

**GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT
ON THE AA 1-22 CLAIM GROUP**

**SKEENA MINING DIVISION
SOUTH BENTINCK ARM AREA, B.C.**

**SUB-RECORDER
RECEIVED
SEP 05 1991
M.R. #.....\$.....
VANCOUVER, B.C.**

Location:
N.T.S. 92M 15E
LATITUDE: 51° 58'N
LONGITUDE: 126° 43'W

**OWNER
Duncan C. Wing
1803 - 13350 Old Yale Road
Surrey, B.C.**

**OPERATOR
WIND RIVER RESOURCES**

by
**Les Demczuk. M.Sc., F.G.A.C.
1835E - 13th Avenue
Vancouver, B.C.**

June 25, 1991

and

**George W. Zbitnoff
4971 - 1A Avenue
Delta, B.C.
V4M 4A2**

September 3, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,649

LOG NO: SEP 27 1991 RD.

ACTION:

FILE NO:

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1.0 SUMMARY

The AA mineral claims owned by Duncan Wing and optioned by Wind River Resources Ltd., both of Vancouver, B.C., are located approximately 30 km south of Bella Coola (Skeena M.D.) and consist of 22 contiguous units.

In June 1991 Wind River Resources Ltd. conducted a short exploration program. The program was assigned to investigate spectacular graphite showings. Two trenches were blasted and 22 samples were taken of which 13 were assayed. The carbon content of these 13 samples averaged 12.26% C.

2.0 INTRODUCTION

The AA claim group consists of 22 units and are presently under option to Wind River Resources Ltd. of Vancouver, B.C.

The field work on the claims was conducted from June 4 to June 8, 1991, totalling five field days by Les Demczuk, geologist, Duncan Wing and Merl Cloutier, both prospectors. The work consisted of small grid establishment, geological mapping, trenching-blasting and rock sampling.

The field work and results described within this report are intended to fulfil the assessment requirements for the AA 1-22 claims.

