COMMERCE RESOURCES CORP.

2002 DIAMOND DRILLING & EXPLORATION ON THE BLUE RIVER PROPERTY

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

CLAIMS

Verity 1 to 13, Mara 1 to 7, Paradise 1 to 12,
Serp 1 to 6, Fir 1 to 12 and Thunder 5

Geographic Coordinates

52° 15' N to 52° 30' N
118° 55' W to 119° 10' W

NTS Sheet 83 D/6, D/7

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Date Submitted: 2003 04 09

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1. INTRODUCTION

Throughout this report the term Blue River Property refers to mineral claims Verity 1 to 13, Mara 1 to 7, Paradise 1 to 12, Fir 1 to 12, Serp 1 to 6 and Thunder 5 which encompass a series of tantalum-niobium-phosphate bearing carbonatites, about 25 to 35 km northeast of Blue River, British Columbia. Claims Verity 1 to 9 and Fir 1 to 9 were acquired by Commerce Resources Corp. during February, 2000; Mara 1 to 7 during August, 2000; and Verity 10 to 13 and Fir 10 to 12 during October, 2000. Claims Paradise 1 to 13 were acquired during December, 2000; Thunder 5 during April, 2001; and Serp 1 to 6 during March, 2002. These claims have been referred to as the Verity, Mara, Paradise and Fir properties in prior assessment reports.

Work was conducted from March to December 2002 by Dahrouge Geological Consulting Ltd., on behalf of Commerce Resources Corp. It included prospecting, rock and stream sediment sampling, road construction and diamond drilling. About 950 m of old roads and trails were rehabilitated and constructed to make them suitable for access by drill equipment. In addition, five HQ-sized diamond drill holes totalling 898.47 m were completed, logged and sampled. Based on the 2002 work, a resource estimate was completed for the Fir carbonatite.

This assessment report includes a compilation and summary of exploration work conducted by Commerce Resources Corp. in the Blue River area recorded in prior assessment reports (Dahrouge, 2001a, 2001b; Dahrouge and Reeder, 2001, 2002a, 2002b; and Smith and Dahrouge, 2002). 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 20.4° east was used.

1.1 GEOGRAPHIC SETTING

1.1.1 Location and Access

The Blue River Property is located along the east side of North Thompson River valley of east-central British Columbia, within NTS map area 83 D/6 (Fig. 1.1). The Verity-Paradise Carbonatite Complex (VPCC) is centred at about 52° 24' N latitude between 119° 05' to 119° 09' longitude and the Fir carbonatite is centered at approximately 52° 19' N latitude and 119° 10' W longitude. The northern carbonatites (Verity, Mill, Paradise, Roadside-Serpentine Creek) are within the Verity-Paradise-Mara claims and the southern carbonatites (Fir, Upper Fir, Bone Creek) are within the Fir claims.

The property is between 20 to 40 km north of Blue River, and 45 to 65 km south of Valemount, British Columbia and is accessible from British Columbia Highway 5 (Yellowhead South Highway). The northern carbonatites are accessible via Serpentine Creek forest service road, which branches

from the Yellowhead Highway about 35 km south of Valemount. The southern carbonatites can be reached via Gum Creek forest service road which branches from Highway 5 about 23 km north of Blue River. Other areas on the property can be reached through a network of well-maintained logging roads. Remote and high-altitude locations are restricted to access by foot or helicopter. The main line of the Canadian National Railway, which parallels the Yellowhead Highway, passes through the western part of the property. Limited supplies and accommodations are available at either Blue River or Valemount.

1.1.2 Topography, Vegetation, Climate and Geographic Names

The Blue River Property is between about 700 m and 2300 m elevation above sea level and is located along the steep, west-facing slopes of the Monashee Mountains. Slopes are typically covered by thick undergrowth consisting of buckbrush, devil's club and huckleberry. Areas not subjected to recent logging are covered by dense stands of hemlock, cedar, fir and white pine. Timber line is usually between1800 to 2000 m elevation. Precipitation averages about 120 cm per year and snowfall is generally heavy.

