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REVIEW OF EXPLORATION DATA

UNITED BEAR AND UNITED TOMMY MINERAL CLAIM GROUPS

KENNEDY RIVER AREA

ALBERNI MINING DIVISION

VANCOUVER ISLAND, B.C.

NTS 92 F/3 W

LATITUDE 49°10'N, LONGITUDE 125°24'W

PROPERTY FILE

092F044

Prepared for

INTERNATIONAL COAST MINERALS CORP.

International Coast Minerals Corp.
Ste. 1500 - 1176 West Georgia St.
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ARCTEX ENGINEERING SERVICES

Locke B. Goldsmith, P.Eng.
Consulting Geologist

June 28, 1986

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Brown Report, Lac Minerals Ltd.
Cominco Ltd., Smelter Returns of 4.82 Ton Sample
from "Black" Vein
Groves Samples from "Black" Vein
Spilsbury Maps, Geology and Chip Samples, United
Tommy Group, Teck Explorations Limited-
International Phoenix Energy Corporation
Statement of Expenditures, International Phoenix
Energy Corporation

**REVIEW OF EXPLORATION DATA
UNITED BEAR AND UNITED TOMMY MINERAL CLAIM GROUPS
KENNEDY RIVER AREA
ALBERNI MINING DIVISION
VANCOUVER ISLAND, B.C.**

SUMMARY

Gold is known to occur in two important zones on the property. Exploration, largely by diamond drilling, is required to test the extent and tenor of mineralization. The United Bear quartz veins have potential for a moderate tonnage of high-grade gold; the shear zone which hosts the quartz should be examined for a higher tonnage-lower grade deposit. The United Tommy sheeted veinlet zone has potential for a bulk tonnage-low grade operation. A program in five Phases is estimated to cost \$1,769,000.

INTRODUCTION

The claims are located approximately 55 road kilometres west of Port Alberni and 30 road kilometres northeast of the port of Ucluelet. Highway 4 passes through the northwest corner of the Tommy claim. New logging roads extend northwesterly from the highway across Kennedy River into the Bear group to within 150 metres of an adit driven on gold mineralization in quartz veins. One partially overgrown road which departs easterly from the highway onto the Tommy claim leads to the vicinity of sheeted veinlets which contain gold values.

A hydroelectric power line follows Kennedy River valley and passes through the property.

Elevations range from less than 40 m in Kennedy River valley to 1040 m in the southeast corner of Tommy claim.

The property consists of 24 units, 4 reverted crown grants and 1 staked fraction, for a total of 29 units containing approximately 700 hectares.

Claim Name	Lot No.	Record No.	No. of Units	Expiry Date
UNITED BEAR GROUP				
Black Bear	293	1522(10)	1	Jan. 1989
Cinnamon Bear	294	1580(12)	1	Dec. 1995
Grizzly Bear	300	1599(1)	1	Jan. 1996
Ironsides	487	1601(1)	1	Jan. 1990
Bear Fraction		2882(4)	1	Apr. 1987
UNITED TOMMY GROUP				
Tommy		1029(9)	16	Sep. 1992
Golden Gate		1035(9)	6	Sep. 1987
Water Fall		1560(12)	2	Dec. 1987

Owner is Mr. W.W. Ejtzel of Vancouver, B.C.



PACIFIC OCEAN



LOCATION MAP

1 cm = 30 km

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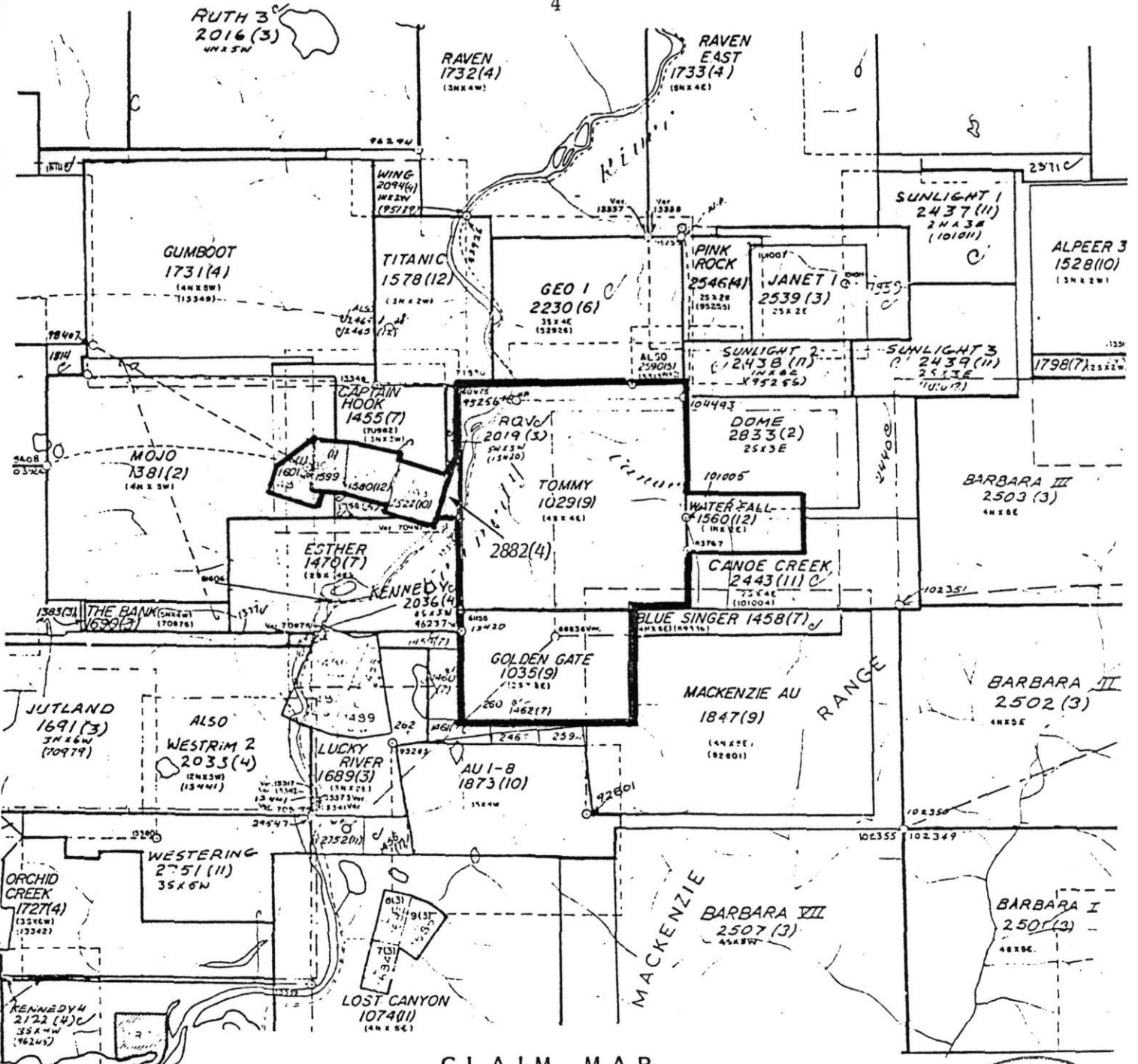
UNITED BEAR AND UNITED TOMMY MINERAL CLAIM GROUPS

NTS 92 F/3 W

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To Accompany Report By: Locke B. Goldsmith, P. Eng. Consulting Geologist

June 1986



CLAIM MAP



INTERNATIONAL COAST MINERALS CORP.
 UNITED BEAR AND UNITED TOMMY MINERAL CLAIM GROUPS

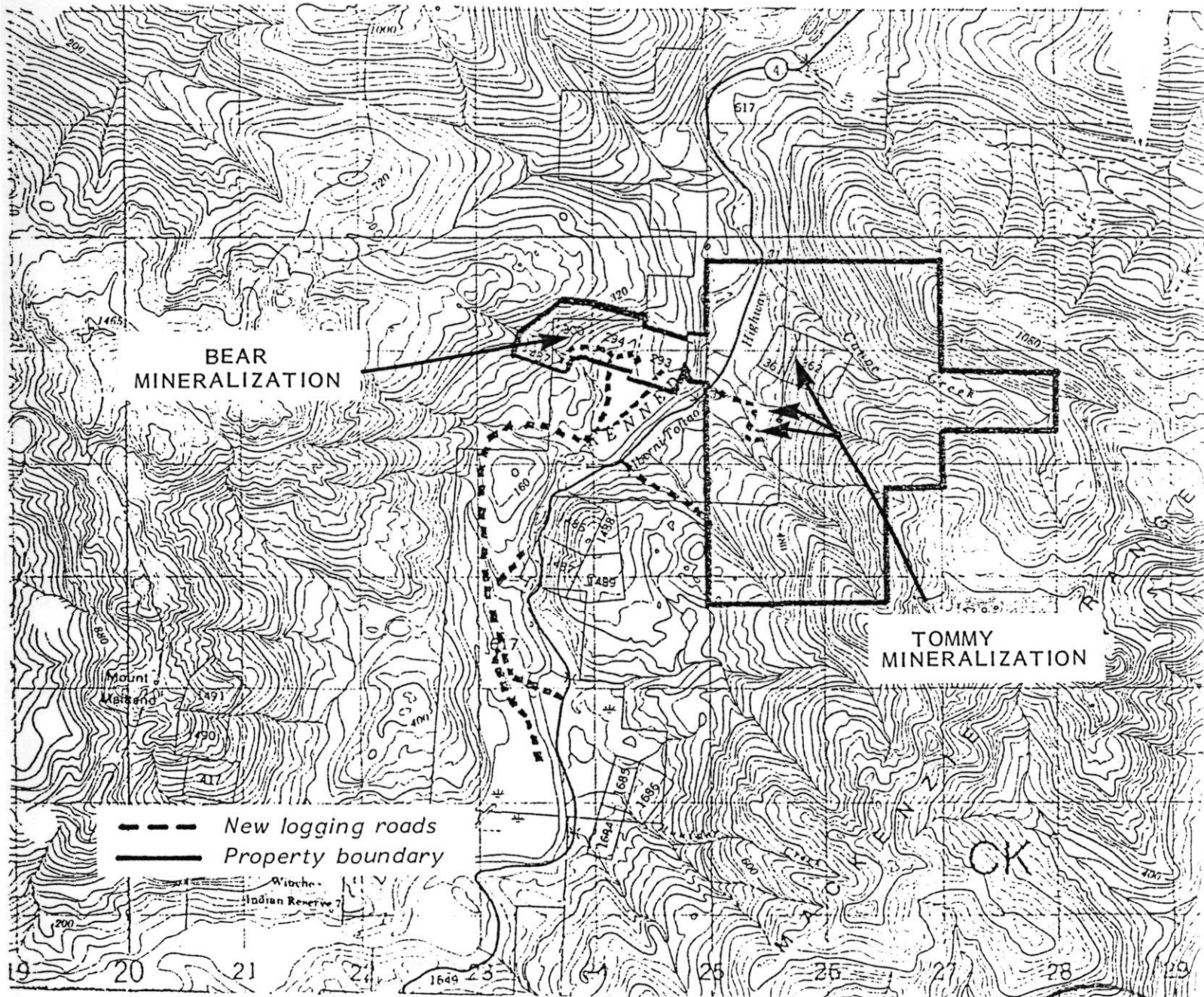
NTS 92 F/3 W Scale 1:50,000

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 Consulting Geologist

June 1986





TOPOGRAPHIC MAP

INTERNATIONAL COAST MINERALS CORP.

