

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 1998/99

REPORT #: PAP 98-22

NAME: FRANK O'GRADY

PROSPECTORS ASSISTANCE PROGRAM

PROSPECTING REPORT
FRANK O'GRADY, P. ENG.
REFERENCE NO 98/99 P49



*The authour examining a moraine
West of Columbia Lake.*

FRANK O'GRADY, P. ENG.
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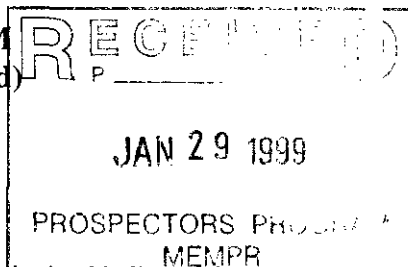
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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)



B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Frank O'Grady Reference Number 98/99 P49

LOCATION/COMMODITIES

1. Project Area (as listed in Part A) A: Hospital Creek MINFILE No. if applicable N/A
Location of Project Area NTS 82 G/12 W Lat 49° 32' Long 115° 52'
Description of Location and Access Travel 7.5 kilometers north from Cranbrook and follow the Hospital Creek logging road westerly
Main Commodities Searched For Copper
Known Mineral Occurrences in Project Area None

WORK PERFORMED

1. Conventional Prospecting (area) 6 km²
2. Geological Mapping (hectares/scale) 72.5 hectares 1:5,000
3. Geochemical (type and no. of samples) 66-soil 1-sediment
4. Geophysical (type and line km) —
5. Physical Work (type and amount) —
6. Drilling (no. holes, size, depth in m, total m) —
7. Other (specify) —

SIGNIFICANT RESULTS

Commodities N/A Claim Name N/A
Location (show on map) Lat. 49° 34' 30" Long 115° 53' 00" Elevation 1,076
Best assay/sample type Cu 48 ppm; Pb 12 ppm; Zn 61 ppm

Description of mineralization, host rocks, anomalies
Angular gabbro boulder, brecciated, large flat pieces of mica and discontinuous quartz veinlets

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17.
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Name Frank O'Grady Reference Number 98/99 P49

LOCATION/COMMODITIES

2. Project Area (as listed in Part A) B: Skookumchuck MINFILE No. if applicable 082G NE010
 Location of Project Area NTS 82G/13W Lat 49°55' Long 115°52'
 Description of Location and Access Area accessed by Skookumchuck Men. Road that branches westerly 1 km south of Skookumchuck on Hwy 95 OR Lost Dog logging road that branches north 7 km north of Kimberley
 Main Commodities Searched For Copper, Gold on Hwy 95A
 Known Mineral Occurrences in Project Area BRANCHEYE Copper, CHRIS barite

WORK PERFORMED

1. Conventional Prospecting (area) 2 km²
 2. Geological Mapping (hectares/scale) 36 hectares 1:5,000
 3. Geochemical (type and no. of samples) 89 soil + 4 ICP
 4. Geophysical (type and line km) —
 5. Physical Work (type and amount) 3.1 km of flagged line
 6. Drilling (no. holes, size, depth in m, total m) —
 7. Other (specify) Stake 6 units (CHRIS 1-6)

SIGNIFICANT RESULTS

Commodities Copper; Barite Claim Name BRANCHEYE; CHRIS
 Location (show on map) Lat. 49°55'30"; 49°50' Long 115°22'; 115°52' Elevation 1040; 1385
 Best assay/sample type 9K SED: Cu 68.9 ppm As 11.2 ppm
ICP CHRIS: 306 ppm Cu

Description of mineralization, host rocks, anomalies

BRANCHEYE: known deposit of malachite and chalcopyrite with subeconomic silver in phyllites.
(Assessment report by F. O'Grady, P. Eng.)
Cu SED anomaly 9K SED (Illustration 14)
Anomalous As 98-05-25 SED (Illustration 13)

Supporting data must be submitted with this TECHNICAL REPORT

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**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17.
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Name Frank O'Grady Reference Number 98/99 P49

LOCATION/COMMODITIES

3. Project Area (as listed in Part A) C: Columbia Lake MINFILE No. if applicable N/A
Location of Project Area NTS 82J/4 Lat 50° 14' Long 115° 55'
Description of Location and Access Located on south, east + west portions of Fir Mountain. Access on east from a north-south power line road, the Emily Creek, and Fir Mountain logging roads.
Main Commodities Searched For Cu, Au
Known Mineral Occurrences in Project Area None

WORK PERFORMED

1. Conventional Prospecting (area) 3.5 km²
2. Geological Mapping (hectares/scale) 32 hectares 1:20,000
3. Geochemical (type and no. of samples) 8-sediment - 2 soil 1-ICP
4. Geophysical (type and line km) ---
5. Physical Work (type and amount) ---
6. Drilling (no. holes, size, depth in m, total m) ---
7. Other (specify) ---

SIGNIFICANT RESULTS

Commodities Copper Claim Name N/A
Location (show on map) Lat. 50° 12' Long 115° 55' Elevation 1,720
Best assay/sample type 124 ppm Cu

Description of mineralization, host rocks, anomalies Very minor amounts of bornite/malachite found in sediments, 1 float - 1 in place plus a mudstone boulder containing about 5% malachite. There is a significant textbook copper anomaly in stream sediments (Illustration 2) which requires investigation.

Supporting data must be submitted with this TECHNICAL REPORT

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**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17.
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Name Frank O'Grady Reference Number 98/99 P49

LOCATION/COMMODITIES

4. Project Area (as listed in Part A) D: Golden Area MINFILE No. if applicable N/A

Location of Project Area NTS 82N/2 + 82N/7 Lat 51° 14' Long 116° 45'

Description of Location and Access by good logging roads that branch off Highway 1 and cross the Kicking Horse River for the southern portion of the area; Northern portion accessed by foot

Main Commodities Searched For _____

Copper, Lead, Zinc.

Known Mineral Occurrences in Project Area _____

Marie 082 N 066 not found

WORK PERFORMED

1. Conventional Prospecting (area) 1.5 km²
2. Geological Mapping (hectares/scale) 100 hectares 1:20,000
3. Geochemical (type and no. of samples) 4-sediment 6-soil 1-ICP
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

SIGNIFICANT RESULTS

Commodities N/A Claim Name N/A

Location (show on map) Lat. 14° 30' Long 116° 45' 00" Elevation 1,700

Best assay/sample type 124 ppm Cu from ICP sample

Description of mineralization, host rocks, anomalies With the exception of 1 bleb of chalcopyrite 1 cm in diameter surrounded by malachite, there was no encouragement. This mineralization was found in a "blump-like" deposit where a bulldozer had pushed out a heliport.

Supporting data must be submitted with this TECHNICAL REPORT

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PROJECT 98-A HOSPITAL CREEK

Discussion of Hospital Creek Results (Project 98-A)

The primary objective of the Hospital Creek program was to prospect/explore the Creston/Kitchener contact for a Spar Lake type copper silver deposit. No copper mineralization or copper geochemical anomalies were encountered on the explored areas. The area most intensely explored, referred to as the North Grid Area (Illustrations 6 & 7), had some sedimentary outcrop but was mostly drift covered. The North Grid Area is covered with a mature forest of fir, larch and lodgepole pine. This type of forest cover usually indicates a well-developed soil system. However, the unconsolidated material underlying this area is moraine-like. There was not a good deep soil horizon developed, and large duff covered boulders are prolific. While all the soil samples collected were from the correct horizon and of sufficient volume it required a considerable amount of effort and persistence to obtain the samples. The authour, therefore, considers that bedrock mineralization may not be detectable by geochemical means because of the moraine-like material overlying it. This area may well be explored more successfully by geophysical methods. Therefore, while it can be concluded that while no copper mineralization or copper geochemical anomalies were encountered, the area is not precluded from further exploration.

Large angular, intrusive boulders of gabbro and granodiorite were encountered on the northern portion of the North Grid (Illustration 6). The boulders contain large crystals of mica and feldspars, which normally indicate the central portion of an intrusive body. Also, the boulders are large (commonly greater than one meter diameter) and angular, normally indicating they have not been transported a great distance by glacial activity. There is an intrusive, the Reade Lake Stock, the southern edge of which is mapped five kilometers northeast, accompanied by an aeromag high centered nine kilometers northeast of the area. The intrusive boulders encountered in the Hospital Creek area may have been transported from the Reade Lake Stock, from another concealed intrusive, or from a daughter pluton of the Reade Lake Stock. Determining the source of the intrusive boulders, and if they have economic significance, will require more field work.

One of the boulders exhibited prolific quartz veinlets indicating hydrothermal activity and the possibility of gold deposition. Unfortunately the boulder was not sampled during the 1998 program as the authour was searching for more boulders of this type that may have contained gold or sulphide mineralization.

Proposed Follow-Up

Follow-up work in the Hospital Creek area will consist of:

1. Monitoring the road building and logging operations in the area. The area is laid out for logging with logging operations to commence within the next few years. Logging operations expose outcrop and boulders facilitating prospecting.
2. Continuing prospecting for intrusive (boulder or outcrop) north and northeast of the known location of the intrusive boulders. Sampling and analysis of the boulder containing the prolific quartz veinlets will be conducted.
3. Conducting reconnaissance traverses with an EM-16 VLF instrument (very low frequency electromagnetic) and a proton magnetometer to determine if there is an intrusive-sedimentary contact and/or sulphide deposits underlying the area.

The authour intends to conduct this follow-up work.

PROJECT 98-B SKOOKUMCHUCK AREA

Discussion of Skookumchuck Project 98-B Results

During the early part of the program the authour recognized that the crest of the anticline hosting the Brancheve Copper deposit was also present approximately six kilometers southeast of the Brancheve showing. In addition, the Creston-Kitchener contact is mapped as crossing the anticline in this area. This area is geographically situated approximately 500 meters north of Lost Dog Creek (Illustration 12). This area was soil sampled and prospected/mapped. No sulphide mineralization or geochemical anomalies were encountered. However, sediment sample 98 05 25 (Illustration 13) exhibits an arsenic value of 11.2 ppm. Also, approximately five kilometers east of this area a reconnaissance sediment sample, 9K SED (Illustration 14), exhibits a copper value of 68.9 ppm, which is considered anomalous.

Brancheve Copper Property

The results of soil sampling on the **BRANCHEVE** claims are contained in the assessment report that forms Appendix 4 of this report.

A letter of intent between Frank O'Grady, the owner of the Brancheve Copper deposit, and **SOTA Mining** was signed September 10, 1998. SOTA Mining is presently undergoing corporate organization. When this is complete SOTA intends to proceed with an exploration program on the **BRANCHEVE** claims.

Chris Barite Property

The Chris Barite property was examined and subsequently staked by the authour September 11, 1998. The original owners of the property, Gerald Mason, geologist, and Don Jackson, prospector, both of Kimberley B.C. did some hand trenching on the property during the 1970's but no work was recorded. No other work has been conducted on the property or in the immediate area.

The authour is interested in the property as barite is often associated with sulphide deposits in sediments. In fact, small specks of chalcopyrite surrounded by malachite are ubiquitous in the samples examined. Two of the barite samples are geochemically anomalous in copper at 215 ppm and 306 ppm (Certificate of Analysis iPL98J1073, Appendix 1).

The CHRIS claims were examined as a barite property by Heather Miree, Exploration Manager, **Highwood Resources Ltd.** September 24, 1998. Highwood decided not to pursue the property at this time (letter attached).

Proposed Follow-Up

Proposed follow-up of Project 98-B will consist of:

1. Prospecting the upper portion of Lost Dog Creek and surrounding area to search for gold/sulphides to determine the cause of the anomalous arsenic value in sediment sample 98 05 25 SED (Illustration 13; Certificate of Analysis A9820699, Appendix 1).
2. Prospecting the creek and surrounding area where the copper anomalous sample 9K SED (Illustration 14; Certificate of Analysis A9820699, Appendix 1) was taken to determine if there is copper mineralization present.
3. Geological mapping of outcrop and drift boulders on the CHRIS claims and surrounding area to search for more barite and copper sulphides. Hopefully this work will lead to a substantial trenching program.

The authour intends to conduct the follow-up work.

PROJECT 98-C COLUMBIA LAKE

Discussion of Columbia Lake Results (Project 98-C)

Alteration in the form of chlorite in one location and epidote in another location, the presence of specular hematite, stream sediments anomalous in copper and three locations of copper mineralization are considered encouraging by the authour. These indicators were found over an area of four kilometers by one kilometer (Illustration 24).

There are no known intrusives underlying the prospected area. The B.C. aeromag series does not cover this area. The only intrusive rocks encountered were diorite boulders on the south side of Fir Mountain (Illustration 23) and large well rounded quartz monzonite erratics near the head waters of Emily Creek (Illustration 23). However, with the widespread alteration (Illustration 24), there is the possibility of a deep seated intrusive which in turn could result in an Olympic Dam type of geological environment.

Prospecting Technique

The creek that was sampled and prospected for Project 98-C is typical of creeks in the area (Illustration 21). It is deeply incised and covered with thick brush as well as debris from two generations of forest fires. Ron Beamish, a neophyte prospector that accompanied the authour on several occasions, devised a method of prospecting this type of creek. Mr. Beamish used a 14-inch diameter heavy gauge; black plastic gold pan with sixty 3/8-inch holes drilled in the bottom. The pan was submerged in the creek underneath the brush and debris to scoop material from the creek bed. The water immediately drained leaving clean wet rocks in the bottom of the gold pan for examination. That technique was very effective for prospecting this type of creek.

Proposed Follow-Up

The area is traversed by several deeply incised, fast flowing creeks and gullies. Recommended follow-up in this area consists of grass roots prospecting and sediment sampling of the creeks and surrounding area.

The authour intends to conduct follow-up work in the Columbia Lake area.

PROJECT 98-D GOLDEN AREA

Discussion of Golden Results (Project 98-D)

There were no encouraging results from the Golden project. The sample (Appendix 1, Certificate of Analysis A9812438, 16 February 98) that initially aroused the author's interest in the area was a well mineralized piece of intrusive containing chalcopyrite, galena and sphalerite. No rock resembling this was encountered there. Also, if there were significant mineralization of this type in the area it would have almost certainly been detected in the sediment samples taken from creeks draining the area (Illustration 27).

The outcrop exposed at the heliport (Illustration 27) contains a quartz-carbonated "vein-like" deposit which may be a large augen. A sample of the material fluoresced a pale yellow colour when tested by an ultra-violet lamp. The sample was therefore checked by ICP analysis (Certificate of Assay A9825693, Appendix 1; Illustration 27). The sample was also analysed for gold content. The sample is anomalous in copper (124 ppm) but does not contain any other significant amounts of economic metals including tungsten (<than 10 ppm).

Follow-Up

No follow-up is recommended for this area.

APPENDIX 1

CERTIFICATES OF ANALYSIS

Certificate #	Project Area
A9820698	Skookumchuck
A9820699	Skookumchuck
A9821991	Hospital Creek & Golden
A9822837	Columbia Lake
A9822836	Columbia Lake
A9824162	Hospital Creek
A9823857	Skookumchuck
A9825693	Golden
A9827385	Hospital Creek
A9829523	Hospital Creek
A9833946	Columbia Lake
iPL98J1073	Skookumchuck
A9812438 *	Golden

** Certificate of Analysis A9812438 dated 16 Feb 98 is for reference purposes only and is NOT included in the amounts for invoicing.*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: BHP MINERALS CANADA LTD.

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

Project: FOGGY-99-01

Comments: ATTN: HARRY MUNTANION 'BHP' CC: FRANK O'GRADY

Page Number :2
Total Pages :2
Certificate Date: 04-JUN-98
Invoice No. :19820698
P.O. Number :
Account :E

CERTIFICATE OF ANALYSIS

A9820698

SAMPLE	PREP CODE	Cu ppm									
ANTI 3E	201 202	9									
ANTI 4E	201 202	8									
ANTI 5E	201 202	30									
ANTI 0	201 202	18									
ANTI 1W	201 202	7									
ANTI 2W	201 202	8									
ANTI 3W	201 202	14									
ANTI 4W	201 202	7									
ANTI 5W	201 202	3									

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: BHP MINERALS CANADA LTD.

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

Page Number : 1
Total Pages : 2
Certificate Date: 04-JUN-98
Invoice No. : I9820698
P.O. Number :
Account : E

Project : FOGGY-99-01
Comments: ATTN: HARRY MUNTANION 'BHP' CC: FRANK O'GRADY

CERTIFICATE OF ANALYSIS

A9820698

SAMPLE	PREP CODE	Cu ppm											
L1 0+00	201 202	5											
L1 1N	201 202	11											
L1 2N	201 202	17											
L1 3N	201 202	9											
L1 4N	201 202	9											
L1 5N	201 202	5											
L1 6N	201 202	7											
L2 0+00	201 202	6											
L2 1N	201 202	5											
L2 2N	201 202	6											
L2 3N	201 202	6											
L2 4N	201 202	7											
L2 5N	201 202	6											
L2 6N	201 202	6											
L3 0+00	201 202	2											
L3 1N	201 202	16											
L3 2N	201 202	3											
L3 3N	201 202	7											
L3 4N	201 202	9											
L3 5N	201 202	10											
L3 6N	201 202	5											
L4 0+00	201 202	3											
L4 1N	201 202	10											
L4 2N	201 202	7											
L4 3N	201 202	5											
L4 4N	201 202	17											
L4 5N	201 202	11											
L4 6N	201 202	7											
HT 0	201 202	13											
HT 1	201 202	6											
HT 2	201 202	7											
HT 3	201 202	6											
HT 4	201 202	6											
MCNR 0	201 202	10											
MCNR 1	201 202	6											
MCNR 2	201 202	20											
MCNR 3	201 202	6											
MCNR 4	201 202	9											
ANTI 1E	201 202	10											
ANTI 2E	201 202	8											

CERTIFICATION: *John Biddle*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
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VANCOUVER, B.C.
V6E 3S7

Page Number : 1-A
Total Pages : 1
Certificate Date: 06-JUN-98
Invoice No. : 19820699
P.O. Number :
Account : E

Project : FOGGY-99-01

Comments: ATTN: HARRY MUNTANION 'BHP' CC: FRANK O'GRADY

CERTIFICATE OF ANALYSIS

A9820699

SAMPLE	PREP CODE	Al %	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca %	Cr ppm	Co ppm	Cu ppm	Ga ppm	Ge ppm	Fe %	La ppm	Pb ppm	Mg %	Mn ppm	Hg ppm
9K SED	201 202	1.30	1.0	3.2	380	0.5	0.18	0.1	5.73	14	5	68.9	2.1	< 0.1	1.33	10	8	0.45	1420	0.06
98 05 25 SED	201 202	1.16	0.4	11.2	250	< 0.5	0.30	0.1	0.99	8	7	11.4	3.0	< 0.1	2.79	10	10	0.80	1255	0.03
SED MCN	201 202	1.55	0.4	4.2	320	0.5	0.28	0.3	1.84	12	5	15.6	3.0	< 0.1	1.72	10	10	0.72	505	0.06

CERTIFICATION:

Harry Muntanion



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: BHP MINERALS CANADA LTD.

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

Page Number :1-B
Total Pages :1
Certificate Date:06-JUN-98
Invoice No. :I9820699
P.O. Number :
Account :E

Project: FOGGY-99-01

Comments: ATTN: HARRY MUNTANION 'BHP' CC: FRANK O'GRADY

CERTIFICATE OF ANALYSIS

A9820699

SAMPLE	PREP		Mo	Ni	P	K	Sc	Ag	Na	Sr	Te	Tl	Ti	W	U	V	Zn
	CODE		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
9K SED	201	202	0.6	15	470	0.06	3	0.16	0.01	61	< 0.1	0.1	0.03	0.30	1.10	8	14
98 05 25 SED	201	202	0.4	9	630	0.08	1	0.06	< 0.01	19	< 0.1	< 0.1	0.02	0.15	0.90	11	52
SED MCN	201	202	0.4	8	1010	0.11	1	0.14	0.01	33	< 0.1	0.1	0.03	0.20	0.90	10	42

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: O'GRADY, FRANK

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

Project :
Comments: ATTN: FRANK O'GRADY

Page Number : 1
Total Pages : 1
Certificate Date: 20-JUN-98
Invoice No. : 19821991
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9821991

SAMPLE	PREP CODE		Cu ppm	Pb ppm	Zn ppm						
HCRD HUMP	201	202	10	14	59						
HCRD 00+00W	201	202	5	9	51						
HCRD 02+00W	201	202	4	9	61						
HCRD 04+00W	201	202	5	12	65						
HCRD 06+00W	201	202	5	8	72						
HCRD 08+00W	201	202	4	8	53						
HCRD 10+00W	201	202	3	8	31						
HCRD 12+00W	201	202	3	8	28						
HCRD 14+00W	201	202	8	9	61						
HP EAST	201	202	12	14	31						
HP 50S	201	202	5	14	48						
HP 100W	201	202	7	14	35						
HPR 1S	201	202	11	15	50						
HPR 0	201	202	12	14	75						
PM 98-01	201	202	11	12	48						
PM 98-02	201	202	12	13	45						
PM 98-03	201	202	8	13	35						
PM 98-04	201	202	10	16	38						
WEST HELIPORT	201	202	6	18	37						

CERTIFICATION:

Frank O'Grady



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: O'GRADY, FRANK

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

Project :
Comments: ATTN:FRANK O'GRADY

Page Number : 1
Total Pages : 1
Certificate Date: 29-JUN-98
Invoice No. : 19822837
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS A9822837

SAMPLE	PREP CODE	Cu ppm										
F.E.S#1	201 202	10										
F.E. #2	201 202	6										
F.E. SED	201 202	87										

CERTIFICATION: Frank O'Grady



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Project :
Comments: ATTN:FRANK O'GRADY

Page Number :1-A
Total Pages :1
Certificate Date: 06-JUL-98
Invoice No. : I9822836
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9822836

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
84295	205	226	< 5	< 0.2	1.01	< 2	80	< 0.5	< 2	0.30	< 0.5	4	204	1	0.97	< 10	< 1	0.07	< 10	1.37	110

CERTIFICATION:

Frank Bielle



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Project :
Comments: ATTN:FRANK O'GRADY

Page Number : 1-B
Total Pages : 1
Certificate Date: 06-JUL-98
Invoice No. : 19822836
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS A9822836

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
84295	205 226	< 1	< 0.01	8	800	< 2	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	10

CERTIFICATION: 14-4R: 00



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Project :
Comments:

Page Number : 1
Total Pages : 1
Certificate Date: 14-JUL-98
Invoice No. : 19824162
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9824162

SAMPLE	PREP CODE	Cu ppm										
HCL1 0+00	201 202	8										
HCL1 1+00	201 202	11										
HCL1 2+00	201 202	8										
HCL1 3+00	201 202	11										
HCL1 4+00	201 202	14										
HCL1 5+00	201 202	9										
HCL2 0+00	201 202	6										
HCL2 1+00	201 202	13										
HCL2 2+00	201 202	11										
HCL2 3+00	201 202	13										
HCL2 4+00	201 202	6										
HCL2 5+00	201 202	11										
HCL3 0+00	201 202	8										
HCL3 1+00	201 202	9										
HCL3 2+00	201 202	7										
HCL3 3+00	201 202	27										
HCL3 4+00	201 202	35										
HCL4 0+00	201 202	12										
HCL4 1N	201 202	7										
HCL4 2N	201 202	6										
HCL4 3N	201 202	6										
HCL4 4N	201 202	6										
HCL4 5N	201 202	7										
HCL5 0+00	201 202	8										
HCL5 1N	201 202	6										
HLC5 2N	201 202	10										
HLC5 3N	201 202	6										
HLC5 4N	201 202	6										
HLC5 5N	201 202	9										
HLC6 0+00	201 202	5										
HLC6 1N	201 202	7										
HLC6 2N	201 202	7										
HLC6 3N	201 202	5										
HLC6 4N	201 202	6										
HLC6 5	201 202	8										

CERTIFICATION:

Handwritten signature

WBE



Cnemex Labs Ltd.

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To: O'GRADY, FRANK

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 V1A 1Z8

Project :

Comments: ATTN: FRANK O'GRADY

Page Number : 1
 Total Pages : 1
 Certificate Date: 13-JUL-98
 Invoice No. : 19823857
 P.O. Number :
 Account : QFP

CERTIFICATE OF ANALYSIS

A9823857

SAMPLE	PREP CODE	Cu ppm											
GT 1E 0+00	201 202	9											
GT 2E 0+00	201 202	5											
GT 3E 0+00	201 202	4											
GT 4E 0+00	201 202	5											
GT 1E 1+00S	201 202	6											
GT 1E 2+00S	201 202	10											
GT 1E 2+30S	201 202	17											
GT 2E 1+00S	201 202	15											
GT 2E 2+00S	201 202	16											
GT 2E 3+00S	201 202	15											
GT 1E 1N	201 202	26											
GT 1E 2N	201 202	8											
GT 1E 3N	201 202	9											
GT 1E 4N	201 202	8											
GT 1E 5N	201 202	4											
GT 2E 1N	201 202	26											
GT 2E 2N	201 202	8											
GT 2E 3N	201 202	15											
GT 2E 4N	201 202	5											
GT 2E 5N	201 202	11											
GT 3E 1N	201 202	10											
GT 3E 2N	201 202	8											
GT 3E 3N	201 202	9											
GT 3E 4N	201 202	7											
GT 3E 5N	201 202	7											
GT 4E 1N	201 202	8											
GT 4E 2N	201 202	11											
GT 4E 3N	201 202	11											
GT 4E 4N	201 202	7											
GT 4E 5N	201 202	7											
GT 3E 1+00S	201 202	5											
GT 3E 2+00S	201 202	6											
GT 3E 3+00S	201 202	7											
GT 3E 4+00S	201 202	11											
GT 3E 5+00S	201 202	8											
GT 4E 1+00S	201 202	8											
GT 4E 2+00S	201 202	8											
GT 4E 3+00S	201 202	11											
GT 4E 4+00S	201 202	15											
GT 4E 5+00S	201 202	6											

CERTIFICATION:

Frank Bichler



Chemex Labs Ltd.