1.2 PROPERTY

The Blue River Property encompasses a contiguous area of about 124 km^2 situated within Kamloops Mining Division (Fig. 1.2; Table 1.1). The property includes twenty-one 2-post mineral claims (Verity 1 to 9, Mara 5 to 7, Fir 1 to 9) and thirty 4-post mineral claims (Verity 10 to 13, Mara 1 to 4, Paradise 1 to 12, Serp 1 to 6, Fir 10 to 12 and Thunder 5). The claims are wholly owned by Commerce Resources Corp.

Previously, the area was divided into four (or more) separate properties. The term Blue River Property is now used to include the Verity Property (claims Verity 1 to 13), the Mara Property (claims Mara 1 to 7), the Paradise Property (claims Paradise 1 to 13) and the Fir Property (claims Fir 1 to 12 and Thunder 5). These four properties in addition to the Serp claims make up a contiguous area and are considered one property.

TABLE 1.1: LIST OF MINERAL CLAIMS

Claim Name	Tenure Number	Units/Claim	Record Date	Actual/Expected Expiry Date
Verity 1	374654	1	2000-02-15	2007-02-15
Verity 2	374655	1	2000-02-15	2007-02-15
Verity 3	374656	1	2000-02-15	2007-02-15
Verity 4	374657	1	2000-02-15	2007-02-15
Verity 5	374658	1	2000-02-15	2007-02-15
Verity 6	374659	1	2000-02-15	2007-02-15
Verity 7	374660	1	2000-02-17	2007-02-17
Verity 8	374661	1	2000-02-17	2007-02-17
Verity 9	374662	1	2000-02-17	2007-02-17
Verity 10	382159	20	2000-10-28	2009-10-28
Verity 11	382160	12	2000-10-27	2009-10-27
Verity 12	382161	16	2000-10-27	2008-10-27
Verity 13	382162	20	2000-10-27	2008-10-27
Mara 1	380030	20	2000-08-16	2011-08-16
Mara 2	380031	8	2000-08-16	2011-08-16
Mara 3	380032	20	2000-08-16	2011-08-16
Mara 4	380033	8	2000-08-17	2011-08-17
Mara 5	380034	1	2000-08-18	2011-08-18
Mara 6	380035	1	2000-08-18	2011-08-18
Mara 7	380036	1	2000-08-18	2011-08-18
Paradise 1	383334	20	2000-12-30	2003-12-30
Paradise 2	383335	16	2000-12-30	2003-12-30
Paradise 3	383336	20	2000-12-30	2003-12-30
Paradise 4	383337	20	2000-12-30	2003-12-30
Paradise 5	383338	6	2000-12-29	2003-12-29
Paradise 6	383339	16	2000-12-29	2003-12-29
Paradise 7	383340	20	2000-12-29	2003-12-29
Paradise 8	383341	16	2000-12-29	2003-12-29
Paradise 9	383342	6	2000-12-29	2003-12-29
Paradise 10	383343	8	2000-12-29	2003-12-29
Paradise 11	383344	10	2000-12-29	2003-12-29
Paradise 12	383345	8	2000-12-29	2003-12-29
FIR 1	374663	1	2000-02-16	2012-02-16
FIR 2	374664	1	2000-02-16	2012-02-16
FIR 3	374665	1	2000-02-16	2012-02-16
FIR 4	374666	1	2000-02-16	2012-02-16
FIR 5	374667	1	2000-02-16	2012-02-16
FIR 6	374668	1	2000-02-16	2012-02-16
FIR 7	374669	1	2000-02-16	2012-02-16
FIR 8	374670	1	2000-02-16	2012-02-16
FIR 9	374671	1	2000-02-16	2012-02-16
FIR 10	382163	20	2000-10-28	2011-10-28
FIR 11	382164	20	2000-10-28	2011-10-28
FIR 12	382165	20	2000-10-28	2011-10-28
Thunder 5	385831	20	2001-04-23	2005-04-23
Serp 1	392389	12	2002-03-11	2004-03-11
Serp 2	392390	18	2002-03-10	2004-03-10
Serp 3	392391	20	2002-03-11	2004-03-11
Serp 4	392392	18	2002-03-10	2004-03-10
Serp 5	392393	18	2002-03-09	2004-03-09
Serp 6	392394	18	2002-03-08	2004-03-08
	Totals	**495**		

