8
86-1 34-35	6.3	110
86-1 35-36	8.7	105
86-1 36-37	4.0	36
86-1 37-38	3.2	7
86-1 38-39	0.8	2
86-1 39-40	1.0	1

Certified by   
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MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TEUTON RES. CORP./QUEST CANADA  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-983/P2  
Date: OCT 17/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-1 40-41	1.4	8
86-1 41-42	1.5	16
86-1 42-43	2.0	2
86-1 43-44	3.1	23
86-1 44-45	2.8	1
86-1 45-46	2.2	4
86-1 46-47	1.7	19
86-1 47-48	1.9	54
86-1 48-49	0.6	1
86-1 49-50	0.6	2
86-1 50-51	0.4	1
86-1 51-52	0.5	3
86-1 52-53	0.9	3
86-1 53-54	1.1	2
86-2 1.75-3.0	1.0	20
86-2 3-4	1.0	72
86-2 4-5	1.1	61
86-2 5-6	1.5	177
86-2 6-7	1.0	18
86-2 7-8	1.4	12
86-2 8-9	1.7	31
86-2 9-10	1.9	17
86-2 10-11	3.0	9
86-2 11-12	2.0	16
86-2 12-13	1.8	24
86-2 13-14	2.4	19
86-2 14-15	3.6	3
86-2 15-16	2.1	42
86-2 16-17	2.7	82
86-2 17-18	2.9	80

Certified by



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*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 980-1274

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: TEUTON RESOURCES/QUEST CANADA EXPL.  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-983/P3  
Date: OCT 17/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PFB
86-2 18-19	5.2	40
86-2 19-20	3.4	65
86-2 20-21	1.4	30
86-2 21-22	1.2	44
86-2 22-23	3.1	80
86-2 23-24	1.2	49
86-2 24-25	1.0	22
86-2 25-26	0.7	4
86-2 26-27	0.7	30
86-2 27-28	0.5	7
86-2 28-29	0.4	8
86-2 29-30	0.3	6
86-2 30-31	0.5	7
86-2 31-32	1.1	5
86-2 32-33	2.0	50
86-2 33-34	1.7	20
86-2 34-35	2.1	32
86-3 0-2	1.0	9
86-3 2-3	1.1	14
86-3 3-4	0.8	27
86-3 4-5	0.7	26
86-3 5-6	0.8	40
86-3 6-7	1.0	32
86-3 7-8	0.8	15
86-3 8-9	1.2	17
86-3 9-10	1.9	35
86-3 10-11	1.7	30
86-3 11-12	2.3	28
86-3 12-13	2.6	25
86-3 13-14	1.9	22

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Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7R 1T2

PHONE: (604) 980-5814 OR (604) 273-2728

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TEUTON RESOURCES/QUEST CANADA EXPL.

File: 6-983/P4

Project:

Date: OCT 20/86

Attention: D. CREMONESE/R. SHEARING

Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-3 14-15	2.8	25
86-3 15-16	3.0	45
86-3 16-17	3.7	33
86-3 17-18	1.8	24
86-3 18-19	1.8	52
86-3 19-20	1.4	122
86-3 20-21	1.0	9
86-3 21-22	0.5	5
86-3 22-23	0.4	4
86-3 23-24	0.4	6
86-3 24-25	0.4	4
86-3 25-26	0.6	4
86-3 26-27	0.6	7
86-3 27-28	0.5	6
86-3 28-29	0.5	6
86-3 29-30	0.6	5
86-3 30-31	0.6	7
86-3 31-32	0.8	8
86-3 32-33	0.7	10
86-3 33-34	0.8	8
86-3 34-35	5.2	26
86-3 35-36	1.4	25
86-3 36-36.5	1.5	10
86-3 37-38	1.7	5
86-3 38-39	1.6	12
86-3 39-40	1.8	26
86-3 40-41	1.4	18
86-3 41-42	2.8	25
86-3 42-43	7.6	30
86-3 43-44	3.4	27

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TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: TEUTON RESOURCES/QUEST CANADA EXPL.

