

INTERNATIONAL ARIMEX RESOURCES INC.

**2002 EXPLORATION OF THE
GUM CREEK PROPERTY**

NORTH OF BLUE RIVER, BRITISH COLUMBIA
(KAMLOOPS MINING DIVISION)

CLAIMS: GUM 1 to 6

Geographic Coordinates

52° 18' N
119° 07' W

NTS Sheet 83 D/6

Owner/Operator: International Arimex Resources Inc.
300 - 750 West Pender Street Inc.
Vancouver, B.C. V6C 2T7

Consultant: Dahrouge Geological Consulting Ltd.
18, 10509 - 81 Avenue
Edmonton, Alberta T6E 1X7

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Date Submitted: 2002 11 25

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

26,990

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1.

INTRODUCTION

The term Gum Creek Property refers to mineral claims Gum 1 to 6, which cover the Gum Creek carbonatite; located approximately 25 km north of Blue River, British Columbia. Claims Gum 1 to 6 were acquired during January 2001 by Commerce Resources Corp. and were subsequently optioned to International Arimex Resources Inc. during July, 2001.

Work was conducted during July 2002 by Dahrouge Geological Consulting Ltd. on behalf of International Arimex Resources Inc. The work included the collection of rock and stream sediment samples to identify the potential for carbonatite-hosted tantalum-niobium-phosphate mineralization.

Throughout this report, attitudes of bedding and other planar features are given as A°/B° SW, where A° is the azimuth of the strike and B° is the amount of dip in the direction indicated. A magnetic declination of 20.5° was used.

1.1 GEOGRAPHIC SETTING

1.1.1 Location and Access

The Gum Creek Property is in the North Thompson River valley of east-central British Columbia within NTS map area 83 D/6 (Fig 1.1). It is approximately 60 km south of Valemount and about 25 km north of Blue River. The Gum Creek carbonatite is centred at approximately $52^\circ 18' N$ latitude and $119^\circ 08' W$ longitude, within claim Gum 3.

The property is accessible from either Gum Creek forestry service road or Bone Creek forestry service road, both branch from Highway 5 about 23 km north of Blue River. The carbonatite is located near the crest of a north trending ridge (Kenny Ridge) just south of Gum Creek (Gal, pers. comm., 2002). Access to the carbonatite is either by hiking up from the lower logging roads or by helicopter. The southern end of the claim group is criss-crossed by active logging roads, which are well-maintained during summer months. The main line of the Canadian National Railway is about $2\frac{1}{2}$ km west of the property. In addition, a British Columbia hydro line is less than 2 km to the west.

1.1.2 Topography, Vegetation, Climate and Geographic Names

The Gum Creek carbonatite is at about 2020 m above sea level. It is located along the steep, west-facing slope of the Monashee Mountains. At the Gum Creek Property elevations range from about 875 m to over 2150 m. Mount Cheadle, to the northeast of the Gum Creek carbonatite, reaches a maximum elevation of about 2445 m.

The steep slopes at the Gum Creek Property are typically covered by thick undergrowth. Forest cover includes Western Red Cedar, Balsam, Douglas Fir, Spruce, Lodgepole Pine and Western White Pine in the lower reaches, with variable inclusions of "non-productive brush" including Alder,

Birch, Devils Club, Huckleberry and Willow. Tree-line is at approximately 1800 m and portions of the property have been clear-cut logged.

Within the region, annual temperatures range from greater than 30°C to less than -30°C, with periods of extreme precipitation. This produces average annual precipitation of greater than 50 inches (127 cm), with significant snowfall during winter months.

1.2 PROPERTY

The Gum Creek Property is held under six contiguous 4-post mineral claims (Gum 1 to 6). The combined area, which encompasses about 24 km² is within the Kamloops Mining Division (Fig. 1.2; Table 1.1). The claims are held 100% by International Arimex Resources.

TABLE 1.1: LIST OF MINERAL CLAIMS

Claim Name	Tenure Number	Units/Claim	Record Date	Actual or Expected Expiry Date
GUM 1	383846	16	2002/12/23	2003/12/23
GUM 2	383847	16	2002/12/23	2003/12/23
GUM 3	383848	16	2002/12/23	2003/12/23
GUM 4	383849	16	2002/12/23	2003/12/23
GUM 5	383850	16	2002/12/23	2003/12/23
GUM 6	383851	16	2002/12/23	2003/12/23
Total:		96		

1.3 HISTORY AND PREVIOUS INVESTIGATIONS

Although the Gum Creek Property has had minimal recorded mineral exploration, the Blue River area carbonatites have been explored intermittently since the 1950's. In the 1980's Anschutz (Canada) Mining Ltd. conducted an extensive drill program on the Verity, Mill, Fir and Bone Creek carbonatites (Aquist, 1982a; 1982b). Most recently, Commerce Resources Corp. has been exploring the Blue River area carbonatites for their tantalum potential (Commerce Resources Corp., 2002).

The Gum Creek carbonatite was discovered during a detailed mapping program, conducted in 1987 and 1988 (Digel et. al., 1989). The intrusive occurs as a layer about 10 m thick at about 2040 m elevation, just northeast of the crest of a small ridge (Kenny Ridge) immediately south of Gum Creek. There has been minimal exploration on the Gum Creek claims, with only one known grab sample collected (Gal pers. comm., 2002). With the growing level of interest and exploration

in the Blue River area, the sample was recently examined for its potential to host Ta-Nb-P-REE mineralization.

1.4 PURPOSE OF SURVEY

Carbonatites tend to be associated with alkaline magmatic systems and provide an exceptional exploration target because of their incredibly high occurrence to deposit ratio and the variety of mineralization types. From the approximately 350 carbonatite systems currently known in the world, over 20 have been mined for rare earth elements (REE), niobium, vermiculite, fluorite, copper, and phosphate; with other products including nickel, uranium, gold, silver, platinum group elements, baddeleyite, zircon and magnetite.

The Blue River area is host to several known carbonatites, each with highly anomalous concentrations of tantalum (Ta), niobium (Nb), phosphate (P), and rare-earth-elements (REE). These include the Bone Creek, Howard Creek, Mill, Fir, Upper-Fir, Mud Lake-AEG, Verity-Paradise, Roadside, Serpentine Creek, and Gum Creek carbonatites. The Gum claims were acquired to cover the Gum Creek carbonatite which was discovered by Digel et. al. (1989) while conducting a detailed mapping program. The carbonatites in the region tend to be very recessive making their surface discoveries rare and fortuitous.

The purpose of the 2002 reconnaissance exploration program was to re-locate the Gum Creek carbonatite, confirm its potential for Ta-Nb-P-REE mineralization, and to identify other prospective areas of the property.

1.5 SUMMARY OF WORK

During July 2002, a four-person crew conducted reconnaissance exploration of the Gum Creek Property. Work included the attempted re-location of the Gum Creek Carbonatite and the collection of 6 rock and 8 stream sediment samples for chemical analysis.