1.3 HISTORY AND PREVIOUS INVESTIGATIONS

1.3.1 Work by Previous Operators

The Blue River Property was explored sporadically over the past half century for a number of different commodities. The carbonatites have been examined for their potential to host deposits of vermiculite, uranium, niobium, tantalum and phosphate. Exploration work has included prospecting, geological mapping, trenching, geophysical surveys and diamond drilling. The results of this work have identified at least six separate carbonatite intrusions with significant Ta-Nb-P mineralization.

The Verity carbonatite (once described as a limestone unit) was originally discovered in 1949 by Mr. O.E. French and briefly examined for its vermiculite potential by Zonalite Corporation (McCammon, 1950). Further work by Mr. French in 1951 and the B.C. Department of Mines identified radioactive pyrochlore and the property was optioned by St. Eugene Mining Corporation Ltd. for its uranium potential (McCammon, 1952). Between 1952 and 1955 the company conducted road-building, geological mapping, prospecting, trenching and sampling (McCammon, 1954).

The area surrounding the Paradise carbonatite, to the east of Verity, was staked in 1967 by Anthony Rich and a reconnaissance exploration program of prospecting, mapping and sampling was completed (Rich, 1968). During the late 1960s the Blue River carbonatites were examined by Dr. Anthony Mariano, on behalf of Kennecott Copper Corporation (Mariano, 1982).

In 1976, the property was re-staked by John Kruszewski for its uranium and columbium (niobium) potential and an exploration program involving ground geophysical surveys (magnetometer and scintillometer), stripping and trenching was conducted (Meyers, 1977; Jackson et al., 1978; Ahroon, 1980).

In 1980, the property was optioned by Anschutz (Canada) Mining Ltd. primarily as a tantalum and niobium prospect. An aggressive exploration program was initiated including airborne and ground geophysical surveys, geological mapping and diamond drilling. This work resulted in the discovery of the Bone Creek and Fir carbonatite occurrences and the definition of a small (~2 mT) deposit at the western extremity of the Verity carbonatite (Aaquist 1982a, 1982b). Between 1980 and 1982, approximately 4000 m of drilling was completed on the Verity, Mill, Bone Creek and Fir carbonatites . Due to a drop in the price of tantalum, no further exploration work was conducted and the properties were allowed to lapse.

TABLE 1.2 SUMMARY OF PRIOR EXPLORATION AT THE BLUE RIVER PROPERTY

Year	Description	Reference
1950	Geological mapping, sampling, several hand trenches on the Verity carbonatite (limestone)	McCammon, 1950
1951-52	Geological mapping, test-pitting and sampling	McCammon, 1952
1953	Road-building, stripping and trenching	McCammon, 1954
1954	Minor sampling	McCammon, 1954
1967	Mapping and sampling of Paradise carbonatite	Rich, 1968
1977-78	Ground magnetometer and scintillometer surveys, prospecting, trenching and sampling	Meyer, 1977 Jackson et. al., 1978
1979-80	Airborne and ground geophysics, geological mapping, sampling and core drilling	Ahroon, 1980
1981	Extensive diamond drilling, geological mapping, sampling and 1:4000 scale topographic map constructed	Aaquist, 1982a
1982	Detailed mapping and sampling	Aaquist, 1982b

1.3.2 Work by Government or Academic Agencies

Despite the rarity of carbonatite occurrences worldwide, the unusual mineralogy of the Blue River carbonatites and their accessibility, they have yet to be the primary focus of any detailed scientific studies. The Canoe River area, which encompasses the Blue River Property was mapped by R.B. Campbell of the Geological Survey of Canada in 1967 (Campbell, 1968). A more detailed study involving mapping of the stratigraphy, structure and metamorphism of the surrounding Cariboo Mountains area was completed by Pell and Simony (1981). The Mount Cheadle area, which was the focus of a metamorphic study by Digel et al. (1989), resulted in the discovery of the Serpentine Creek and Gum Creek carbonatites.