UNITED BEAR AND UNITED TOMMY MINERAL CLAIM GROUPS

NTS 92 F/3 W

Scale 1:50,000

Contour Interval: 40 metres

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Consulting Geologist

June 1986



HISTORY

Early exploration and development activities of the area from around 1900 to 1939 are summarized in B.C. Minister of Mines Annual Reports (see references) and paraphrased by Drummond (1984). By 1913 the adit on the Bear group had been driven to intersect gold-quartz veins. In 1923, the Grant claim group covered a portion of the present Tommy claim on the eastern slope of Kennedy River valley south of Canoe Creek. A quartz vein, 1.22 m in width (4'), contained 1.3 oz/ton Au and 0.70 oz/ton Ag. By 1935 some surface development had been undertaken on the Tommy K group on narrow but high-grade gold-quartz veins and an adit may have been commenced at about this time. A small tonnage (± 100 tons) may have been produced prior to 1947 from the Tommy K claims.

In recent years the Bear group has been examined and sampled in 1984 by Teck Explorations Ltd. (assays reported by Groves, June 2, 1985), by Paul Wilton, B.C.D.M. Regional Geologist (assays reported by Grove, December 9, 1985), by Helsen (1985) for Noranda Exploration Company, Limited, and by R. Brown (circa January 1986) for Lac Minerals Ltd. the author of this report examined mineralization and took two samples from the Bear group on June 7, 1986 (results in Appendix).

Narrow quartz veins in the vicinity of the sheeted zone near the adit on the Tommy claim were sampled by W.G. Stevenson in a report dated 1980 (assays reported and reference quoted by Drummond, January 19, 1984); all ten vein samples contain gold, five of which carry in excess of 1.1 oz/ton Au. Drummond (January 19, 1984) sampled three wider intervals in the same area on behalf of International Phoenix Energy Corporation. While investigating surrounding claims on behalf of Rich Lode Gold Corporation, C.J. Brown (August 20, 1982) took two samples in open cuts and three in the adit on the Tommy claim; type of sample is not specified but all contained gold, the highest grade (0.222 oz/ton Au) being in the adit. Of particular interest is Brown's observation (p. 9) that "oxidation and weathering had leached most of the sulphides". Personnel of Teck Explorations Limited conducted geological, geochemical, electromagnetic, and magnetometer surveys over portions of the United Tommy group (Spilsbury, September 17, 1984), and rock trenching and sampling of the veinlet zone on the Tommy claim (Spilsbury et al., April 4, 1985); both programs were undertaken on behalf of International

Phoenix Energy Corporation at a cost of \$82,088.20 (see Appendix). The author of this report inspected the veinlet zone between Adit and Walkout creeks on June 8, 1986.

GEOLOGY

United Bear Group

Triassic Karmutsen volcanics are shown on the regional geology map (Muller, 1969) as underlying the claims. Field inspection suggests that the northern two-thirds of the claims, particularly north of the shear zone which hosts the gold-quartz veins, is underlain by Karmutsen volcanics, and the southwestern portion of the claims is underlain by Jurassic Island intrusions of diorite or quartz diorite. Geology near the Bear Creek shear zone is shown on maps accompanying the report by Helsen (September 17, 1985) in the Appendix of this report. Felsic dykes hosted by Karmutsen volcanics are cut in new logging roads.

United Tommy Group

Where mapped by personnel of Teck Explorations Limited (Spilsbury, September 17, 1984; see Appendix) the Karmutsen is subdivided into a thick volcanic breccia and an andesite. In the southwestern corner of the Golden Gate claim biotite granite and quartz-feldspar porphyry of the Island Intrusions are shown in a creek valley. One felsite dyke is shown at the west side of the veinlet zone in Adit Creek. Chlorite alteration with discontinuous fine quartz veinlets was noted, generally along the eastern side of the sheeted veinlet zone. Parallel quartz-carbonate-sulphide veinlets in concentrations of up to 5/metre are depicted as trending 030° - 040° in Adit Creek, between 040° - 065° in Walkout Creek, and 045° in Canyon Creek. These were considered by Spilsbury (September 17, 1984) to postdate chlorite alteration. The veinlet zone could extend southwesterly for 2 km and in Canyon Creek is shown to be +350 metres wide. A fault in Adit Creek appears to truncate the zone on the north end.

MINERALIZATION

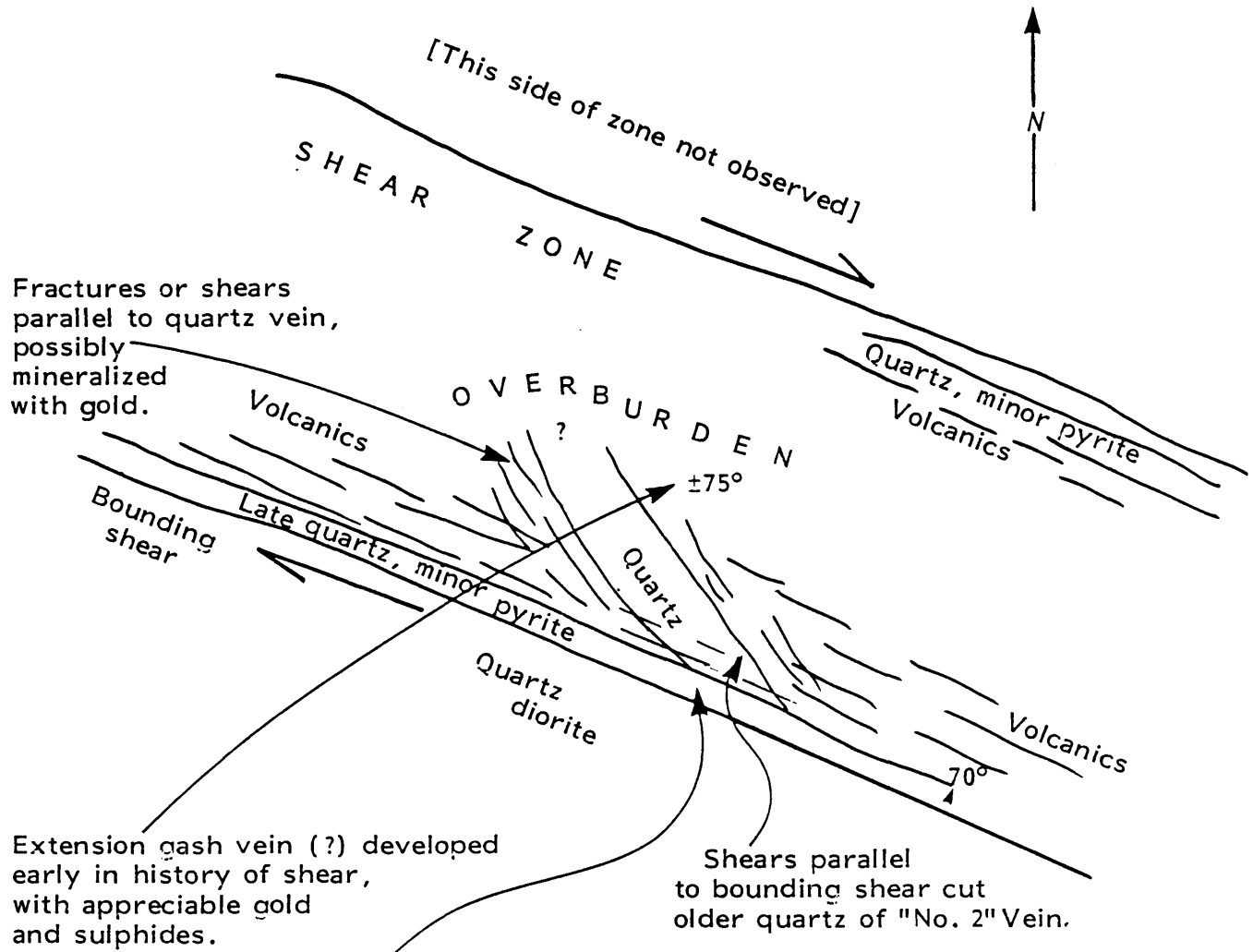
United Bear Group

Gold-bearing quartz veins with appreciable pyrrhotite-pyrite-sphalerite-chalcopyrite are hosted within a shear zone which may be of regional extent. All investigators have obtained significant gold values from veins, and gold has been noted in sheared volcanics adjacent to veins (Helsen, September 17, 1985). A composite chip sample of 60 cm of sheared volcanics and 1.5 m of quartz in the No. 2 vein taken by the author of this report assayed 1.228 oz/ton Au and 0.89 oz/ton Ag (location shown on detailed plan, sketch 2B, of Helsen). A value of 0.146 oz/ton Au and 0.21 oz/ton Ag in a chip sample taken by this author over 2.0 metres east-west of quartz and sulphides in the Black vein (location shown on the map of R. Brown, circa January 1986) corresponds reasonably well with a 4.82 ton bulk sample shipped to Cominco which contained 0.280 oz Au/ton and 0.65 oz/ton Ag. Higher grade chip samples (R. Brown, January 1986, and Helsen, September 17, 1984) may have been oriented north-south, perhaps along the strike of the vein, although the attitude is not readily discernible because of soil cover and disturbance from blasting. Gold in the order of 3 gm/tonne is present in a stockwork of veinlets \pm 300 m downslope from the adit near the new logging roads.

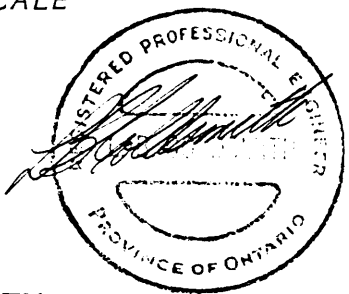
Veins, whether exposed in the adit or on surface, appear to have widely variable grades of gold. Structural controls within the shear zone may be of prime importance in localizing the gold either in quartz or sheared volcanics.

With reference to the figure on p. [10], a right lateral movement along a brittle shear zone is assumed to have produced extensional (tension) gash openings diagonal to the direction of shear movement. An early mineralizing event could have provided quartz + gold + sulphides to fill these structures. Later brittle to ductile shearing may have produced open spaces (sub)parallel to the zone. A late stage of quartz with lesser gold and sulphides may have been introduced into these openings. The north side of the shear zone has not been observed, so no estimate of the potential length of gash veins can be made. A similar interpretation is shown in the figure on p. [11] for the Black vein.

Exploration of this shear zone by drilling must be carefully planned to intersect gash veins and to allow interpretation of the geometry of mineralization within the main shear.