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KIMBERLY, BC
V1A 1Z8

Project :

Comments: ATTN: FRANK O'GRADY

Page Number : 1-A
Total Pages : 1
Certificate Date: 31-JUL-98
Invoice No. : I9825693
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9825693

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
84296	205 226	< 5	< 0.2	0.03	8	10	< 0.5	< 2	4.77	< 0.5	< 1	154	124	0.33	< 10	< 1	< 0.01	< 10	0.05	75

CERTIFICATION

[Handwritten signature]



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To: O'GRADY, FRANK

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V1A 1Z8

Page Number : 1-B
Total Pages : 1
Certificate Date: 31-JUL-98
Invoice No. : I9825693
P.O. Number :
Account : QFP

Project :

Comments: ATTN: FRANK O'GRADY

CERTIFICATE OF ANALYSIS

A9825693

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
84296	205 226	< 1	0.01	1	10	6	< 2	< 1	149	< 0.01	< 10	< 10	3	< 10	< 2

CERTIFICATION:

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To: O'GRADY, FRANK

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

Project :
Comments: ATTN: FRANK O'GRADY

Page Number : 1
Total Pages : 1
Certificate Date: 13-AUG-98
Invoice No. : 19827385
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9827385

SAMPLE	PREP CODE	Cu ppm									
SAMPLE A	201 202	6									
S. SED1	201 202	11									
SBL 7+00S	201 202	5									
SBL 9+00S	201 202	9									
SBL 11+00S	201 202	8									
SBL 13+00S	201 202	7									
SBL 14+50S	201 202	9									
SBL 17+00S	201 202	9									
SBL 19+00S	201 202	6									

CERTIFICATION

FL LR: DO.



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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To: O'GRADY, FRANK

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KIMBERLY, BC
V1A 1Z8

Project :
Comments: ATTN:FRANK O'GRADY

Page Number :1
Total Pages :1
Certificate Date: 04-SEP-1991
Invoice No. :19829523
P.O. Number :
Account :QFP

CERTIFICATE OF ANALYSIS

A9829523

SAMPLE	PREP CODE	Cu ppm									
L4+50N 1N	201 202	7									
L4+50N 2N	201 202	8									
L4+50N 3N	201 202	12									
L4+50N 4N	201 202	48									
L6+50N 1N	201 202	12									
L6+50N 2N	201 202	8									
L6+50N 3N	201 202	6									
L6+50N 4N	201 202	7									
L6+50N 5N	201 202	9									
L8+50N 1N	201 202	7									
L8+50N 2N	201 202	6									
L8+50N 3N	201 202	8									
L8+50N 4N	201 202	6									
L8+50N 5N	201 202	4									

CERTIFICATION:

[Handwritten signature]



Chemex Labs Ltd.

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PHONE: 604-984-0221 FAX: 604-984-0218

To: O'GRADY, FRANK **

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

Project :
Comments: ATTN: FRANK O'GRADY

Page Number :1
Total Pages :1
Certificate Date: 27-OCT-1998
Invoice No. : I9833946
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9833946

SAMPLE	PREP CODE	Cu ppm										
F.E. SED.2	201 202	96										
F.E. SED.3	201 202	54										
F.E. SED.4	201 202	124										
F.E. SED.5	201 202	42										
H.T.-1	201 202	9										
S.T.-1	201 202	10										
S.T.-2	201 202	15										

CERTIFICATION: *Handwritten Signature*

CERTIFICATE OF ANALYSIS
iPL 98J1073

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD.

Client : Highwood Resources Ltd.
Project: 102

2 Samples
2=Sand

[107312:02:56:89100698]

Out: Oct 06, 1998
In : Oct 05, 1998

Page 1 of 1
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
30271	A	<	215	<	3	<	<	1	<	<	0.4	<	<	1266	<	8	<	162	<	416	<	<	<	0.05	0.60	0.22	0.29	0.02	0.01	<
30272	A	<	306	8	7	<	<	3	<	<	1.5	1	1	893	<	16	3	744	3	342	2	1	<	0.16	8.08	0.91	4.03	0.09	0.01	0.01

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00
 method ICP
 ---No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample A=Sand



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: BHP MINERALS CANADA LTD.

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

Project:

Comments: ATTN: FRANK O'GRADY CC: HARRY MUNTANION

Page Number : 1
Total Pages : 1
Certificate Date: 16-FEB-98
Invoice No. : 19812438
P.O. Number :
Account : E

CERTIFICATE OF ANALYSIS

A9812438

SAMPLE	PREP CODE	Ag ppm AAS	Co ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ni ppm (ICP)	Pb % AAS	Zn ppm (ICP)			
84293	208 226	61	< 10	13790	1.75	< 10	4.62	500			

CERTIFICATION:

Handwritten signature

APPENDIX 4

GEOCHEMICAL ASSESSMENT REPORT

ON THE

BRANCHEYE CLAIM GROUP

(Skookumchuck Area)

GEOCHEMICAL ASSESSMENT REPORT

on the

**BRANCHEYE 1 TO BRANCHEYE 6 INCLUSIVE
mineral claim group**

situated in the

FORT STEELE MINING DIVISION

NTS 82G/13W

Latitude 49^B 55' 30"
Longitude 15^B 22' 00"

**Owner/Operator: Frank O'Grady, P.Eng.
587 Wallinger Avenue
Kimberley, BC
V1A 1Z8**

Work performed during July 1997, May & June 1998

Report by Frank O'Grady, P.Eng.

Report submitted: December 16 , 1998

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Property.....	1
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Access.....	2
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Summary of Work.....	3
Economic Evaluation.....	3
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GEOCHEMICAL SURVEY.....	4
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ITEMIZED COST STATEMENT.....	7
AUTHOUR'S QUALIFICATIONS.....	8

LIST OF MAPS

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MAP 2	PROVINCIAL GRID LOCATION
MAP 3	REGIONAL LOCATION
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MAP 5	GEOCHEMICAL GRID
MAP 6	GEOCHEMICAL MAP
MAP 7	GEOLOGY MAP & SECTION including LEGEND

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APPENDIX 2	CERTIFICATE OF ANALYSIS A9741618
APPENDIX 3	CERTIFICATE OF ANALYSIS A9823857

BIBLIOGRAPHY

- OPEN FILE 1987 – 8, Carter and Hoy
- Personal communication and property visit 1997 with Tim Termuende, P. Geo.
& Charles Downie, P. Geo.
- Personal communication and property visit 1997 with:
Derek Brown, P. Geo B.C. Geological Survey Branch
- Personal communication and property visit 1997 with Ted Trueman, P. Eng.
& Harry Muntanion, Principal Geologist, BHP Minerals
- Personal communication and property visit 1998 with Peter Klewchuk, P. Geo.

INTRODUCTION

The BRANCHEYE claim group is situated on the northwest quadrant of NTS 82G/13W (BCGS 82G.091) in southeastern British Columbia (Map 2: Provincial Grid Location). It is approximately 26 kilometers northeast (azimuth of 15^B) of Kimberley, British Columbia at latitude 49^B55'30" and longitude 15^B22'00" (Map 1: Provincial Location).

The registered owner and operator of the claim group is Frank O'Grady of 587 Wallinger Avenue, Kimberley, BC V1A 1Z8.

The BRANCHEYE claim group consists of 6 two-post claims (Map 4: Claim Map). The property description is:

<u>Claim Name</u>	<u>Tenure Number</u>	<u>New Expiry Date</u>
BRANCHEYE 1	351211	Sept. 29/2002
BRANCHEYE 2	351212	Sept. 29/2002
BRANCHEYE 3	351213	Sept. 29/2002
BRANCHEYE 4	351214	Sept. 29/2002
BRANCHEYE 5	351215	Sept. 29/2002
BRANCHEYE 6	351216	Sept. 29/2002

The Notice to Group number is 3110230 recorded September 10, 1997.

The BRANCHEYE claim group lies on the east side of the Skookumchuck River (Map 3: Regional Location). The initial post for the most westerly claims, BRANCHEYE 1 and BRANCHEYE 2, is situated on the east bank of the Skookumchuck River.

The elevation ranges from 1040 meters (3412') to 1454 meters (4725'). The western two-thirds of the claim group (BRANCHEYE 1, BRANCHEYE 2, BRANCHEYE 3 and BRANCHEYE 4) is on the steep to cliff-like east slope of the Skookumchuck River valley. The eastern third (BRANCHEYE 5 and BRANCHEYE 6) straddle a north-south ridge known locally as the Skyline Ridge. The first few meters above the Skookumchuck River are covered with a dense growth of small diameter cedar and brush. From the upper limit of the brush, easterly, to an elevation of approximately 1380 meters the forest cover is a mature to over-mature forest of fir and larch. Dead fir and larch trees in the form of snags and fallen snags are prolific. From approximately the 1380 elevation to the east edge of the claim the forest cover is a mature lodgepole pine except for the swampy areas that are covered with a dense growth of alders. During 1996 approximately half of the surface area of BRANCHEYE 5 and BRANCHEYE 6 was clear-cut logged. This area has since been scarified in preparation for planting.

The rocks underlying the claim group belong to the Kitchener formation and the Van Creek formation (Carter and Hoy, 1987).

SHOWING DESCRIPTION

The showing, centred on the boundary between BRANCHEYE 1 and BRANCHEYE 2, is underlain by phyllitic rocks mapped as the upper Kitchener Formation by Hoy and Carter (1987), within the core of the Lookout Mountain Anticline.

The showing is on a talus slope approximately 30 meters wide at its base on the east bank of the Skookumchuck River and extending easterly approximately 150 meters to its apex.

Mineralized float is prolific on the talus slope and is comprised of two distinct rock types:

1. A green and mauve micro-laminated chlorite-sericite phyllite.
2. A buff coloured phyllite.

The copper occurrence comprises minor blebs of chalcopyrite and malachite as disseminations and in thin quartz veinlets (less than 1 cm.). Malachite also fills later fractures that cut the phyllite. Discontinuous, brown weathering, quartz-iron-carbonate veinlets and pods lie within the copper-bearing zone.

The described green and mauve micro-laminated chlorite-sericite phyllite (number 1 above) host rock has been found in place near the top of the talus slope and it extends in a northeasterly direction beyond the talus slope. The buff coloured phyllite (number 2 above) has been found as float only on the talus slope.

ACCESS

To access the claims proceed north from Kimberley, BC on Highway 95A for a distance of 38 kilometers to a point 1 kilometer south of Skookumchuck, where Farstad Way branches to the west. (Farstad Way is the road leading to the CRESTBROOK FOREST INDUSTRIES LTD. Skookumchuck Pulp Mill.) Follow Farstad Way west 2.7 kilometers, turn west on Torrent Road and follow Torrent Road 2.7 kilometers where the Skookumchuck Mountain road branches to the west. Follow the Skookumchuck Mountain road to the 5-kilometer sign. Then follow Branch A a distance of 2.8 kilometers to where the road ends on the ridge top. Proceed in a westerly direction by foot a distance of slightly more than 200 meters to the western edge of the logged area. From the western edge of the logged area a well-cut base line is followed due west to an elevation of approximately 1380; the line is flagged and blazed (continuing due west) from this point to the showing. The total distance by foot is approximately 1200 meters with an elevation change of 400 meters (1300').

HISTORY

The Brancheve copper showing is a "new" showing found by the author, Frank O'Grady in 1996. He became interested in the area after finding mineralised float on the proximal Skookumchuck River and subsequently staked the 6 two-post claims, that comprise the property.

During a visit to the showing in 1997 a very old adit, 4 meters long, was discovered approximately 100 meters south of the main showing.

Don Jackson, prospector, of Kimberley, B.C. opined that the Brancheve copper showing may be the Butte-Philadelphia property described in the B.C. Minister of Mines reports in 1899 (page 662) and 1900 (page 801). A search of Minfile and assessment reports did not reveal any documented work in the Brancheve area. However, it can not be completely ruled out.

During 1997 a grid consisting of 2.1 kilometers of hip chain and flagged line, plus 1 kilometer of chain sawed line was installed on the property (Work Permit No. CBK-97-0501102-001-M31). This work, conducted by the owner, Frank O'Grady, was filed as assessment work on September 10, 1997.

SUMMARY OF WORK

During the year July 1997 to June 1998, a further 3.55 kilometers of line was installed.

Over this same period, a total of 107 soil samples were taken. Eighty of these samples were analyzed for copper only and 27 samples were analyzed for 32-elements by ICP method. The samples were sent to Chemex Labs in North Vancouver, BC for soil preparation and analysis.

ECONOMIC EVALUATION

In the opinion of the author, the property is of economic interest because:

1. Structurally the showing is on the east flank of a major anticline, The Lookout Mountain Anticline (Map 7: Geology Map). If, in fact, there are more competent rocks below the exposed showing, folding could result in fracturing of these rocks to create a system for ore deposition. In addition to the anticline, the showing is proximal to two major faults, the Mather Creek Fault and a northwest trending fault that terminates against the Mather Creek Fault on its northwest end (Map 7: Geology Map).

2. The existence of the economic Spar Lake copper-silver deposit in the Purcell Supergroup sediments 180 kilometres to the south.

The Spar Lake deposit, however, occurs near the contact of the Creston Formation and the Kitchener Formation. In MEMPR Open File Map No.1987-8 (Carter and Hoy) the Upper Kitchener Formation underlies the BRANCHEYE.

3. The property is situated within workforce commuting distance of two major centres: Kimberley and Cranbrook.
4. There is a main power line (230KV, 3 phase) 3.5 kilometres east of the showing.
5. Major road access is in place.
6. A major rail line including a siding is situated approximately 10 kilometres by road from the showing.

GRID INSTALLATION

In preparation for the geochemical sampling program in 1998 a further 3.55 kilometers of line were installed forming lines GT 1E, GT 2E, GT 3E and GT 4E (Map 5: Geochemical Grid). These lines were installed by utilizing a hip chain and measuring along selected contours (assisted by a compass). The lines were flagged and a multi-coloured flag was installed at the sampling stations.

GEOCHEMICAL SURVEY

A total of 107 soil samples were taken on the following dates:

16 July 1997	40 samples	analyzed copper only
5 September 1997	27 samples	ICP 32-element analysis
30 June 1998	40 samples	analyzed copper only

The soil samples were taken by installing lines on selected contours crossing claims BRANCHEYE 1, BRANCHEYE 2 and a portion of the northwest corner of BRANCHEYE 3. And collecting samples at the following intervals:

BI Line 1E	25 meters
BI Line 2E	25 meters
BI Line 3E	25 meters in the central portion of the line, 50 meters at the extremes
GT 1E	100 meters
GT 2E	100 meters
GT 3E	100 meters
GT 4E	100 meters

At stations where no samples were taken there was no soil present, just large boulders forming rockslides. Each sample came from the B-horizon at depths of 5 cm to 20 cm, but usually about 15 cm. The samples were taken with a grubhoe.

The samples were sent to CHEMEX LABS LTD. of North Vancouver, BC for soil preparation and analysis. The -80 fraction was analyzed by normal geochemical techniques. The Certificates of Analysis form Appendix 1, Appendix 2 and Appendix 3 of this report.

A strong, well-defined copper anomaly is present on BI Line 1E and BI Line 2E (Map 6: Geochemical Map). Additionally, a value of 103 ppm Cu is present on BI Line 3E. The dimensions of this anomaly are approximately 150 meters in a north-south direction by 120 meters in an east-west direction.

The previously described mauve colored bed of phyllite 1 m to 1.5 m thick containing minor blebs of chalcopyrite and malachite lies near the top (east) of the anomaly. However, this bed has been traced 50 m beyond the northern extent of the soil anomaly. There is no apparent reason that the copper soil anomaly does not continue as far as the traced mineralized bed. The talus slope described in the **SHOWING DESCRIPTION** is centered on the soil anomaly. The talus slope is not very active; consequently a soil layer has developed on it providing good soil samples.

The copper soil anomaly extends approximately 75 meters to the south of the southern extent of the talus slope where a rockslide composed of large (several meters in diameter) angular boulders is encountered. This rockslide, approximately 75 meters across, defines the southern limit of the geochemical anomaly. Soil samples taken south of the rockslide are not anomalous.

Examination of float and outcrop within and near the top (east side) of the Cu soil anomaly south of the talus slope did not explain the presence of this portion of the copper soil anomaly. It is, therefore, likely that a copper-bearing bed is present under the sampled soil on the southern portion of the anomaly.

The author considers the location of the geochemical anomaly with respect to the underlying rocks in outcrop and float an enigma. As previously mentioned, the mineralized mauve colored phyllite bed extends to the north well beyond the limit of the geochemical anomaly. While to the south, the geochemical anomaly is the strongest where virtually no mineralization has been noted in outcrop or float.

In fact, while extremely unlikely, the author considered he might have mislabeled the samples with respect to north and south. On a return trip several samples were re-taken in the exact location and were found to correlate within acceptable limits of the original samples.

One possible interpretation is that the presence of mineralized rock directly beneath the high copper values south of the talus slope are obscured by soil cover and the rockslide.

The copper soil anomaly is underlain by steep topography measured at 30^B by a clinometer. This rugged topography is reflected by the contours on Map 6.

GEOCHEMICAL INTERPRETATION

There is a well-defined copper soil anomaly present on the BRANCHEYE claim group. The dimensions of the anomaly are approximately 150 meters by 120 meters. Underlying the anomaly two mineralized rock types are encountered:

1. A mauve phyllite 1 to 1 ½ meters thick containing disseminations and blebs of chalcopyrite and malachite.
2. A buff coloured phyllite found as float containing disseminations of chalcopyrite and malachite.

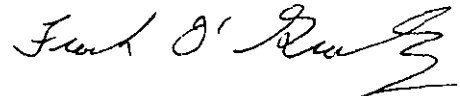
It is the opinion of the author the bedrock source of the copper soil anomaly is the two described beds. In addition, there could be more mineralized sedimentary beds underlying these two described beds.

Also, the copper soil anomaly would probably extend further south if the area were not covered by a large rockslide making it impossible to sample the original surface soils.

AUTHOUR'S QUALIFICATIONS

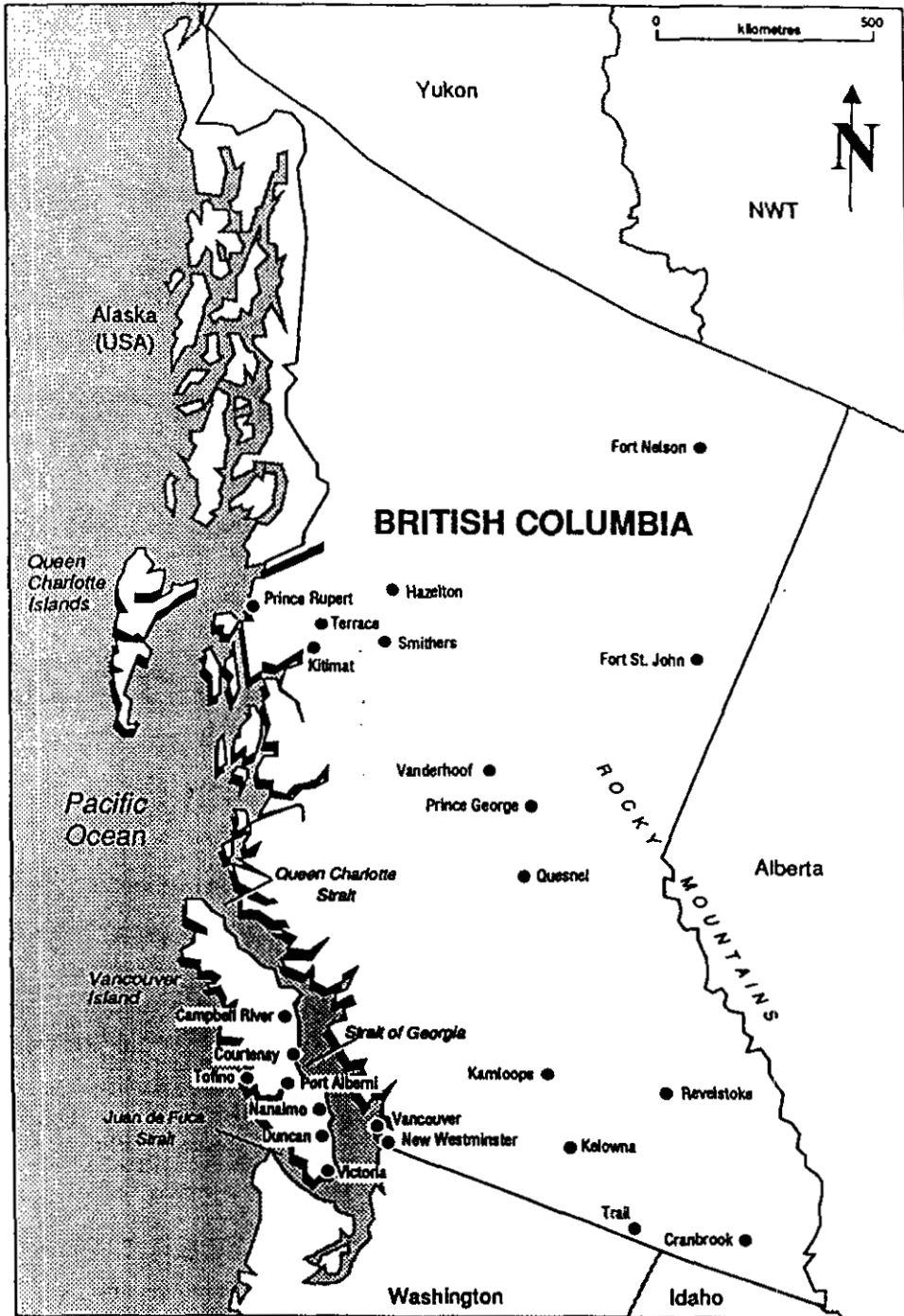
I, Frank O'Grady, address 587 Wallinger Avenue, Kimberley, BC, Canada V1A 1Z8, hereby certify that:

1. I am a graduate of the University of British Columbia, B.Sc. Geology 1969.
2. I am a graduate of the University of Missouri – Rolla (Missouri School of Mines), B.S. Mining Engineering 1977.
3. I am a registered Professional Engineer in the Province of British Columbia since 1978.
4. I have practiced my profession as a Geologist since 1969 and as a Geologist – Mining Engineer since 1977.