Because of the unusual minerals and original mis-identification of the carbonatites as a sedimentary rocks, early studies involved petrological, geochemical and isotopic tests to correctly identify the igneous nature of the rocks (Rich, 1968; Mariano, 1979, 1982). The most detailed work on the mineralogy, petrology and geochemistry of the Blue River carbonatites was conducted by Dr. Anthony Mariano on behalf of Anschutz (Canada) Mining Ltd. (Mariano, 1979; 1982). A number of the Blue River area carbonatites were also studied as part of a provincial-wide examination of alkaline intrusions by Pell (1987) and Pell and Hoy (1989). More recently, Hogarth et. al. (2000) examined chemical zoning in Verity pyrochlore crystals and Simandl et al. (2002) compared the chemical composition of pyrochlore and columbite crystals in the Verity and Fir carbonatites.

1.3.3 Work by Commerce Resources Corp.

During 2000, Commerce Resources Corp. re-staked the Verity and Fir carbonatites with the present claim boundaries now covering an area of approximately 124 km^2. Exploration during 2000 consisted of a limited reconnaissance program including the examination of the known carbonatite exposures and confirming the tantalum-niobium-phosphate mineralization (Dahrouge, 2001a, 2001b). Two additional outcrops of carbonatite were discovered, one of which was named the Roadside carbonatite.

During 2001, the company continued exploration on the Verity and Fir carbonatites with an extensive program consisting of prospecting, stream sediment sampling, ground geophysical surveys, soil sampling and diamond drilling (Dahrouge and Reeder 2001, 2002a, 2002b; Smith and Dahrouge, 2002). A total of 410 m was drilled at the Verity deposit and 1245.21 m at theFir deposit. An inferred resource was calculated for both deposits using the prior drill data of Anschutz (Canada) Mining Ltd. and those results obtained by Commerce Resources Corp. Additional information and full descriptions of the 2000 to 2002 exploration can be found in prior assessment reports.

TABLE 1.3: INFERRED RESOURCES OF TANTALUM AND NIOBIUM AT THE BLUE RIVER PROPERTY

Carbonatite Deposit	Cut-Off Grade Ta_2O_5 (g/t)	Tonnes (mT)	Ta_2O_5 (g/t)	Nb_2O_5 (g/t)	P_2O_5 (wt%)
Verity[1]	150	3.06	196	646	3.2
Fir[2]	150	5.24	194	897	3.5
Fir[3]	120	12.08	203.1	1,074.0	-

[1]McCrea (2001), Verity beforsite specific gravity 2.93
[2]McCrea (2002), Fir beforsite specific gravity 3.02
[3]This report, Fir beforsite specific gravity 3.02

1.4 PURPOSE OF SURVEY

The purpose of the 2002 exploration program was to expand the size of the Fir carbonatite deposit with five HQ-sized diamond drill holes and to explore for new prospective areas that may host additional Ta-Nb-P mineralized carbonatites on the Blue River Property.

1.5 SUMMARY OF WORK

Between March and December, 2002, Jody Dahrouge, B.Sc., P.Geol. and Mark Smith, M.Sc. Geol.I.T. of Dahrouge Geological Consulting Ltd., supervised the exploration of the Blue River

Property. The work consisted of accurately re-locating outcrops of the Serpentine Creek and Bone Creek carbonatites, the discovery of the new Upper Fir carbonatite occurrence and the collection of 14 rock samples and 24 stream sediment samples (Appendix 2C, 3A, 3B). Five drill pads were constructed with the rehabilitation of approximately 950 m of old roads and trails to make them suitable for access by drill equipment. Subsequently, five HQ-sized diamond drill holes totaling 898.47 m were completed during July-August, 2002. Some 109 core samples were analyzed by XRF (X-ray fluoresence) for major-oxides, tantalum, niobium, phosphate and uranium concentrations by TeckCominco Exploration Laboratories, Vancouver, BC. (Appendix 2A, 2B). From these core samples, 10 were checked by ICP methods by Acme Analytical Laboratories (Appendix 2D).