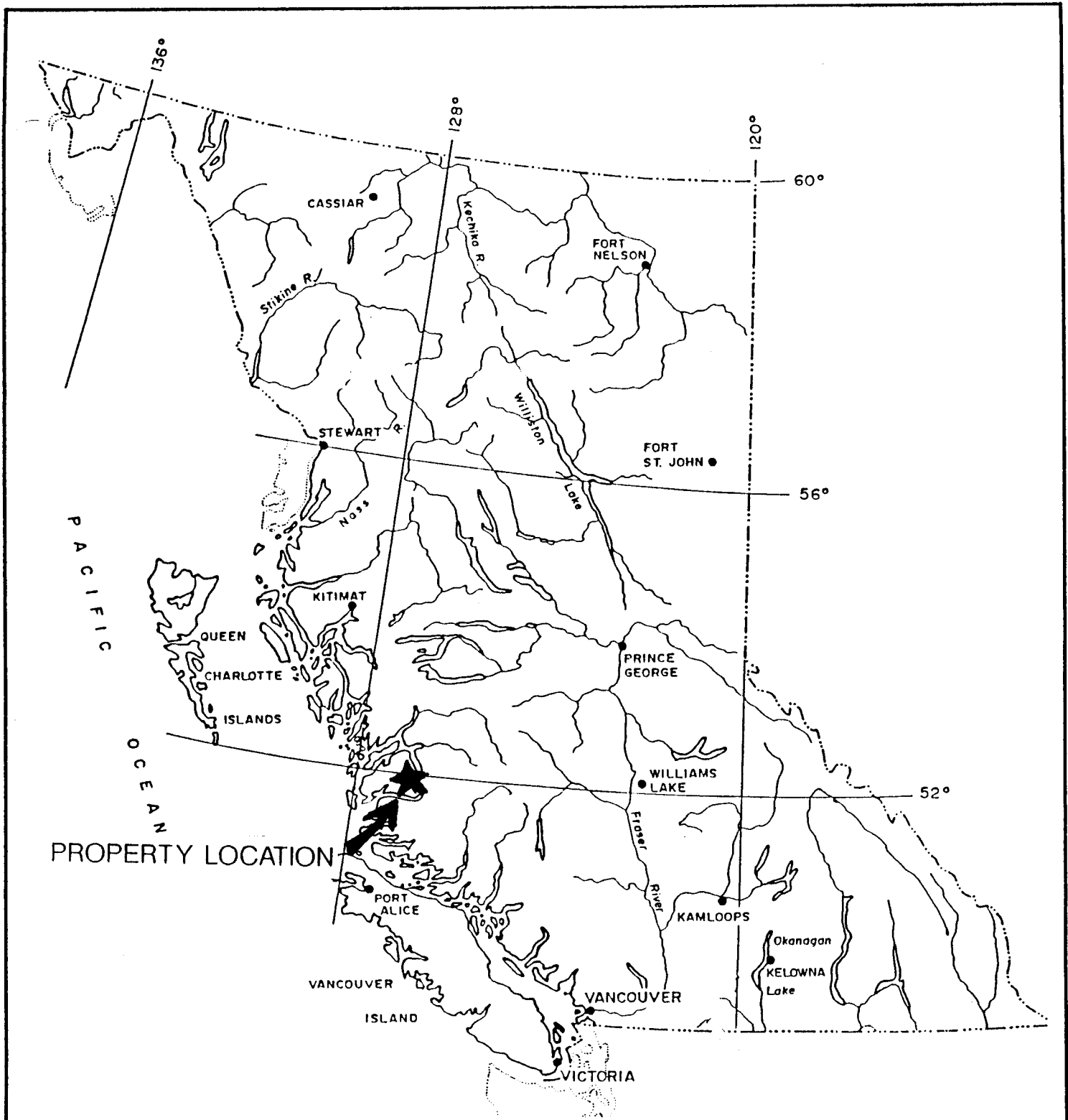
2.1 LOCATION AND ACCESS

The AA claim block is located at the southern end of the South Bentinck Arm about 30 km south of Bella Coola, B.C. The best access to the property is by float plane from Bella Coola airport following a scheduled flight from Vancouver.

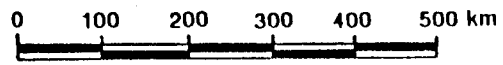
2.2 CLAIM STATUS

The AA claim group consists of 22 two post claims located in the Skeena Mining Division, British Columbia.

Claim locations shown on Figure 2 are after government claim map 92M/15E with pertinent claim data summarized below:



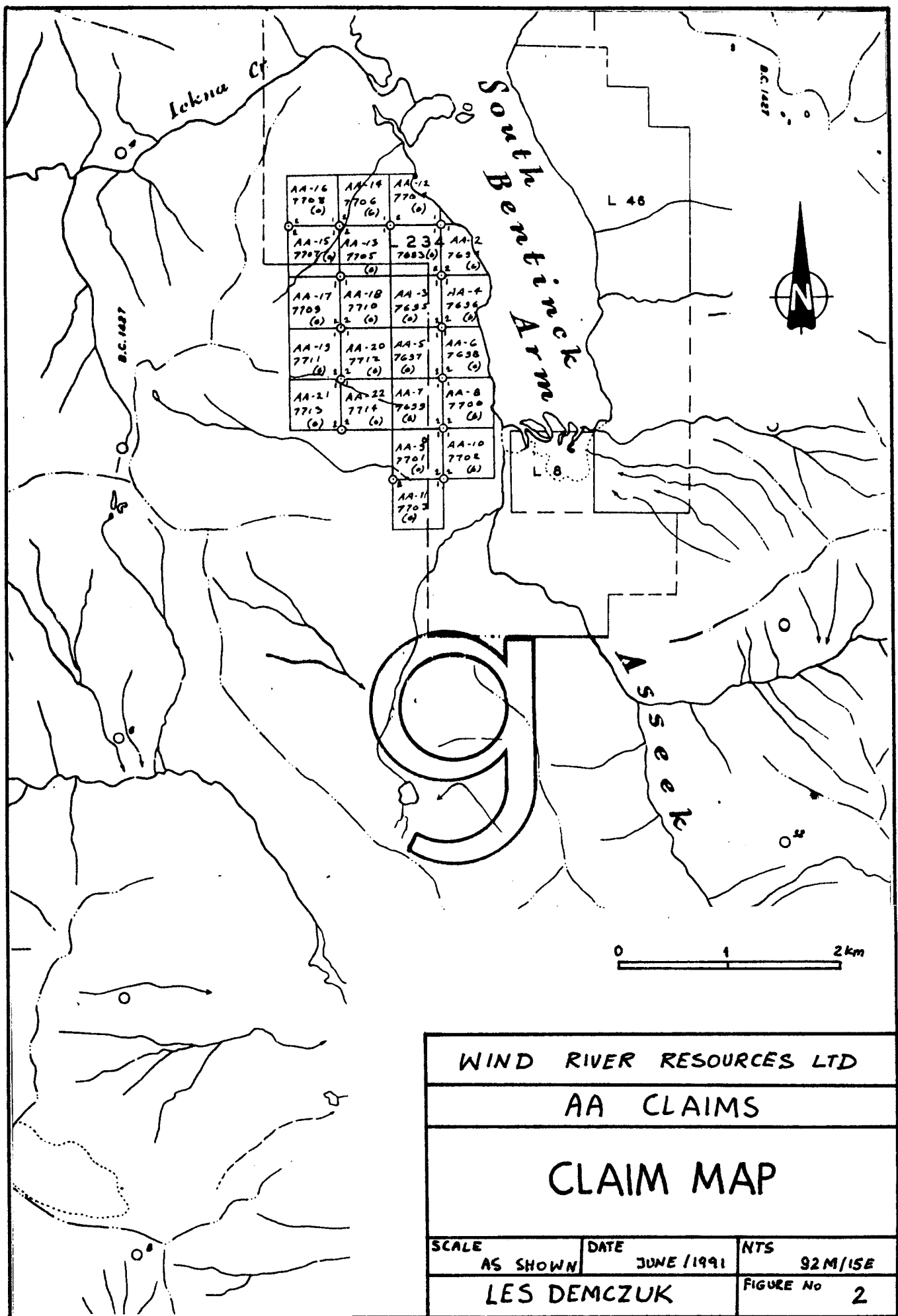
PROPERTY LOCATION



WIND RIVER RESOURCES LTD		
AA CLAIMS		
LOCATION MAP		
SCALE	DATE	NTS
AS SHOWN	JUNE 1 1991	82M/15E
LES DEMCZUK		FIGURE No 1

<u>Claim</u>	<u>Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
AA- 1	1	7693	June 22, 1991
AA- 2	1	7694	June 22, 1991
AA- 3	1	7695	June 22, 1991
AA- 4	1	7696	June 22, 1991
AA- 5	1	7697	June 22, 1991
AA- 6	1	7698	June 22, 1991
AA- 7	1	7699	June 22, 1991
AA- 8	1	7700	June 22, 1991
AA- 9	1	7701	June 22, 1991
AA-10	1	7702	June 22, 1991
AA-11	1	7703	June 22, 1991
AA-12	1	7704	June 22, 1991
AA-13	1	7705	June 23, 1991
AA-14	1	7706	June 23, 1991
AA-15	1	7707	June 23, 1991
AA-16	1	7708	June 23, 1991
AA-17	1	7709	June 25, 1991
AA-18	1	7710	June 25, 1991
AA-19	1	7711	June 25, 1991
AA-20	1	7712	June 25, 1991
AA-21	1	7713	June 25, 1991
AA-22	1	7714	June 25, 1991

All claims are registered in the name of Duncan Wing.



WIND RIVER RESOURCES LTD		
AA CLAIMS		
CLAIM MAP		
SCALE AS SHOWN	DATE JUNE /1991	NTS 92M/15E
LES DEMCZUK		FIGURE No 2

2.4 HISTORY

The claims are newly located and do not have any substantial history of previous mineral exploration. In 1990 Queenstake Resources Ltd. established two test lines of horizontal loop EM over the graphite showing. The graphite showing produced strong EM response typical of a steeply dipping near surface conductor. In March 1990 Bacon Donaldson & Associates Ltd. performed a single scoping flotation test as the preliminary step in the evaluation of the deposit. The results of this test are encouraging: the ore is relatively soft and flotation recoveries are high. The low grade of concentrate is a concern, but it is believed that with some modifications to the procedure a high grade product can be achieved.