NOT TO SCALE

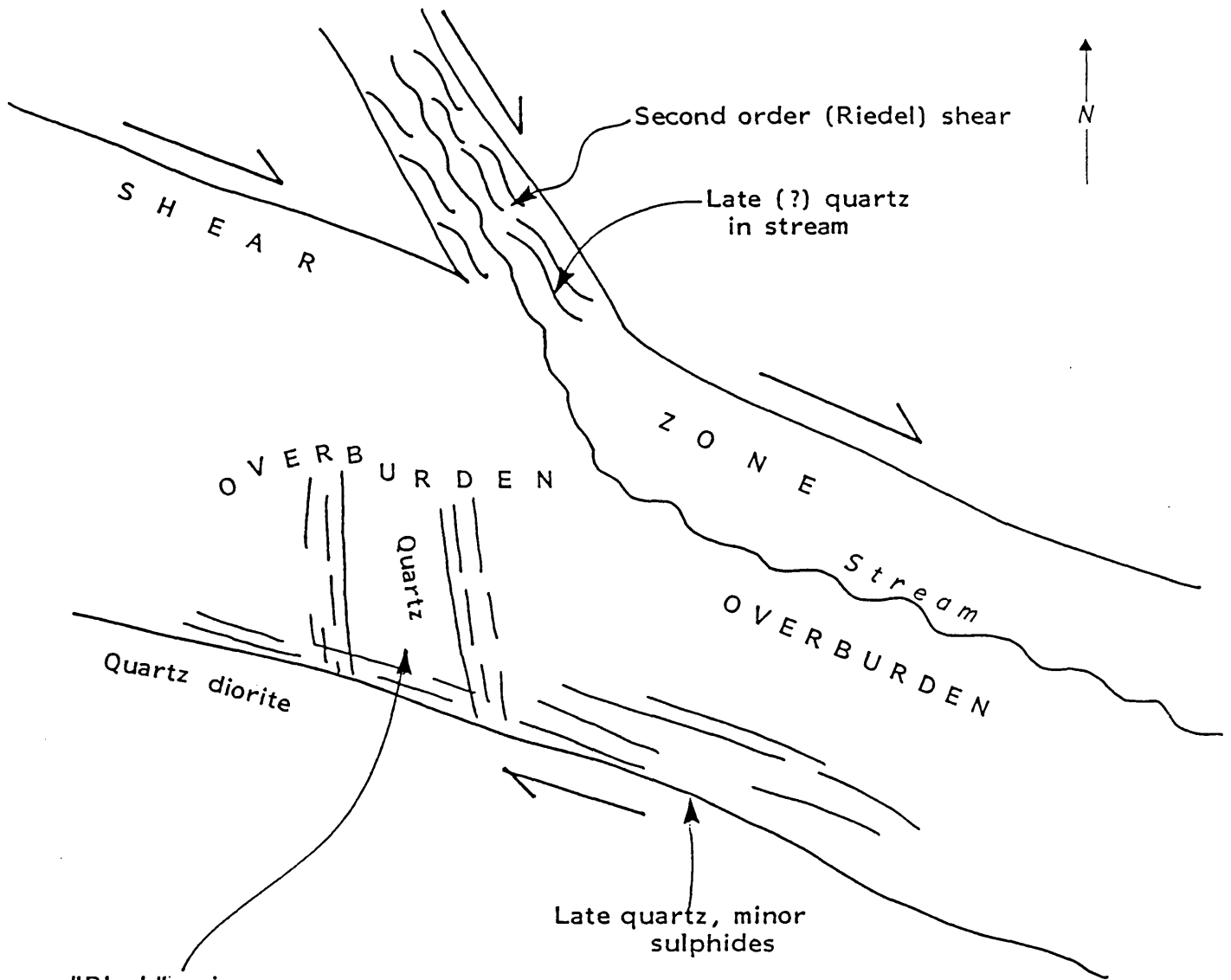


SCHMATIC COMPILATION OF OBSERVATIONS
 SURFACE EXPOSURE OF "NO. 2" VEIN AND VICINITY
 UNITED BEAR GROUP SHEAR ZONE

ARCTEX ENGINEERING SERVICES

To Accompany Report By: *Locke B. Goldsmith, P.Eng.*
Consulting Geologist

June 1986



"Black" vein,
 extension gash vein (?),
 or truncated sigmoidal vein (?)
 developed early in history of
 shear, with appreciable
 gold and sulphides.

NOT TO SCALE

SCHEMATIC COMPILATION OF OBSERVATIONS
 SURFACE EXPOSURE OF "BLACK" VEIN AND VICINITY
 UNITED BEAR GROUP SHEAR ZONE

ARCTEX ENGINEERING SERVICES

To Accompany Report By: Locke B. Goldsmith, P.Eng.
 Consulting Geologist

June 1986



United Tommy Group

The presence of high-grade gold values in narrow northeasterly trending parallel quartz veins and veinlets is well documented (Stephenson as quoted in Drummond, January 19, 1984; C.J. Brown, August 20, 1982; Spilsbury, September 17, 1984). Sulphides are leached from the veinlets at surface and in shallow rock trenches; presumably gold has also been leached. With reference to gold geochemistry reported from a surface trench on a narrow vein and in the adit which intersects and follows the vein, the tenor of gold is higher in vein samples from the adit, thus tending to support the observation that gold content may increase with depth. The adit does not appear to have intersected the main veinlet zone, but rather followed one narrow quartz vein.

The report of Spilsbury et al. (April 4, 1985) summarizing the results of sampling and assaying in shallow rock trenches concludes that gold values in the veinlet zone across widths which would be required for bulk mining are too low to be economic. However, as noted above, the veinlets where exposed at depths of 0.2 to 0.4 m in these trenches display leaching of sulphides. It appears that below the leached zone the grade of gold may increase.

CONCLUSIONS

General

A considerable amount of work has been completed recently on the properties. Both claim groups are essentially ready for drill tests.

1) United Bear Group

Gold occurs in quartz veins within a wide, persistent, regional shear zone in volcanics. Structural controls are of importance in defining the geometry of quartz veins which appear to trend obliquely across the zone of shearing. Gold may also be hosted in the shear separate from obvious quartz veining. Moderate tonnages of high-grade gold mineralization (assays to 1.626 oz Au/ton) could possibly be developed within the various

discrete quartz veins; a larger, bulk tonnage potential should be investigated by sampling the entire width and length of the shear zone. Stockworks of quartz veinlets also contain gold and should be investigated.

2) United Tommy Group

Exposures of mineralized veinlets more than 350 m wide can be traced for at least 400 m of strike and possibly for 2 km. Various investigators have sampled individual veinlets and obtained very high gold values. Frequency of veinlets is variable but is often in the order of 3 to 5/metre. Surface exposures of veinlets both undisturbed and in shallow rock trenches show leaching of sulphides and thence probable leaching of gold values has occurred. The section which is intersected in the adit is not considered to have crossed the main veinlet zone. A representative valuation of the gold mineralization will require sampling at depths below the surface leaching. If gold values persist to moderate depths, potential exists for an economic bulk tonnage deposit.

RECOMMENDATIONS

1) United Bear Group

Phase 1

Some preliminary geological mapping and soil sampling should be completed to assist in defining drill targets. A preliminary diamond drill program of 500 metres to test both quartz veins and shear zones is recommended.

Phase 2

A second diamond drill program consisting of some 3000 metres might be required if encouragement is obtained from Phase 1.

2) United Tommy Group

Phase 3

Several long drill holes across the veinlet zone are recommended to provide continuous sample intervals of unleached material. Approximately 2000 metres of drilling may be necessary for an initial test.

Phase 4

Detailed drilling of the veinlet zones should be undertaken if gold values obtained from Phase 3 are encouraging. Approximately 5000 metres might be required.

Phase 5

Fill-in drilling may be required on either of the known targets.

COST ESTIMATE

Phase 1 (United Bear Group)

Geological mapping, sampling	\$ 3,000	
Soil sampling	2,000	
Analyses	2,000	
Roads and drill site preparation	9,000	
Diamond drilling, 500 m at \$75/m	37,500	
Support equipment, services, supplies	3,000	
Supervision, engineering	4,000	
Report	<u>2,000</u>	
	62,500	
Contingencies at 20%	<u>12,500</u>	
Total, Phase 1	\$ 75,000	\$ 75,000

Phase 2 (United Bear Group)

Diamond drilling, 3000 m at \$75/m	\$225,000	
Assays	10,000	
Support services	10,000	
Supervision, engineering, geology	25,000	
Report	<u>5,000</u>	
	275,000	
Contingencies at 20%	<u>55,000</u>	
Total, Phase 2	\$330,000	\$330,000

Phase 3 (United Tommy Group)

Diamond drilling, 2000 m at \$75/m	\$150,000	
Assays	25,000	
Support services	10,000	
Supervision, engineering, geology	20,000	
Report	<u>5,000</u>	
	210,000	
Contingencies at 20%	<u>42,000</u>	
Total, Phase 3	\$252,000	\$252,000

Phase 4 (United Tommy Group)

Diamond drilling, 5000 m at \$75/m	\$375,000	
Assays	50,000	
Support services	25,000	
Supervision, engineering, geology	50,000	
Report	<u>10,000</u>	
	\$510,000	
Contingencies at 20%	<u>102,000</u>	
Total, Phase 4	\$612,000	\$612,000

Phase 5

A budget of \$500,000 should be available
for additional drilling as required on
either sector of the property

\$500,000

Total, Phases 1-5

\$1,769,000

Results of each Phase should be compiled into an engineering report; continuance to the subsequent Phase should be contingent upon receiving favourable conclusions and recommendations from an Engineer.



Respectfully submitted.

Locke B. Goldsmith

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.

June 26, 1986

ENGINEER'S CERTIFICATE
LOCKE B. GOLDSMITH

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario and the Northwest Territories, and a Registered Professional Geologist in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree in Geology from Michigan Technological University, a M.Sc. degree in Geology from the University of British Columbia, and have done postgraduate study in Geology at Michigan Tech and the University of Nevada. I am a graduate of the Haileybury School of Mines, and am a Certified Mining Technician. I am a Member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy, and a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 27 years.
4. I have authored the report entitled, "Review of Exploration Data, United Bear and United Tommy Mineral Claim Groups, Kennedy River Area, Alberni Mining Division, Vancouver Island, B.C.", dated June 26, 1986. The report is based upon fieldwork and research supervised by the author.
5. I have no ownership in the property, nor in the stocks of International Coast Minerals Corp..
6. I consent to the use of this report in a prospectus, or in a statement of material facts related to the raising of funds.

Respectfully submitted,



Locke B. Goldsmith
Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.
June 26, 1986

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- Drummond, A.D. January 19, 1984. Report on the Tommy, Golden Gate, and Waterfall Mineral Claims, Alberni Mining Division, Kennedy River, West of Port Alberni, B.C. In Statement of Material Facts for International Phoenix Energy Corporation, dated May 17, 1984.
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- Helsen, J.N. September 17, 1985. Property examination report, Bear Group, Alberni Mining Division, B.C. Private report for Noranda Exploration Company, Limited (reproduced in the Appendix of this report; also subsequent sampling October 2, 1985, which has no locations plotted on maps).
- Muller, J.E. and Carson, D.J.T. 1969. Geology and mineral deposits of Alberni Map-Area, B.C. G.S.C. Paper 68-50 and Map 17-1968.
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Spilsbury, T.W. et al. April 4, 1985. Report on trenching and sampling program on the Tommy mineral claim, Alberni Mining Division. Private report for Teck Exploration Limited and International Phoenix Energy Corporation.