The work was authorized by Commerce Resources Corp. and approved under reclamation permit MX-15-183. Based on this drill program and prior work by Commerce (2001) and Anschutz (Canada) Mining Ltd. (1980s) an updated resource estimate of 12,075,093 tonnes with 203.1 g/t Ta_2O_5 and 1074.0 g/t Nb_2O_5 was calculated for the Fir carbonatite by Dahrouge Geological Consulting Ltd. (Table 1.3).

1.6 FIELD OPERATIONS

Field work was conducted by a 2-person crew in March, 2002 and a 3-person crew between July and August, 2002. Personnel were based at a motel in Blue River, British Columbia. Four-wheel-drive vehicles were used for transportation to the Blue River Property with ATVs (summer) and snowmobiles (winter) being required to reach certain areas of the property. A differential "GPS" instrument provided detailed survey information for drill holes F-01 through 06 with the accuracy generally less than a few metres. Holes F-07 through 11, which were surveyed with both a hand held "GPS" instrument, and a compass and hip chain, are thought to have an accuracy of less than five meters.

2. REGIONAL GEOLOGY

The Blue River Property is located within Omineca Crystalline Belt of the Canadian Cordillera. The eastern flank of the Cordillera is host to a broad zone of alkaline igneous activity that parallels the Rocky Mountain Trench (Currie, 1976; Pell and Hoy, 1989). The magmatic bodies were emplaced into sediments of a continental margin prior to the metamorphism and deformation events that formed the Canadian Cordillera (Pell and Hoy, 1989). Sediments of the Proterozoic Horsethief

Creek Group were metamorphosed to upper amphibolite grade (kyanite to sillimanite) and are composed of quartzites, phyllites, schists, amphibolites, gneisses and minor marble horizons.

Emplacement of the alkaline rocks has been linked to periodic episodes of rifting and extension (Pell and Hoy, 1989). The alkaline magmatism has been subdivided into three northwest trending belts based on distinct spatial, geological and geochronological evidence (Pell, 1987; Pell and Hoy, 1989):

a) the eastern Foreland belt, composed of large, elliptical-shaped intrusions with significant alteration halos hosted by Lower to Middle Paleozoic strata;
b) the central Omineca belt, which possesses thin, discontinous, concordant intrusions with little alteration hosted by late Precambrian strata; and
c) the western Omineca belt, composed of extrusive and intrusive alkaline rocks associated with core complexes and hosted by late Proterozoic to early Paleozoic sequences.

The central Omineca belt has multiple deformed and metamorphosed, sill-like carbonatite intrusions hosted by upper amphibolite grade (kyanite zone) gneissic sediments (Pell, 1987). This belt includes the Blue River Area carbonatites: Mill, Verity-Paradise, Howard Creek, Serpentine Creek, Fir-Upper Fir, Bone Creek, Gum Creek and Mud Lake-AEG.

A number of major structures are present in the area, including a mylonitic fault contact between the Horsethief Creek sedimentary rocks and Malton Gneiss north of the property and a north-trending regional normal fault along the North Thompson River Valley (Pell and Simony, 1981). This fault separates the Cariboo Mountains to the west and the Monashee Mountains to the east.

3. PROPERTY GEOLOGY

The following descriptions of geology of the Blue River Property are compiled and summarized primarily from existing publications and prior assessment reports.

3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY

The Blue River Property is underlain by interlayered gneissic meta-sediments and meta-basites of the Proterozoic Horsethief Creek Group. (Fig. 2.1). The gneisses are locally folded, cut by later faults and intruded by sill-like carbonatite bodies and late-stage pegmatites. The stratiform sills-like carbonatites are postulated to be Devonian in age (Pell, 1987) and generally occur as discontinuous layers and lenses.