3.0 GEOLOGY

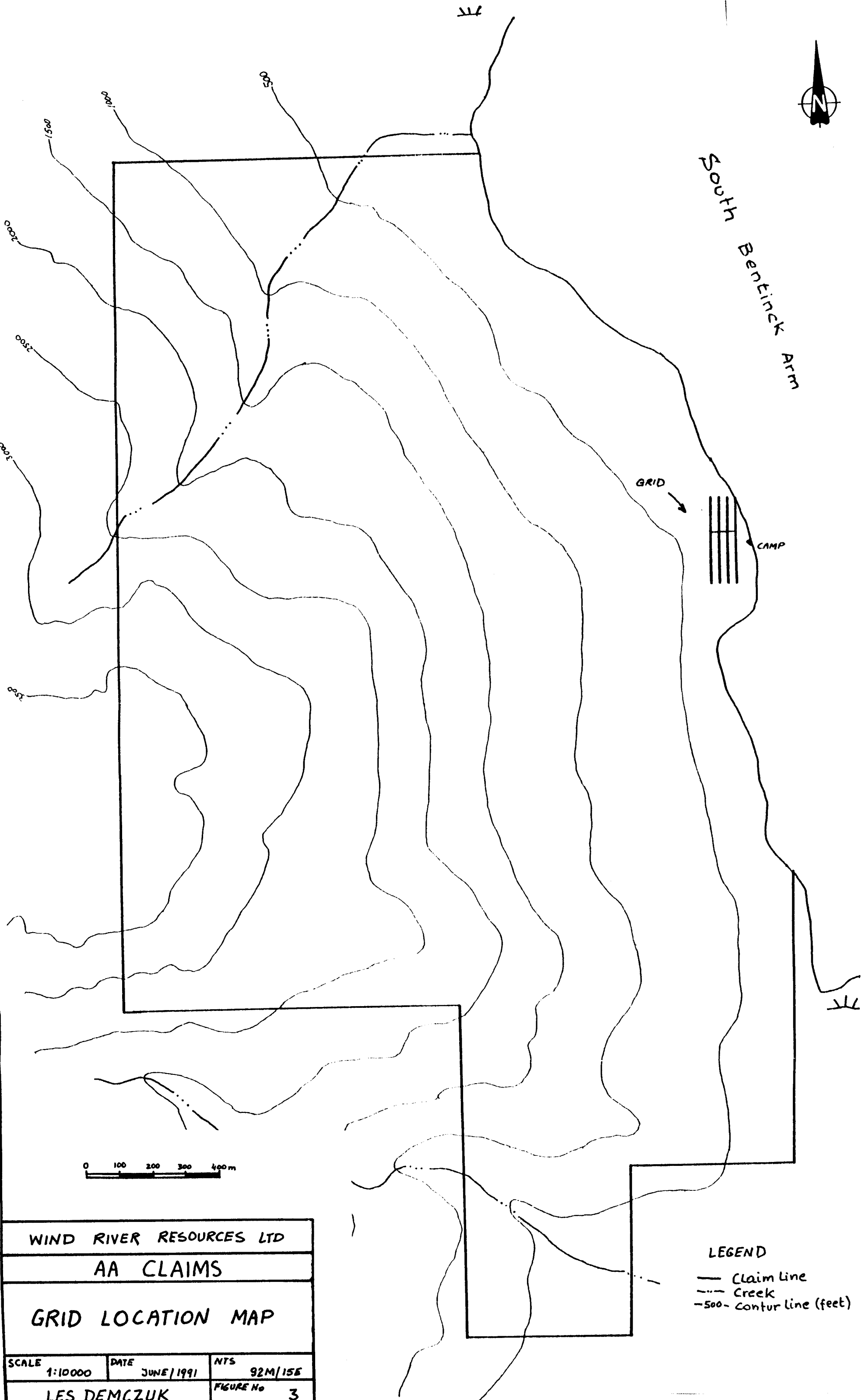
Regional geology for the Bella Coola map area is described in G.S.C. Memoir #372 by Baer, 1973 (Bella Coola - Laredo Sound Map Areas). Generally the subject property is located within the Coast Range plutonic complex. Foliated quartz diorite and granodiorite of Triassic age constitute the predominant lithologies. Rocks of Permian or older age occur as pendants within the complex and consist of gneissic diorite, gneiss and amphibolite. Younger rocks are represented by metasediments of Upper Triassic age. Prior to the 1991 program this property has never been geologically mapped.