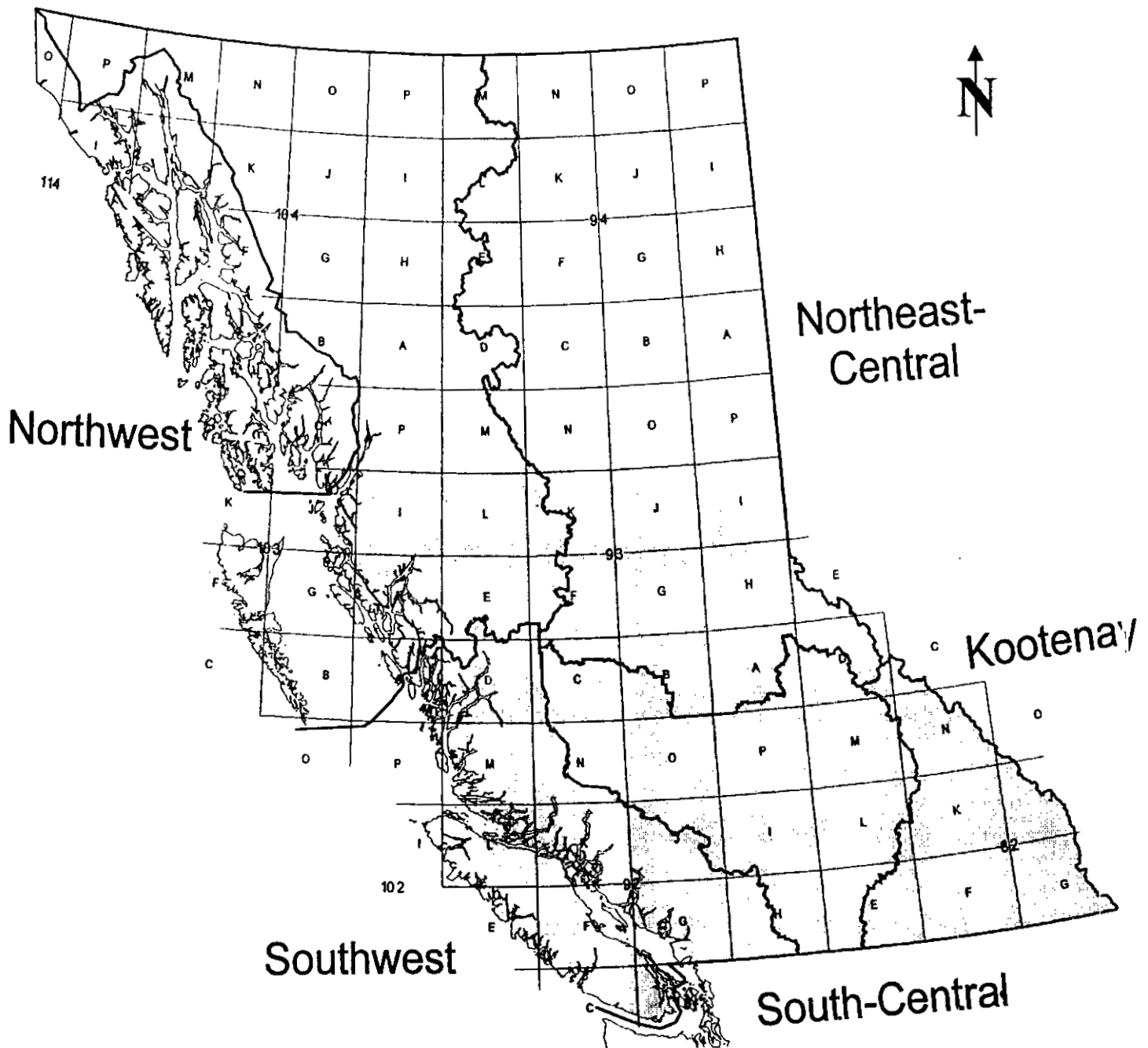


Frank O'Grady, P.Eng.
December 8, 1998

British Columbia



MAP 1
BRANCHEYE CLAIM GROUP
PROVINCIAL LOCATION
F. O'Grady, P. Eng. | August, 1998

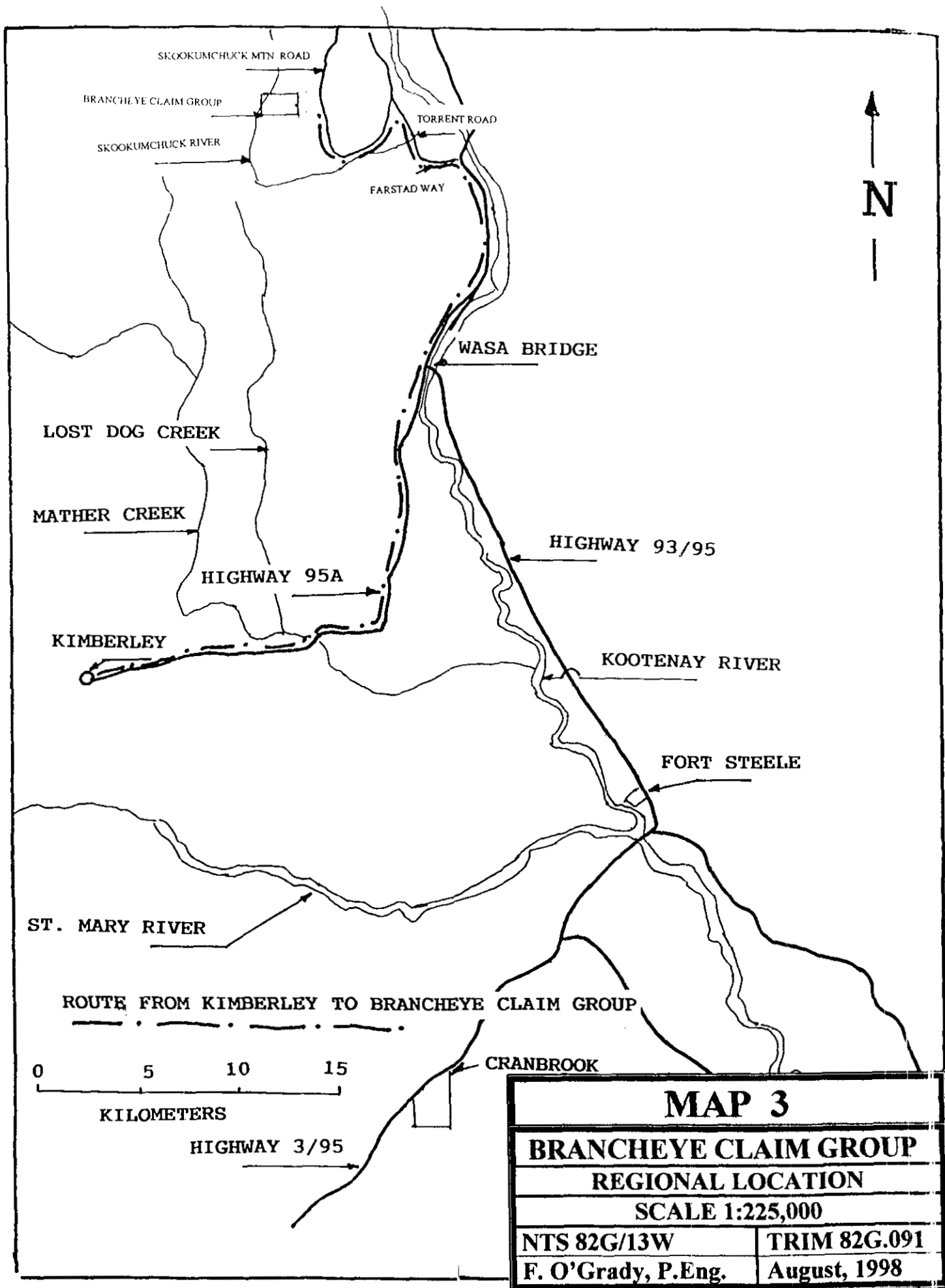


MAP 2

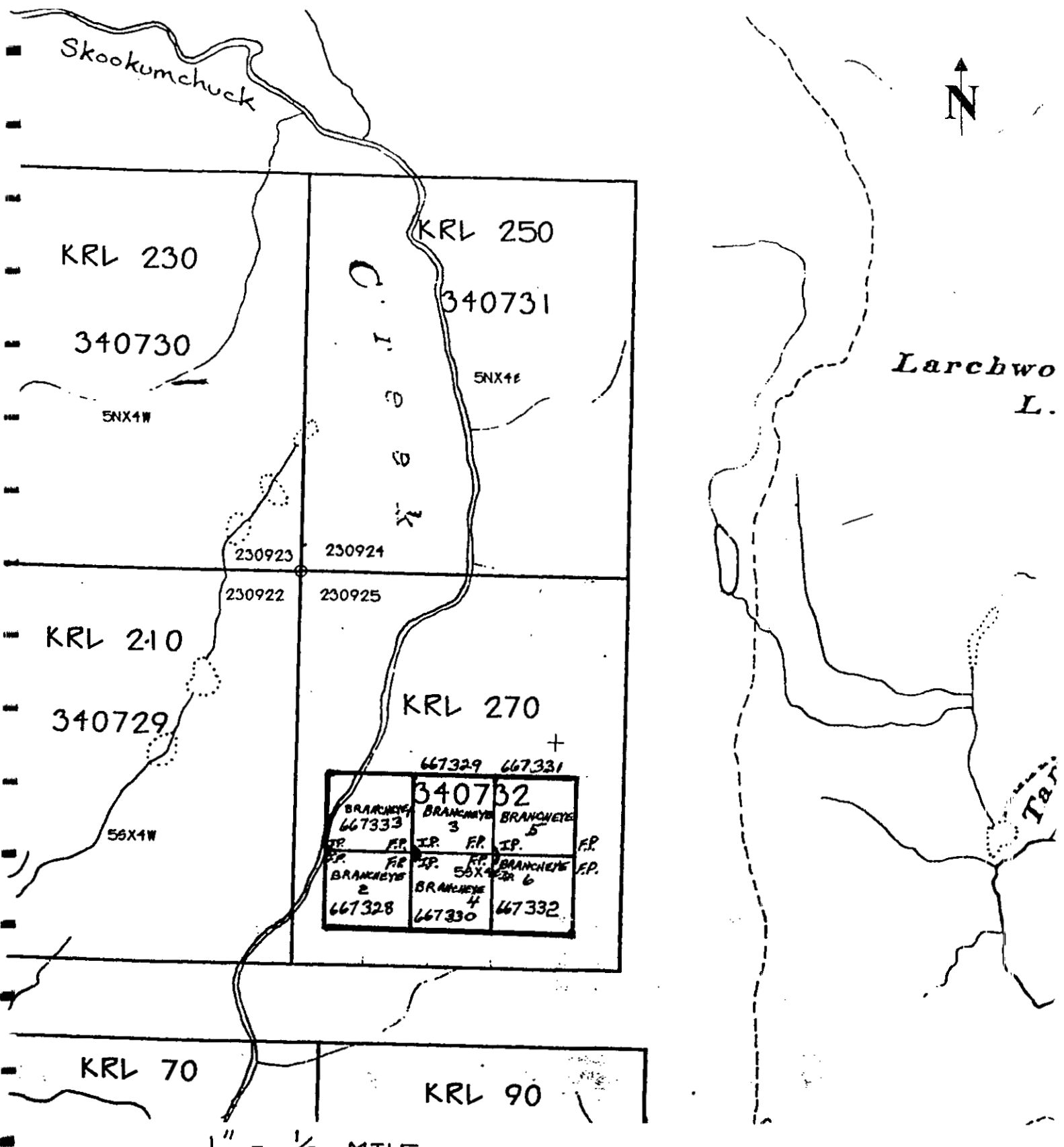
BRANCHEYE CLAIM GROUP

PROVINCIAL GRID LOCATION

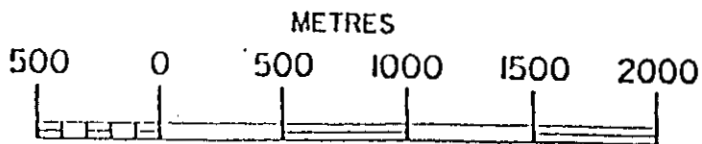
F. O'Grady, P.Eng. August, 1998



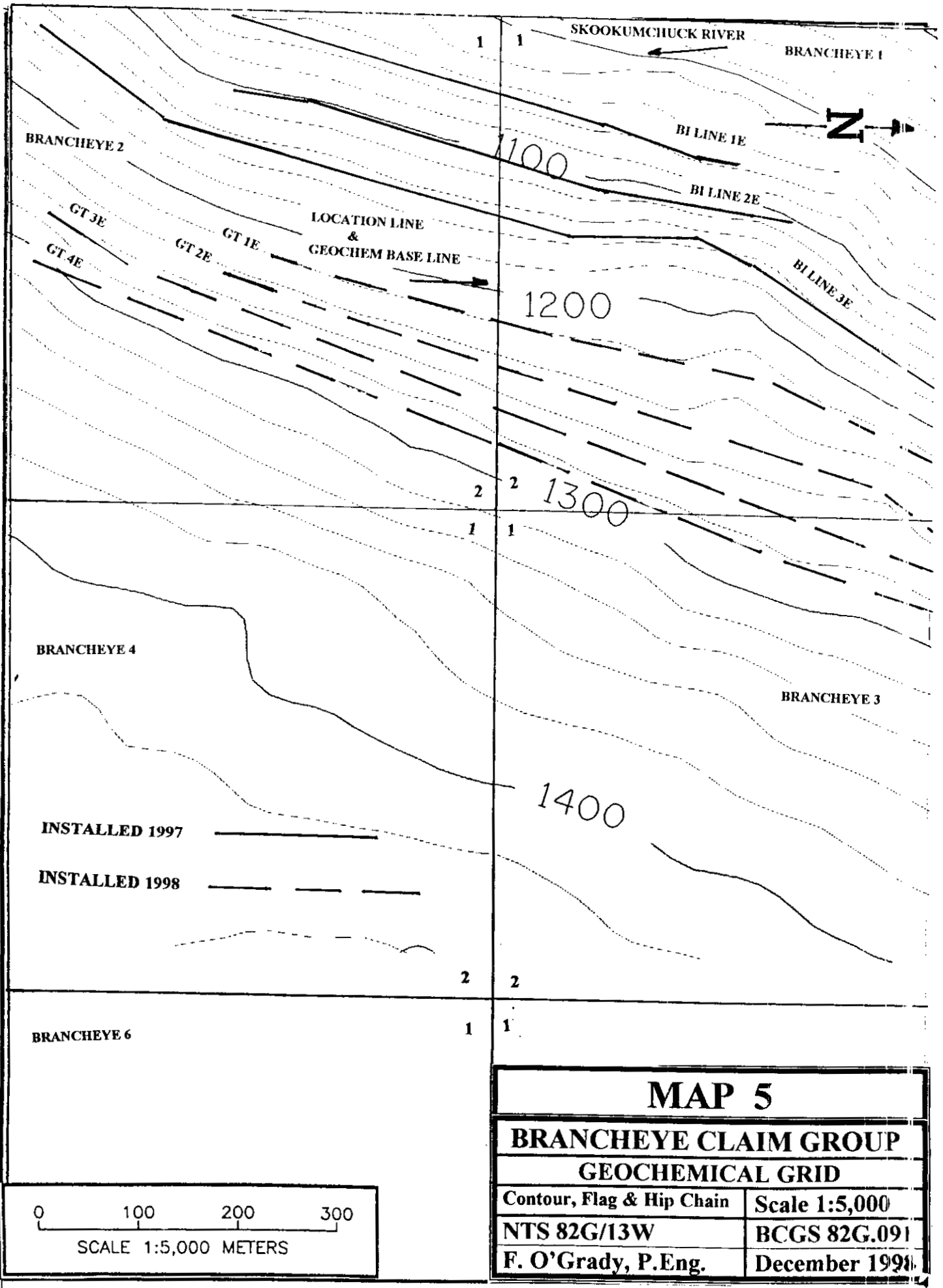
MAP 3	
BRANCHEYE CLAIM GROUP	
REGIONAL LOCATION	
SCALE 1:225,000	
NTS 82G/13W	TRIM 82G.091
F. O'Grady, P.Eng.	August, 1998



ORIGINAL PRODUCED AT 1:31680

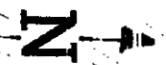


MAP 4	
BRANCHEYE CLAIM GROUP	
CLAIM MAP	
SCALE 1:31,680	
NTS 82G/13W	TRIM 82G.091
F. O'Grady, P. Eng.	August, 1998



SKOOKUMCHUCK RIVER

BRANCHEYE 1



BRANCHEYE 2

BI LINE 1E

100

BI LINE 2E

GT 3E

LOCATION LINE
&
GEOCHEM BASE LINE

GT 1E

GT 2E

GT 4E

BI LINE 3E

1200

2

2

1300

1

1

BRANCHEYE 4

BRANCHEYE 3

1400

INSTALLED 1997

INSTALLED 1998

2

2

BRANCHEYE 6

1

1

MAP 5

BRANCHEYE CLAIM GROUP GEOCHEMICAL GRID

Contour, Flag & Hip Chain

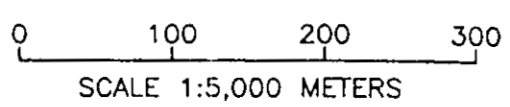
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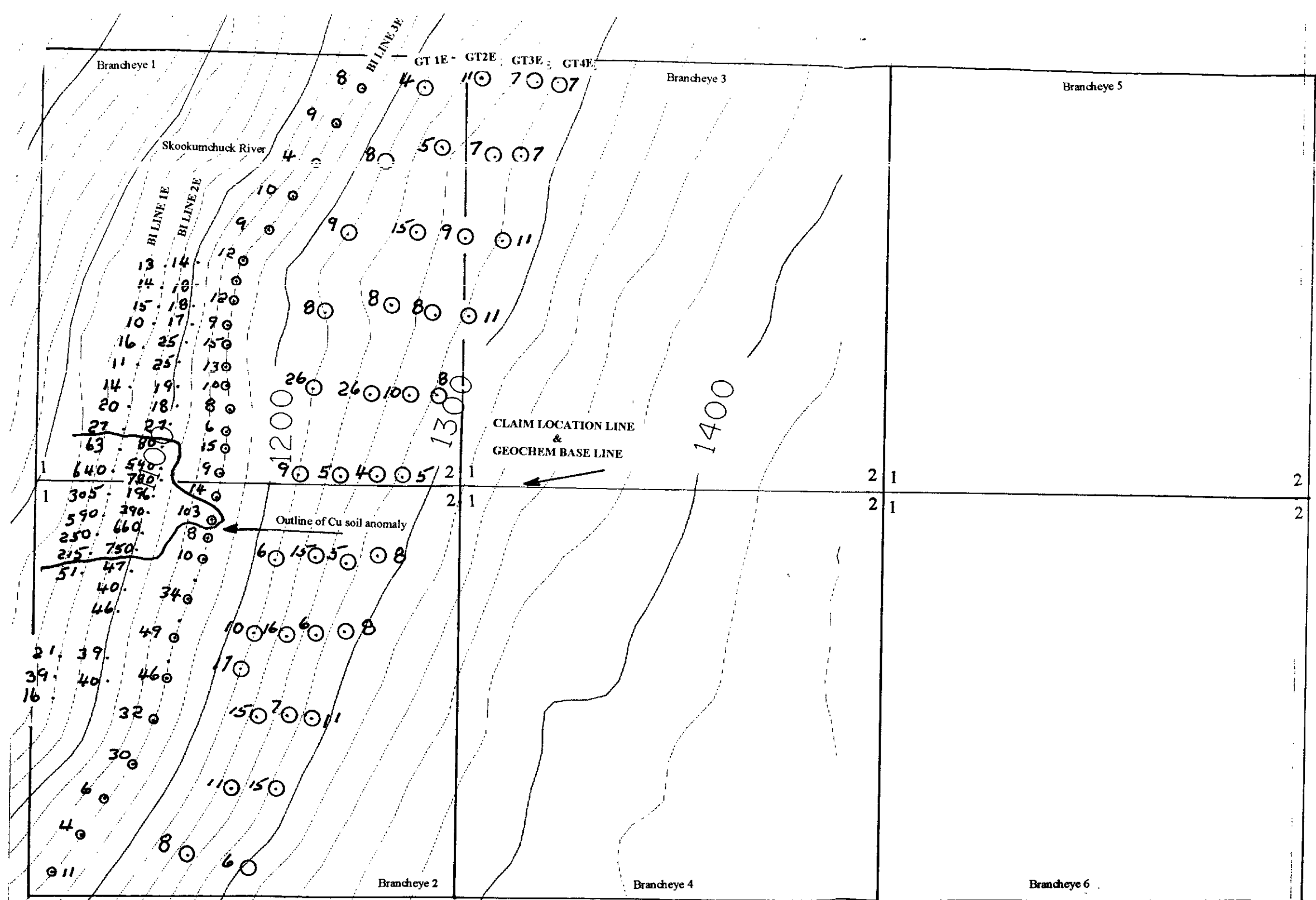
NTS 82G/13W

BCGS 82G.091

F. O'Grady, P.Eng.

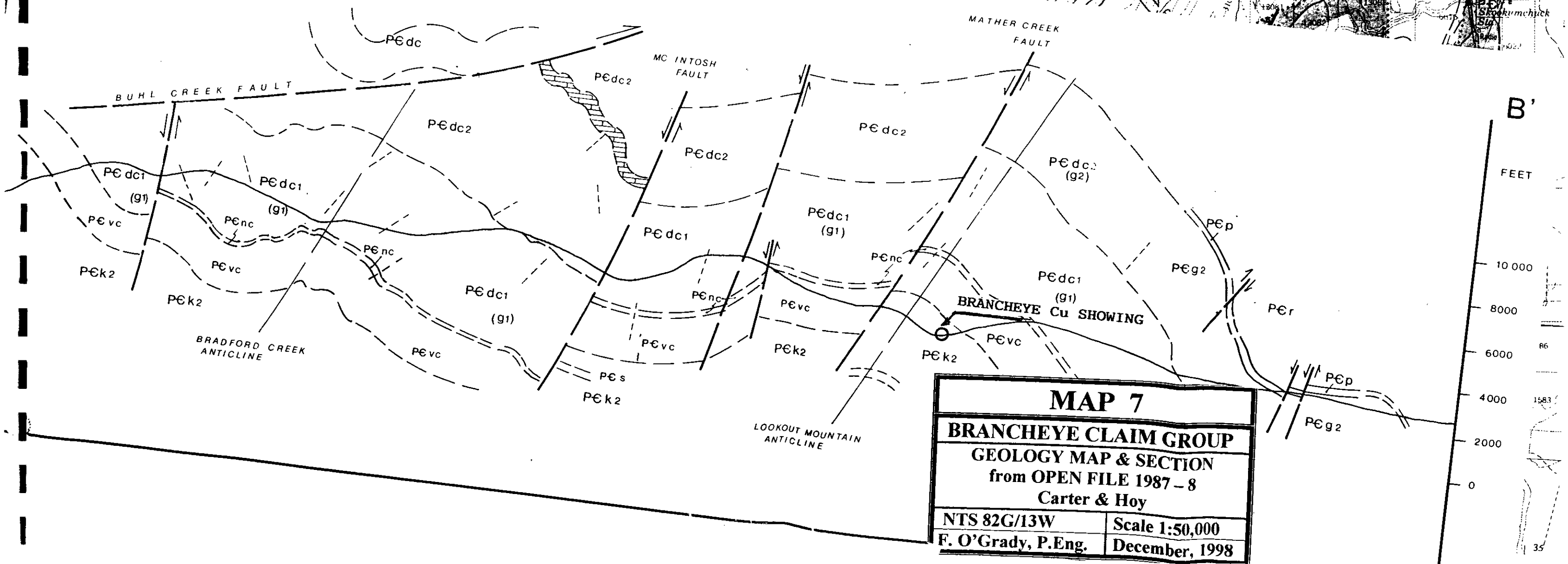
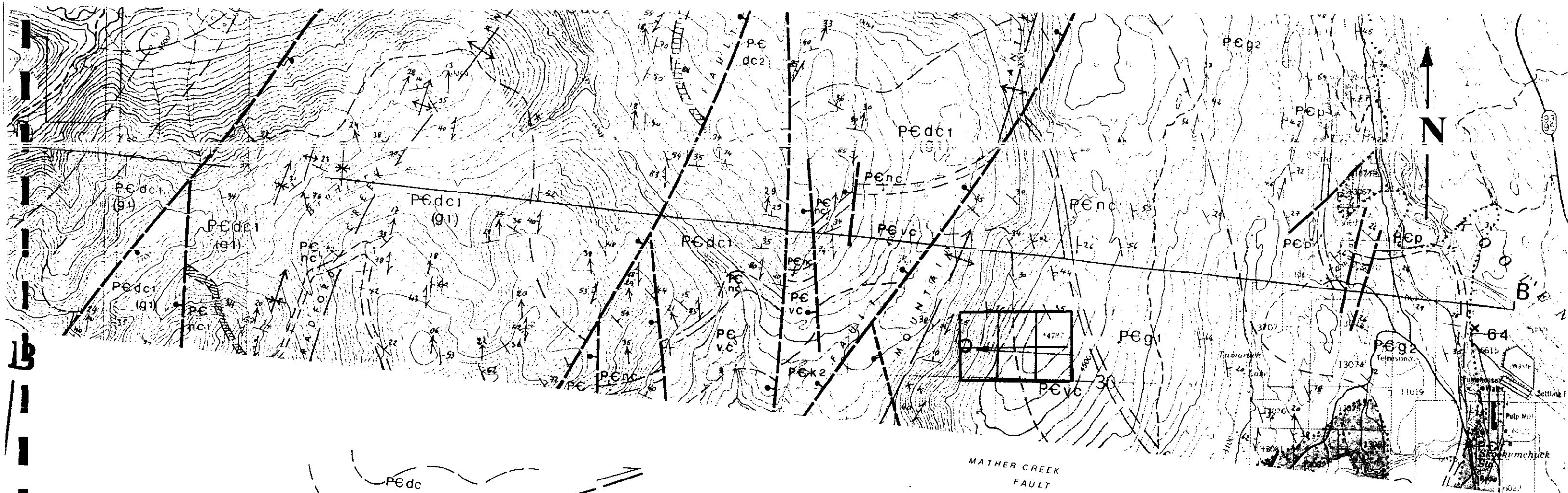
December 1998





- Sampled July 1997
 - ◉ Sampled September 1997
 - ⊙ Sampled June 1998
- All Values PPM Copper

MAP 6	
BRANCHEYE CLAIM GROUP	
GEOCHEMICAL MAP	
SCALE 1:5000	COPPER PPM
NTS 82G/13W	BCGS 82G.091
F. O'Grady, P. Eng.	August, 1998



MAP 7
BRANCHEYE CLAIM GROUP
GEOLOGY MAP & SECTION
 from OPEN FILE 1987 - 8
 Carter & Hoy

NTS 82G/13W	Scale 1:50,000
F. O'Grady, P.Eng.	December, 1998



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

OPEN FILE MAP NO. 1987 - 8

GEOLOGY OF SKOOKUMCHUCK MAP AREA (W^{1/2}),
SOUTHEASTERN BRITISH COLUMBIA

(NTS 82G/13W)

BY GINETTE CARTER AND TRYGVE HØY

(SEE BELOW FOR ADDITIONAL SOURCES OF DATA)

SCALE 1:50 000



LEGEND — PURCELL MOUNTAINS

QUATERNARY

PLEISTOCENE AND RECENT: Till, gravel, sand and alluvial deposits

CRETACEOUS WHITE CREEK BATHOLITH

Quartz monzonite, granodiorite

HADRYNIAN

TOBY FORMATION: Conglomerate, shale

HELIKIAN — PURCELL SUPERGROUP

SILL: Gabbro or diorite

MOUNT NELSON FORMATION: Quartzite, dolomite, siltstone

DUTCH CREEK FORMATION: Green siltstone, argillite; stromatolitic dolomite, quartz wacke

UPPER DUTCH CREEK: Green siltstone, argillite, oolitic dolomite, cryptalgal dolomite, dolomitic siltstone

Carbonate marker, cream massive dolomite and argillaceous dolomite

LOWER DUTCH CREEK: Coarse quartz wacke; stromatolitic, oolitic dolomite; green siltstone-argillite couplets

NICOL CREEK FORMATION: Interlayered siltstone argillite and basaltic-andesitic lava, tuff

Volcaniclastic siltstone, fine quartz wacke

VAN CREEK FORMATION: Green and mauve siltstone, argillite; silty quartz arenite

KITCHENER FORMATION: Grey-black dolomite, limestone; green argillite, siltstone

UPPER KITCHENER: Grey-black dolomite, limestone, molar tooth structures; siltstone, quartz arenite

LOWER KITCHENER: Green-beige siltstone, argillite; dolomitic siltstone

CRESTON FORMATION: Green, grey, mauve siltstone, argillite; white, green quartz arenite

UPPER CRESTON: Quartz siltstone, quartz arenite siltstone; argillite

MIDDLE CRESTON: White and green quartz arenite mauve and green quartz arenite and siltstone

LOWER CRESTON: Grey-black argillite, siltstone and siliceous argillite; green siltstone

ALDRIDGE FORMATION: Quartzite, quartz wacke, siltstone, argillite

UPPER ALDRIDGE: Rusty weathering argillite and siltstone

MIDDLE ALDRIDGE: Grey quartzite, quartz wacke; siltstone and rusty weathering dolomite near top

EASTERN FACIES OF UPPER PURCELL SUPERGROUP

ROOSVILLE FORMATION: Green siltstone and argillite; black argillite; stromatolitic dolomite and dark brown oolitic dolomite; quartz arenite toward the top

PHILLIPS FORMATION: Maroon to purple siltstone and argillite; fine-grained quartz wacke

GATEWAY FORMATION: Dolomite, quartz wacke; siltstone, argillite

UPPER GATEWAY: Green siltstone argillite; dolomite

LOWER GATEWAY: Quartz wacke, dolomitic sandstone, stromatolitic dolomite, oolitic dolomite

UPPER

LOWER

APPENDIX 1

CERTIFICATE OF ANALYSIS A9733846

Chemex Labs Ltd.

7 August 1997



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Page Number : 1
Total Pages : 1
Certificate Date: 06-AUG-97
Invoice No. : 19733846
P.O. Number :
Account : E

CERTIFICATE OF ANALYSIS

A9733846

SAMPLE	PREP CODE	Cu ppm
BI LINE 1 0+00N	201 202	640
BI LINE 1 0+25N	201 202	63
BI LINE 1 0+50N	201 202	27
BI LINE 1 0+75N	201 202	20
BI LINE 1 1+00N	201 202	14
BI LINE 1 1+25N	201 202	11
BI LINE 1 1+50N	201 202	16
BI LINE 1 1+75N	201 202	10
BI LINE 1 2+00N	201 202	15
BI LINE 1 2+25N	201 202	14
BI LINE 1 2+50N	201 202	13
BI LINE 1 0+25S	201 202	305
BI LINE 1 0+50S	201 202	590
BI LINE 1 0+75S	201 202	250
BI LINE 1 1+00S	201 202	215
BI LINE 1 1+25S	201 202	51
BI LINE 1 2+25S	201 202	21
BI LINE 1 2+50S	201 202	39
BI LINE 1 3+00S	201 202	16
BI LINE 2 0+00N	201 202	540
BI LINE 2 0+25N	201 202	188
BI LINE 2 0+50N	201 202	27
BI LINE 2 0+75N	201 202	18
BI LINE 2 1+00N	201 202	19
BI LINE 2 1+25N	201 202	25
BI LINE 2 1+50N	201 202	25
BI LINE 2 1+75N	201 202	17
BI LINE 2 2+00N	201 202	18
BI LINE 2 2+25N	201 202	18
BI LINE 2 2+50N	201 202	14
BI LINE 2 0+10S	201 202	780
BI LINE 2 0+25S	201 202	196
BI LINE 2 0+50S	201 202	390
BI LINE 2 0+75S	201 202	660
BI LINE 2 1+00S	201 202	750
BI LINE 2 1+25S	201 202	47
BI LINE 2 1+50S	201 202	40
BI LINE 2 1+75S	201 202	46
BI LINE 2 2+25S	201 202	39
BI LINE 2 2+50S	201 202	40

CERTIFICATION:

Handwritten signature

APPENDIX 2

CERTIFICATE OF ANALYSIS A9741618

Chemex Labs Ltd.