The Blue River area carbonatites are described as either sovite (Ca or calcite-dominated) or beforsite (Mg or dolomite-dominated). Many of the sovites in the Blue River area classify as

magnesiocarbonatites, based on their chemistry (Wooley and Kempe, 1989), but the term sovite has consistently been used based on their mineralogy. Aaquist (1982a) indicated that the most significant tantalum-niobium mineralization is confined to the beforsites. The sovites are usually thin and barren. Both rock types are medium- to coarse-grained and have secondary tectonically-imposed textures. A cataclastic or tectonic-breccia texture is common in all the carbonatites as well as the presence of stylolites. Most exposures display layering defined by varying quantities of accessory minerals. Accessory minerals include amphibole, pyroxene, phlogopite, olivine, magnetite, apatite, pyrite/pyrrhotite and various tantlaum and niobium bearing minerals.

Alteration (fenitization) of the surrounding country rock gneisses is usually very limited and only proximal (up to 50 cm) to the carbonatite intrusives. Samples from this alteration show moderate enrichment in sodium and potassium.

3.1.1 Verity Carbonatite

The Verity carbonatite has been exposed in outcrops and trenches and intersected by over 25 drill holes over an approximate area of 1000 m by 600 m (Plate 3.1A). The deposit is located at the western margin of the exposed trace of carbonatite. It is composed of two sub-parallel sill-like bodies; an upper beforsite between 15 and 31 m thick and a lower sovite a few metres thick. The upper sill is interpreted to be disrupted by faulting (Aaquist, 1982b), primarily because of its absence in a number of drill holes. Large, centimetre-sized pyrochlore crystals are found at the Specimen Pit exposure of the Verity carbonatite (Plate 3.1B).

Samples collected from various exposures of the Verity carbonatite have produced a range of concentrations from 6 to 490 g/t Ta_2O_5, 14 to 5300 g/t Nb_2O_5, and 1.58 to 4.53 wt% P_2O_5. The most significant tantalum-niobium-phosphate mineralization is typically within the central portion of the upper beforsite.

3.1.2 Paradise Carbonatite

The Paradise carbonatite lies approximately 4 km east of the Verity carbonatite and has been postulated to be its eastern extension based on similarities in lithology (Verity-Paradise Carbonatite Complex: VPCC). Three varieties of carbonatite have been recognized including: olivine-sovite, biotite-sovite and beforsite (Pell, 1987). The carbonatite is approximately 30 m thick (Mariano, 1982) and associated with a nepheline syenite intrusive and is structurally folded (Pell, 1987).

Samples collected from various exposures of carbonatite in the Paradise Peak area have produced a wide range of concentrations from 6 to 366 g/t Ta_2O_5, 7 to 601 g/t Nb_2O_5, and 3.29 to 3.73 wt% P_2O_5. Unlike the Verity carbonatite, zones of significant Ta-Nb-P mineralization tend to be concentrated in narrow, discontinuous horizons. A detailed lithogeochemical comparison

between the Verity and Paradise carbonatite has not been conducted due to a lack of complete whole-rock and trace-element geochemistry from the Paradise samples.

3.1.3 Roadside-Serpentine Creek Carbonatite

The Roadside-Serpentine Creek carbonatites are a series of discontinuous outcrops/scree slopes located south of the Paradise carbonatite and north of Serpentine Creek (Plates 3.2A, 3.2B, 3.3A, 3.3B). Both beforsite and sovite varieties are present. Thickness of the different carbonatite outcrops could not be determined due to poor exposure. The Roadside occurrence has large (up to 30 cm) magnetite nodules and the Serpentine Creek outcrops bright-red olivine crystals.

Samples collected from these carbonatites generally have low concentrations of tantalum and niobium, although a value of 176 g/t Ta_2O_5 has been reported for the Roadside occurrence. Both the Roadside and Serpentine Creek carbonatites possess higher concentrations of Zr and Ti, than the Verity carbonatite. The carbonatite occurrences are likely part of the same sill-like body (or bodies) and may possibly represent the southern strike extension of the Paradise carbonatite.