APPENDIX

SAMPLE DESCRIPTIONS, BEAR MINERALIZATION

L.B. GOLDSMITH

SAMPLE DESCRIPTIONS
BEAR MINERALIZATION

<u>Sample No.</u>	<u>Description</u>	<u>Assays</u>	
		<u>oz/ton Au</u>	<u>oz/ton Ag</u>
2V	Number 2 Vein, chip sample across 60 cm of sheared footwall (south-west side of vein) volcanics and 1.5 m of quartz vein. Volcanics with disseminated pyrite. Vein contains pyrite-pyrrhotite to 5% with lesser chalcopyrite. The vein trends $\pm 300^\circ$ at an acute angle ($\pm 30^\circ$) with the main east-west shear zone.	1.228	0.89
Black-1	Black Vein, chip sample 2.0 m east-west across a quartz vein with sections of massive pyrrhotite, pyrite, variable ($\frac{1}{2}\%$ to 5%) amounts of sphalerite, and lesser chalcopyrite. Quartz terminates against an east-west shear on the south side; smears of quartz towards the east on the north side of the shear may be of a later generation. Attitude of quartz is not discernible from the exposure but a trend at an angle to the east-west shear is suggested.	0.146	0.21

ASSAYS, BEAR MINERALIZATION

L.B. GOLDSMITH



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212 Brooksbank Ave.
North Vancouver, B.C.
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Analytical Chemists • Geochemists • Registered Assayers

Phone: (604) 984-0221
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CERTIFICATE OF ASSAY

TO : ARCTEX ENGINEERING
301 - 1855 BALSAM ST.
VANCOUVER, B.C.
V6K 3M3

CERT. # : A8613472-001-A
INV GICE # : I8613472
DATE : 11-JUN-86
P.C. # : NGNE

CC: L. B. GOLDSMITH

Sample description	Prep code	Ag oz/T RUSH FA	Au oz/T RUSH FA				
2V	236	0.89	1.228	--	--	--	--
BLACK-1	236	0.21	0.146	--	--	--	--

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.....
Registered Assayer, Province of British Columbia

J.N. HELSEN PROPERTY EXAMINATION REPORT
BEAR GROUP
NORANDA EXPLORATION COMPANY, LIMITED

NORANDA EXPLORATION COMPANY, LIMITED.
(No Personal Liability)

NTS : 92F/3W

PROPERTY NAME: BEAR GROUP

PROPERTY EXAMINATION REPORT

DIVISION: CORDILLERA

Commodity : Au-Ag-Zn
Date of Report: September 17, 1985
Date of Exam : September 5, 1985
Examined By : J.N. Helsen
Additional Report/2nd. visit.

1) PROPERTY NAME(S)

BEAR GROUP

2) LOCATION:- General Statement
(Attach Location Map)

Province: B.C. District: Southern Mining Division: Pt. Alberni
Long.: 125°25'W Lat.: 49°10'20"N Additional:

Accessibility: Accessible via the Alberni-Ucluelet Road #4 (about 40 minutes from Pt. Alberni). At the moment the Kennedy River must be crossed on foot but there are good indications that within a few months the property may be accessible by 4 x 4 via a new logging road. Distance to Pt. Alberni about 60 km and about 30 km to Ucluelet.

3) CONCLUSIONS AND RECOMMENDATIONS:

Additional sampling was carried out on the cleaned newly exposed "Black Vein". Results over 2.9 m (across vein) show 28.97 gpt Au, 13.37 gpt Ag, more than 2% Zn. There are good indications that the gold mineralization extends into the Karmutsen H.W. Gold also occurs in stockworks in the granitic intrusion east of the adit and along the Bear Creek fault zone.

4) ACTION TAKEN:

Meeting with Waldo Ejtel on September 17, 1985 during which he outlined his conditions for a 60% or alternative 100% ownership for Noranda.

5) SIZE AND LEGAL STATUS OF PROPERTY:

4 reverted Crown Grants i.e. #293, #294, #300, #487.

These claims are surrounded by claims of three other junior companies and are:

Mojo
Captain Hook
Esthez

6) OWNERSHIP

Waldo EJTEL, President
First Coast Mineral Corporation,
1614 - 675 W. Hastings Street,
Vancouver, B.C.
V6B 1N2
PHONE : (604) 669-0712

7) VENDOR'S PROPOSED TERMS:

[Non-technical data]

8) HISTORY OF DEVELOPMENT AND PRODUCTION:

The Bear Creek property goes back as far as 1902 when a tunnel was driven. Little information, however, is available. The youngest report (Minfile) was written in 1916.

The tunnel, contrary to indications on Figure 5, is not straight but changes directions several times. The tunnel goes into the hillside for 200'.

Several veins are crossed by the tunnel and on one occasion the last vein hit, disappears to reappear again after tunneling through 30' of barren rock.

9) REGIONAL GEOLOGY: (Attach Maps)

The regional geology is made up mainly by:

1. Triassic and older Karmutsen Formation: mafic volcanics predominantly with jasperoid tuffs, breccias and conglomerates at the base.
2. Upper Triassic Quatsino Formation: predominantly thickly bedded massive limestones.
3. Lower Jurassic Bonanza Subgroup: mainly andesitic volcanics with minor amounts of greywackes, argillites, sandstones.
4. Middle to Upper Jurassic Island Intrusions: i.e. granodiorites and diorites.

10) GEOLOGY OF THE DEPOSIT: (Geology, mineralogy, length, width, dip Strike)

The property lies for about 2/3 in the Karmutsen Group (Triassic) and 1/3 (western part) Younger Island Intrusions (granitic). These intrusions are Jurassic or even younger in age.

A major fault zone strikes in a NW-SE direction south of the property, to form two branches on the property itself. These are named the

i) Bear Creek fault zone forming the contact between younger intrusives and Karmutsen volcanics;

ii) Mine Creek fault zone which runs entirely in intrusive rocks (Figure 3).

The mineralization occurs in and along the Bear Creek fault zone. Gold mineralization has been shown to occur in variable amounts in:

- 1) Quartz veins in tunnel and at surface (Figures 5 & 6)
- 2) Karmutsen H.W. (Sketch #2)
- 3) Stockwork in granitic intrusions F.W. Below adit.

The best mineralization was found in a newly discovered vein west and uphill from the adit @ about 150 m distance. In this new "Black Vein" mineralization consists of pyrite, chalcopyrite, sphalerite, minor galena and apparently also visible gold (not seen by author). This vein is almost vertical and has an E-W strike. Vein #2 in the tunnel also strikes about E-W with a 50° dip to the north and a thickness of 5'. There is no indication how the new vein relates to the older vein system except that it lies along the same fault creek zone. VLF info indicates an anomalous zone of about 40' wide uphill from the Black Vein exposure.

P. Wilton from observations in the tunnel believes the veins to pinch and swell and they may be even on echelon.

11) SAMPLES TAKEN (Note Sample Numbers and refer to Sample Report)

In addition to previous samples taken (Figures 5 & 6 and Sketch #1), samples were taken across remnants of Vein #2 in the tunnel, from vein exposures at surface and from the newly discovered vein uphill.

The results are in Table #1.

12) ESTIMATE OF RESERVE POTENTIAL: (State dimensions and source of information).

Potential exist for Au mineralization in veins, disseminated in wallrock and in stockwork. The distance between the downhill stock work and uphill black vein exposure is in the order of 200 m.

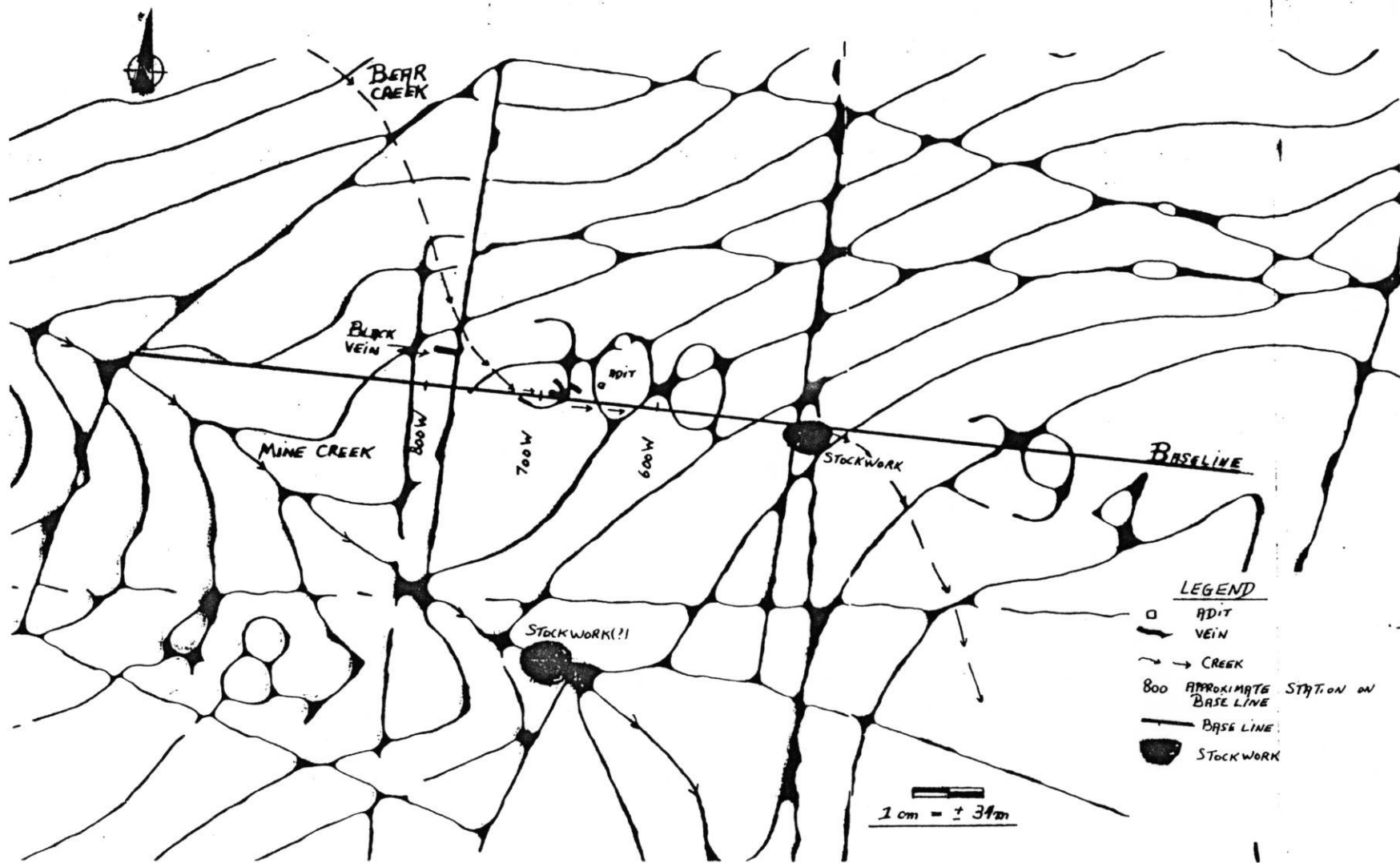
13) REFERENCES:

- G.S.C. §Map 17-1968, J.E. Muller
§Paper 68-50
- W.D. Groves. Archean Resources Corp., "Examination of Bear Group"
for First Coast Minerals Corporation, June 1985.