15 September 1997



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: BHP MINERALS CANADA LTD.
 1600 - 1050 W. PENDER ST.
 VANCOUVER, B.C.
 V6E 3S7

Page Number : 1-A
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 Certificate Date: 14-SEP-97
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 P.O. Number :
 Account : E

Project :
 Comments : ATTN: HARRY MUNTANION CC: FRANK O'GRADY

CERTIFICATE OF ANALYSIS A9741618

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
BI LINE3 0+25N	201 202	< 0.2	1.54	< 2	250	< 0.5	< 2	0.19	< 0.5	5	9	5	1.46	< 10	< 1	0.12	30	0.47	440	< 1
BI LINE3 0+50N	201 202	< 0.2	2.26	< 2	370	< 0.5	< 2	0.23	< 0.5	7	11	16	1.62	< 10	< 1	0.14	20	0.56	350	< 1
BI LINE3 0+75N	201 202	< 0.2	1.88	< 2	360	< 0.5	< 2	0.39	< 0.5	5	8	8	1.35	< 10	< 1	0.09	20	0.38	305	< 1
BI LINE3 1+00N	201 202	< 0.2	1.73	< 2	190	< 0.5	< 2	0.44	< 0.5	6	9	10	1.79	< 10	< 1	0.13	30	0.59	125	< 1
BI LINE3 1+25N	201 202	< 0.2	1.73	6	330	0.5	< 2	0.40	< 0.5	8	9	13	2.45	< 10	< 1	0.12	20	0.57	705	< 1
BI LINE3 1+50N	201 202	< 0.2	1.49	2	150	< 0.5	< 2	0.27	< 0.5	8	11	15	1.94	< 10	< 1	0.15	30	0.65	330	< 1
BI LINE3 1+75N	201 202	< 0.2	1.59	< 2	310	< 0.5	< 2	0.79	< 0.5	7	8	9	1.78	< 10	< 1	0.12	10	0.60	600	< 1
BI LINE3 2+00N	201 202	< 0.2	1.55	< 2	460	< 0.5	< 2	1.68	0.5	9	9	12	1.88	< 10	< 1	0.15	20	0.78	1365	< 1
BI LINE3 2+50N	201 202	< 0.2	2.32	6	240	0.5	< 2	0.39	< 0.5	10	10	12	2.02	< 10	< 1	0.14	10	0.55	325	< 1
BI LINE3 3+00N	201 202	< 0.2	2.46	< 2	300	0.5	< 2	0.35	< 0.5	10	10	9	2.19	< 10	< 1	0.08	10	0.61	375	< 1
BI LINE3 3+50N	201 202	< 0.2	1.97	2	260	0.5	< 2	0.71	< 0.5	8	10	10	2.60	< 10	< 1	0.13	20	0.87	755	< 1
BI LINE3 4+00N	201 202	< 0.2	1.58	6	280	< 0.5	< 2	0.18	< 0.5	8	9	4	1.82	< 10	< 1	0.08	10	0.53	370	< 1
BI LINE3 4+50N	201 202	< 0.2	2.49	2	300	0.5	< 2	1.27	< 0.5	11	11	9	3.21	< 10	< 1	0.13	20	1.47	1600	< 1
BI LINE3 5+00N	201 202	< 0.2	2.01	2	90	< 0.5	< 2	6.72	< 0.5	7	11	8	2.11	< 10	< 1	0.13	10	2.03	510	< 1
BI LINE3 0+00N	201 202	< 0.2	1.93	2	100	< 0.5	< 2	1.04	< 0.5	9	12	9	2.33	< 10	< 1	0.13	30	1.63	480	< 1
BI LINE3 0+25S	201 202	< 0.2	1.47	2	520	< 0.5	< 2	0.42	< 0.5	6	7	4	1.56	< 10	< 1	0.10	10	0.44	1610	< 1
BI LINE3 0+50S	201 202	< 0.2	1.53	< 2	590	< 0.5	< 2	0.40	< 0.5	6	9	103	2.31	< 10	< 1	0.16	20	0.77	625	< 1
BI LINE3 0+75S	201 202	< 0.2	1.35	< 2	250	< 0.5	< 2	0.14	< 0.5	6	8	8	1.30	< 10	< 1	0.10	30	0.51	270	< 1
BI LINE3 1+00S	201 202	< 0.2	2.03	< 2	360	< 0.5	< 2	0.12	< 0.5	6	9	10	1.55	< 10	< 1	0.09	20	0.57	220	< 1
BI LINE3 1+50S	201 202	< 0.2	1.83	10	220	0.5	< 2	0.30	< 0.5	15	13	34	2.43	< 10	< 1	0.11	30	0.98	1225	< 1
BI LINE3 2+00S	201 202	< 0.2	1.76	2	100	0.5	< 2	0.28	< 0.5	19	15	49	2.25	< 10	< 1	0.16	30	0.91	295	< 1
BI LINE3 2+50S	201 202	< 0.2	1.71	6	170	0.5	< 2	0.26	< 0.5	11	16	46	2.61	< 10	< 1	0.19	20	1.04	650	< 1
BI LINE3 3+00S	201 202	< 0.2	1.93	< 2	610	0.5	< 2	0.94	< 0.5	16	8	32	1.89	< 10	< 1	0.14	10	0.45	1990	< 1
BI LINE3 3+50S	201 202	< 0.2	2.48	2	600	0.5	< 2	0.65	< 0.5	10	15	30	2.59	< 10	< 1	0.15	30	0.68	1560	< 1
BI LINE3 4+00S	201 202	< 0.2	2.08	< 2	800	0.5	< 2	0.39	< 0.5	7	11	6	1.78	< 10	< 1	0.13	10	0.41	1420	< 1
BI LINE3 4+50S	201 202	< 0.2	1.80	< 2	670	0.5	< 2	0.70	< 0.5	10	12	4	2.33	< 10	< 1	0.12	10	0.62	1515	< 1
BI LINE3 5+00S	201 202	< 0.2	1.36	< 2	340	< 0.5	< 2	0.42	< 0.5	7	8	11	1.79	< 10	< 1	0.09	20	0.45	705	< 1

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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Project :
Comments: ATTN: HARRY MUNTANION CC: FRANK O'GRADY

Page 1 of 1
Total Pages : 1
Certificate Date: 14-SEP-97
Invoice No. : 19741618
P.O. Number :
Account : E

CERTIFICATE OF ANALYSIS A9741618

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BI LINE3 0+50N	201 202	0.01	13	540	6	< 2	1	13	0.05	< 10	< 10	14	< 10	58
BI LINE3 0+75N	201 202	0.01	8	650	6	< 2	1	19	0.06	< 10	< 10	12	< 10	50
BI LINE3 1+00N	201 202	< 0.01	11	190	8	< 2	4	10	0.04	< 10	< 10	10	< 10	36
BI LINE3 1+25N	201 202	< 0.01	12	620	24	< 2	4	11	0.03	< 10	< 10	10	< 10	82
BI LINE3 1+50N	201 202	< 0.01	10	170	14	< 2	3	9	0.04	< 10	< 10	12	< 10	26
BI LINE3 1+75N	201 202	0.01	8	590	22	< 2	2	20	0.03	< 10	< 10	10	< 10	60
BI LINE3 2+00N	201 202	< 0.01	10	960	62	< 2	3	34	0.03	< 10	< 10	10	< 10	88
BI LINE3 2+50N	201 202	0.02	11	430	18	< 2	3	15	0.05	< 10	< 10	15	< 10	56
BI LINE3 3+00N	201 202	0.01	13	300	18	< 2	3	11	0.05	< 10	< 10	17	< 10	46
BI LINE3 3+50N	201 202	< 0.01	11	450	28	< 2	3	15	0.02	< 10	< 10	12	< 10	54
BI LINE3 4+00N	201 202	< 0.01	10	450	12	< 2	1	9	0.03	< 10	< 10	14	< 10	48
BI LINE3 4+50N	201 202	0.01	12	850	14	< 2	4	19	0.04	< 10	< 10	14	< 10	84
BI LINE3 5+00N	201 202	< 0.01	10	170	18	< 2	3	42	0.01	< 10	< 10	11	< 10	62
BI LINE3 0+00N	201 202	< 0.01	11	250	20	< 2	2	10	0.01	< 10	< 10	10	< 10	64
BI LINE3 0+25S	201 202	< 0.01	7	500	12	< 2	1	18	0.03	< 10	< 10	10	< 10	48
BI LINE3 0+50S	201 202	< 0.01	13	430	12	< 2	3	13	0.01	< 10	< 10	9	< 10	34
BI LINE3 0+75S	201 202	< 0.01	8	150	6	< 2	1	8	0.03	< 10	< 10	9	< 10	32
BI LINE3 1+00S	201 202	< 0.01	11	180	6	< 2	1	9	0.04	< 10	< 10	12	< 10	40
BI LINE3 1+50S	201 202	< 0.01	15	380	14	< 2	1	17	0.01	< 10	< 10	13	< 10	36
BI LINE3 2+00S	201 202	0.01	15	390	10	< 2	3	10	0.02	< 10	< 10	12	< 10	28
BI LINE3 2+50S	201 202	< 0.01	18	330	10	< 2	4	10	0.01	< 10	< 10	10	< 10	40
BI LINE3 3+00S	201 202	< 0.01	11	2210	22	< 2	1	38	0.04	< 10	< 10	12	< 10	52
BI LINE3 3+50S	201 202	< 0.01	16	990	18	< 2	4	32	0.07	< 10	< 10	22	< 10	58
BI LINE3 4+00S	201 202	0.01	10	2700	8	< 2	3	23	0.05	< 10	< 10	16	< 10	70
BI LINE3 4+50S	201 202	< 0.01	14	1010	8	< 2	3	21	0.03	< 10	< 10	16	< 10	42
BI LINE3 5+00S	201 202	< 0.01	10	740	18	< 2	2	15	0.04	< 10	< 10	13	< 10	38

CERTIFICATION: _____

APPENDIX 3

CERTIFICATE OF ANALYSIS A9823857

Chemex Labs Ltd.

13 July 1998



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: O'GRADY, FRANK

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

A9823857

Comments: ATTN: FRANK O'GRADY

CERTIFICATE

A9823857

(QFP) - O'GRADY, FRANK

Project:
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	40	Dry, sieve to -80 mesh
202	40	save reject
238	40	Nitric-aqua-regia digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2	40	Cu ppm: HNO3-aqua regia digest	AAS	1	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: O'GRADY, FRANK

587 WALLINGER AVE.
KIMBERLY, BC
V1A 1Z8

Project:

Comments: ATTN: FRANK O'GRADY

Page, .eer : 1
Total Pages : 1
Certificate Date: 13-JUL-98
Invoice No. : I9823857
P.O. Number :
Account : QFP

CERTIFICATE OF ANALYSIS

A9823857

SAMPLE	PREP CODE	Cu ppm											
GT 1E 0+00	201 202	9											
GT 2E 0+00	201 202	5											
GT 3E 0+00	201 202	4											
GT 4E 0+00	201 202	5											
GT 1E 1+00S	201 202	6											
GT 1E 2+00S	201 202	10											
GT 1E 2+30S	201 202	17											
GT 2E 1+00S	201 202	15											
GT 2E 2+00S	201 202	16											
GT 2E 3+00S	201 202	15											
GT 1E 1N	201 202	26											
GT 1E 2N	201 202	8											
GT 1E 3N	201 202	9											
GT 1E 4N	201 202	8											
GT 1E 5N	201 202	4											
GT 2E 1N	201 202	26											
GT 2E 2N	201 202	8											
GT 2E 3N	201 202	15											
GT 2E 4N	201 202	5											
GT 2E 5N	201 202	11											
GT 3E 1N	201 202	10											
GT 3E 2N	201 202	8											
GT 3E 3N	201 202	9											
GT 3E 4N	201 202	7											
GT 3E 5N	201 202	7											
GT 4E 1N	201 202	8											
GT 4E 2N	201 202	11											
GT 4E 3N	201 202	11											
GT 4E 4N	201 202	7											
GT 4E 5N	201 202	7											
GT 3E 1+00S	201 202	5											
GT 3E 2+00S	201 202	6											
GT 3E 3+00S	201 202	7											
GT 3E 4+00S	201 202	11											
GT 3E 5+00S	201 202	8											
GT 4E 1+00S	201 202	8											
GT 4E 2+00S	201 202	8											
GT 4E 3+00S	201 202	11											
GT 4E 4+00S	201 202	15											
GT 4E 5+00S	201 202	6											

CERTIFICATION:

Haut/Bichler

LIST OF ILLUSTRATIONS

Illustration 1	PROVINCIAL GEOGRAPHIC LOCATION
Illustration 2	PROVINCIAL LOCATION NTS
Hospital Creek Project 98-A	
Illustration 3	INDEX MAP
Illustration 4	RECONNAISSANCE PROSPECTING
Illustration 5	RECONNAISSANCE GEOCHEM
Illustration 6	NORTH GRID PROSPECTING
Illustration 7	NORTH GRID GEOCHEM
Illustration 8	SOUTH B: LINE RECONNAISSANCE
Illustration 9	SOUTH B: LINE GEOCHEM
Illustration 10	PROMINENT HUMP PROSPECTING AND GEOCHEM
Illustration 11	NORTH GRID/INTRUSIVE BOULDER: RELATIONSHIP TO AEROMAG HIGH
Skookumchuck Project 98-B	
Illustration 12	INDEX MAP
Illustration 13	RECONNAISSANCE GEOCHEM
Illustration 14	9K SEDIMENT SAMPLE
Illustration 15	WEST SIDE RECONNAISSANCE
Illustration 16	ANTICLINE AREA PROSPECTING
Illustration 17	ANTICLINE AREA GEOCHEM
Illustration 18	CHRIS BARITE (CU) CLAIMS
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Columbia Lake Project 98-C	
Illustration 20	INDEX MAP
Illustration 21	GEOLOGY/GEOCHEM/PROSPECTING
Illustration 22	GEOLOGY/PROSPECTING
Illustration 23	GEOLOGY/PROSPECTING: FIR MOUNTAIN/EMILY CREEK
Illustration 24	SIGNIFICANT RESULTS
Golden Area Project 98-D	
Illustration 25	INDEX MAP
Illustration 26	GEOLOGY/PROSPECTING
Illustration 27	GEOCHEM/ROCK SAMPLE

British Columbia

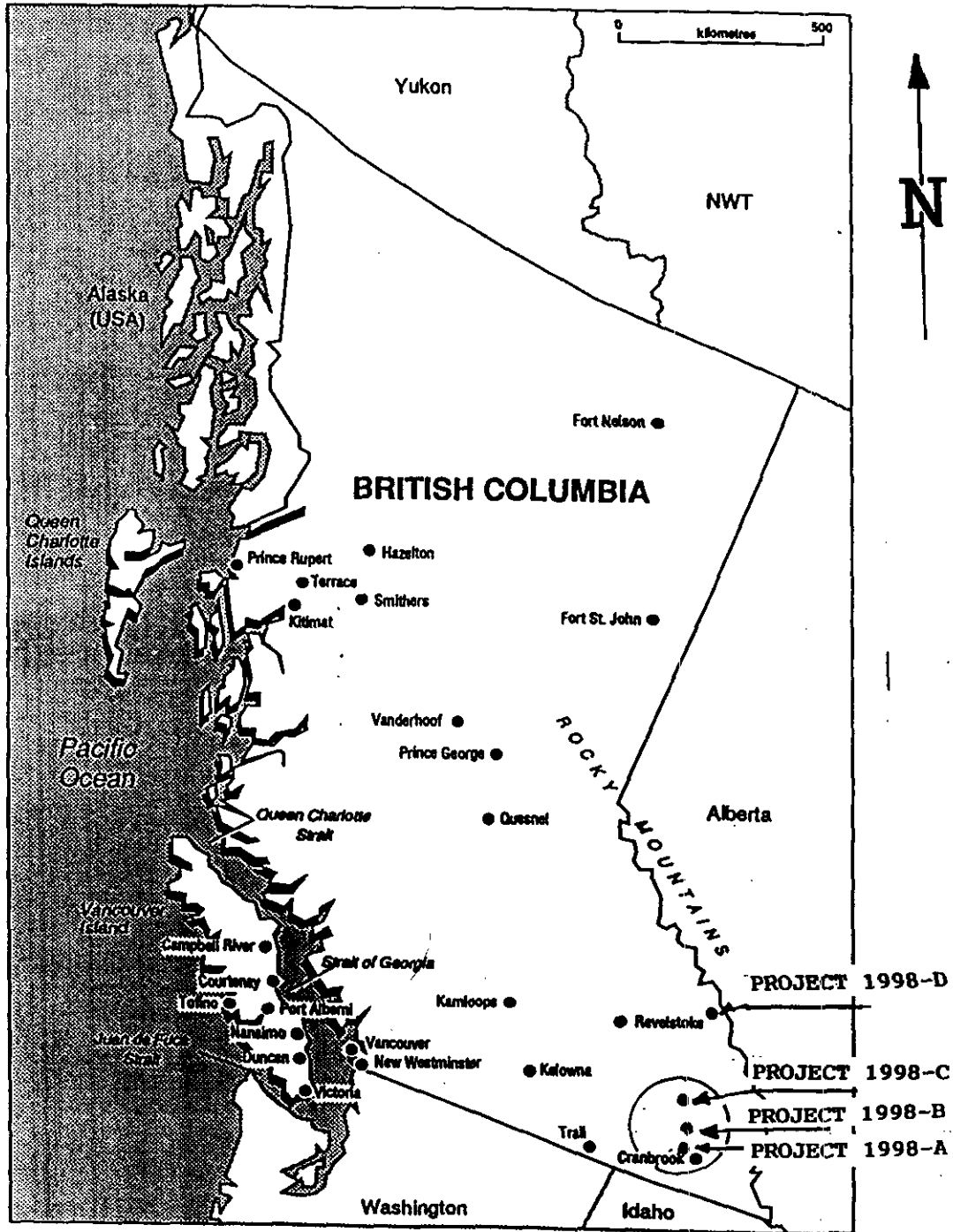


ILLUSTRATION 1	
PROSPECTORS ASSISTANCE 98/99-P49	
PROVINCE OF BRITISH COLUMBIA	
F. O'Grady, P.Eng.	December 1998

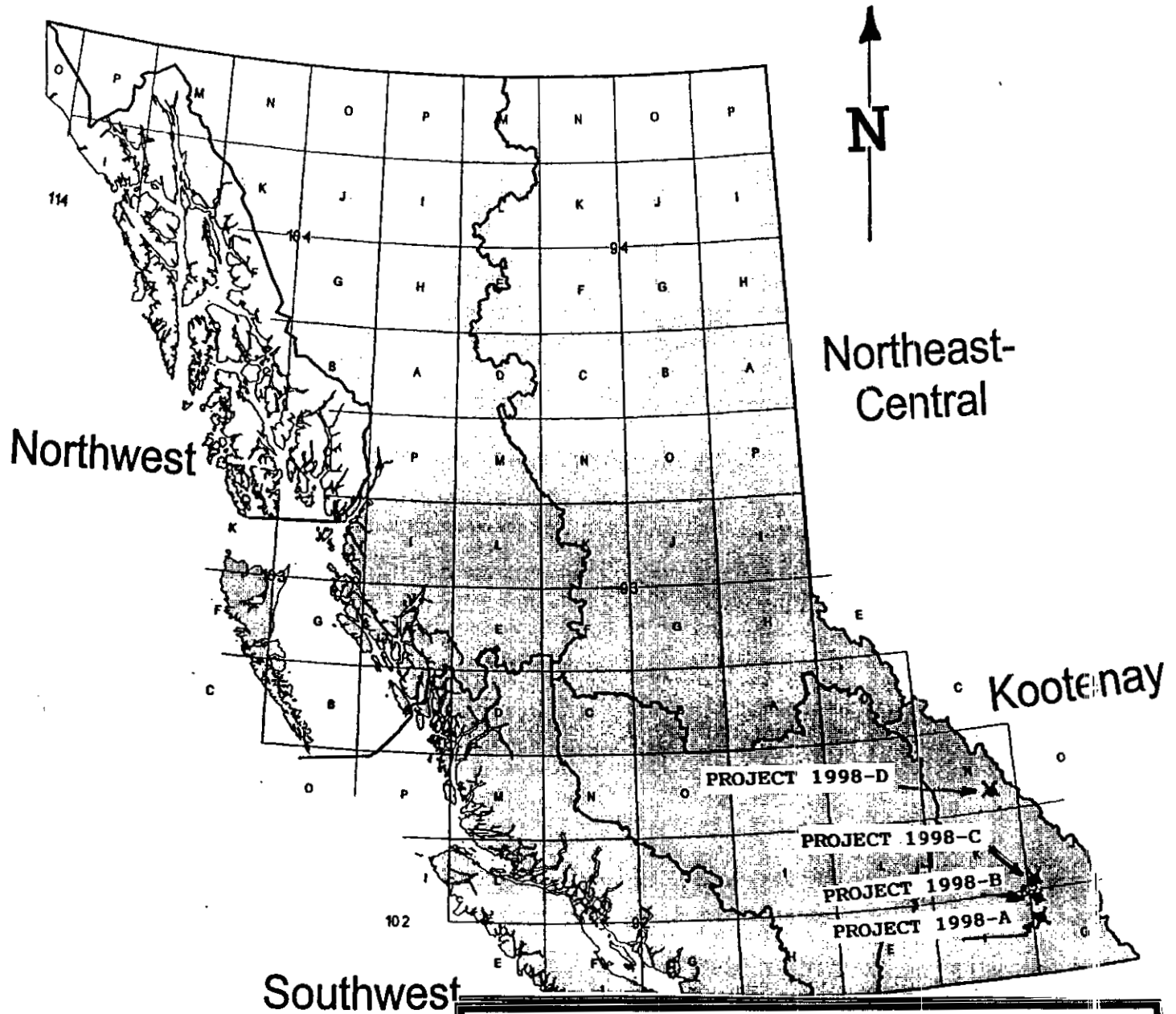
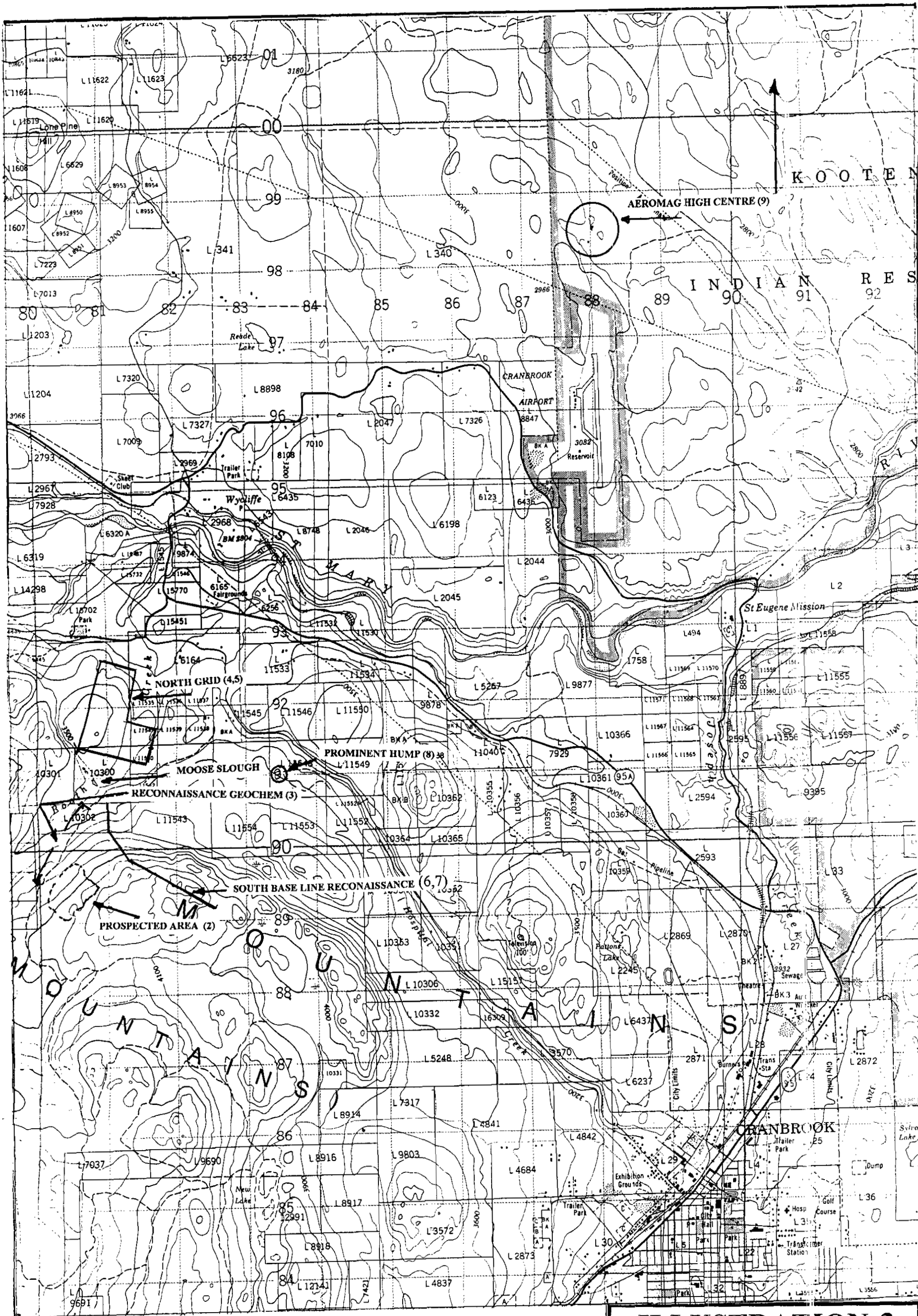