1.6 FIELD OPERATIONS

Fieldwork was conducted by a four-person crew during July, 2002. Personnel were based at the Sandman Motel in Blue River, British Columbia. Four-wheel-drive vehicles were used for transportation to logging roads on the property. A helicopter, based in Blue River, was employed in an attempt to locate and sample the Gum Creek carbonatite. Garmin "GPS" instrument provided detailed survey information for the sample locations with accuracy less than a few tens of metres.

2. REGIONAL GEOLOGY

The Gum Creek Property is within the Omineca Crystalline Belt of the Canadian Cordillera. The eastern flank of the Cordillera has previously been recognized as a locus of alkaline igneous activity (Currie, 1976). Pell (1987) has subdivided the Omineca Alkaline Province, within British Columbia, into three northwest trending belts:

- a) an eastern belt, east of the Rocky Mountain Trench and encompassing most of the Main and Western Ranges of the Rocky Mountains;
- b) a central belt, which predominantly encompasses the Rocky Mountain Trench and eastern part of the Omineca; and
- c) a western belt.

The central carbonatite belt generally hosts multiple deformed and metamorphosed, sill-like bodies hosted by Late Precambrian to Early Cambrian metasedimentary rocks (Pell, 1987). This belt includes the Blue River area carbonatites: Bone Creek, Fir, Mill, Verity and Paradise Lake, Serpentine Creek, Howard Creek, Gum Creek and Mud Lake-AEG.

The Gum Property encompasses upper amphibolite facies (kyanite to sillimanite) metasedimentary rocks of the Proterozoic Horsethief Creek Group of the Shuswap Metamorphic Complex within the Omineca Crystalline belt (Fig. 2.1). These rocks were described by Campbell (1968) as: gritty feldspathic quartzite, phyllite, quartz-mica schist, garnet-staurolite and kyanite-mica schist, biotitic and/or hornblending quartz-feldspathic gneiss, minor marble and amphibolite and minor pegmatite with staurolite-kyanite schist.

Complex regional scale structures within the area include the mylonitic fault contact between the Horsethief Creek Group rocks and Malton Gneiss and a north-trending regional scale normal fault along the North Thompson River Valley between the Cariboo Mountains and Monashee Mountains to the east (Pell and Simony, 1981).

3. PROPERTY GEOLOGY

3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY

The Gum Creek Property is underlain by interlayered metasediments and metabasites of the Proterozoic Horsethief Creek Group. (Fig. 2.1). Near the Gum Creek carbonatite, the gneisses were observed to generally strike 040° with dips of between 15° to 20° southeast. They are locally folded

and offset by later faults. The Horsethief Creek rocks are intruded by sills of carbonatite and later pegmatitic sills and dikes. The carbonatites are either sovite (calcite-dominated) or beforsite (dolomite-dominated). Prior exploration (Aquist, 1982a; Commerce Resources Corp., 2002) indicates that the most significant tantalum-niobium mineralization is confined to the beforsites. Based on the chemistry and observations by Digel et al. (1989), the Gum Creek carbonatite is sovite in composition (Appendices 2 and 3).

3.2 MINERALIZATION

The host rock to the mineral occurrence on the Gum Creek Property is carbonatite, which is an igneous rock composed of more than 50% carbonate minerals. Typically, they are relatively enriched in alkali elements and occur with other under-saturated alkaline rocks (feldspathoidal syenites and rocks of the ijolite suite).

There has been minimal exploration on the Gum Creek claims, with only one known grab sample taken during a field mapping program by Digel, et. al. (1989). The sample was from a carbonatite sill located near 2040 m elevation, just northeast of the crest of a northerly trending ridge (Kenny Ridge) immediately south of Gum Creek (Gal, pers. comm., 2002; Fig. 4.1). The intrusive occurs as a layer that is a few meters thick that can be traced along strike for several meters. Recent analysis of the sample confirmed enrichment in Ta-Nb-P-REE mineralization that is similar to other carbonatites in the region (Appendices 2 and 3). Concentrations of 3,211 g/t Nb₂O₅, 75 g/t Ta₂O₅ and 1.82% P₂O₅ were reported, with highly enriched light rare-earth elements (La = 1905 ppm; Ce = 2666 ppm). Concentrations of Th and U were generally low at 12.1 ppm and 3.9 ppm, respectively. Although the style of mineralization is similar to other carbonatites in the area, the Gum Creek carbonatite is different in a key characteristic. Most of the mineralized carbonatites in the area are composed of beforsite (dolomite-dominated) with the sovite (calcite-dominated) variety being barren. The Gum Creek carbonatite is an exception, being composed of sovite with significant Ta-Nb-P-REE mineralization. Mineralogical studies have not been conducted on the sample to identify the host minerals.

4. 2002 SAMPLING AND ANALYTICAL PROCEDURES

During 2002, a near flat-lying carbonate layer 1 to 2 m thick was traced for about 100 m along strike, on the west side of Kenny Ridge just south of Gum Creek (Fig. 4.1). As information pertaining to the exact location of the Gum Creek carbonatite was not available at the time of the

field work, this unit was presumed to represent an exposure of carbonatite.

The six rock samples and eight stream sediment samples collected during July 2002 were sent to Acme Analytical Laboratories Ltd. In Vancouver, B.C. for preparation and chemical analyses by ICP-MS techniques. Rock were chip or grab samples of carbonate or alteration. Also, samples were collected from four locations along creeks draining the northern part of the property. At each sample location one silt sample and one pan concentrate were collected. Pan concentrates consisted of approximately 5 gallons of material seized and panned to produce 2 kg of concentrate.

Complete analytical reports are in Appendix 2 with sample descriptions and locations in Appendix 3 (Fig. 4.1).

TABLE 5.1: COMPARISON OF SAMPLE GEOCHEMISTRY

Element	Gum Creek Carbonatite*	2002 Carbonate Horizon	2002 Adjacent Alteration °
(Wt. %)			
CaO	45.22	23.98	15.33
MgO	3.67	17.57	9.00
SiO ₂	2.41	31.97	49.39
P ₂ O ₅	1.82	0.14	0.17
(ppm)			
Ba	6678	206	778
Sr	13077	84	249
Ta	61.3	0.4	1.6
Nb	2245	7	19
Ce	2666	31	101

* Digel et al., (1989)

° Fenite (?)

5. DISCUSSION AND CONCLUSIONS

Although the 2002 reconnaissance exploration failed to re-locate the Gum Creek carbonatite, recent information indicates that it is at 2040 m elevation, just northeast of the crest of a northerly trending Kenny Ridge immediately south of Gum Creek. This location is within a few hundred meters to the northeast of a carbonate occurrence mapped and sampled in 2002.