File: 6-983/P5

Project:

Date: OCT 20/86

Attention: D. CREMONESE/R. SHEARING

Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPM
86-3 44-45	3.0	36
86-3 45-46	1.9	54
86-3 46-47	3.8	99
86-3 47-48	1.6	39
86-3 48-49	0.8	51
86-3 49-50	0.6	10
86-3 50-51	0.8	25
86-3 51-52	0.8	10
86-3 52-53	0.6	10
86-3 53-54	1.0	7
86-3 54-54.5	1.0	12
86-5 1-2	1.3	13
86-5 2-3	1.4	10
86-5 3-4	1.0	8
86-5 4-5	1.2	10
86-5 5-6	1.1	19
86-5 6-7	1.2	10
86-5 7-8	1.0	15
86-5 8-9	1.2	12
86-5 9-10	1.6	14
86-5 10-11	1.4	15
86-5 11-12	1.6	5
86-5 12-13	0.8	8
86-5 13-14	0.9	4
86-5 14-15	0.8	33
86-5 15-16	0.8	63
86-5 16-17	0.9	85
86-5 17-18	1.4	65
86-5 18-19	1.2	80
86-5 19-20	1.6	67

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

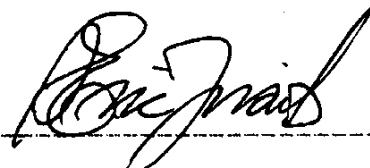
Company: TEUTON RESOURCES/QUEST CANADA EXPL.  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-983/P6  
Date: OCT 20/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-5 20-21	1.6	100
86-5 21-22	2.0	375
86-5 22-23	1.4	106
86-5 27-28	0.9	94
86-5 28-29	1.2	104
86-5 29-30	1.0	85
86-5 30-31	0.8	58
86-5 31-32	1.3	118
86-5 32-33	1.0	108
86-5 33-34	1.4	61
86-5 34-35	1.2	70
86-5 35-36	1.2	62
86-5 36-40	1.3	25
86-5 40-41	1.6	50
86-5 41-45	1.2	35
86-5 45-47	2.6	50
86-5 48.5-50	2.2	45
86-5 50-51	2.0	36
86-5 51-52	2.8	45
86-5 52-54	2.4	54
86-5 54-55	1.8	59
86-5 55-56	3.0	120
86-5 56-57	1.4	20
86-5 57-58	1.0	15
86-5 58-59	1.0	10
86-5 59-60	1.4	13
86-5 60-60.5	1.4	10

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Certificate of GEOCHEM

Company: TEUTON RESOURCES/QUEST CANADA EXPL.  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-993/P1  
Date: OCT 20/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-2 35-36	3.6	65
86-2 36-37	5.4	93
86-2 37-38	1.8	35
86-2 38-39	1.2	19
86-2 39-40	1.8	23
86-2 40-41	1.8	30
86-2 41-42	1.5	40
86-2 42-43	1.2	38
86-2 43-44	1.4	47
86-2 44-45	1.6	34
86-2 45-46	1.8	12
86-2 46-47	2.0	18
86-2 47-48	1.7	70
86-2 48-49	2.4	67
86-2 49-50	3.2	105
86-2 50-51	1.6	71
86-2 51-52	1.5	146
86-2 52-53	1.0	63
86-2 53-54	0.9	6
86-2 54-55	0.6	9
86-2 55-56	0.9	7
86-2 56-56.69	0.8	5
86-4 0-3	0.9	12
86-4 3-4	1.4	10
86-4 4-5	1.0	14
86-4 5-6	0.8	8
86-4 6-7	1.2	5
86-4 7-8	1.2	9
86-4 8-9	1.8	3
86-4 9-10	1.8	7