ILLUSTRATION 2	
PROSPECTORS ASSISTANCE 98/99-P49	
LOCATION OF PROJECTS	
F. O'Grady, P.Eng.	December 1998



(2) INDICATES ILLUSTRATION NUMBER

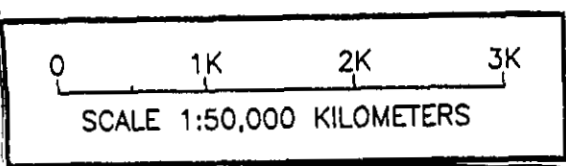


ILLUSTRATION 3	
Prospectors Grant 98/99-P49	
HOSPITAL CREEK PROJECT 98-A	
INDEX MAP	
NTS 82G/12	Scale 1:50,000
F. O'Grady, P.Eng.	December 1998

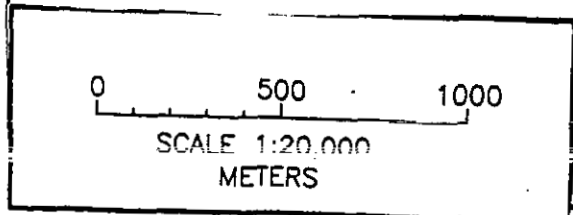
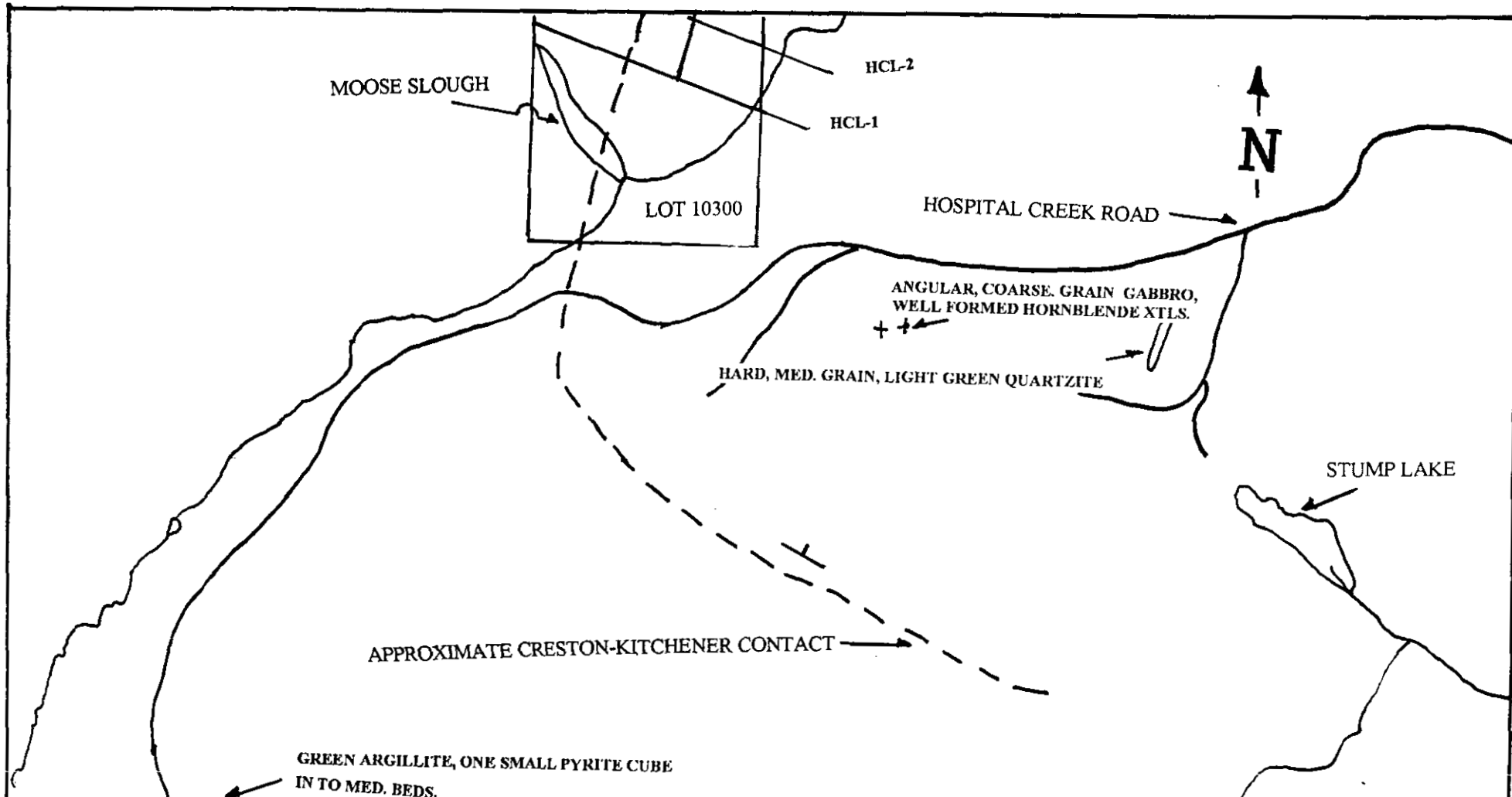


ILLUSTRATION 4	
Prospectors Grant 98/99-P49	
HOSPITAL CREEK PROJECT 98-A	
RECONNAISSANCE PROSPECTING	
BCGS Map 82G051	
NTS 82G/12	Scale 1:20,000
F. O'Grady, P.Eng.	December 1998

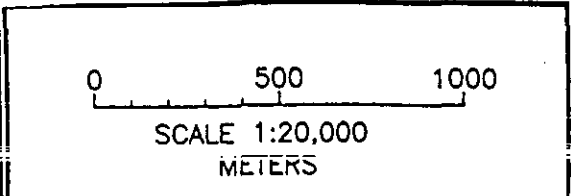
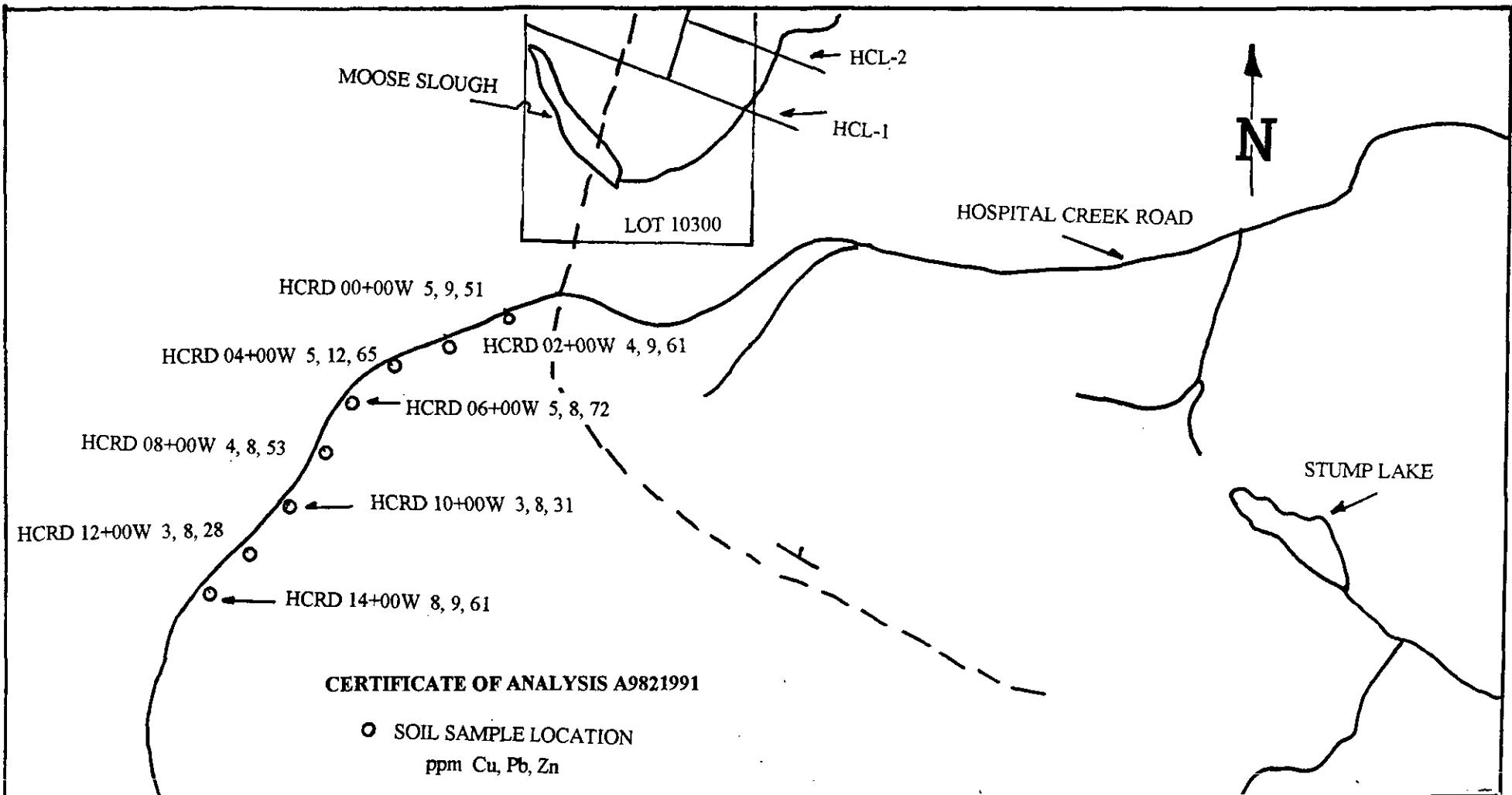
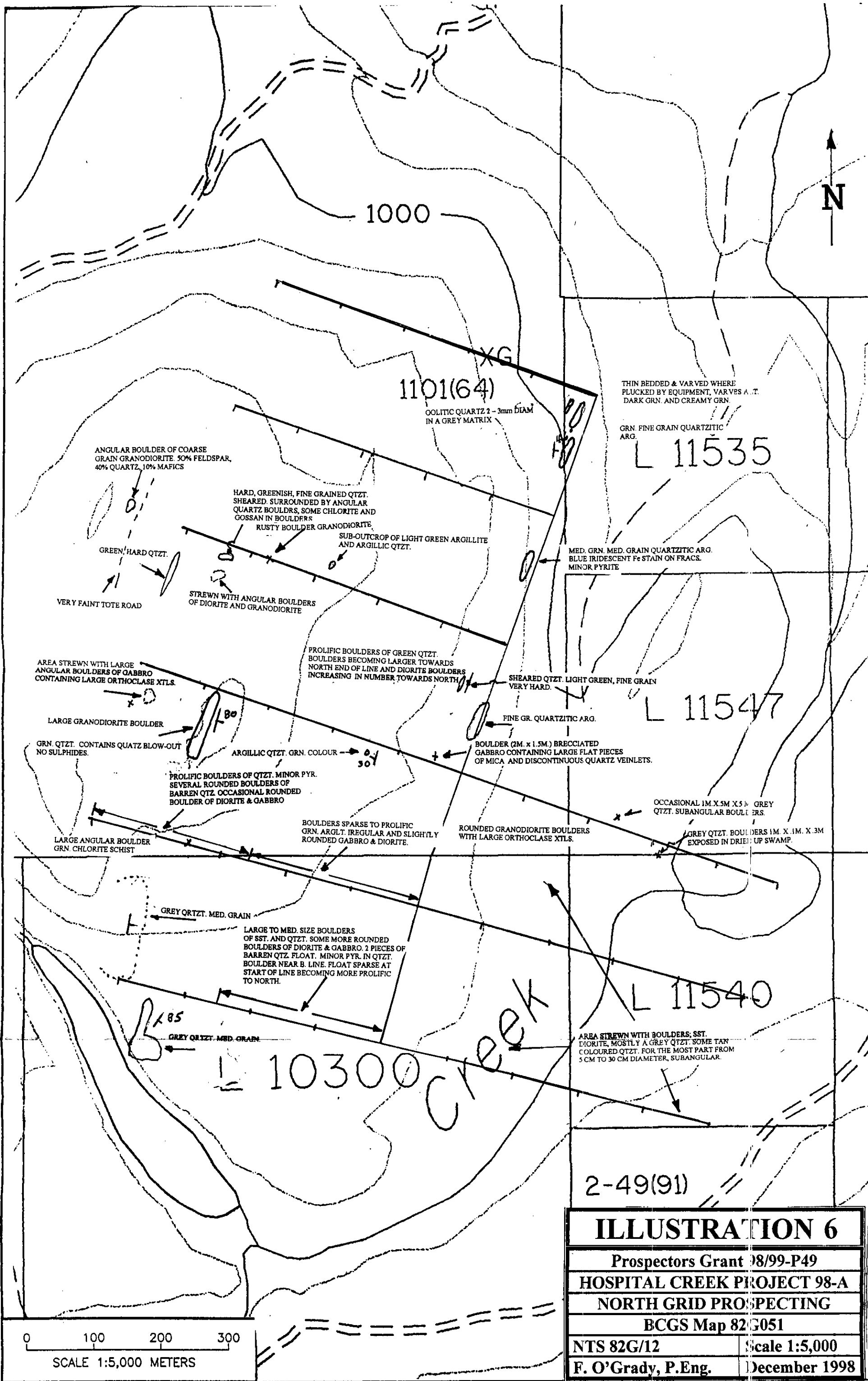


ILLUSTRATION 5	
Prospectors Grant 98/99-P49	
HOSPITAL CREEK PROJECT 98-A	
RECONNAISSANCE GEOCHEM	
BCGS Map 82G051	
NTS 82G/12	Scale 1:20,000
F. O'Grady, P.Eng.	December 1998



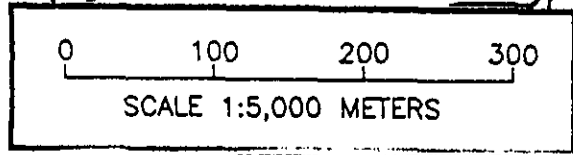
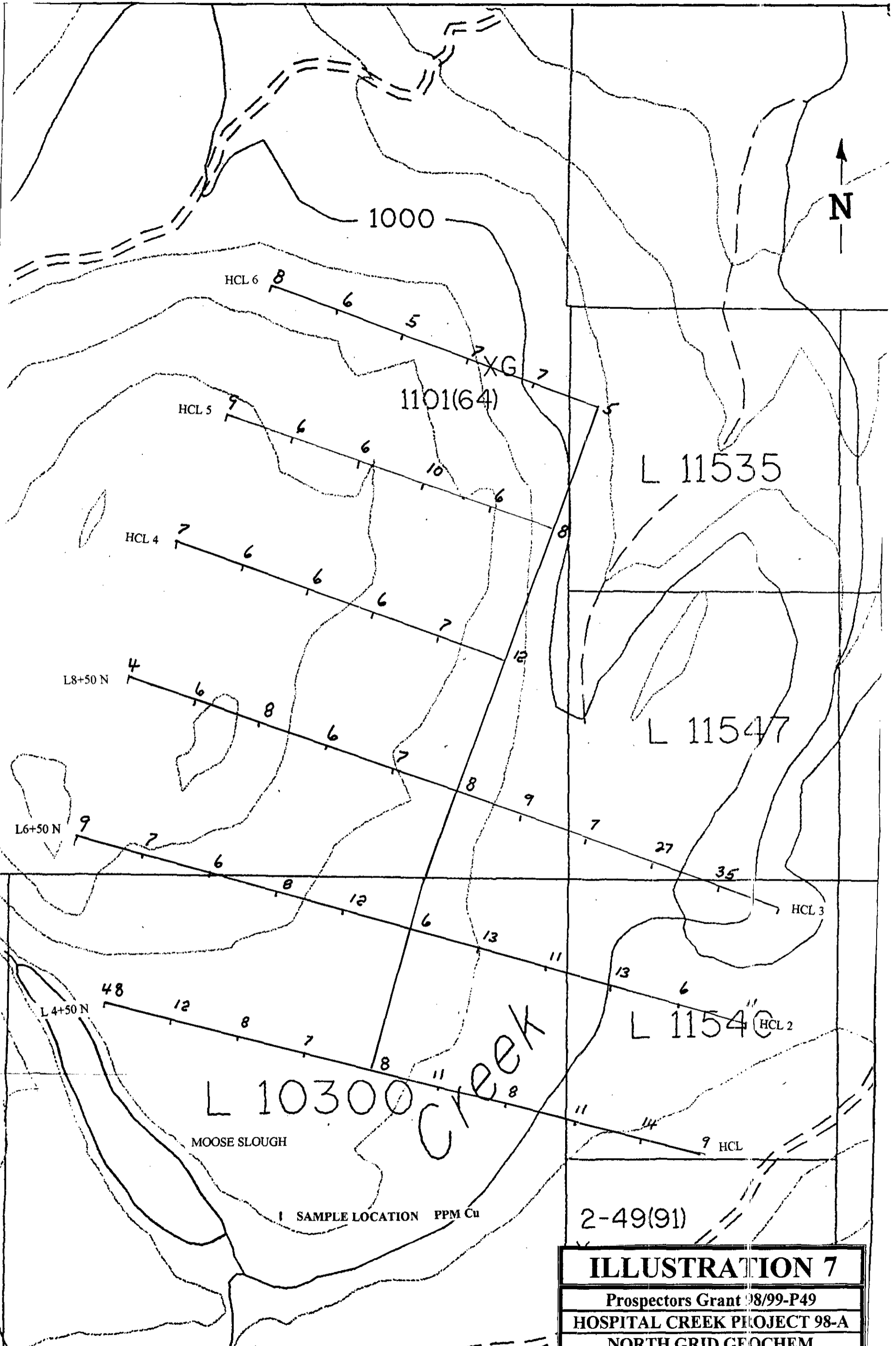
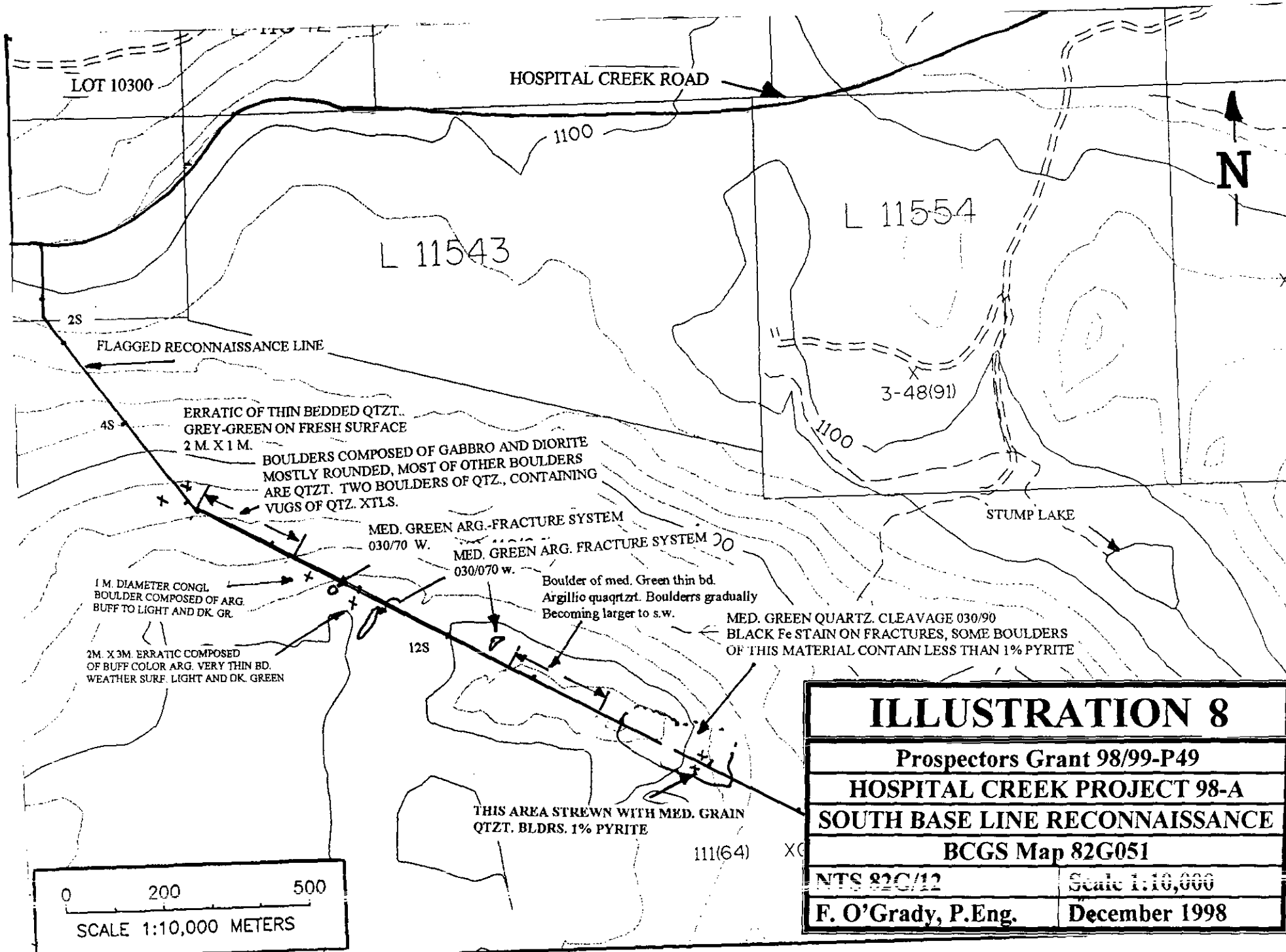
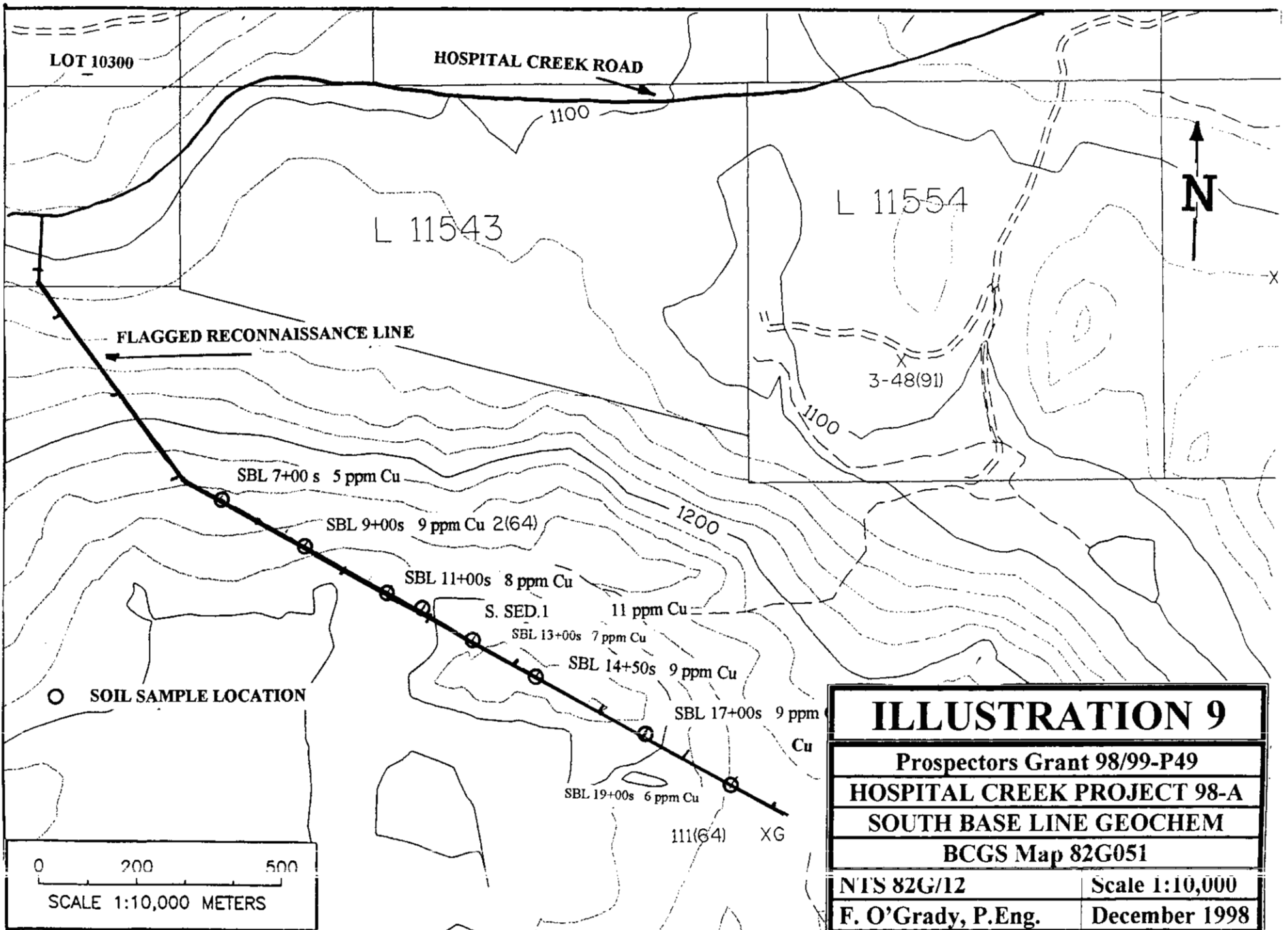
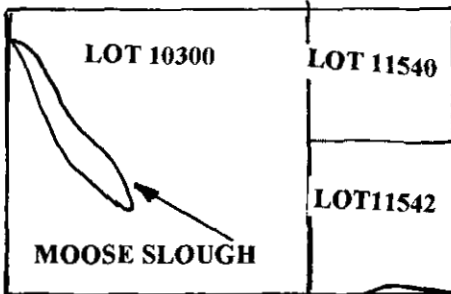


ILLUSTRATION 7	
Prospectors Grant 98/99-P49	
HOSPITAL CREEK PROJECT 98-A	
NORTH GRID GEOCHEM	
BCGS Map 82G051	
NTS 82G/12	Scale 1:5,000
F. O'Grady, P.Eng.	December 1998







PROMINENT HUMP, 3-4 METERS RELIEF
NO O/C. ANGULAR FINE GGRAIN MED. GREY
QTZT. 2% PYRITE ON FRACS. RUST ON FRACS.