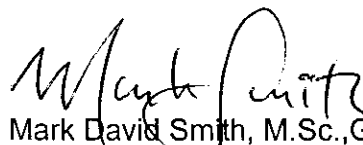
A grab sample from the Gum Creek Carbonatite (Gal, pers. comm., 2002), contained exceptionally high concentrations of Ta, Nb, and REE's, and relatively low concentrations of U and Th. The grab sampled contained 3,211 g/t Nb₂O₅, 75 g/t Ta₂O₅ and 1.82% P₂O₅, with enrichment

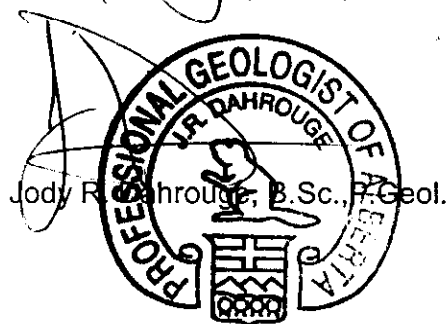
in light rare-earth elements (La =1905 ppm; Ce = 2666 ppm). The samples show the carbonatite to be sovite and are enriched in Ba, Sr, and MnO (Table 5.1).

Samples collected in 2002 from a carbonate layer on the west side of Kenny Ridge are characterized by low values of Ba, Sr, MnO and have a chemical composition more indicative of a calc-silicate. Hence, the carbonate layer may be either sedimentary in origin or be from a fenitized calc-silicate layer altered by the nearby Gum Creek intrusion. Similar occurrences of preferential fenitization of calc-silicate layers have been documented in the host stratigraphy of the Mount Grace and Ren carbonatites (Hoy, 1987). Although the layer has no significant Ta-Nb-P-REE mineralization, it may be useful as a marker horizon for stratigraphic correlations.

Two of the pan concentrate samples (12453H, 12471H) returned highly anomalous concentrations of Niobium (ie. > 300 ppm Nb) and elevated light rare-earths (La, Ce) values. Both were collected from drainages near the north end of Kenny Ridge. Pan concentrates previously collected by Commerce Resources Corp. (Commerce Resources, 2002 unpublished data) from the west side of Kenny Ridge, includes sample 18428 (Fig. 4.1). Located near the south end of the Gum claims it is enriched in tantalum (22 ppm) and niobium (510 ppm). These concentrations may indicate an undiscovered carbonatite may exist within the western part of the Gum Claims. In addition, sample 12361 from within the south-central part of the Gum claims, contained anomalous concentrations of gold (249 ppb) but low tantalum and niobium.

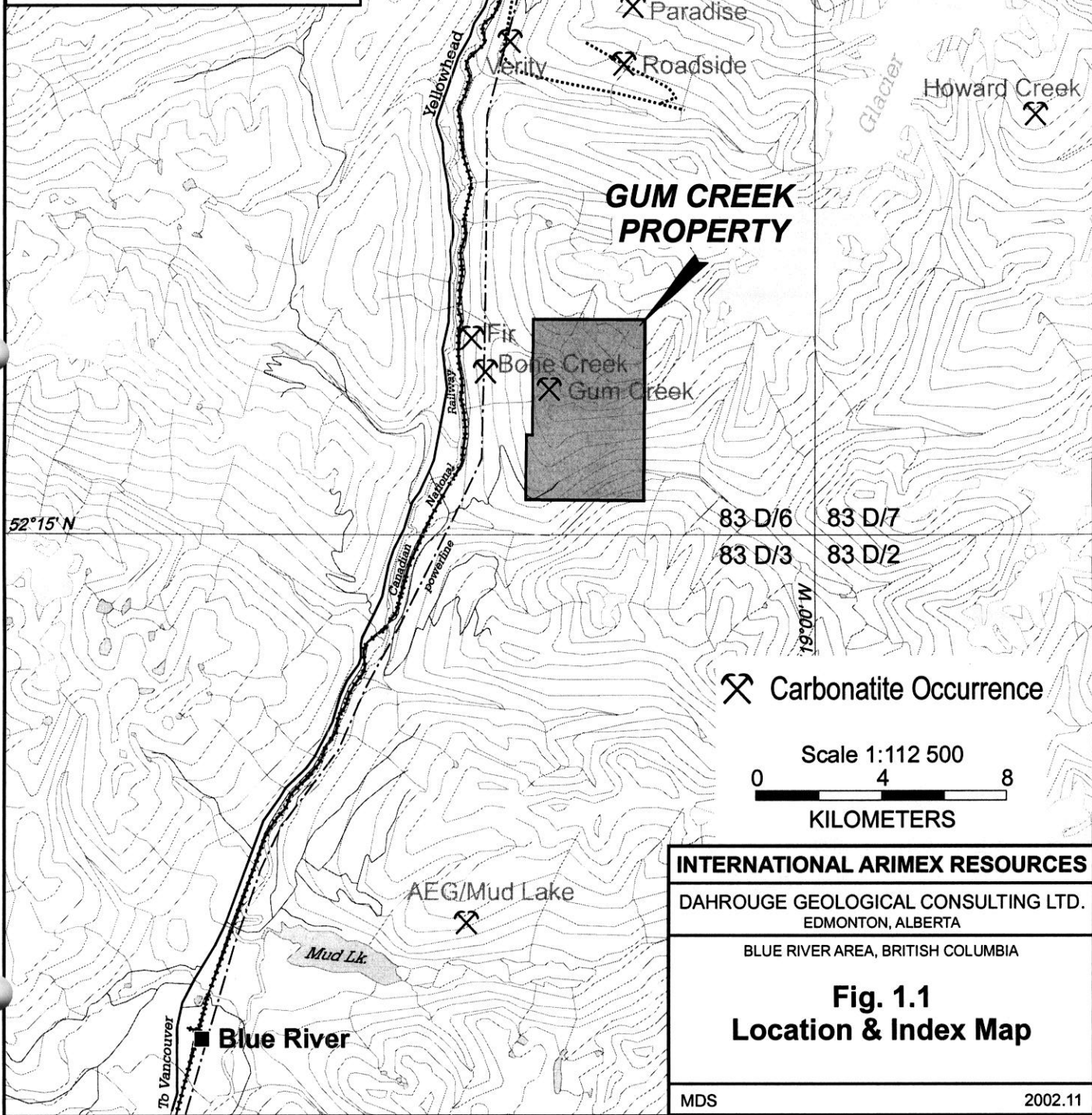
Future exploration should include detailed geological mapping and prospecting of the north end of Kenny Ridge to accurately locate the Gum Creek Carbonatite of Digel et. al. (1989) and to confirm the Ta-Nb-P-REE mineralization. Additional stream sediment samples should be collected, especially in the anomalous areas outlined by the 2002 reconnaissance exploration program.


Mark David Smith, M.Sc., Geol.I.T.



6. REFERENCES

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- Pell, J. and Simony, P. (1981). Stratigraphy, structure and metamorphism in the southern Cariboo Mountains, British Columbia; in Current Research, Part A, Geol. Surv. Can., Paper 81-1A, p. 227-230.