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Specialists in Mineral Environments  
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 980-5815

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Certificate of GEOCHEM


Company: TEUTON RESOURCES/QUEST CANADA EXPL.  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-993/P2  
Date: OCT 20/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPR
86-4 10-11	1.3	20
86-4 11-12	1.4	15
86-4 12-13	1.0	21
86-4 13-14	1.2	16
86-4 14-15	1.6	22
86-4 15-16	1.2	24
86-4 16-17	0.8	55
86-4 17-18	1.4	80
86-4 18-19	1.0	54
86-4 19-20	1.0	50
86-4 20-21	1.0	67
86-4 21-22	2.2	294
86-4 22-23	1.4	109
86-4 23-24	1.3	101
86-4 24-25	2.2	100
86-4 25-26	2.0	233
86-4 26-27	1.0	50
86-4 27-28	1.1	65
86-4 28-29	0.8	20
86-4 29-30	0.9	16
86-4 30-31	1.2	20
86-4 31-32	0.6	22
86-4 32-33	0.8	23
86-4 33-34	0.8	25
86-4 34-35	0.9	80
86-4 35-36	1.2	60
86-4 36-37	1.6	74
86-4 37-38	0.6	40
86-4 38-39	0.9	75
86-4 39-40	1.0	50

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Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4324

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TEUTON RESOURCES/QUEST CANADA EXPL.  
Project:  
Attention: D. CREMONESE/R. SHEARING