HOSPITAL CREEK ROAD

SAMPLE HCRD HUMP CHEMEX CERT A9021991

Cu 10 ppm Pb 14 ppm Zn 59 ppm

STUMP LAKE

0 500 1000

SCALE 1:20,000
METERS

ILLUSTRATION 10

Prospectors Grant 98/99-P49

HOSPITAL CREEK PROJECT 98-A

PROMINENT HUMP
PROSPECTING & GEOCHEM

BCGS Map 82G051

NTS 82G/12

Scale 1:20,000

F. O'Grady, P.Eng.

December 1998

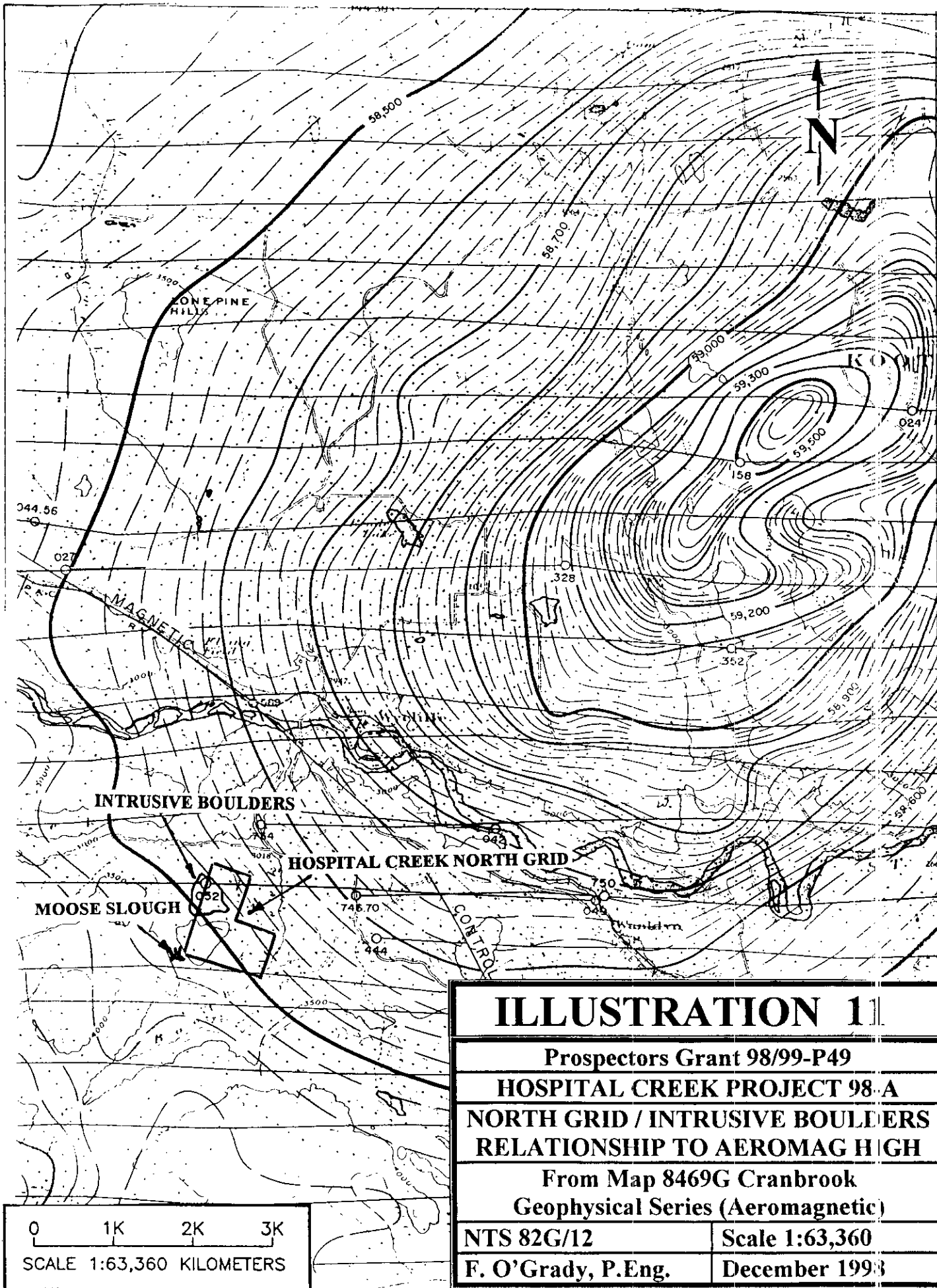
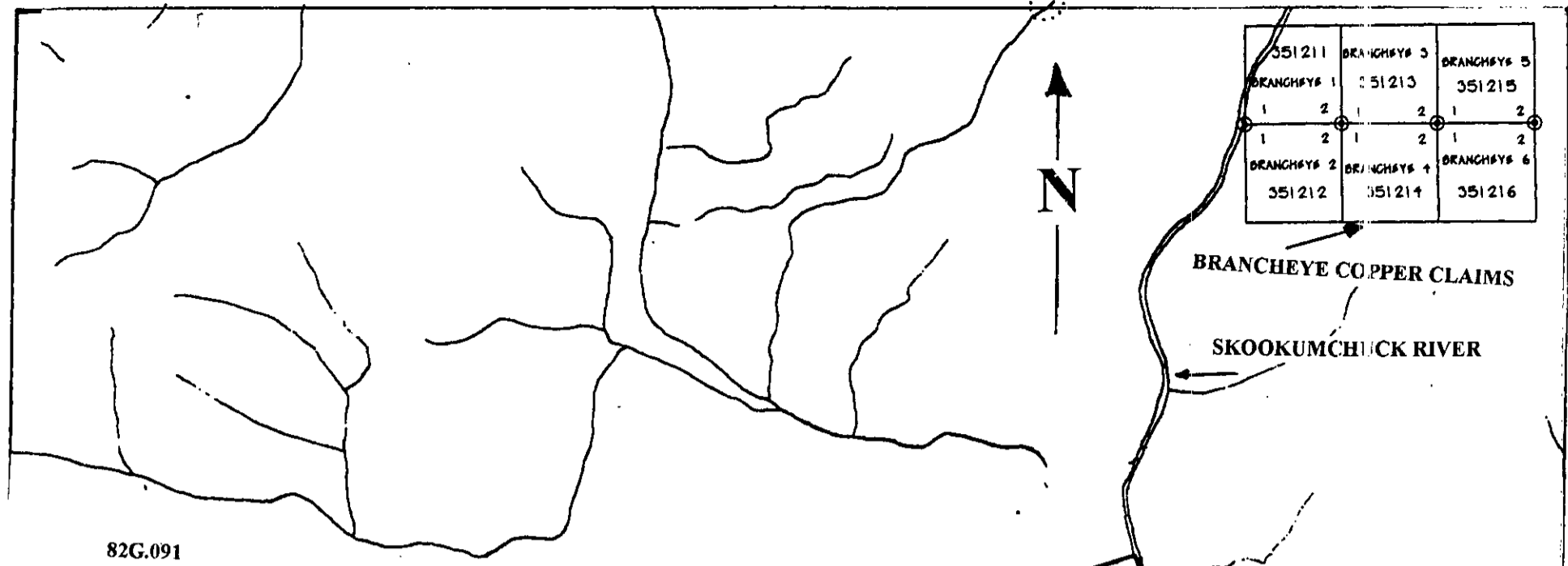


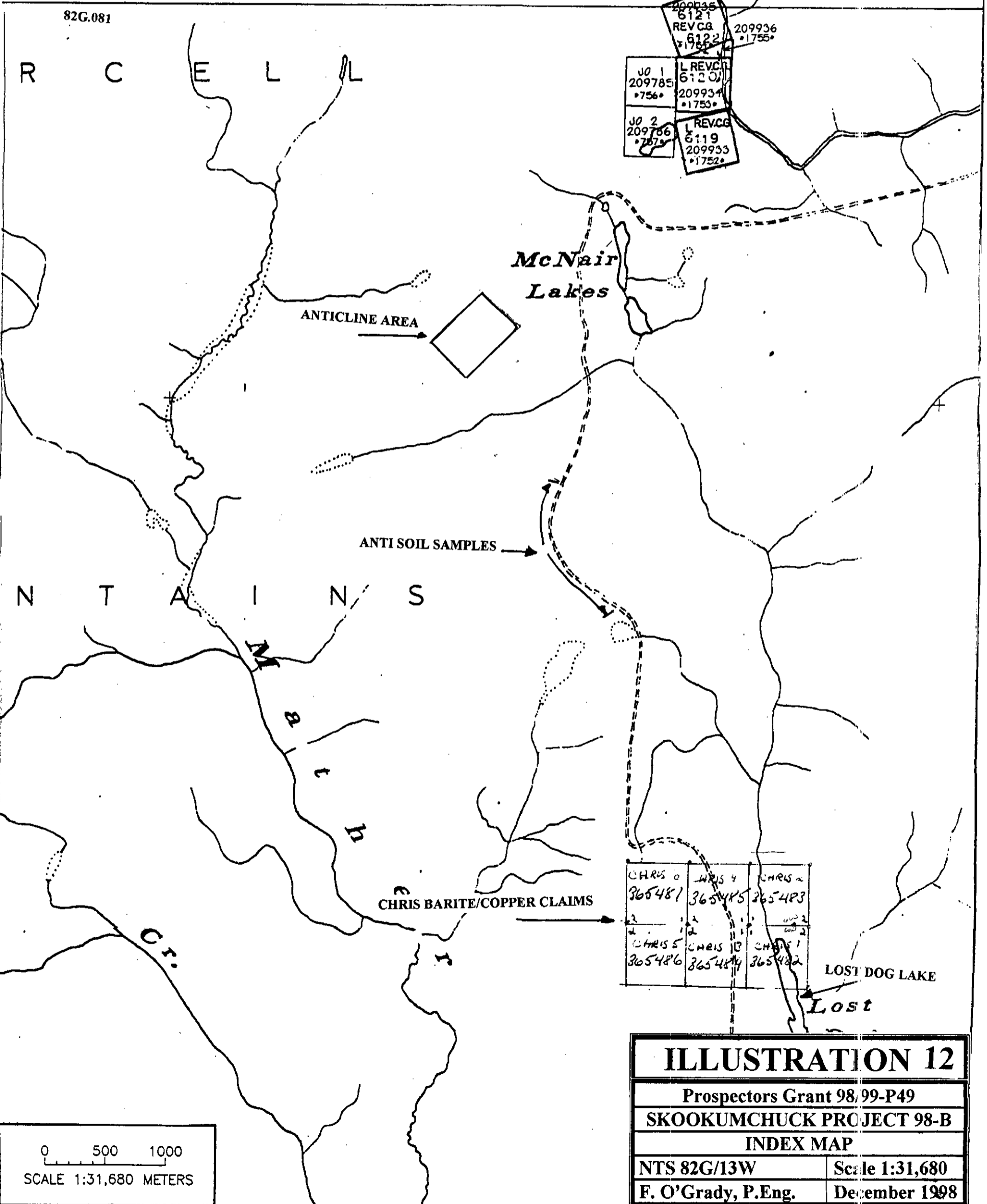
ILLUSTRATION 1

Prospectors Grant 98/99-P49
HOSPITAL CREEK PROJECT 98-A
NORTH GRID / INTRUSIVE BOULDERS
RELATIONSHIP TO AEROMAG HIGH
 From Map 8469G Cranbrook
 Geophysical Series (Aeromagnetic)
 NTS 82G/12 Scale 1:63,360
 F. O'Grady, P.Eng. December 1998

0 1K 2K 3K
 SCALE 1:63,360 KILOMETERS



82G.091



209935	6121	209936
REVCG	6121	•1755•
6122	209934	
•1755•	•1753•	
JO 1	L REVCG	
209785	6120	
•756•	209934	
	•1753•	
JO 2	L REVCG	
209786	6119	
•787•	209933	
	•1752•	

CHRIS 0	CHRIS 4	CHRIS 2
365481	365485	365483
2	1	2
2	2	2
CHRIS 5	CHRIS 13	CHRIS 1
365486	365484	365482

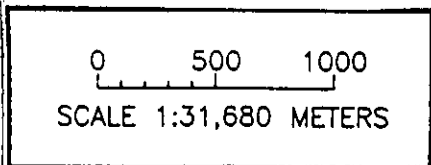
ILLUSTRATION 12

Prospectors Grant 98/99-P49

SKOOKUMCHUCK PROJECT 98-B

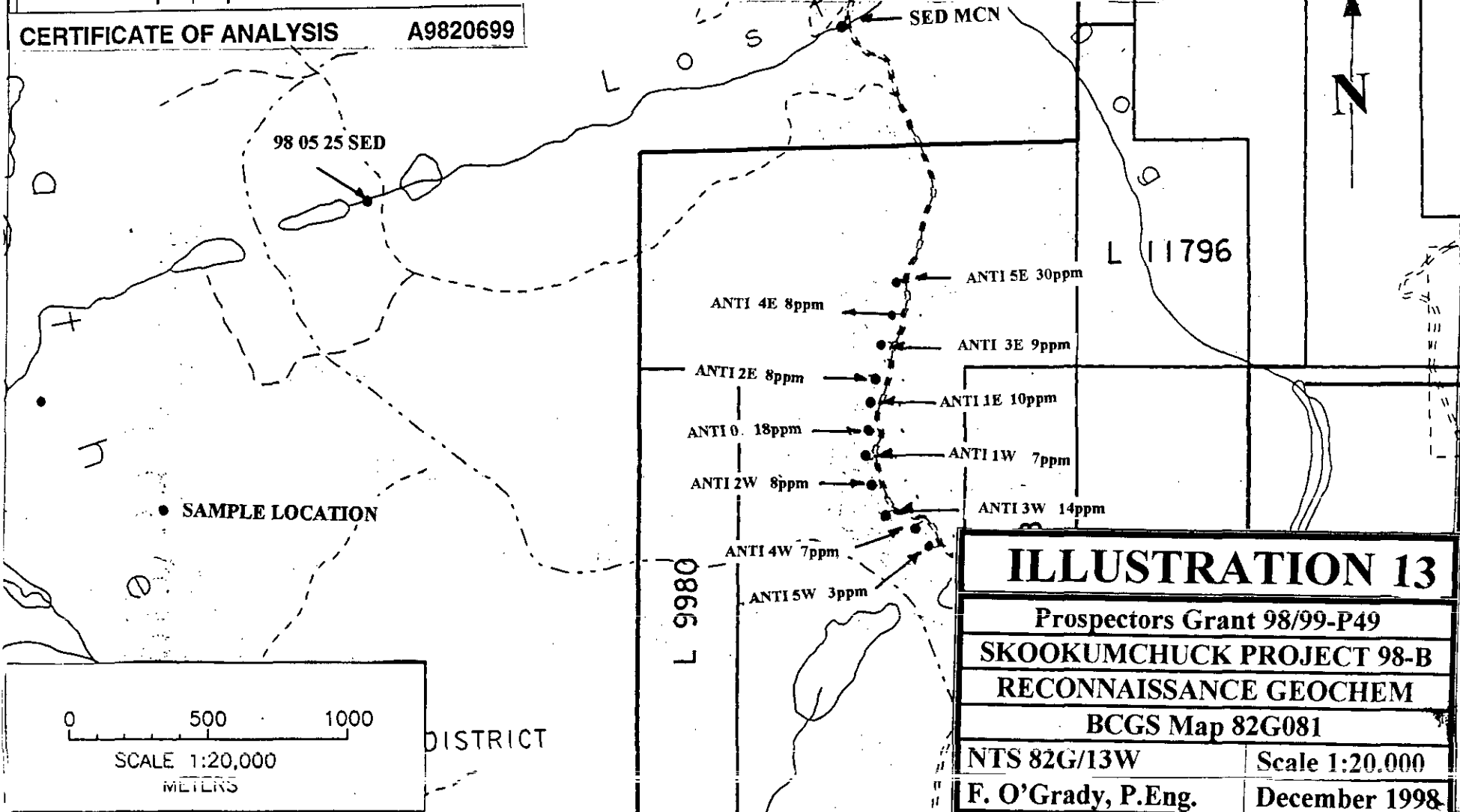
INDEX MAP

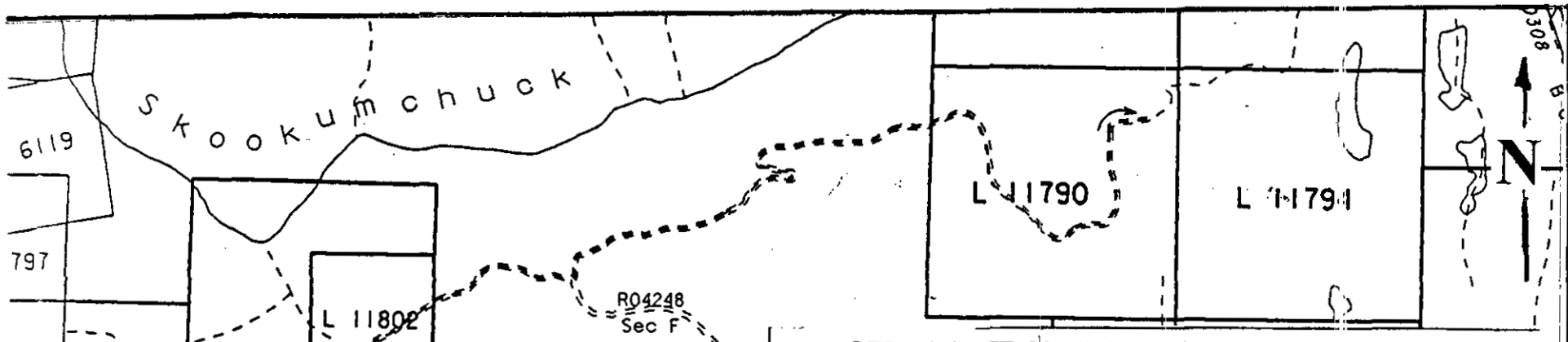
NTS 82G/13W	Scale 1:31,680
F. O'Grady, P.Eng.	December 1998



SAMPLE	PREP CODE		Al	Sb	As	Ba	Be	Bi	Cd	Ca	Cr	Co	Cu	Ga	Ge	Fe	La	Pb	Mg	Mn	Hg
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
9K SED	201	202	1.30	1.0	3.2	380	0.5	0.18	0.1	5.73	14	5	68.9	2.1	< 0.1	1.33	10	8	0.45	1420	0.06
98 05 25 SED	201	202	1.16	0.4	11.2	250	< 0.5	0.30	0.1	0.99	8	7	11.4	3.0	< 0.1	2.79	10	10	0.80	1255	0.03
SED MCN	201	202	1.55	0.4	4.2	320	0.5	0.28	0.3	1.84	12	5	15.6	3.0	< 0.1	1.72	10	10	0.72	505	0.06
SAMPLE	PREP CODE		Mo	Ni	P	K	Sc	Ag	Na	Sr	Te	Tl	Tl	W	U	V	Zn				
			ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm				
9K SED	201	202	0.6	15	470	0.06	3	0.16	0.01	61	< 0.1	0.1	0.03	0.30	1.10	8	14				
98 05 25 SED	201	202	0.4	9	630	0.08	1	0.06	< 0.01	19	< 0.1	< 0.1	0.02	0.15	0.90	11	52				
SED MCN	201	202	0.4	8	1010	0.11	1	0.14	0.01	33	< 0.1	0.1	0.03	0.20	0.90	10	42				

CERTIFICATE OF ANALYSIS A9820699

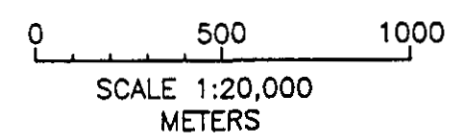
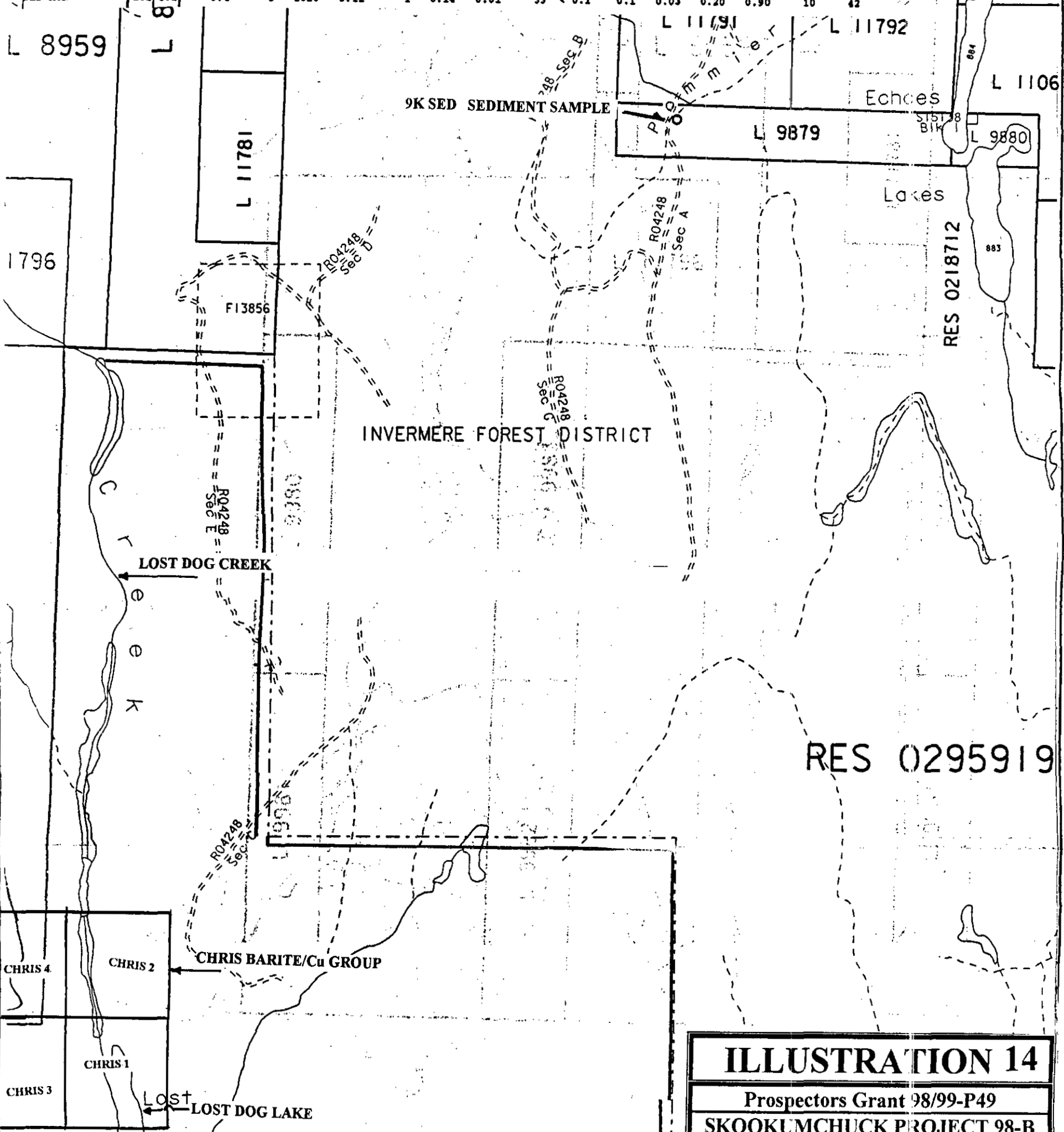




CERTIFICATE OF ANALYSIS A9820599

SAMPLE	PREP CODE	Al %	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca %	Cr ppm	Co ppm	Cu ppm	Ga ppm	Ge ppm	Fe %	La ppm	Pb ppm	Mg %	Mn ppm	Hg ppm
9K SED	201 202	1.30	1.0	3.2	380	0.5	0.18	0.1	5.73	14	5	68.9	2.1	< 0.1	1.33	10	8	0.45	1420	0.06
98 05 25 SED	201 202	1.16	0.4	11.2	250	< 0.5	0.30	0.1	0.99	8	7	11.4	3.0	< 0.1	2.79	10	10	0.80	1255	0.03
SED MCH	201 202	1.55	0.4	4.2	320	0.5	0.28	0.3	1.84	12	5	15.6	3.0	< 0.1	1.72	10	10	0.72	505	0.06

SAMPLE	PREP CODE	Mo ppm	Ni ppm	P ppm	K %	Sc ppm	Ag ppm	Na %	Sr ppm	Te ppm	Tl ppm	Tl %	W ppm	U ppm	V ppm	Zn ppm
9K SED	201 202	0.6	15	470	0.06	3	0.16	0.01	61	< 0.1	0.1	0.03	0.30	1.10	8	14
98 05 25 SED	201 202	0.4	9	530	0.08	1	0.06	< 0.01	19	< 0.1	< 0.1	0.02	0.15	0.90	11	52
SED MCH	201 202	0.4	8	1010	0.11	1	0.14	0.01	33	< 0.1	0.1	0.03	0.20	0.90	10	42



TA TA CREEK (G)
▲
28HN004

ILLUSTRATION 14

Prospectors Grant 98/99-P49

SKOOKUMCHUCK PROJECT 98-B

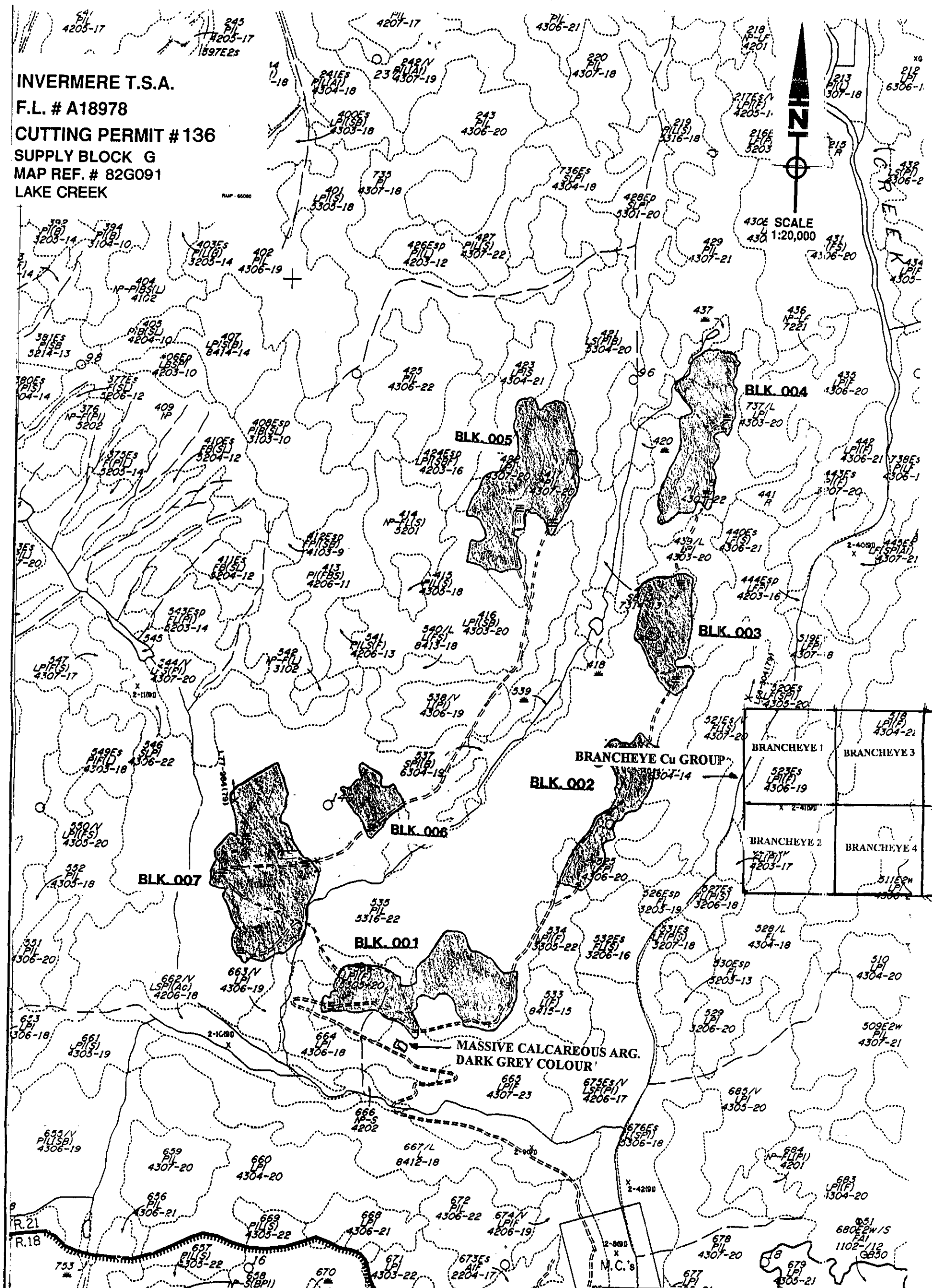
9K SEDIMENT SAMPLE

BCGS Map 82G081

NTS 82G/13W Scale 1:20,000

F. O'Grady, P.Eng. December 1998

INVERMERE T.S.A.
 F.L. # A18978
 CUTTING PERMIT # 136
 SUPPLY BLOCK G
 MAP REF. # 82G091
 LAKE CREEK



CRESTBROOK FOREST INDUSTRIES LTD. 