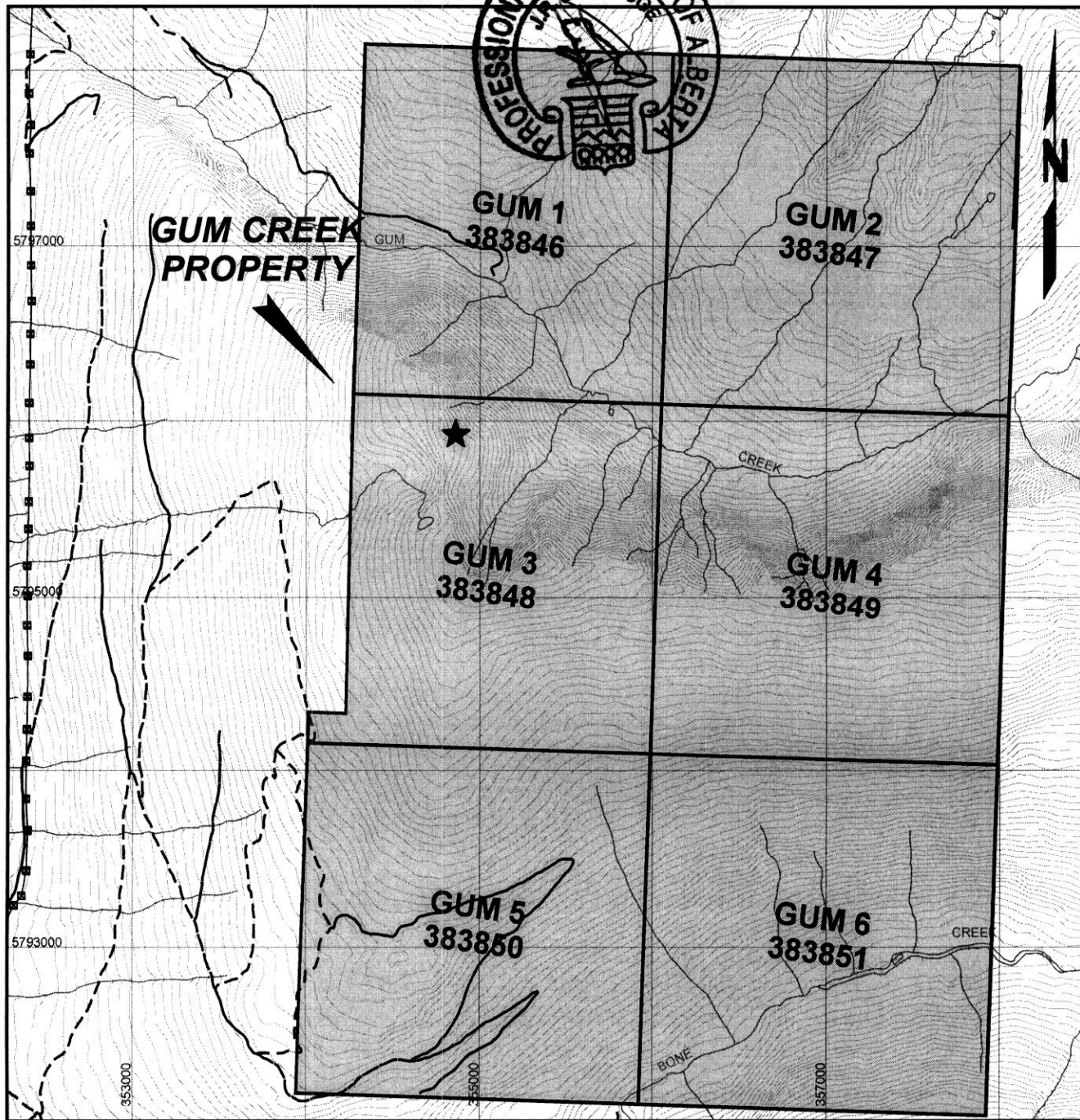
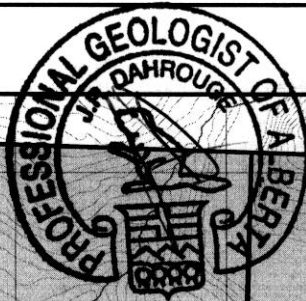


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DAHROUGE GEOLOGICAL CONSULTING LTD.
EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

Fig. 1.1
Location & Index Map



SYMBOLS



Claim, tenure number



Gum Creek carbonatite



Logging Roads



Powerline

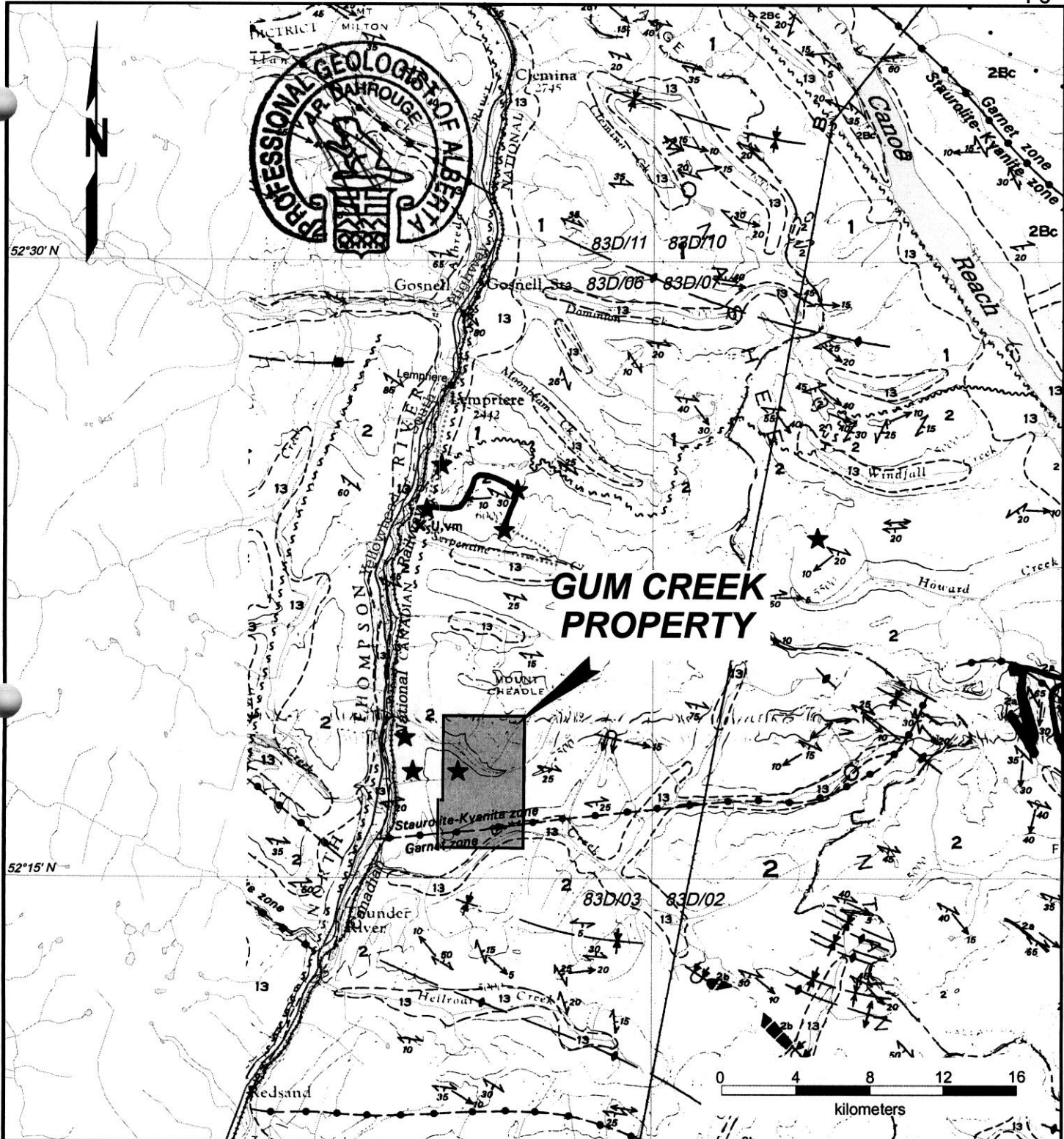


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PART OF MINERAL TITLES REFERENCE MAP 083D/06E