14) APPENDICES:

- Figure 1 Topographic Map
- Figure 2 Claim Map.
- Figure 3 Geology on and around the Bear Group property.
- Figure 4 Claim map with location of projected logging road.
- Figure 5 Approximate location of the veins at the surface.
(See also Sketches #1 & #2)
- Figure 6 Location of Black Vein in relation to other veins.

- Sketch 1 Sketch of veins (yellow area on Figure 5)
- Sketch 2A Cross section of vein at 90 m station in tunnel
- Sketch 2B Quartz vein at surface branching out.



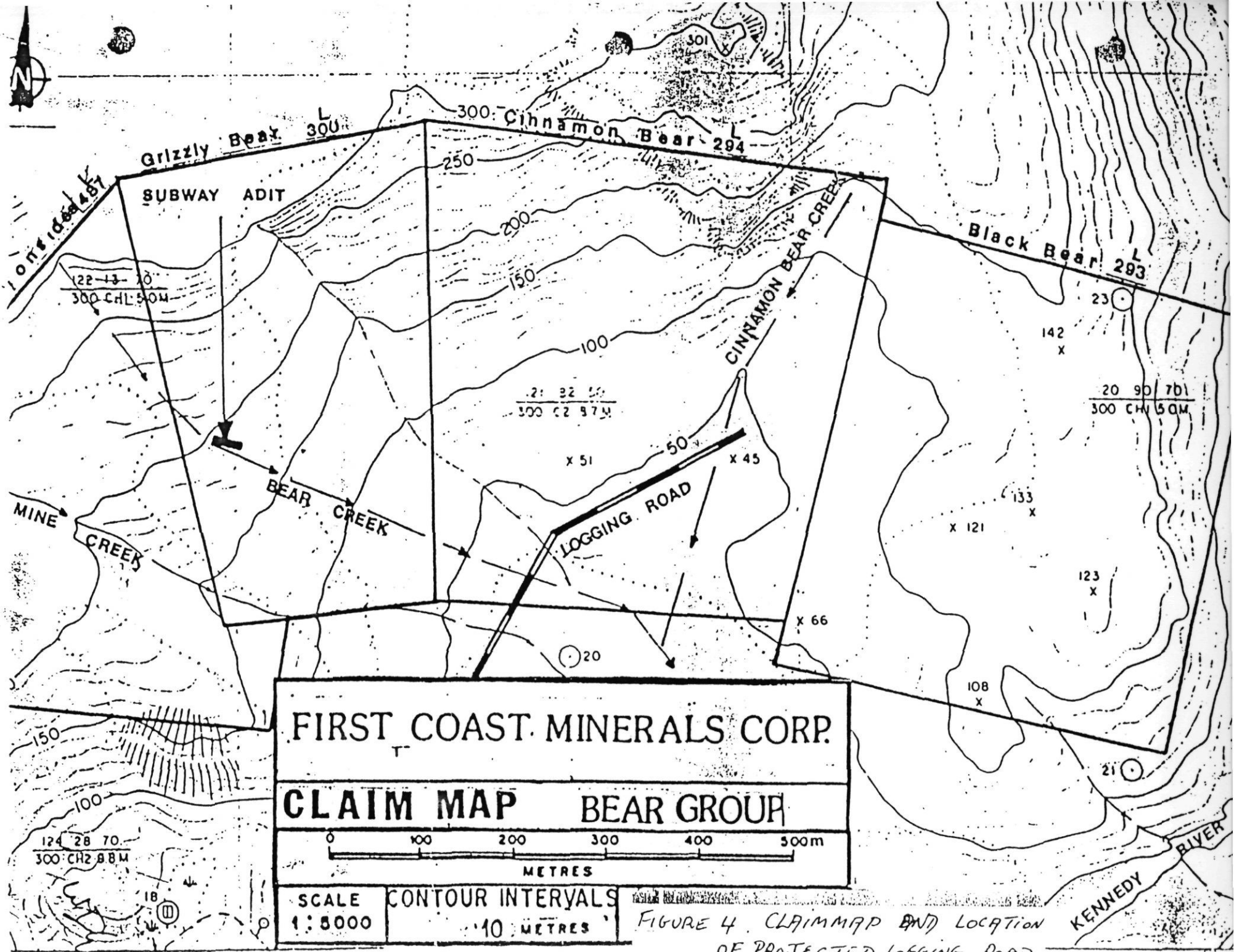


FIGURE 4. CLAIM MAP AND LOCATION OF PROJECTED LOGGING ROAD

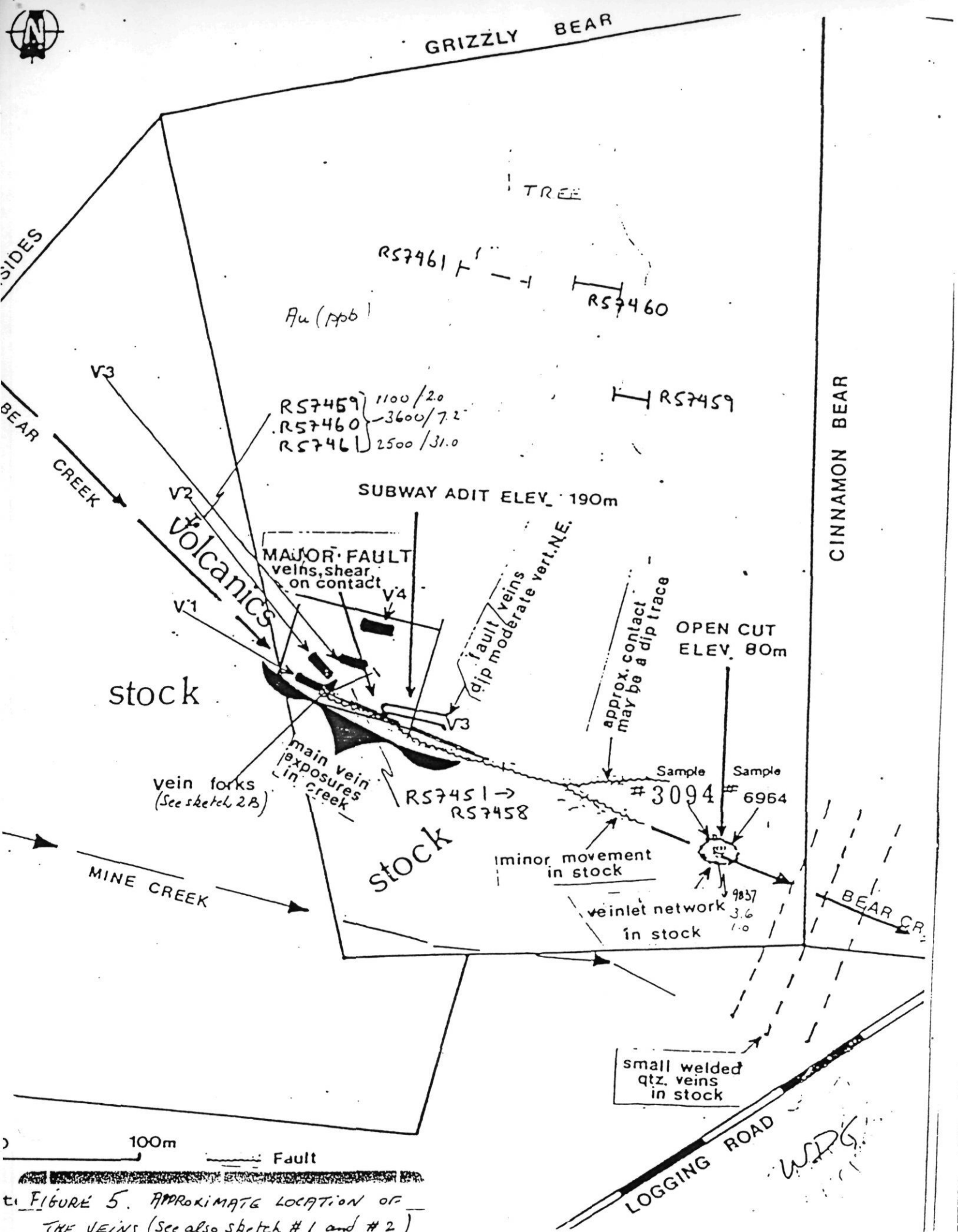


FIGURE 5. APPROXIMATE LOCATION OF THE VEINS (See also sketch # 1 and # 2)