LEGEND

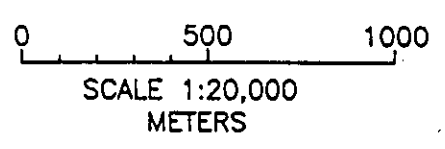
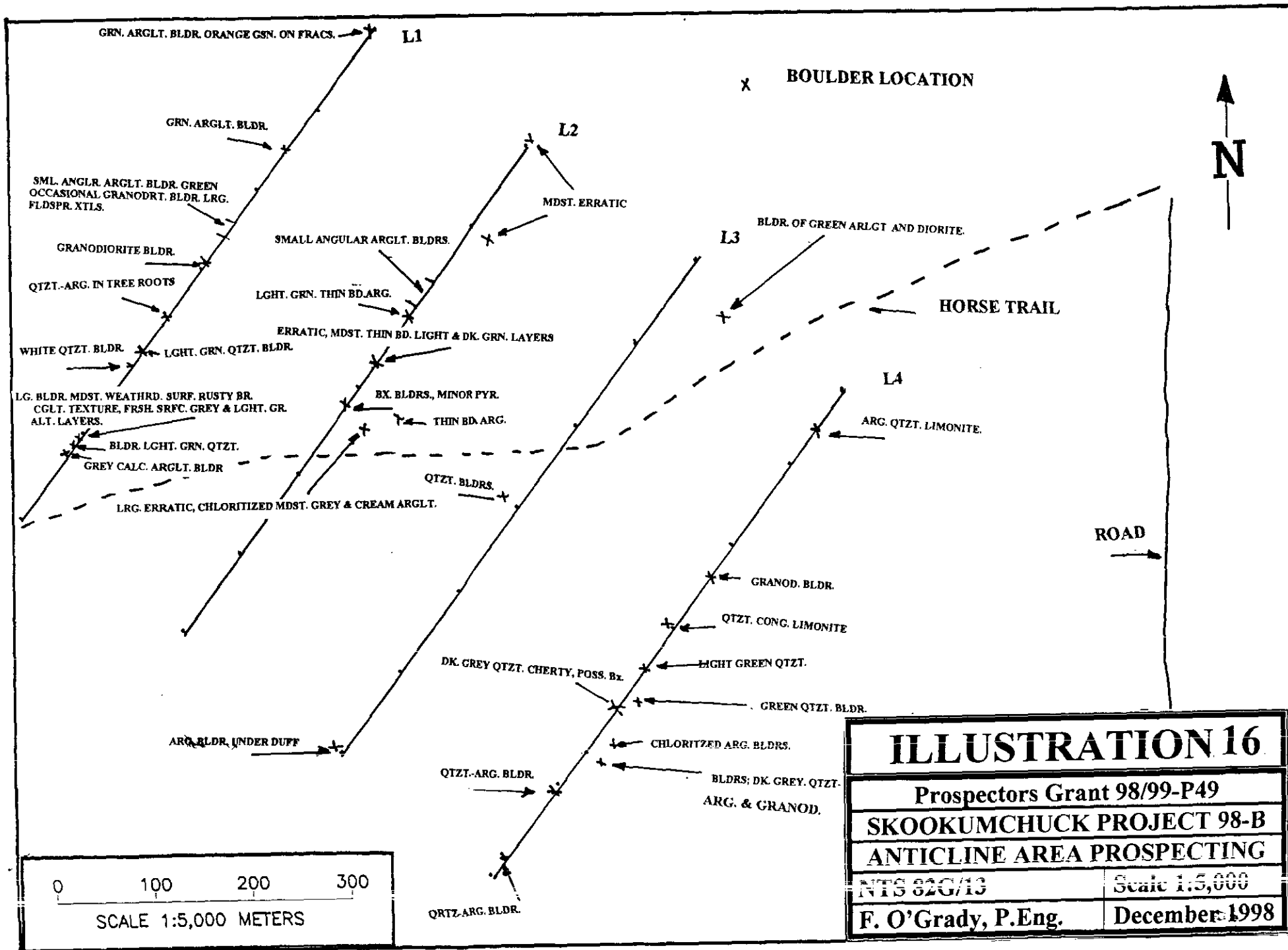


ILLUSTRATION 15

Prospectors Grant 98/99-P49	
SKOOKUMCHUCK PROJECT 98-B	
WEST SIDE RECONNAISSANCE	
BCGS Map 82G091	
NTS 82G/13W	Scale 1:20,000
F. O'Grady, P.Eng.	December 1998



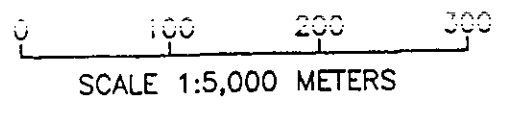
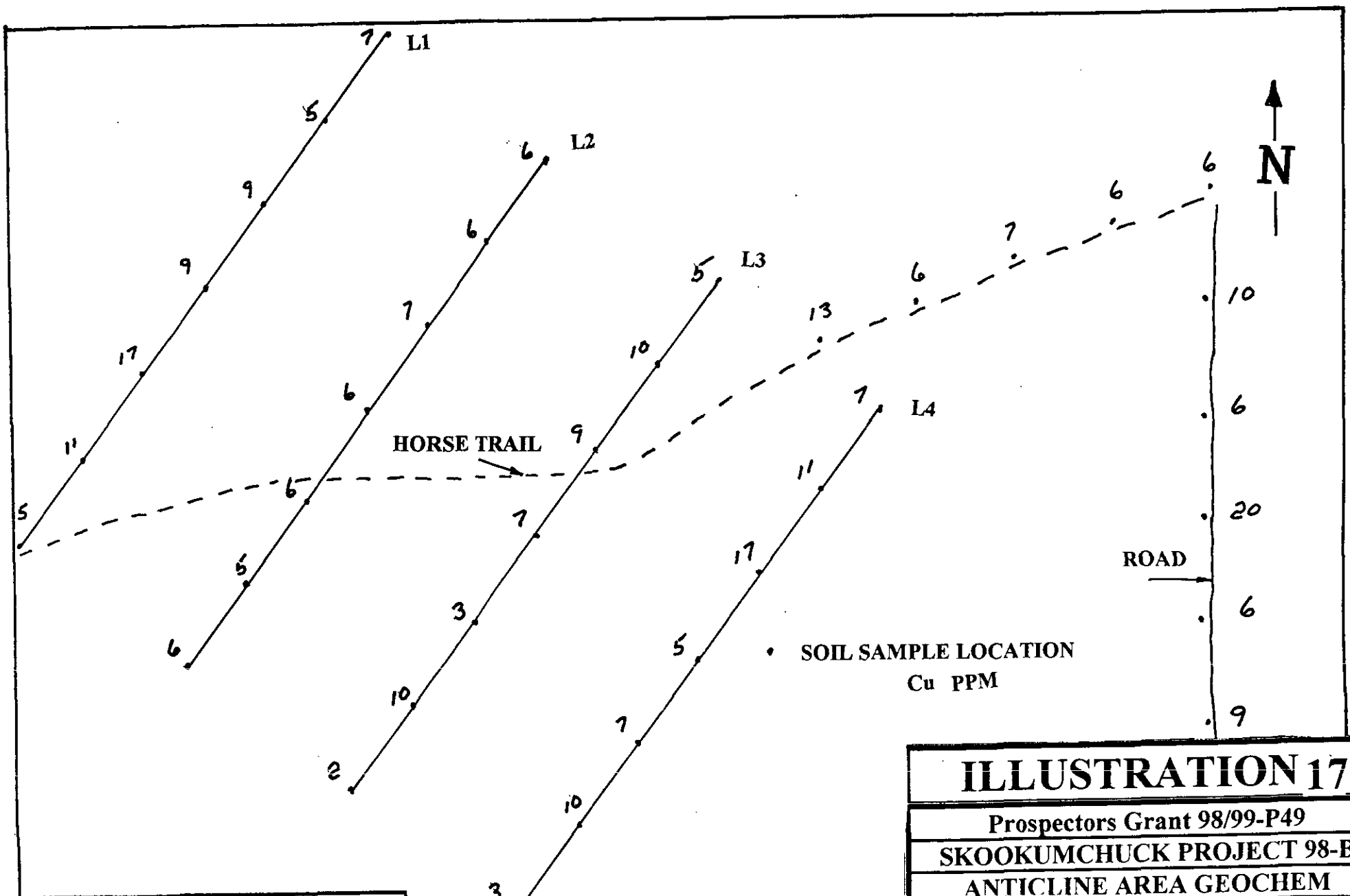


ILLUSTRATION 17

Prospectors Grant 98/99-P49

SKOOKUMCHUCK PROJECT 98-B

ANTICLINE AREA GEOCHEM

NTS 82G/13	Scale 1:5,000
F. O'Grady, P.Eng.	December 1998

Chemex Labs Ltd. Certificate of Analysis

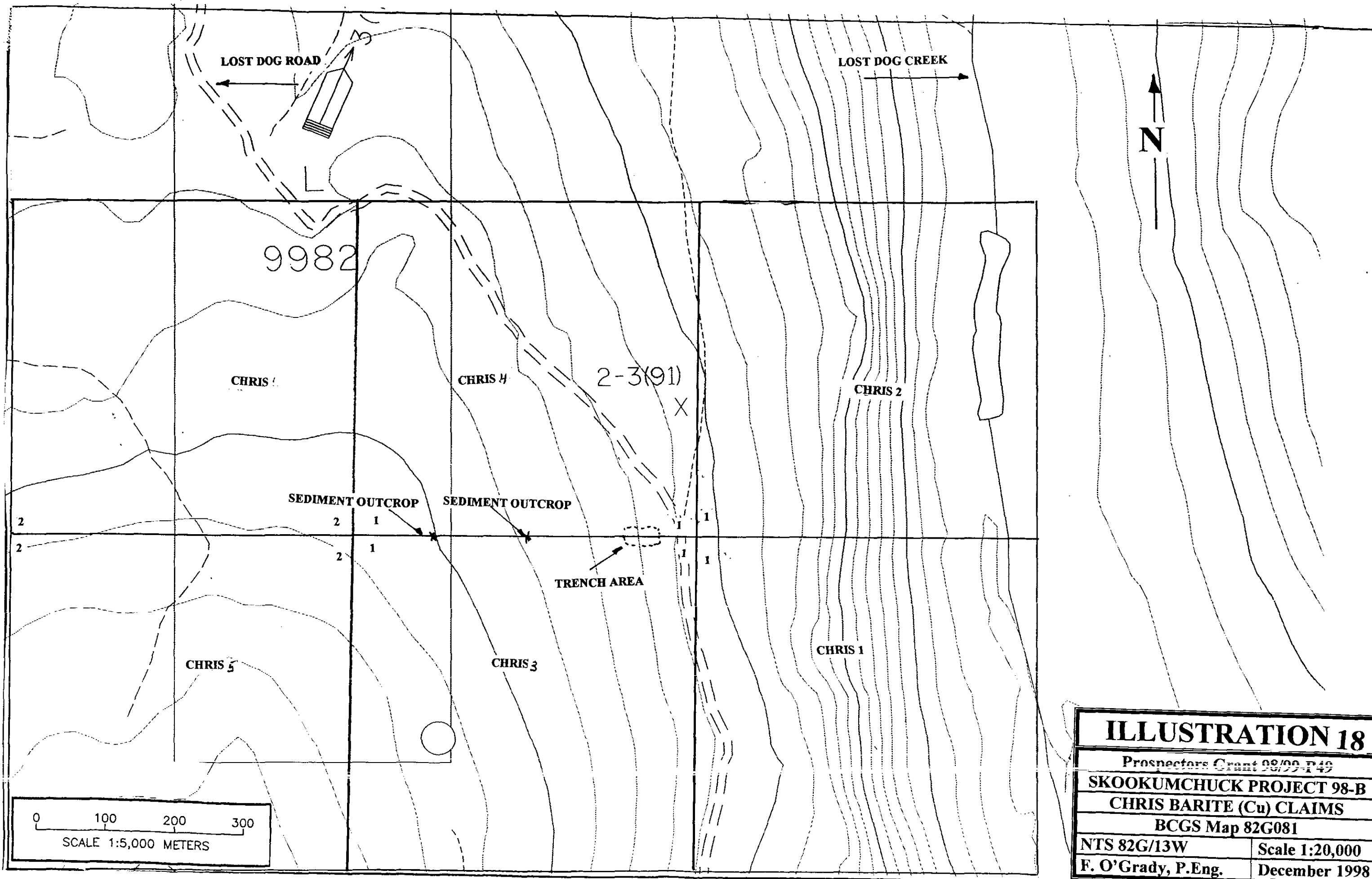


ILLUSTRATION 18	
Prospectors Grant 98/99-P49	
SKOOKUMCHUCK PROJECT 98-B	
CHRIS BARITE (Cu) CLAIMS	
BCGS Map 82G081	
NTS 82G/13W	Scale 1:20,000
F. O'Grady, P.Eng.	December 1998

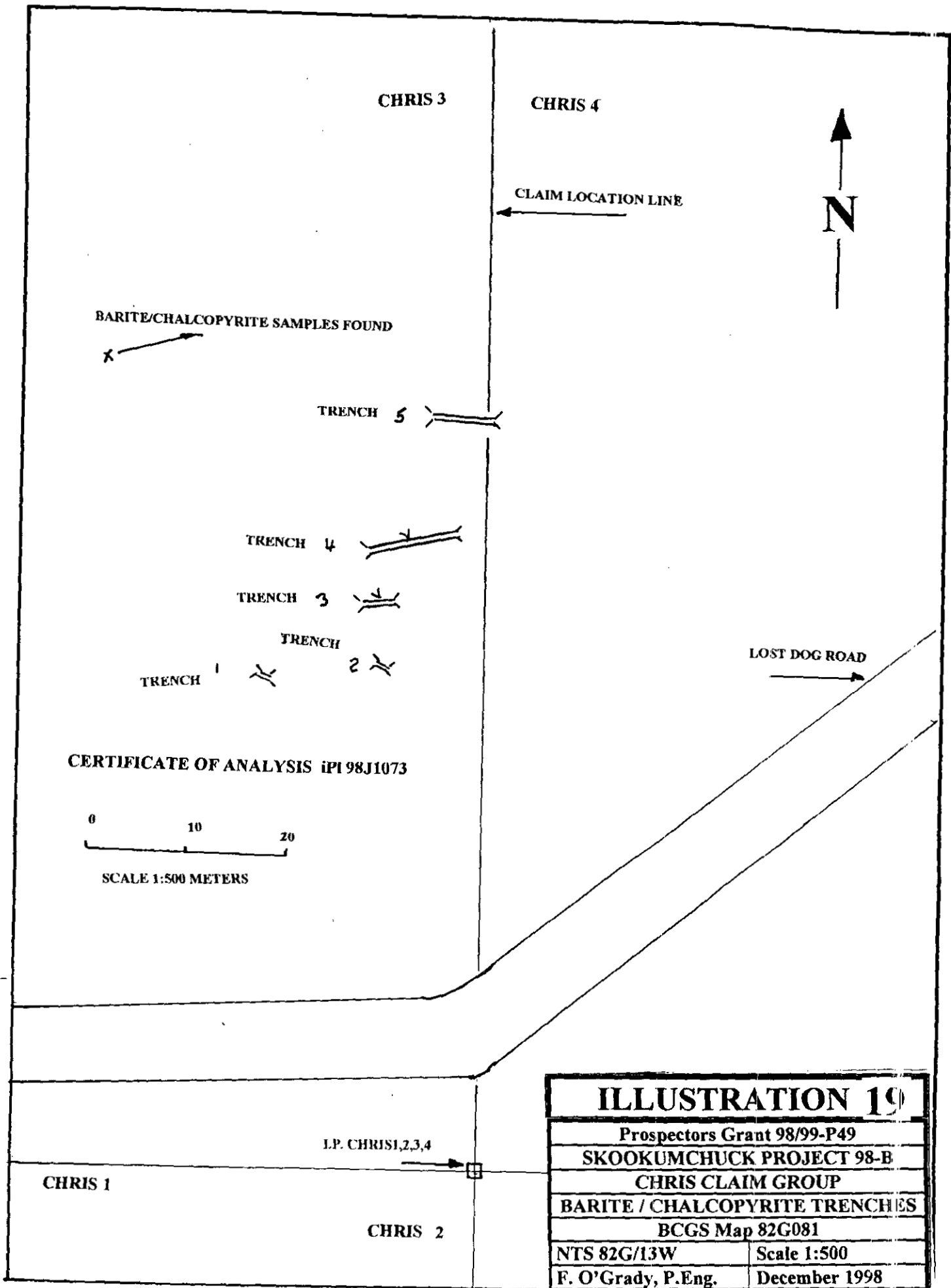
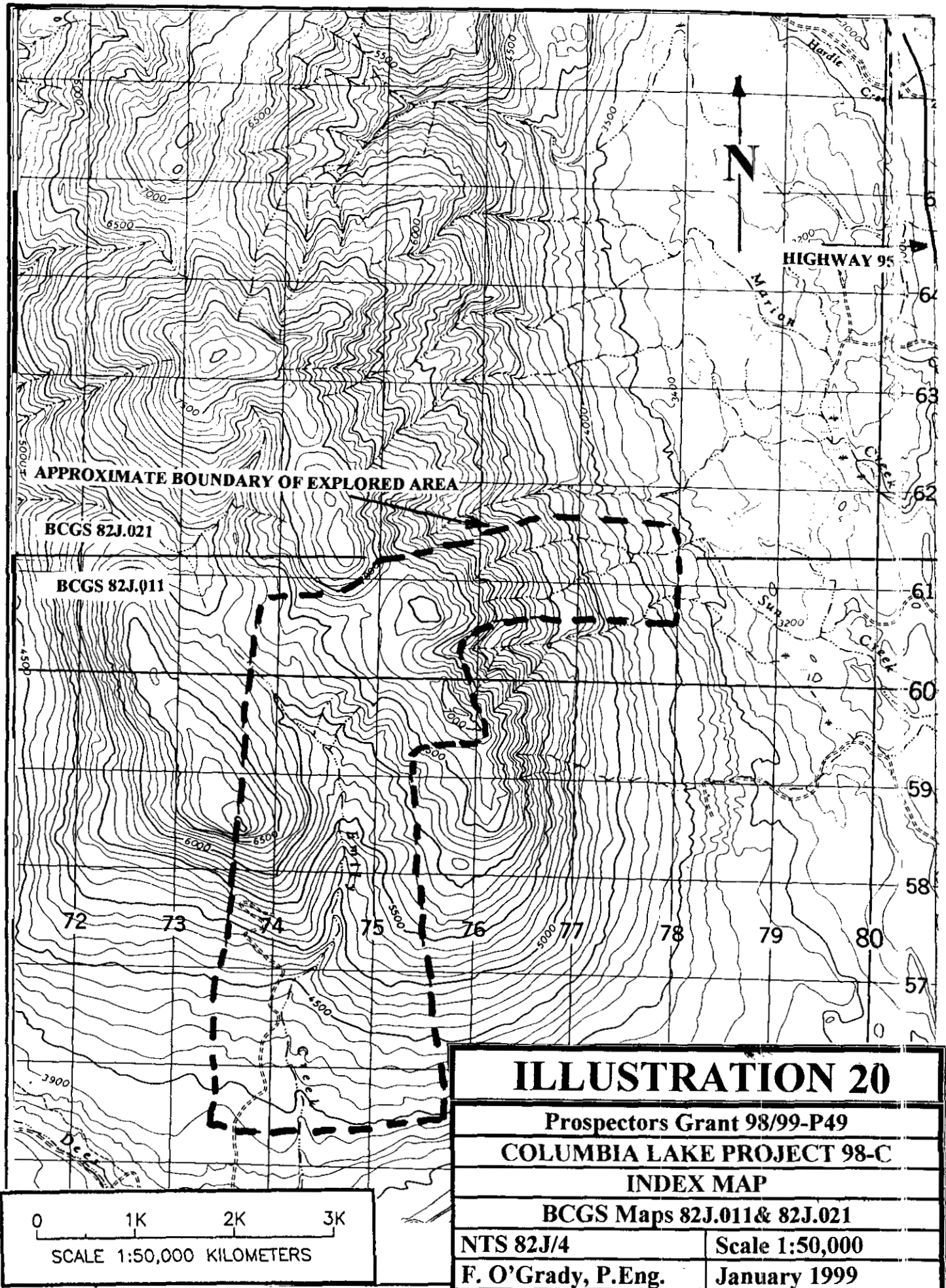


ILLUSTRATION 19

Prospectors Grant 98/99-P49	
SKOOKUMCHUCK PROJECT 98-B	
CHRIS CLAIM GROUP	
BARITE / CHALCOPYRITE TRENCHES	
BCGS Map 82G081	
NTS 82G/13W	Scale 1:500
F. O'Grady, P.Eng.	December 1998