**Fig. 1.2
Claim Map**



GUM CREEK PROPERTY

LEGEND AND SYMBOLS

PLEISTOCENE AND RECENT

13 Alluvium and glacial deposits

WINDERMERE

2 Horsethief Creek Group: quartzite, phyllite, schist, garnet, gneiss, 2a - marble, 2b - amphibolite

AGE UNKNOWN

1 Gneiss, amphibolite, schist, minor quartz

★ Carbonatite (location approx.)

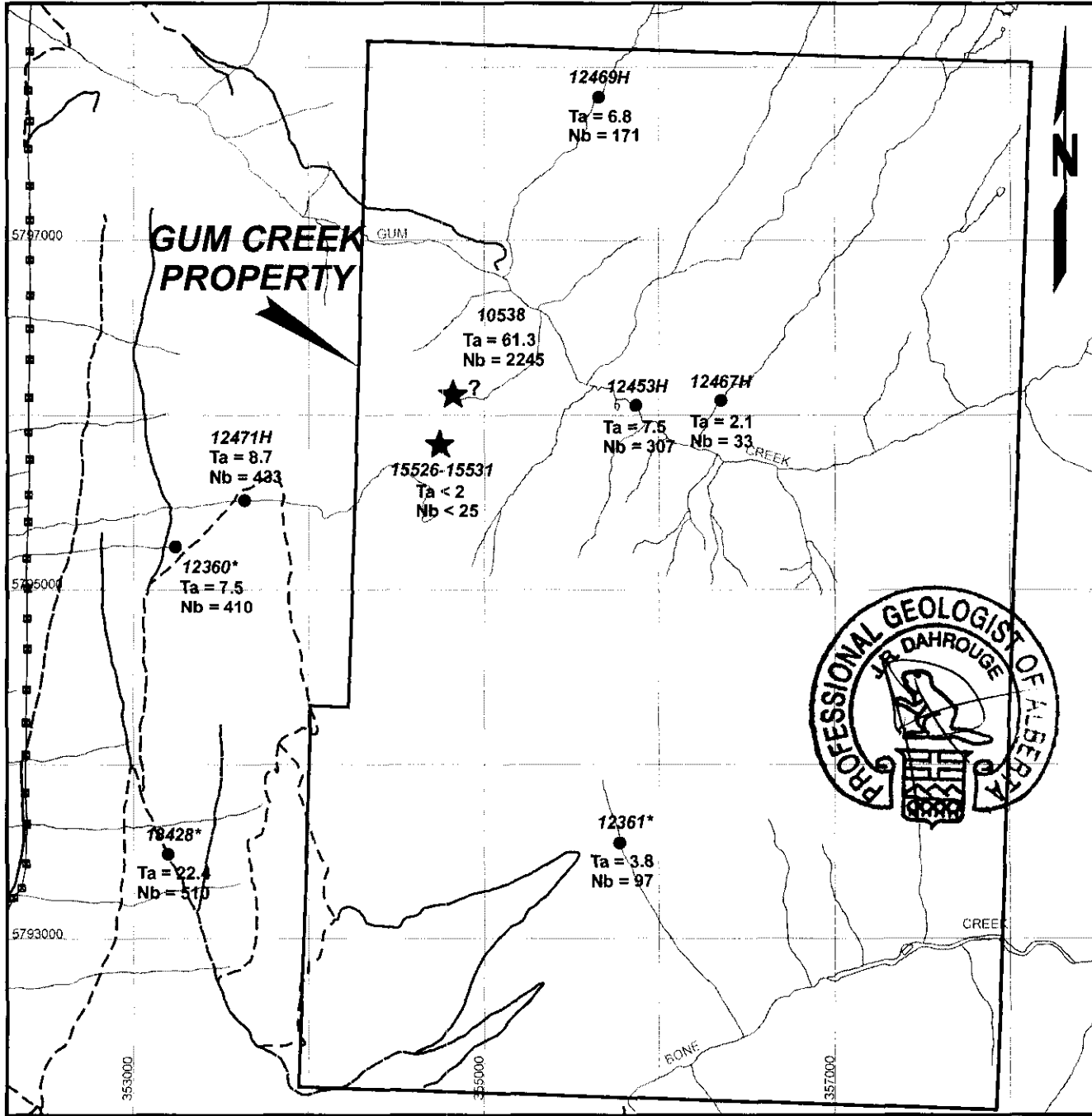
Geology after R.B.Campbell (1963-65).

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EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

**Fig. 2.1
Regional Geology**



SYMBOLS

- ★ Carbonatite (?)
Sample #, Analyses (ppm)
- Pan Concentrate Locations
Sample #, Analyses (ppm)
- Logging Roads
- Powerline