Grid Geology

Due to the steep terrain and short time available no attempt was made to systematically map the geology of the claim group except in the immediate vicinity of the graphite showing and two 300 m long traverse lines. A grid 100 m x 250 m was established over the graphite showing. The northeast part of the grid area is mainly underlain by gneissic diorite, some of which shows signs

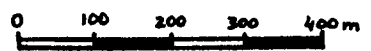


South
Bentick
Arm



GRID

CAMP



WIND RIVER RESOURCES LTD

AA CLAIMS

GRID LOCATION MAP

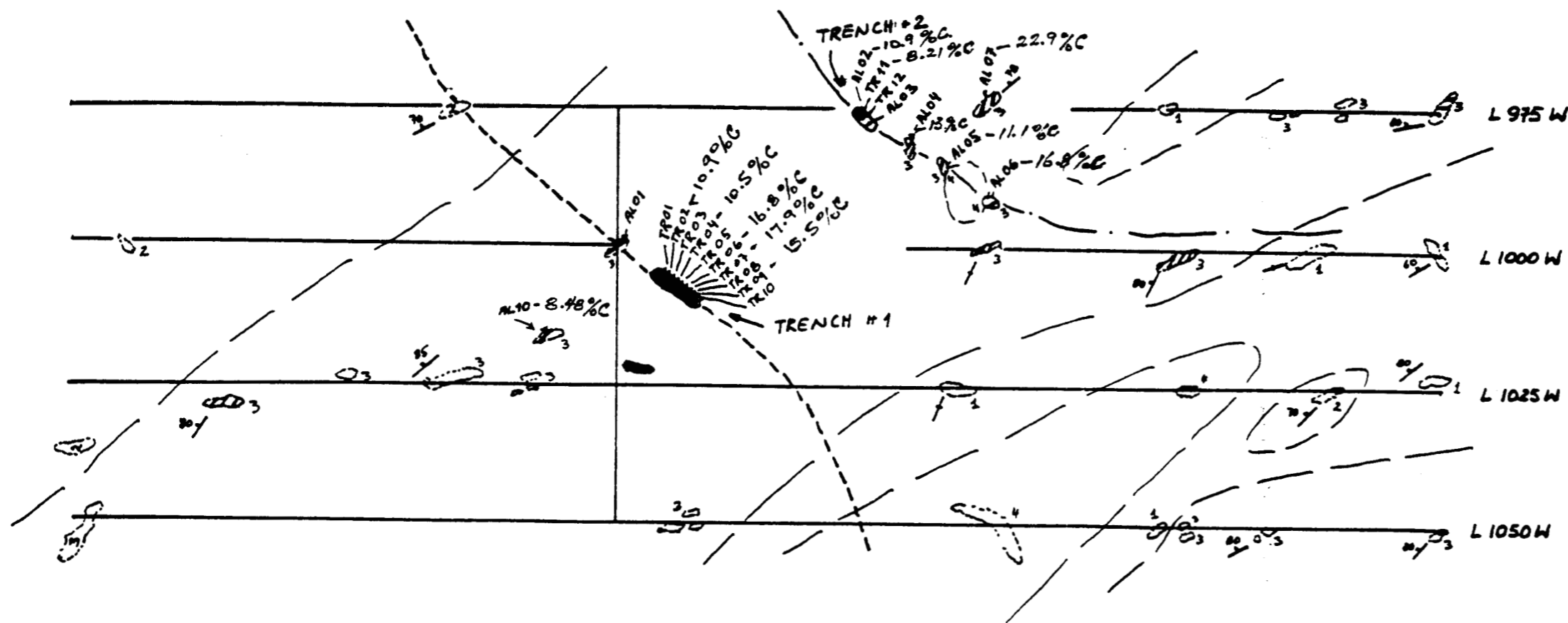
SCALE	DATE	NTS
1:10000	JUNE/1991	92M/15E
LES DEMCZUK		FIGURE No 3

LEGEND

- Claim Line
- - - Creek
- 500- Contur line (feet)

of folding, tends to be fine grained and is mostly composed of hornblende, feldspar, quartz, tourmaline, garnet and muskovite (Fig. 4). The strongly sheared metasediment unit was located in the control part of the grid area. This unit trends northwest-southeast and dips steeply to the southeast and consists mainly of metasedimentary argillite shales, greywakes and occasionally cherts. Graphite layers are associated with this unit. A strongly fractured and sheared graphite zone (trending 320° dipping 75°-80°E) is exposed for about ten m (trench #1) and is centred at L 985N/1006W. The southern part of the grid is underlain by a gneissic unit. This rock consists of fine to medium grained massive to gneissic biotite-hornblende diorite and quartz diorite. The light coloured gneisses are considered to have been derived from early Paleozoic clastic rocks, and the dioritic group to have been derived from basaltic sills and flows. A small felsic intrusive was identified within the gneissic unit in the southwestern section of the grid area.