BL 800W
BLACK VEIN
28.97, 13.37, > 2.0
 2.9

BL 750W

BL 650W
 62.6 m
 1902 ADIT & TUNNEL

W

E

LONGITUDINAL LOOKING NORTH
BEAR CREEK
VEIN - SHEAR FAULT ZONE
NTS 92 F 3

1 cm = 10 m

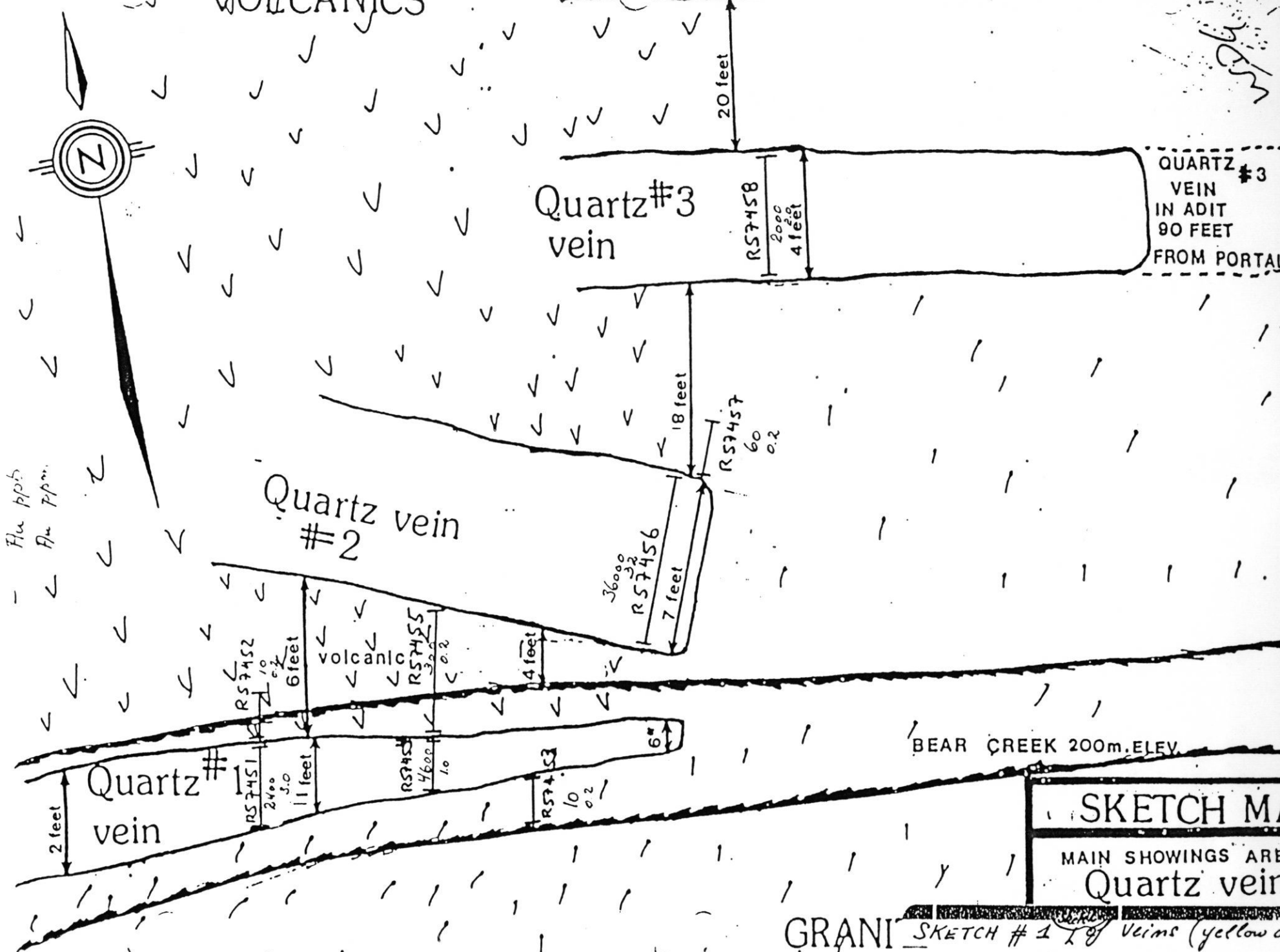


STOCKWORK
 IN
 GRANITE

3.6, 2.9, 2.0
 2.0

VOLCANICS

remajr 1 quartz vein # 4



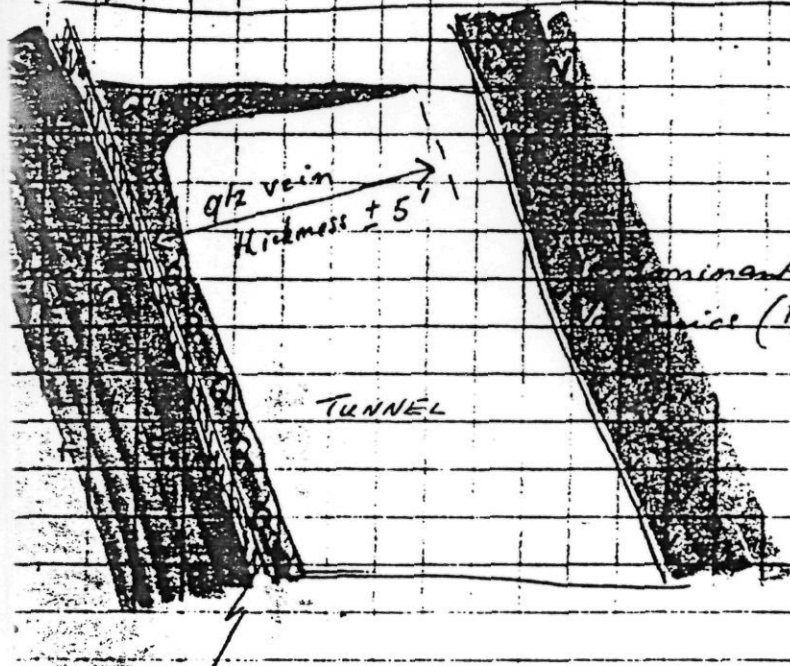
QUARTZ #3
VEIN
IN ADIT
90 FEET
FROM PORTAL

SKETCH MAP
MAIN SHOWINGS ARE
Quartz vein

GRANI SKETCH # 1 of Veins (yellow a on Figure 5.

U.S. GEOLOGICAL SURVEY Cross section of quartz vein (at 90m station from adit) in tunnel.

sample # 9831 B - Quartz vein @ 90' from adit



Vein az. E-W / 50° dip N

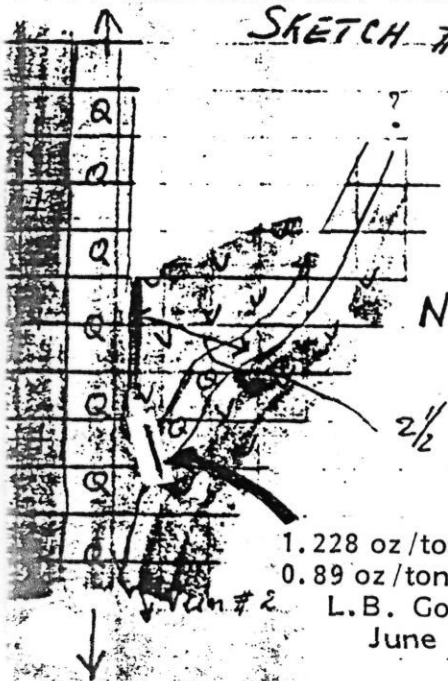
predominantly
Andesite

9831 Au / Ag
20.81 / 16.1

1cm gauge zone

sample # 9832 B quartz vein grab sample (at about 5m west of # 9831 sample) indicates Au / Ag 26.0 / 13.7 gpt

SKETCH # 2 B. Quartz vein at surface branching out into volcanics



2 1/2' (0.75 m) random chip # 9833 taken from vein

Au / Ag = gpt
8.18 / 6.9

1.228 oz/ton Au
0.89 oz/ton Ag
L.B. Goldsmith
June 7, 1986

Bear Ck fault/vein system (vein # 2)

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: Bear Group

92F/3

CODE : 8507-019

GCI 51275

Project No. : 127

Sheet: 1

Date rec'd: July 2

Material : Rock

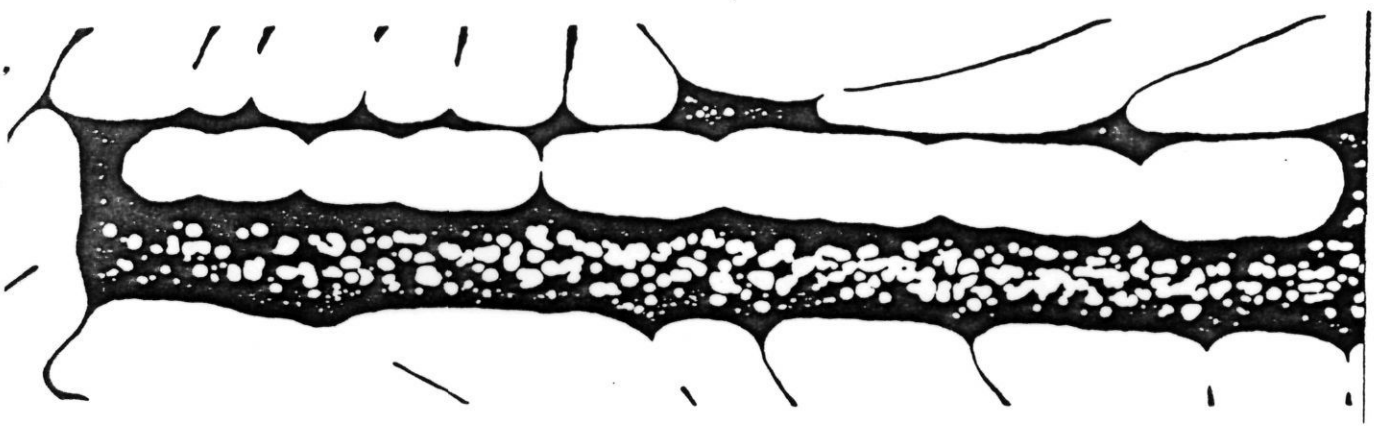
Geol.: R.W.

Date compl: July 18

Remarks :

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	As	PPB Au	TYPE	WIDTH
75	<u>57451</u>	180	<u>23000</u>	24	<u>3.0</u>	24	<u>2400</u>	Chip	36
76	52	22	180	1	0.2	2	10	Chip	45
77	53	12	64	1	0.2	2	10	Chip	60
78	54	68	5000	1	1.0	2	4600	Chip	26
79	55	72	220	1	0.2	2	300	Chip	190
80	<u>56</u>	850	<u>19000</u>	520	<u>32.0</u>	120	√36000	Chip	130
81	57	38	260	1	0.2	2	60	Chip	70
82	58	170	860	6	2.0	2	2000	Chip	75
83	59	52	120	4	2.0	2	1100	Random chip	30
84	60	2600	5400	14	7.2	2	3600	Random chip	35
85	57461	6500	17000	6	31.0	2	2500	Random chip	60



✓



REPORT: 425-2716

PROJECT: 427-8509-048 PAGE 21

SAMPLE NUMBER	ELEMENT UNITS	AU GMT	AG GMT
P2-9831B		20.81	16.1
P2-9832B		26.02	13.7
P2-9833B		18.19	16.9
P2-9834B		38.44	13.7
P2-9835B		26.64	11.57

P2-9836B		21.84	14.7
P2-9837B		3.60	1.0



REPORT: 125-2716

BEAR GR (JH)

PROJECT: 427-8509-048 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM
R2-9831B		320	660	7000
R2-9832B		1000	450	>20000
R2-9833B		920	80	5600
R2-9834B		950	51	12400
R2-9835B		1540	37	>20000
R2-9836B		1630	57	>20000
R2-9837B		45	11	1300

Property Submissions

Southern

BEAR

17/9/85 JH DB WM DP

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Tel: (604) 985-0681
Fax: 04-352667



Certificate
of Analysis

REPORT: 625-2716

BEAR GR (JH)

PROJECT: 427-8509-048 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Zn PCT
---------------	---------------	--------

E2 9832B		2.48
E2 9835B		2.50
E2 9836B		4.20

[Empty table row]

[Empty table row]

[Empty table row]

[Empty table row]

[Empty table row]

[Empty table row]

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8/9/87 JH DB WM DP

DM, AS, Au

8510-021

NORANDA EXPLORATION COMPANY, LIMITED

23 801L

PROPERTY BEAR GROUP

427-A4

N.T.S. 92 F 3

DATE Sept 30, 85

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH	ANALYSIS GEOCHEM						SAMPLED BY
				Flu	Pg	Cu	Pb	Zn	As	
820W-40S	Soils from BEAR Group									K. CROSS
" - 35S	820 W = 1 20 m west of Black Vein									J. HELG
" - 30S	Stonking and then 40 m to S & N									
" - 25S										
" - 20S										
" - 15S										
" - 10S										
" - 05S										
" - 00S										
" - 05N										
" - 10N										
" - 15N										
" - 20N										
" - 25N										
" - 30N										
" - 35N										
" - 40N										
800N-0N	Grid of W. EITEL									
" - 15N	" "									
825W-15S	" "									
" - 0S	" "									
" - 15N	" "									
" - 30N	" "									

SBC 427
SOIL 8510-021

SBC 427
SOIL 8510-021

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: BEAR GROUP

CODE : 8510-021

Project No. : 427-A4

Sheet: 1 of 1

Date rec'd: SEP.02

Material : SOIL

Geol.: J.H.