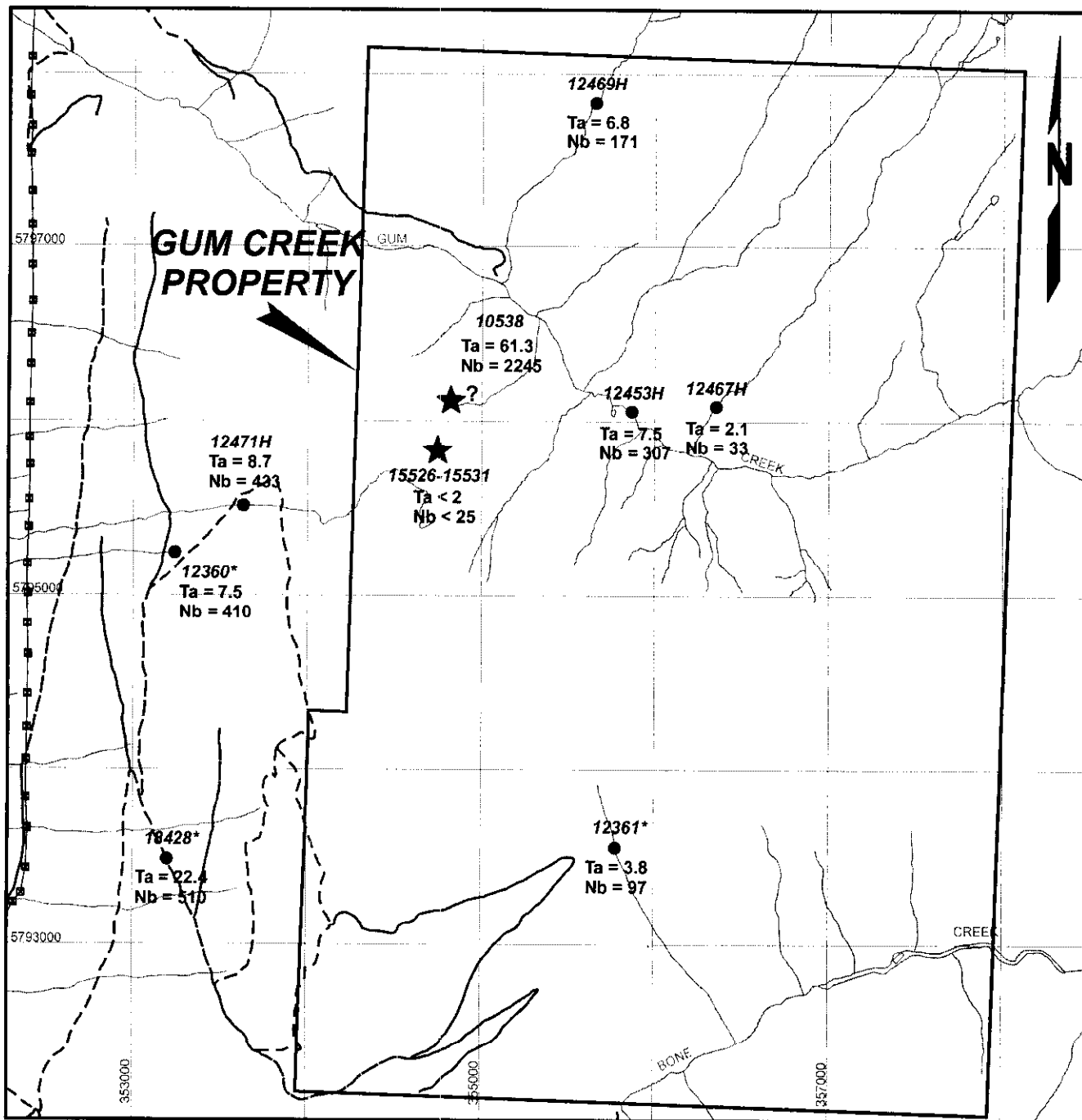
INTERNATIONAL ARIMEX RESOURCES

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EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

Fig. 4.1
Sample Locations

*Commerce Resources Corp., 2002: unpublished data



SYMBOLS

- ★ Carbonatite (?)
Sample #, Analyses (ppm)
- Pan Concentrate Locations
Sample #, Analyses (ppm)
- - - Logging Roads
- ⊠ - Powerline

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EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

**Fig. 4.1
Sample Locations**

*Commerce Resources Corp., 2002: unpublished data

APPENDIX 1: ITEMIZED COST STATEMENT

a) **Personnel**

J. Dahrouge, geologist					
3.00	days	field work and travel July 18 - 20			
3.00	days	prepare for field work, project supervision, report preparation			
<u>6.00</u>	days	@ \$ 481.50		\$	2,889.00
M. Smith, geologist					
3.00	days	field work and travel July 18 - 20			
4.00	days	compile geologic data, prepare and ship samples, prepare for field work, report preparation			
<u>7.00</u>	days	@ \$ 390.55		\$	2,733.85
R. Gwyul, geologist					
3.00	days	field work and travel July 18 - 20			
<u>3.00</u>	days	@ \$ 337.05		\$	1,011.15
B. Gonek, assistant					
3.00	days	field work and travel July 18 - 20			
<u>3.00</u>	days	@ \$ 294.25		\$	882.75
W. McGuire, draftsman					
1.10	days	compiling field data, drafting, preparing and plotting figures and maps			
<u>1.10</u>	days	@ \$ 406.60		\$	447.26
				\$	7,964.01

b) **Food and Accommodation**

12 man-days	@ \$ 51.30	accommodations and meals	\$	615.65	
12 man-days	@ \$ 16.41	groceries and other	\$	196.92	
			\$		812.57

c) **Transportation**

ATV:	2 ATV's - 2 days	\$	423.72	
Helicopter:	Vancouver Island Helicopters (July 19, 2002)	\$	1,423.33	
Vehicles:	July, 18 to 20; SUV(s) 1,586 km @ 0.41 (BC Portion Only)	\$	650.26	
		\$		2,497.31

d) **Instrument Rental - Subcontractors**e) **Drilling** n/af) **Analyses**

6 samples	@ \$ 35.90	Rock: ICP analyses (Acme)	\$	215.39	
6 samples	@ \$ 5.59	Rock: Sample Preparation	\$	33.54	
8 samples	@ \$ 23.54	Silt: ICP whole rock and trace analyses (Acme)	\$	188.32	
8 samples	@ \$ 2.94	Silt: Sample Preparation	\$	23.54	
			\$		460.80

g) **Report**

Report reproduction and assembly	\$	205.98	\$	205.98
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h) **Other**

Courier and Shipping	\$	31.89	
Field Equipment and Supplies	\$	16.42	
Long distance telephone	\$	13.62	
Reports and Maps	\$	117.70	
Reproductions and photocopying	\$	27.72	
	\$		207.35

Total

\$	12,148.01
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APPENDIX 2A:

**ANALYTICAL REPORTS FOR ICP ANALYSIS OF ROCK SAMPLES
BY ACME ANALYTICAL LABORATORIES LTD.**

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A102052 Received: JUL 9 2001 * 2 samples in this disk file.

ELEMENT	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
SAMPLES	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
10538	2.41	0.1	4.1	3.67	45.22	0.42	0.03	0.08	1.82	0.74	0.006	6678	31	6	37.7	10.55	0.41	97.05
RE 10538	2.32	0.11	4.12	3.72	45.54	0.4	0.03	0.08	1.8	0.74	0.005	6708	35	7	37.8	10.64	0.46	97.42
STD SO-15/C!	49.35	12.69	7.4	7.34	5.92	2.42	1.85	1.7	2.7	1.39	1.054	2019	86	11	5.9	2.43	5.5	99.95

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A203285 Received: AUG 26 2002 * 7 samples in this disk file.