File: 6-993/P3  
Date: OCT 20/86  
Type: ROCK GEOCHEM

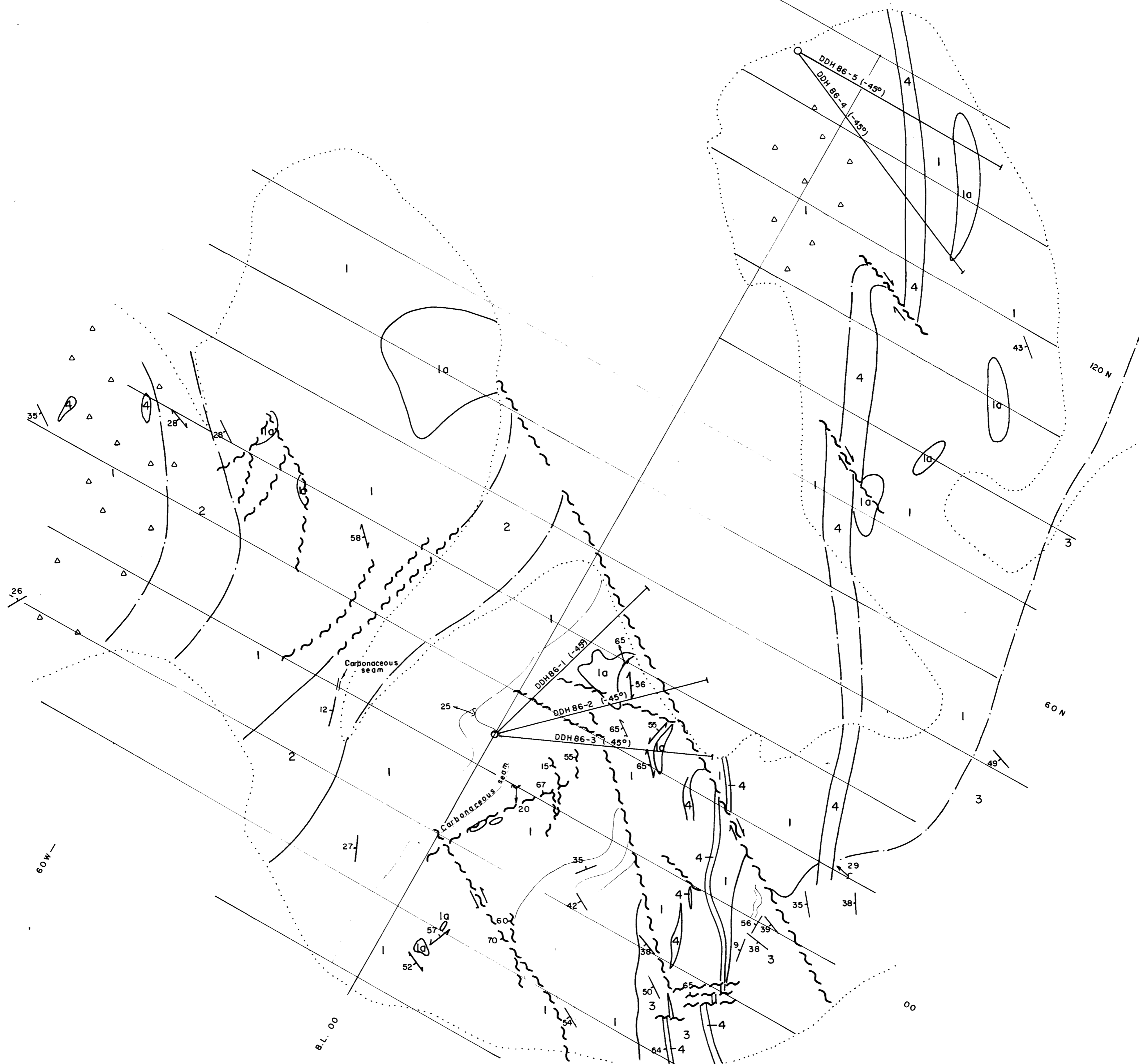
We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
86-4 40-41	1.4	50
86-4 41-42	1.2	76
86-4 42-43	1.2	44
86-4 44-45	1.0	70
86-4 45-46	2.0	98
86-4 46-47	1.6	94
86-4 47-48	1.4	93
86-4 48-49	1.2	80
86-4 49-50	1.6	75
86-4 50-51	1.8	92
86-4 51-52	1.0	50
86-4 52-53	2.0	85
86-4 53-54	1.2	65
86-4 54-55	1.6	55
86-4 55-56	2.1	110
86-4 56-57	1.2	146
86-4 57-58	1.6	131
86-4 58-59	1.1	54
86-4 59-60	1.4	100
86-4 60-61	1.8	137
86-4 61-62	1.2	85
86-4 62-63	1.2	78
86-4 63-64	2.6	60
86-4 65-66	1.0	29
86-4 66-67	1.1	30
86-4 67-68	1.0	25
86-4 68-69	1.0	27
86-4 69-70	1.8	58
86-4 70-71	1.0	30
86-4 84-85	1.9	34

Certified by



MIN-EN LABORATORIES LTD.



**LEGEND**

- 1 BEDDED CRYSTAL TUFFS
- 1a SERICITE SCHIST - STRONGLY SHEARED AND PYRITIZED 1
- 2 CRYSTAL TUFF WITH DISTINCT CARBONACEOUS ZONE
- 3 BLACK SHALES AND ARGILLITES
- 4 MAFIC DYKE
  
- STRIKE & DIP OF BEDDING
- FOLIATION ANGLE
- MINOR FOLD ORIENTATION
- GEOLOGICAL CONTACT
- ASSUMED GEOLOGICAL CONTACT
- FAULT TREND AND DIP
- ROCK - SNOW BOUNDARY
- DIAMOND DRILL HOLE
- COARSE TALUS

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

15,645

TEUTON RESOURCES CORP.  
TERRITORIAL PETROLEUM VENTURES LTD.

**DELTA CLAIM**  
**GEOLOGICAL PLAN SHOWING**  
**DRILL HOLE LOCATIONS**  
**UPPER DELTA ZONE**

N.T.S. 104B-8E      SKEENA M.D., B.C.  
SCALE 1:1000

0 10 20 40 60 METRES  
FEB. 1987      FIGURE