Date compl: NOV.04

Remarks :

Values in PPM, except where noted.

T. T. No.	SAMPLE No.	Cu	Zn	Pb	Ag	As	PPB Au
43	820W-40S	10	30	2	0.2	1	10
44	35	14	48	6	0.2	1	10
45	30	16	60	2	0.2	1	10
46	25	14	60	2	0.2	1	10
47	20	38	110	14	0.6	1	10
48	15	14	70	20	0.2	1	10
49	10	12	58	14	0.2	1	10
50	5	12	66	4	0.2	1	50
51	820W-0S	12	46	4	0.2	1	10
52	820W-5N	10	44	4	0.2	1	10
53	10	10	200	6	0.2	1	10
54	15	10	44	4	0.2	1	10
55	20	34	100	8	0.2	1	10
	25	12	50	6	0.2	1	10
57	30	6	30	2	0.2	1	10
58	35	10	36	4	0.2	1	10
59	820W-40N	16	52	2	0.2	1	10
60	825W-15S	10	44	4	0.2	1	10
61	825W-0S	14	50	4	0.2	1	10
62	825W-15N	8	34	2	0.2	1	10
63	825W-30N	28	94	10	0.2	1	10
64	800W-0N	18	96	18	0.2	1	10
65	800W-15N	8	34	4	0.2	1	10

11 Rx

TO DDC

Assay Au Ag

Geochem Cu Pb Zn

8510-0

NORANDA EXPLORATION COMPANY, LIMITED

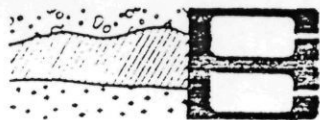
PROPERTY BEAR GROUP / 427-A4

N.T.S.

DATE Oct. 2, 1985

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH (m)	ASSAYS					SAMPLED BY
				Au	Cu	Pb	Zn	Ag	
	BEAR GROUP			Assay	Geochem	Geochem	Ass		J. HELD
9790	qtz vein / Az 280° / 80° N / exp. over ± 6m Close to 675 W station. qtz with minor py filling	chip	0.45	15.87					
9791	qtz vein @ 10.5 m from 675 W to west / grab in creek bed of loose material, white and grey quartz (grey contains sulfides along cracks)	grab							
9792	qtz vein with later py. sph. born. galena, chpy from slope @ 66 1/2 m from total . Fractured qtz vein filled with sulfides along cracks and a pyrite vein working along strike within qtz vein 290° / 100° / 1 B (branch typical mineral)	grab	109.65						
9793	part of quartz vein @ slope @ 66 1/2 m from adit. sheared qtz vein with chert/clay layers (a few mm to cm) within qtz vein	chip	0.8						
9794	grab in qtz vein (at ± 1 m from slope) of pyrite filling in specimens (range) in qtz	grab		3.53					
9795	grab along qtz vein from slope to 49 m station (along strike)	grab	17.5						
9796	grab of pad with pyrite at 50 m station	"	0.4						
9797	stack rock in granite (chip every 10 cm) 0-5 m	chip	5.0						
9798	" " " 5-10 m	"	5.0						
9799	" " " 10-15 m	"	5.0						
9800	" " " 15-20 m	"	5.0						



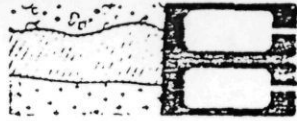
REPORT: 425-3244

PROJECT: 427

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
2 9790		15.87	8.2
2 9791		0.65	1.4
2 9792		109.65	51.8
2 9793		0.51	1.0
2 9794		3.53	2.4
2 9795		0.86	1.0
2 9796		1.71	2.4
2 9797		0.07	<0.7
2 9798		0.69	<0.7
2 9799		<0.07	<0.7
2 9800		0.07	<0.7

Cynthia Ford



REPORT: 125-2244

BEAR GR (JV)

PROJECT: 427 8510-025 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM
9790		255	18	670
9791		49	18	2700
9792		2380	2600	>20000
9793		74	20	1020
9794		103	53	1120
9795		260	20	2300
9796		550	19	48
9797		11	5	79
9798		24	5	1960
9799		5	3	85
9800		4	5	53

cc Mr. JH P.B. W.A. DP

ROBERT BROWN GEOLOGY MAP AND ASSAYS
BEAR GROUP
LAC MINERALS LTD.



REF: 626-0026 (COMPLETE)

AGENCY REFERENCE INPUT: 626

ENTR: LAC MINERALS LTD.
 QTY: NONE GIVEN

SUBMITTED BY: R. BROWN
 DATE PRINTED: 13-JAN-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	14	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
2	Zn Zinc	14	1 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
3	Ag Silver	14	0.2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
4	Au Gold - Fire Assay	14	5 PPM	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
1 ROCK OF BEN ROCK	14	2 -150	14	CRUSH, PULVERIZE -150	14

REMARKS: ASSAY OF HIGH Au & Ag TO FOLLOW ON 626-0026.

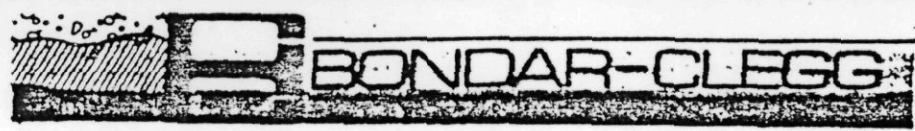
REPORT COPIES TO: MR. ROBERT BROWN

INVOICE TO: MR. ROBERT BROWN

RECEIVED JAN 15 1986

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1. A
 2. B C
 3. DRS
 (004) 985-0681
 04-152667



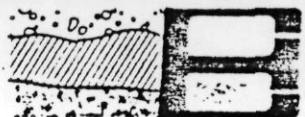
PORT: 125-0026

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	Au PPB
86 T1		11	84	<0.2	<5
86 T1		1770	>20000	15.0	>10000
86 T1A		3000	>20000	11.0	>10000
86 T1B		1070	>20000	9.5	>10000
86 T2A		70	355	3.0	5000
86 T3		1100	13600	34.0	5000
86 T3A		72	4400	1.9	8400
86 T3B		105	9000	1.9	1900
86 T3C		240	1660	3.0	3100
86 T4		158	1500	4.5	7200
86 T5		500	13600	11.0	>10000
86 T6		97	2200	2.3	4300
86 T7		14	144	0.2	160
86 T9		10	92	0.2	1450

Handwritten: F.A. East Minerals Corp

RECEIVED 11/15/87



REPORT: 626-0026 (COMPLETE)

REFERENCE INFO:

CLIENT: LAC MINERALS LTD.

SUBMITTED BY: R. BROWN

PROJECT: NONE GIVEN

DATE PRINTED: 20-JAN-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold - FIRE ASSAY	5	0.001 OPT		
2	Zn Zinc	3	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	5	0 -150	5	AS RECEIVED, 40 SP	5

NOTES: = indicates SEE OBS REMARKS

REMARKS: = Au WAS FOUND IN THE -100 MESH FRACTION
 AFTER SCREENING AND CALCULATED INTO THE
 TOTAL.

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INVOICE TO: MR. ROBERT BROWN

First Coast Minerals

RECEIVED JAN 20 1986

PORT: 626-0026

PROJECT: NONE GIVEN

PAGE 1

PILE NUMBER	ELEMENT UNITS	Au OPT	Zn PCT
96 T1		1.173	2.48
96 T1A		0.507=	2.14
96 T1B		0.745=	3.70
96 T3		1.626=	
96 T5		0.401	



**RESULTS OF 4.82-TON BULK SAMPLE
FROM BLACK VEIN SHIPPED TO
COMINCO LTD.**



18 JUNE 1986

FIRST COAST MINERALS CORP.
 400 - 1455 ROBSON STREET
 VANCOUVER, B.C.
 V6G 1C1

FIRST COAST MINERALS AU/PB ORE
 PRELIMINARY LOT NO 1

CAR NUMBERS: 1 TRUCK DATE RECEIVED: 1986 05 12
 (11 BARREL)

WEIGHTS: NET WET 9700 MOIST 0.5 % NET DRY 9651 S.D.T. 4.8255

ASSAYS:

LEAD	0.4 %	ZINC	3.4 %	SILVER	0.65 OZ/TN	GOLD	0.230 OZ/T
COPPER	0.23 %	IRON	24.2 %	ANTIMONY	0.14 %	ARSENIC	0.05 %
SULPHUR	18.0 %	ALUMINA	0.8 %				

QUOTATIONS: JUNE AVERAGE - LEAD ZINC SILVER GOLD COPPER

EXCHANGE:	JUNE	\$US TO \$CDN	1.378500	STERLING TO \$US	1.481000
LABOUR RATE:		\$ 19.13		CPI: 312.00	

CALCULATED PRICES:

GOLD 343.20 * 1.3785 * .98 463.63918 \$/OZ

PAYMENTS: (PER SHORT DRY TON)

GOLD	CONTENT	DEDUCTIONS	PAID FOR	
	0.2900 CZ	0.0300 OZ	0.2500 OZ	\$ 115.91
			TOTAL PAYMENT	\$ 115.91

DEDUCTIONS: (PER SHORT DRY TON)

BASIC TREATMENT CHARGE	:		\$	-207.23
C.P. INDEX	:	(312. - 300.) * .25		-3.00
LABOUR: LABOUR RATE	:	(19.13 - 18.25) * 100. * .05		-4.40
IRON PENALTY	:	(24.20 - (5. + (1.44 * 3.40)))		
	:	* 3.55		-50.75
ALUMINA PENALTY	:	(.80 - .50) * .90		-0.27
	:	NET DEDUCTIONS	\$	-265.68

NET VALUE (PER SHORT DRY TON) \$ -149.77

GROSS LOT VALUE \$ -722.72

NET LOT VALUE \$ -722.72

Analysis Certificate

Analytical Services, Trail, B.C.