Analysis: GROUP 4A - 0.200 GM

ELEMENT	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
SAMPLES	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
15526	29.9	2.14	1.62	17.6	25.33	0.28	0.59	0.11	0.1	0.11	0.005	267	< 20	2	22.2	5.93	< .01	100.01
15527	33.92	2.42	2.01	17.27	24.46	0.3	0.59	0.19	0.13	0.1	0.008	238	31	3	18.6	4.76	0.07	100.02
15528	27.55	2.14	2.25	17.41	25.86	0.25	0.39	0.17	0.13	0.14	0.007	86	57	3	23.7	6.37	0.04	100.01
15529	36.52	4.52	3.47	17.99	20.27	0.42	0.67	0.52	0.2	0.21	0.019	232	199	6	15.1	3.53	0.02	99.96
15530	48.68	21.87	2.07	6.3	15.64	1.2	0.97	0.74	0.14	0.11	0.012	349	83	16	2.1	0.1	< .01	99.88
15531	50.09	10.14	6.35	11.7	15.01	1.37	1.7	1.32	0.2	0.1	0.012	1207	65	20	1.8	0.2	0.34	99.94
STD SO-17/C!	61.68	13.84	5.83	2.35	4.68	4.11	1.4	0.6	0.98	0.53	0.432	388	38	23	3.4	2.49	5.4	99.88

*As received by email

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APPENDIX 2A:

CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A102052 Received: JUL 9 2001 * 2 samples in this disk file.

ELEMENT	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
10538	14.1	0.1	<.5	0.5	2245	2.6	3	13077	61.3	12.1	<.1	4	31	<1	18.1	95.9	1906	2666	203.4	548	71.3	17.82	37.37	5.53	26.35	3.74	10.16	0.96	6.15	0.91
RE 10538	13.3	<.1	<.5	2190	1	4	12873	71.8	10.9	<.1	2.6	32	<1	18.5	93.8	1848	2517	199	538	69.5	17.19	37.48	5.52	26.65	3.58	10.27	0.99	6.26	0.86	
STD SO-15	22.2	3	17.9	26.6	30.3	64.8	19	402.9	1.7	23.8	1	20.1	152	20	1087	22.9	29.1	59.1	6.15	23.4	4.6	1.06	3.91	0.6	3.84	0.84	2.58	0.37	2.55	0.43

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A203285 Received: AUG 26 2002 * 7 samples in this disk file.

ELEMENT	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15526	6.3	1.9	4.2	1.8	2.5	27.5	<1	95.3	0.1	3.1	2.5	18	0.3	58.8	9.7	11.2	23.2	2.1	8.3	1.6	0.32	1.63	0.25	1.53	0.32	0.89	0.14	0.98	0.13
15527	11.2	1.5	5.1	2	6	23.3	1	86.9	0.4	3.9	1.7	32	0.9	68.8	10.7	15.3	27.5	3	13.2	2	0.42	2.16	0.28	1.78	0.35	1.01	0.13	1.01	0.13
15528	8.1	1	4.5	1.4	4.8	16.3	2	95.8	0.3	3.1	1.3	32	0.8	46.7	10.7	10.8	21.3	2.22	10.6	1.8	0.43	2.01	0.28	1.63	0.33	0.95	0.16	1.08	0.16
15529	65.5	1.9	8.3	3.2	15.3	24.4	3	59	0.9	7.9	4.8	64	2.2	122.7	43.3	25.1	53.8	6.15	27	6	1.38	7.13	1.14	6.9	1.38	3.58	0.48	3.04	0.41
15530	58.6	2.5	27.5	9.7	22.4	61.2	8	293.2	2	25.1	9.4	61	4.9	315.6	70.6	74.2	148.6	16.77	70.2	13.8	2.43	12.72	1.99	11.87	2.35	6.79	1.1	7.53	1.06
15531	19.6	4.7	16.9	5.3	16.1	68	6	205	1.1	6.8	4.1	203	5	171.3	34.1	25.4	52.6	6.38	28.2	5.9	1.56	5.97	0.95	5.99	1.19	3.29	0.51	3.49	0.5
STD SO-17	17.9	3.8	20.8	12.2	25.6	23.8	11	305.6	4.6	11.3	10.8	132	10.7	354.5	26.7	11	24	2.88	13.7	3.2	1.03	3.75	0.65	4.23	0.9	2.83	0.46	2.9	0.44

*As received by email

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APPENDIX 2A:

CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A102052 Received: JUL 9 2001 * 3 samples in this disk file.

ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
10538	< 1	101	12	12	22	< 2	1.2	< .5	2.2	< .5
RE 10538	< 1	98	15	15	23	< 2	1.1	< .5	2.4	< .5
STD C3	27	69	34	178	38	58	26.5	13.9	25.4	6.5
STD G-2	9	3	5	47	8	< 2	< .2	< .5	< .5	< .5

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Dahrouge Geological Consulting

Acme file # A203285 Received: AUG 26 2002 * 8 samples in this disk file.

Analysis: GROUP 1DX - 0.50 GM

ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	Hg	Tl
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm
SI	0.1	0.6	0.4	< 1	0.2	< .5	< .1	< .1	< .1	< .1	< .5	< .01	< .1
15526	0.8	1.4	1.4	8	8.2	1.4	< .1	< .1	< .1	< .1	1	< .01	0.1
15527	2.3	0.8	0.7	6	12.7	1.6	< .1	< .1	< .1	< .1	< .5	< .01	0.1
15528	0.7	0.9	1.1	4	16.5	1.2	< .1	< .1	< .1	< .1	0.5	< .01	0.1
15529	0.6	18.9	1.4	37	132.1	2.2	0.2	< .1	0.1	< .1	< .5	< .01	0.2
15530	0.4	39.9	6.7	16	64.7	2.5	< .1	< .1	0.1	< .1	< .5	< .01	0.1
15531	0.8	36.5	2.3	23	34.3	1.6	< .1	0.1	0.2	< .1	< .5	< .01	0.3
STD DS3	8.9	129.5	33.1	163	36.4	31.8	5	4.9	5.3	0.3	19	0.23	1.1

*As received by email

APPENDIX 2B:

**ANALYTICAL REPORTS FOR ICP ANALYSIS OF STREAM SEDIMENT SAMPLES
BY ACME ANALYTICAL LABORATORIES LTD.**

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Acme file # A203286 Received: AUG 26 2002 * 5 samples in this disk file.

Analysis: GROUP 1F30 - 30.00 GM

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
12453H	1.05	12.25	3.63	24.7	7	12.8	8	984	2.11	< .1	16.4	0.7	114.2	32.4	0.09	0.03	0.19	25	0.59	0.225	377.2	29.1	0.5	84.6
12467H	0.85	11.41	3.65	27.7	8	18	6.3	1222	2.24	0.3	18.8	0.2	122.3	11.6	0.1	0.04	0.17	23	0.38	0.142	406	24.3	0.39	52.4
12469H	1.16	18.56	3.82	24.2	13	14.5	5.9	1399	2.61	< .1	23.7	64.5	161.1	23.7	0.11	0.05	0.58	21	0.53	0.227	553.8	27.6	0.45	74.3
12471H	2.17	9.81	3.78	24.9	15	17.7	8.2	449	2.58	i	7	4.6	73.7	23	0.05	0.06	0.19	61	0.52	0.047	281.7	45	0.37	68.3
STD DS4	6.63	129.2	32	154.8	306	36.9	11.6	793	3.15	23.6	5.8	24.9	3.9	29.1	4.99	4.87	5.15	78	0.54	0.099	16.2	171.2	0.59	144.7

ELEMENT	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
SAMPLES	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
12453H	0.119	2	1.08	0.042	0.44	2.5	5.2	0.11	0.06	< 5	0.6	0.03	2.4	30
12467H	0.098	2	1.12	0.031	0.31	0.3	5.5	0.09	< .01	< 5	0.6	< .02	1.9	30
12469H	0.095	2	1.2	0.039	0.42	0.2	6.1	0.11	0.04	< 5	0.7	0.02	0.6	30
12471H	0.255	2	0.6	0.063	0.12	2.1	3.6	0.04	0.07	< 5	0.4	< .02	3.5	30
STD DS4	0.094	2	1.78	0.033	0.18	3.7	3.8	1.03	0.04	277	1.3	0.74	6.6	30

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Acme file # A203287 Received: AUG 26 2002 * 6 samples in this disk file.