1100N 1050N 1000N 950N 900N 850N



LEGEND

- TRACE OF GRAPHITE
- GRAPHITE ZONE
- FELSIC INTRUSIVE
- METASEDIMENTS Biotite-Hornblende-Gabbro Schist
- GNEISSIC DIORITE AND INCLUSIONS METASEDIMENTS
- FELDSPAR-QUARTZ-BIOTITE GNEISS (BANDED)
- GRID LINE
- CREEK
- TRAIL
- GEOLOGICAL CONTACT
- OUTCROP
- BEDDING
- TR01 - AL07 ROCK SAMPLE LOCATION



WIND RIVER RESOURCES LTD		
AA CLAIMS		
GEOLOGY AND GEOCHEMISTRY MAP		
SCALE 1:100	DATE JUNE / 1991	NTS 92M/156
LES DEMCZUK		FIGURE No 4

4. GEOCHEMICAL PROGRAM

The geochemical program consisted of ten one-meter chip channel samples taken across the main graphite showing (trench #1), two grab samples from trench #2 and ten grab samples from graphite mineralized schist or shear zones. Thirteen samples were analyzed as represented by Appendix II. Rock sample descriptions are presented in Appendix I. Certificates of analysis for rocks are included in Appendix II. Analytical results for carbon are plotted on Figure 4.

<u>Sample #</u>	<u>% Carbon</u>
91AL02	10.90
91AL04	13.00
91AL05	11.10
91AL06	2.98
91AL07	22.90
91AL08	10.30
91AL10	8.48
91TR02	10.90
91TR04	10.50
91TR06	16.80
91TR07	17.90
91TR09	15.50
91TR11	8.21

5.0 CONCLUSIONS AND RECOMMENDATIONS

The average of the 13 samples was 12.26% carbon which is within an acceptable range whereby additional work is required to further evaluate the potential of the property.

The following program is recommended for the property.

Phase I

1) Obtain a large bulk sample	\$10,000
2) Additional Metallurgical testing	10,000
3) Identify the marketability of the product produced from the bulk samples	<u>10,000</u>
TOTAL	<u>\$30,000</u>

Should phase I be successful, phase II should represent an expenditure to quantify the amount of carbon available for production. This would consist of grid extension, geological mapping, geophysics and diamond drilling.

6.0 REFERENCES

Baer, 1973

G.S.C. Memoir #372 (Bella Coola - Laredo Sound Map Areas)

Beattie, M.T.V.

1990 Flotation Report, Bacon Donaldson & Associates Ltd., File No. M90-118

Tipper, H.W.

1969 Mesozoic and Cenozoic geology of the North Port of Mount Waddington Map Area, CSC Paper 33-68

Woods, D.

1990 Geophysical Report on a test EM survey, South Bentinck Arm Graphite showing Bella Coola, B.C., for Queenstake Resources Ltd.

Wong, R.H.

1983 Assessment Report of the Geological and Geochemical Survey on the Isle Group A and B claims, by BP Minerals Limited.

APPENDIX I

ROCK SAMPLE DESCRIPTIONS

APPENDIX I

<u>Sample #</u>	<u>Type</u>	<u>Description</u>
91TR01	Chip channel	Silver, dark grey/blackish, strongly sheared graphitic schist 10-15% quartz veining, pots of mica up to 5% trace of chalcopyrite.
91TR02	Chip channel	Similar to above, occasionally strongly silicified and small bands of very fine garnet.
91TR03	Chip channel	Silvery black, very fine schist with graphite on fractures, small bands of quartz and fine garnet.
91TR04	Chip channel	Same unit but more graphite. Very soft.
91TR05	Chip channel	Graphitic schist occasionally layers of quartz. Very soft.
91TR06	Chip channel	Very fine silvery grey graphitic schist trace of chalcopyrite and 10-25% silica.
91TR07	Chip channel	As above.
91TR08	Chip channel	Mostly very fine schisty metasediment with graphite on fractures.
91TR09	Chip channel	Similar to above with trace of chalcopyrite.
91TR10	Chip channel	Silvery blackish fine schist trace of graphite.
91TR11	Chip over 0.5 m	Silvery schist with graphite and small bands of quartz.
91TR12	Chip over 0.5 m	Light grey very fine metasediment sharply silicified with up to 25% disseminated sulphide (mostly pyrite).