APPROXIMATE BOUNDARY OF EXPLORED AREA

BCGS 82J.021

BCGS 82J.011

HIGHWAY 95



ILLUSTRATION 20

Prospectors Grant 98/99-P49

COLUMBIA LAKE PROJECT 98-C

INDEX MAP

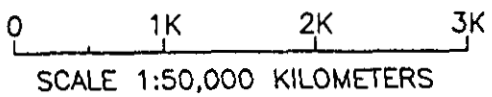
BCGS Maps 82J.011 & 82J.021

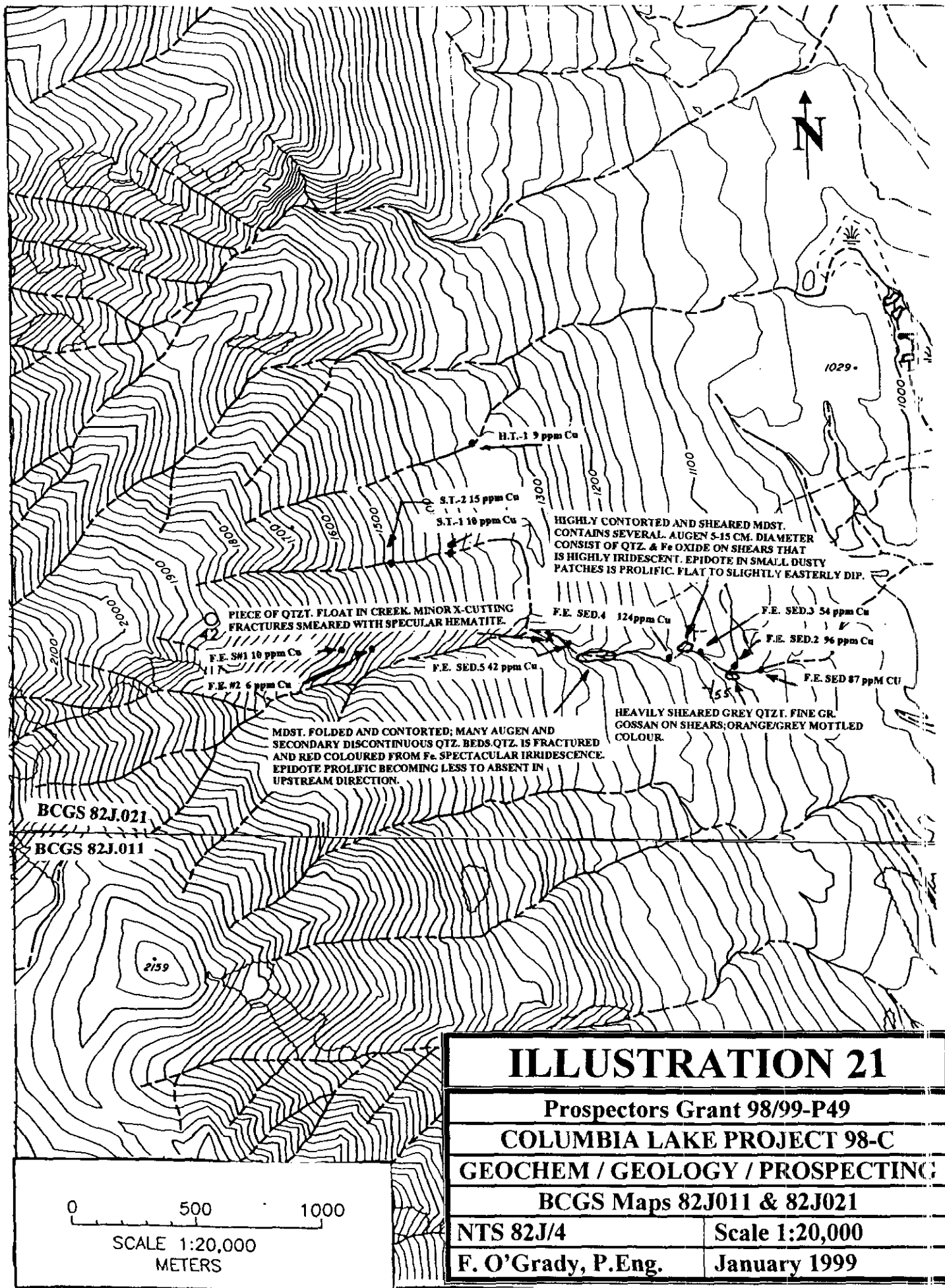
NTS 82J/4

Scale 1:50,000

F. O'Grady, P.Eng.

January 1999





BCGS 82J.021
BCGS 82J.011

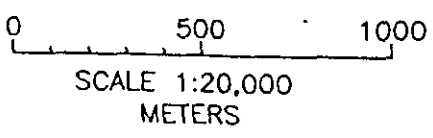


ILLUSTRATION 21

Prospectors Grant 98/99-P49

COLUMBIA LAKE PROJECT 98-C

GEOCHEM / GEOLOGY / PROSPECTING

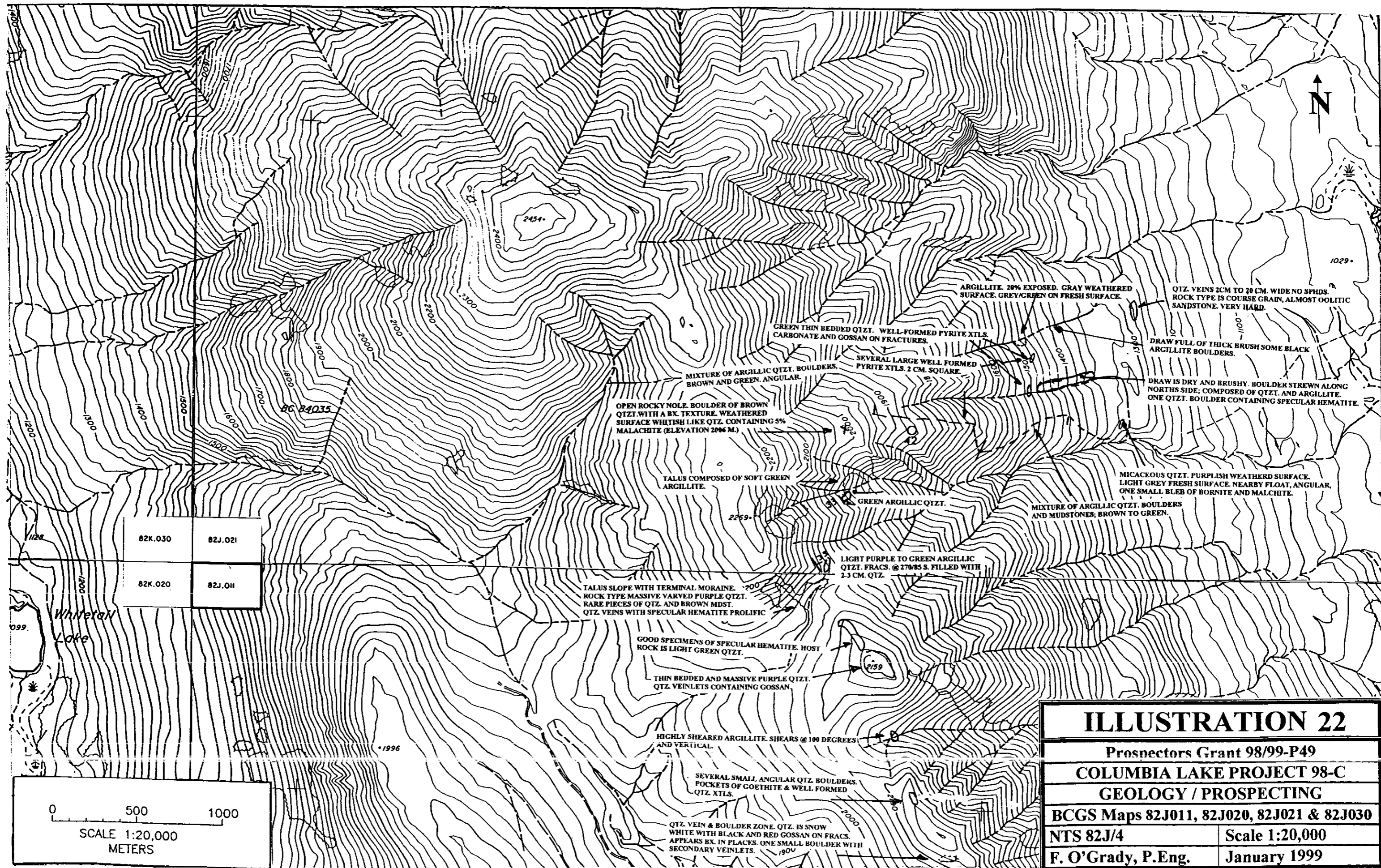
BCGS Maps 82J011 & 82J021

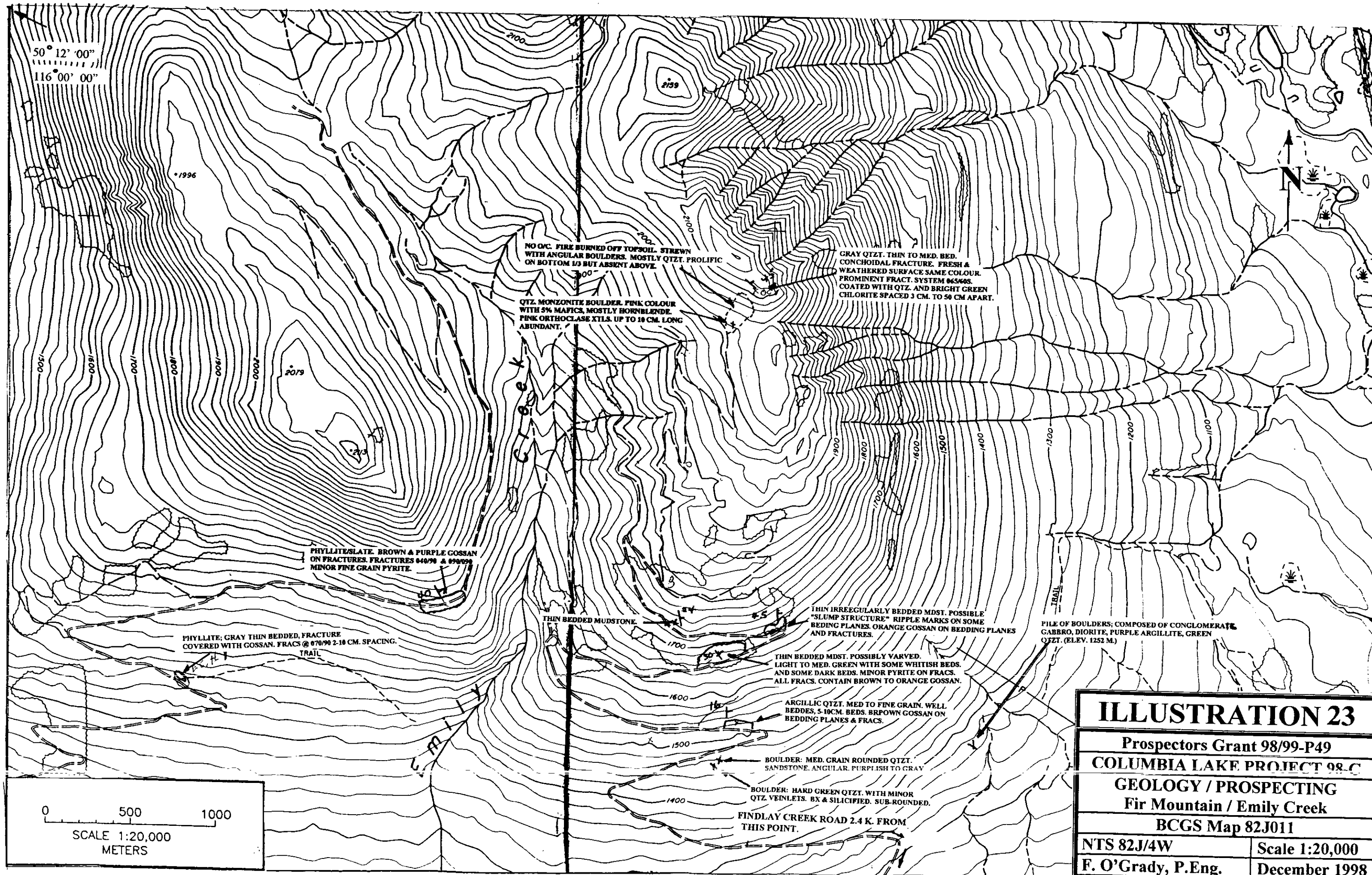
NTS 82J/4

Scale 1:20,000

F. O'Grady, P.Eng.

January 1999





CERTIFICATE OF ANALYSIS

A9822836

SAMPLE	PREP CODE	Au ppb 7A+AA	Ag ppm	Al %	As ppm	Ba ppm	Ba ppm	Bi ppm	Cu %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
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SAMPLE	PREP CODE	Mo ppm	Nb %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm					
84295	205 226	< 1	< 0.01	8	800	< 2	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	10					

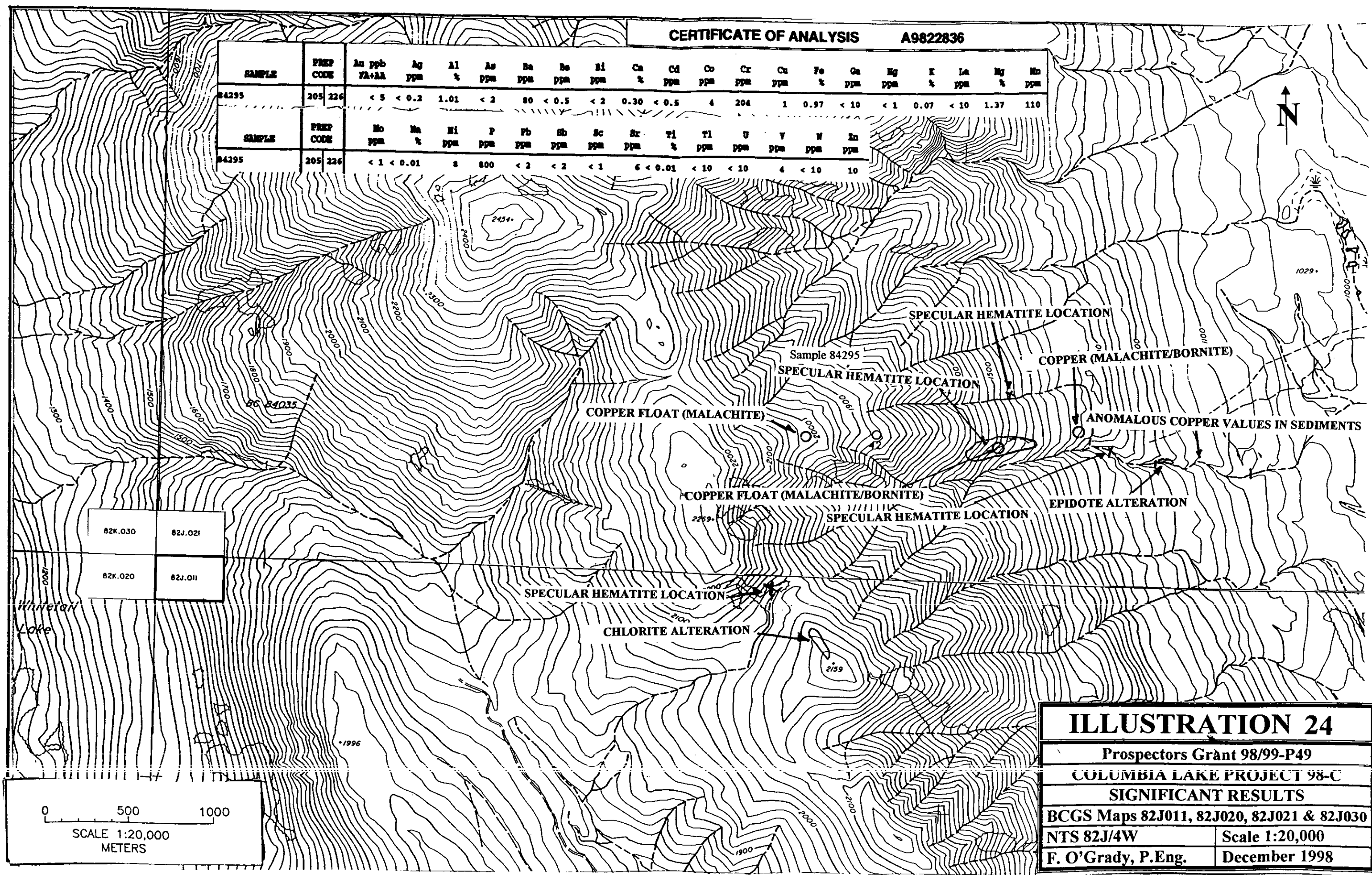
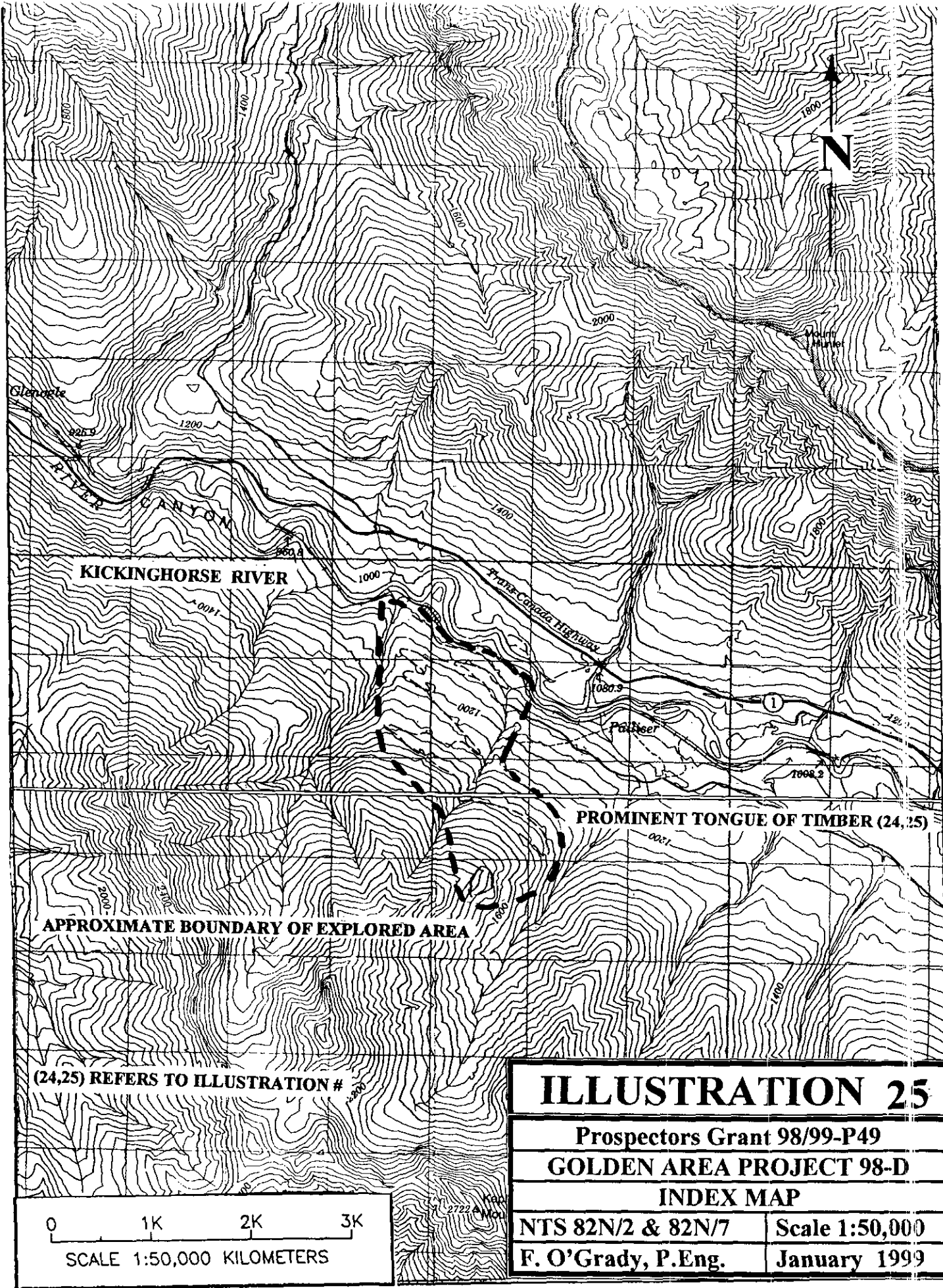


ILLUSTRATION 24	
Prospectors Grant 98/99-P49	
COLUMBIA LAKE PROJECT 98-C	
SIGNIFICANT RESULTS	
BCGS Maps 82J011, 82J020, 82J021 & 82J030	
NTS 82J/4W	Scale 1:20,000
F. O'Grady, P.Eng.	December 1998

0 500 1000
SCALE 1:20,000
METERS



(24,25) REFERS TO ILLUSTRATION #

ILLUSTRATION 25

Prospectors Grant 98/99-P49

GOLDEN AREA PROJECT 98-D

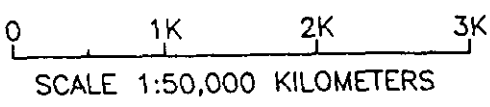
INDEX MAP

NTS 82N/2 & 82N/7

Scale 1:50,000

F. O'Grady, P.Eng.

January 1999



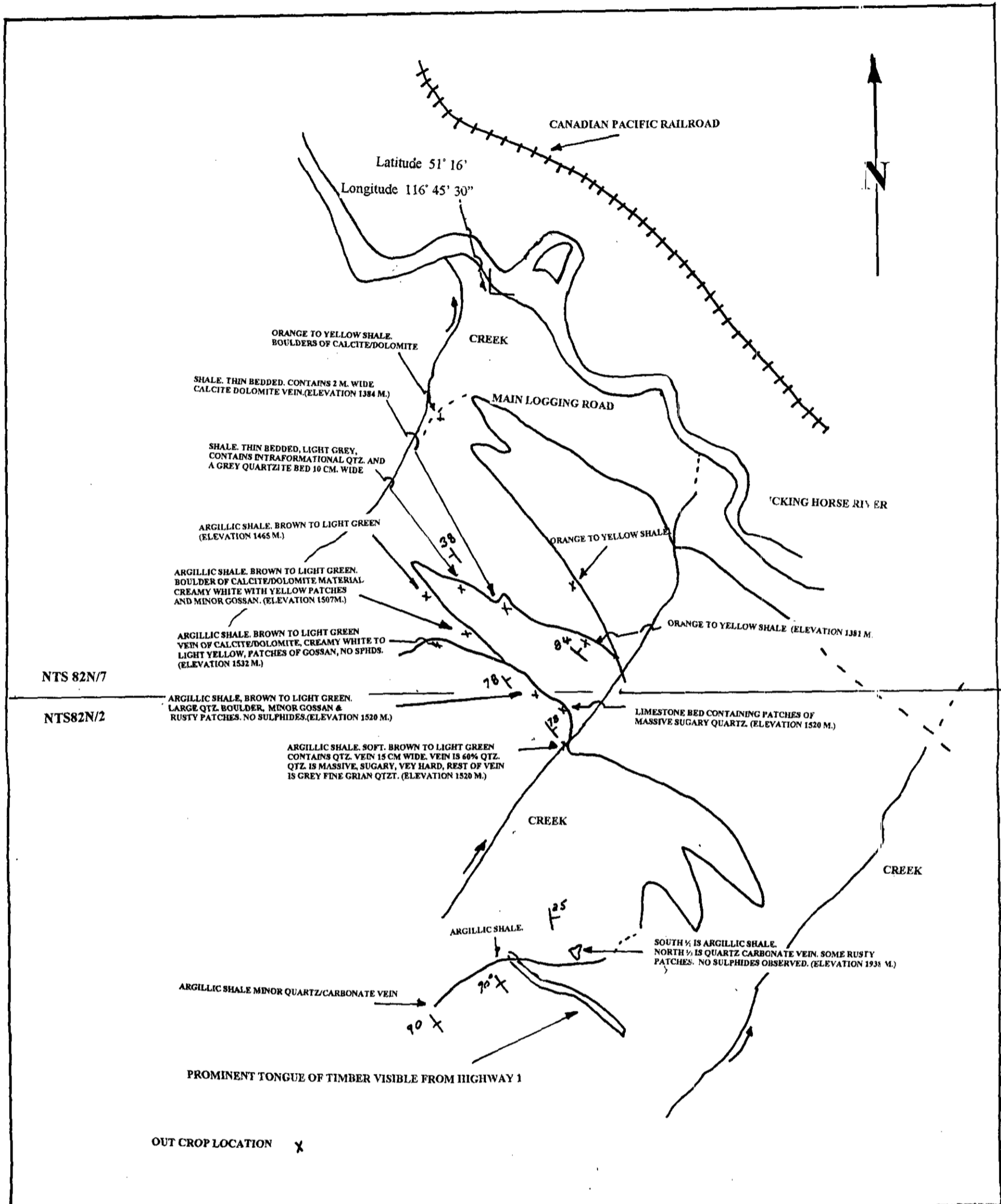


ILLUSTRATION 26

Prospectors Grant 98/99-P49

GOLDEN AREA PROJECT 98-D

GEOLOGY/PROSPECTING

Geographic Features from Air Photos

30BCB96678 No. 214 & 30BCB95079 No. 166

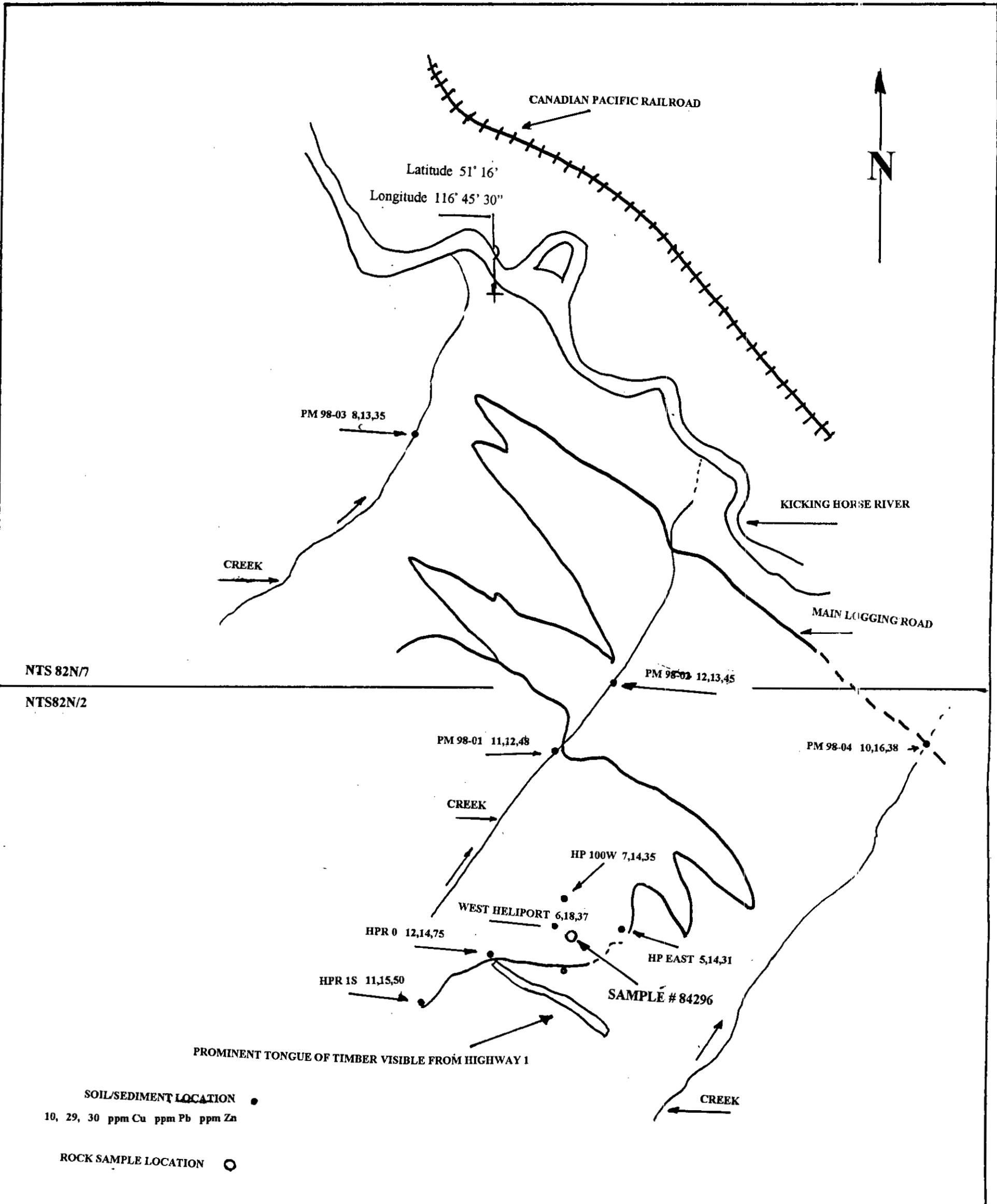
Scale 1:20,000

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January 1999

0 500 1000

SCALE 1:20,000
METERS



CERTIFICATE OF ANALYSIS A98256#3

SAMPLE	PREP CODE	As ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
84296	205 226	< 5	< 0.2	0.03	8	10	< 0.5	< 2	4.77	< 0.5	< 1	154	124	0.33	< 10	< 1	< 0.01	10	0.05	75
SAMPLE	PREP CODE	Mo ppm	Ni %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm					
84296	205 226	< 1	0.01	1	10	6	< 2	< 1	149	< 0.01	< 10	< 10	3	< 10	< 2					

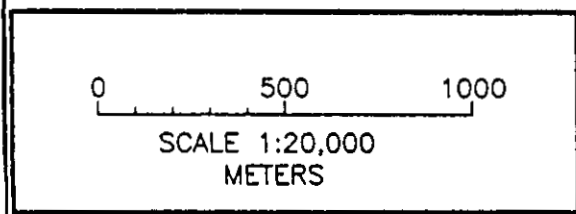


ILLUSTRATION 27

Prospectors Grant 98/99-P49

GOLDEN AREA PROJECT 98-D

GEOCHEM / ROCK SAMPLE 1:20,000

Geographic Features from Air Photos
30BCB96678 No. 214 & 30BCB96079 No. 166

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