Analysis: GROUP 1F30 - 30.00 GM

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
G-1	1.04	1.66	0.62	0.7	2	1	0.1	596	1.92	< .1	< .1	< .2	< .1	5.8	0.01	0.03	< .02	39	0.74	< .001	< .5	4.5	0.59	6.1
12454S	1.44	33.21	6.31	57.9	43	24.5	9.7	335	3.08	0.3	2.5	0.3	14.4	20	0.05	0.04	0.37	45	0.42	0.153	52.1	44	1	183.2
12468S	1.77	36.86	22.06	66.9	146	46.1	27.2	702	3.55	2.2	1.5	1.6	3.2	25.9	0.25	0.13	0.4	53	0.34	0.091	23.1	53.8	0.99	139.3
12470S	1.07	39.03	7.99	65.6	50	34.6	14.4	409	3.85	0.8	2.2	0.8	12	21	0.07	0.03	0.36	56	0.27	0.112	48.1	56.3	1.21	217.1
12472S	4.69	47.63	10.54	51.5	197	48.8	17.4	660	2.12	1.4	6.6	0.4	2	323	0.48	0.28	0.18	37	1.33	0.089	108.7	53.3	0.43	547.3
STD DS4	6.98	129.2	32	154.8	306	36.9	11.6	793	3.15	23.6	5.8	24.9	3.8	29.1	4.99	5.13	5.15	78	0.54	0.099	16.2	171.2	0.59	144.7

ELEMENT	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
SAMPLES	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
G-1	0.133	< 1	1.06	0.924	0.01	0.2	0.1	< .02	< .01	5	< .1	< .02	0.1	15
12454S	0.22	< 1	1.92	0.041	1.02	0.4	3.9	0.31	0.07	7	0.6	0.04	7.4	30
12468S	0.186	1	2.46	0.029	0.65	0.1	3.7	0.3	0.19	67	1.3	0.04	9	30
12470S	0.254	< 1	2.37	0.037	1.26	0.1	4.8	0.39	0.06	10	0.4	0.03	8.7	30
12472S	0.12	3	1.34	0.034	0.27	0.3	3.1	0.26	0.16	69	2.9	0.04	5.3	15
STD DS4	0.094	2	1.78	0.033	0.18	3.7	3.6	1.03	0.04	277	1.3	0.74	6.6	30

*As received by email

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APPENDIX 3A:

DESCRIPTIONS OF SAMPLES FROM THE GUM CREEK PROPERTY

Notes: Concentrations of Tantalum and Niobium as originally reported by Acme Analytical Laboratories Ltd. (Appendix 1) are converted to oxide format as follows: $Ta_2O_5 = Ta \times 1.2210$; $Nb_2O_5 = Nb \times 1.4305$.

UTM Coordinates are NAD 83.

Sample	UTM Coordinates		Sample Type	Sample Length (m)	Description	Ta ₂ O ₅ (ppm)	Nb ₂ O ₅ (ppm)	P ₂ O ₅ (%)
	Easting (m)	Northing (m)						
15526	354,769	5,795,770	grab	-	<u>Carbonatite (?)</u> , white-green color, orientation 040° 15° SE	0.1	3.6	0.10
15527	-	-	chip	1	<u>Carbonatite (?)</u> , 8 m from 15526, from mid-level of layer	0.5	8.6	0.13
15528	-	-	chip	1	<u>Carbonatite (?)</u> , 10 m from 15526, from upper-level of layer	0.4	6.9	0.13
15529	-	-	chip	1	<u>Carbonatite (?)</u> , 13 m from 15526, from mid-level of layer	1.1	21.9	0.20
15530	-	-	grab	0.4	<u>Fenite(?)</u> , amphibole-carbonate-biotite composition, upper fenite zone	2.4	32.0	0.14
15531	-	-	chip	2	<u>Fenite(?)</u> , amphibole-carbonate-biotite composition, lower fenite zone, 4 m from 15526	1.3	23.0	0.20
10538	?	?	grab	-	<u>Carbonatite</u> , light-grey, abundant light-grey to pale apatite, very abundant black amphibole, abundant black metallic mineral (columbite?), up to 1 per cent phytrotite	74.8	3211.2	1.82

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* See Appendix 2 for additional analytical results.

APPENDIX 3B:

**INFORMATION ON STREAM SEDIMENT SAMPLES
FROM THE GUM CREEK PROPERTY**

Sample	UTM Coordinates (NAD83)		Sample Type	Concentration (ppm)						
	Easting	Northing		Ta	Nb	Ce	Sr	Th	U	Zr
12453H	355,861	5,796,149	pancon	7.5	306.9	2,379.5	32.4	114.2	16.4	915.3
12454S	355,861	5,796,149	silt	2.4	41.1	592.6	20.0	14.4	2.5	629.3
12467H	356,346	5,796,075	pancon	2.1	33.0	1,618.8	11.6	122.3	18.8	668.3
12468S	356,346	5,796,075	silt	0.9	21.3	162.4	25.9	3.2	1.5	233.3
12469H	355,651	5,797,849	pancon	6.8	170.6	3,244.7	23.7	161.1	23.7	1,258.0
12470S	355,651	5,797,849	silt	1.6	47.0	560.3	21.0	12.0	2.2	802.5
12471H	353,588	5,795,534	pancon	8.7	433.3	1,351.1	23.0	73.7	7.0	911.8
12472S	353,588	5,795,534	silt	0.8	36.0	144.9	323.0	2.0	6.6	187.6

* See Appendix 2 for analytical results.

APPENDIX 4: STATEMENT OF QUALIFICATIONS

The work described in this report was supervised by Jody Dahrouge of Dahrouge Geological Consulting Ltd.

Mr. Smith is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained a B.Sc. (Honors) and a M.Sc. in geology from the University of Alberta, Edmonton in 1998 and 2002, respectively. He is registered as a Geol.I.T. with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. He has 4 years of experience in mineral exploration.

Mr. Dahrouge is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained degrees in geology and computing science from the University of Alberta, Edmonton in 1988 and 1994, respectively. He is a member of the Canadian Institute of Mining and Metallurgy and is registered as a P.Geol. with the Association of Professional Engineers, Geologists and Geophysicists of Alberta. He has more than 10 years of experience in mineral exploration.