91AL01	Grab	Silvery grey graphitic schist.
91AL02	Chip over 1 m	Rusty on surface, very fine schisty metasediment with bands of graphite.
91AL03	Chip over 0.3 m	Similar to above
91AL04	Grab	Strongly silicified schisty graphitic metasediment with network of quartz veining.
91AL05	Grab	Graphite on the contact with intrusive.
91AL06	Grab	Strongly silicified contact intrusive metasediment with layer of graphite.
91AL07	Grab	Silvery black graphite layer on cliff, (coarse grains).
91AL08	Grab	Impure graphite on the contact with intrusive rock (mostly fine).
91AL09	Grab	Approximately one metre wide graphite layer with large flakes.
91AL10	Grab	Schisty metasediment with coarse grains of graphite.

APPENDIX II

GEOCHEMISTRY LABORATORY RESULTS



Chemex Labs Ltd.

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

to: WIND RIVER RESOURCES **
305 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Page Number :1
Total Pages :1
Certificate Date: 20-AUG-91
Invoice No. :I9120060
P.O. Number :031088

Project : GRAPHITE PR.
Comments: ATTN: TED YARDLEY CC: D.C. WING

CERTIFICATE OF ANALYSIS A9120060

SAMPLE DESCRIPTION	PREP CODE	C %									
91AL02	208 294	10.90									
91AL04	208 294	13.00									
91AL05	208 294	11.10									
91AL06	208 294	2.98									
91AL07	208 294	22.9									
91AL08	208 294	10.30									
91AL10	208 294	8.48									
91TR02	208 294	10.90									
91TR04	208 294	10.50									
91TR06	208 294	16.80									
91TR07	208 294	17.90									
91TR09	208 294	15.50									
91TR11	208 294	8.21									

CERTIFICATION: *D Christie*

APPENDIX III

STATEMENT OF COSTS

STATEMENT OF COSTS

AA1-22

SOUTH BENTINCK ARM AREA

June 2 - 10, 1991

Personel			
L. Demczuk, M.Sc.	Geologist	5 days @ \$200	\$1,000
D. Wing	Prospector	9 days @ \$150	\$1,350
M. Cloutier	Prospector	7 days @ \$150	\$1,050
Air fare			\$1,471
Camp & Drill Rental			\$1,000
Truck Rental, Gas			\$ 700
Groceries, supplies			\$1,500
Assays			\$ 200
Report			<u>\$1,500</u>
		TOTAL	<u>\$9,771</u>

APPENDIX IV

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Les Demczuk, of the city of Vancouver, Province of British Columbia, so hereby certify that:

1. I am a Mining Geological Engineer residing at 1835 East 13th Avenue, Vancouver, B.C.
2. I graduated from University of Mining and Metallurgy, Krakow, Poland in 1977 with M. Sc. (Honours) in Mining Geology.
3. I have worked in mineral and coal exploration since 1977 and have practised my profession since 1977.
4. I am a registered Fellow of the Geological Association of Canada.
5. This report is based upon field work carried out by myself (June 4-8, 1991) and a review of published and privately held literature pertaining to the claim area.

SIGNED:



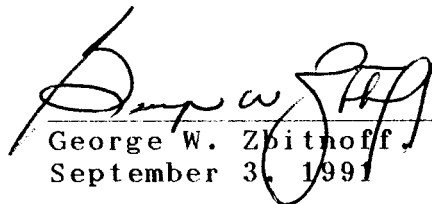
Les Demczuk, M.Sc., F.G.A.C.
June 25, 1991

STATEMENT OF QUALIFICATIONS

I, George W. Zbitnoff, of the municipality of Delta, province of British Columbia, hereby certify that:

- 1) I am a geologist, residing at 4971 - 1A Avenue, Delta, B.C.
- 2) I graduated from the University of Saskatchewan with a B.A., (majors in geology and chemistry).
- 3) I have worked in the mineral exploration industry since 1962.
- 4) I am a registered professional engineer in the province of British Columbia and Manitoba.
- 5) The recommendations and conclusions are based upon the work and information supplied by Les Demczuk.

SIGNED:



George W. Zbitnoff, P.Eng.
September 3, 1991