Yr Mo Dy
86 /06 /17

SP08 B60512 8406 1ST COAST MN LOT #1 LEAD ORE

H2O	AU(PULP)	AU(MET)	AU(TOT)	AG(PULP)	AG(MET)	AG(TOT)	CU	FB
%	OZ/TON	OZ/TON	OZ/TON	OZ/TON	OZ/TON	OZ/TON	%	%
0.5	0.280	<0.001	0.280	0.65	<0.01	0.65	0.23	0.4

ZN	S	SI02	AL203	FE	CAO	SB	AS	BI
%	%	%	%	%	%	%	%	%
3.4	18.0	51.0	0.8	24.2	0.04	0.14	0.05	0.01

CD
%
0.06

Certificate Number 06 39090

Page 1
END CERTIFICATE

Original

Chief Chemist

0015

SAMPLING BY W.D. GROVES, MAY 1986

**Samples T1 to T4 are from the Tommy claim,
locations unspecified.**

**Samples BP-1 to BP-3 are from the Black vein,
taken subsequent to blasting and removal
of a bulk sample. Orientation and nature
of samples unspecified.**

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: MAY 26 1986

DATE REPORT MAILED: *June 3/86*

ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU** AND AG** BY FIRE ASSAY

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

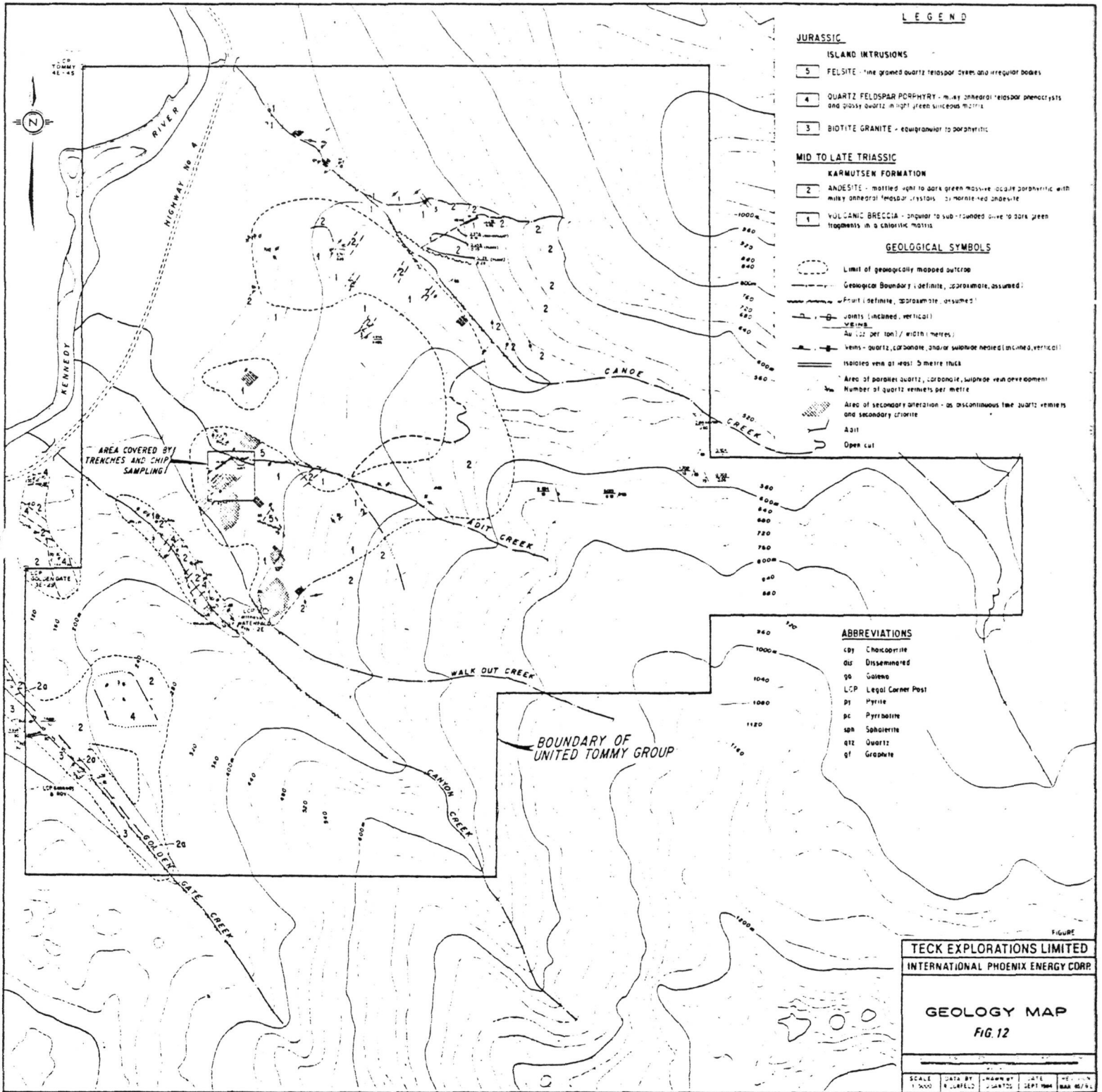
FIRST COAST MINERALS

FILE # 86-0774A

PAGE 1

SAMPLE#	Ag** OZ/T	Au** OZ/T
T-1	1.27	.320
T-2	1.27	.294
T-3	3.42	6.140
T-4	.76	.618
TONY-1	.04	.023
TONY-2	.15	.032
BF-1	.36	.762
BF-2	.31	.492
BF-3	.55	.942
G-1	.19	.074
WF-1	.55	.768

T.W. SPILSBURY MAPS
GEOLOGY AND CHIP SAMPLES, UNITED TOMMY GROUP
TECK EXPLORATIONS LIMITED -
INTERNATIONAL PHOENIX ENERGY CORPORATION



LEGEND

JURASSIC

- ISLAND INTRUSIONS**
- 5 FELSITE - fine grained quartz feldspar veins and irregular bodies
 - 4 QUARTZ FELDSPAR PORPHYRY - in situ anhedral feldspar phenocrysts and glassy quartz in light green siliceous matrix
 - 3 BIOTITE GRANITE - equigranular to porphyritic

MID TO LATE TRIASSIC

- KARMTUSEN FORMATION**
- 2 ANDESITE - mottled light to dark green massive locally porphyritic with milky anhedral feldspar crystals, 5% marble bed andesite
 - 1 VOLCANIC BRECCIA - angular to sub-rounded clasts to dark green fragments in a chloritic matrix

GEOLOGICAL SYMBOLS

- Limit of geologically mapped outcrop
- Geographical Boundary (definite, approximate, assumed)
- - - Fault (definite, approximate, assumed)
- Joints (inclined, vertical)
- VENE (Au 12 per ton) / width (metres)
- VENE - quartz, carbonate, and/or sulphide veins (inclined, vertical)
- Isolated vein at least 5 metre thick
- Area of porphyry quartz, carbonate, sulphide vein development
- Number of quartz veins per metre
- Area of secondary alteration - as discontinuous fine quartz veins and secondary chlorite
- A311
- Open cut

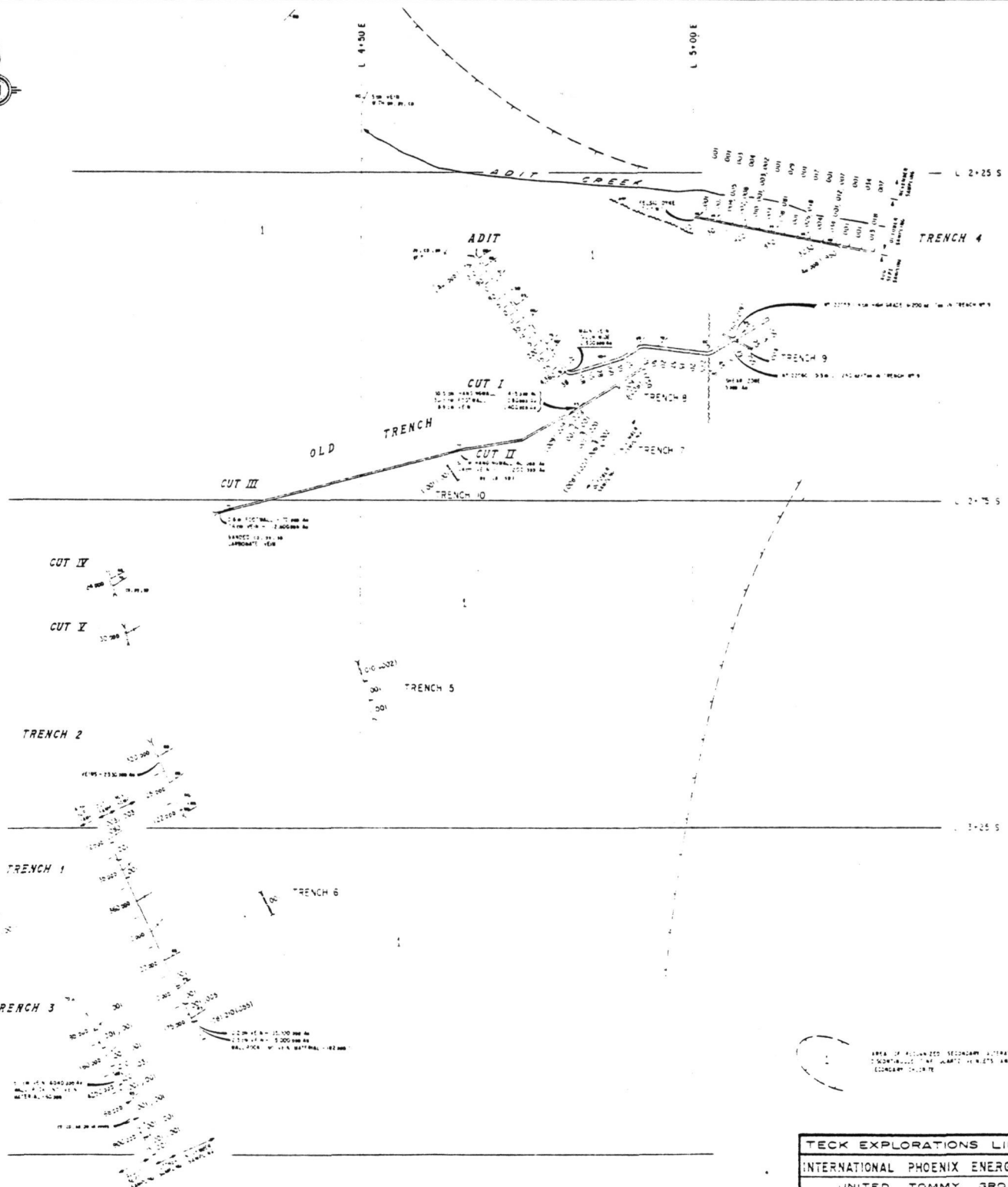
ABBREVIATIONS

- cbt Chalcocite
- dis Disseminated
- gs Gossans
- LCP Legal Corner Post
- py Pyrite
- pc Pyrrhotite
- spn Sphalerite
- qtz Quartz
- gf Graphite

TECK EXPLORATIONS LIMITED
INTERNATIONAL PHOENIX ENERGY CORP.

GEOLOGY MAP
FIG. 12

SCALE 1:5000 DATA BY J. HANNON BY J. GARDNER DATE SEPT 1984 REVISIONS 01/84



TECK EXPLORATIONS LIMITED
INTERNATIONAL PHOENIX ENERGY CORP
UNITED TOMMY GROUP
CHIP SAMPLES
Au - oz / ton
0 10 20 METERS
FIGURE NO. 15

STATEMENT OF EXPENDITURES

INTERNATIONAL PHOENIX ENERGY CORPORATION

INTERNATIONAL PHOENIX ENERGY CORPORATION

#200-595 Hornby Street
Vancouver, B.C.
V6C 2E8
(604)681-4018

June 17th, 1986

Mr. Waldo Ejtel
316-1045 Haro Street
Vancouver, B. C.

Dear Sirs:

Re: United Tommy Group

Per your request, the amount of monies spent on exploration, re the United Tommy Group was \$82,088.20.

If you have any further questions contact the Auditors, MacKay and Partners, 10th floor, 1190 Hornby Street, Vancouver, B. C., V6Z 2H6, to the attention of Liisa.

Sincerely,

INTERNATIONAL PHOENIX ENERGY CORPORATION

Per: 

H. P. Capozzi
President

HPC/dm