3.1.4 Fir Carbonatite

The Fir carbonatite has been identified in outcrop and intersected by ten core holes over an area measuring 350 m east-west and 450 m north-south (Plate 3.4A). It consists of two (?) sub-parallel beforsite sill-like bodies that range from 10 to 60 m thick. The variation in thickness and drill-intersections could be related to pinching and swelling or from repetition due to isoclinal folding.

The Fir carbonatite is characterized by having consistent significant Ta-Nb-P mineralization with Ta_2O_5 >200 g/t, Nb_2O_5 >1000 g/t and P_2O_5 > 3.00 wt%. Values below 100 g/t Ta_2O_5 are rare with low concentrations of U and Th. Chemically, the Fir carbonatite possess distinctive Ca/MgO and Ce/Yb ratios from the other carbonaties (e.g. Verity).

3.1.5 Other Carbonatites

Two other carbonatite occurrences have been recognized on the Blue River Property. The Mill carbonatite is approximately 2 km north of the western end of the Verity carbonatite and was tested by 10 core holes in the early 1980s (Aaquist, 1982a). The sill-like sovite body generally had concentrations of < 100 g/t Ta_2O_5. The Bone Creek carbonatite is located approximately 1.3 km southeast of the Fir showing and is poorly exposed along the Gum Creek logging road (Plate 3.4B). The carbonatite was previously tested by 17 drill holes. Although highly elevated values of Ta-Nb-P were encountered, the sill-like body was found to be near flat-lying, discontinuous and typically less than 5 m thick (Aaquist, 1982b).

Other carbonatite occurrences in the region, but not on the Blue River Property include Howard Creek, Gum Creek and Mud Lake-AEG.

3.2 MINERALIZATION

The host rocks to the mineral occurrences on the Blue River Property are carbonatites, which are igneous rocks 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) (Richardson and Birkett, 1996). There are approximately 350 documented carbonatite magmatic systems worldwide.

Carbonatite-associated deposits can be classified as magmatic or metasomatic types (Richardson and Birkett, 1996). Deposits of tantalum and niobium within carbonatite bodies were formed during primary magmatic crystallization. The non-carbonate minerals tend to segregate into bands, thus a diffuse igneous layering can be present with bands richer and poorer in carbonate minerals. This process is enhanced by the relatively low viscosity of the carbonatite magma. If a magma pulse rich in tantalum and niobium is intruded, the minerals may segregate into non-carbonate mineral rich layers and potentially form in economic concentrations. Some examples of carbonatite-associated deposits include: Cargill, Ontario (phosphate); Niobec and Oka, Quebec (niobium); Mountain Pass, California (REE, barium); Araxa and Catalao, Brazil (niobium, phosphate, REE); and Palabora, South Africa (copper, phosphate, REE).

At the Blue River Property, the dominant tantalum (and niobium) bearing mineral is pyrochlore ($(Ca,Na)_2Nb_2O_6(OH,F)$) of the pyrochlore series (Mariano, 1979, 1982; Aaquist, 1982a; Knox, 2000; Simandl, 2002). Other important tantalum (and niobium) bearing phases include ferrocolumbite ($FeNb_2O_6$) and fersmite ($(Ca,Na)Nb_2(O,OH,F)_6$). Chemical substitution of tantalum for niobium occurs in all three of the minerals. Pyrochlore crystals range in size from 0.2 to 2 mm and occur in two habits (Knox, 2000). Typically, the pyrochlore crystals are dark red-brown in color but jet-black and yellow colored varieties have been recognized (Mariano, 1982). Most mineralogical studies have examined samples from the Verity carbonatite (Mariano, 1979, 1982; Hogarth et. al., 2000) with the more recent work focussing on the Fir carbonatite (Knox, 2000; Simandl, 2002). Apatite is the primary phosphate-bearing mineral in all the carbonatites.

4. 2002 EXPLORATION AND DRILLING

4.1 CONSTRUCTION AND IMPROVEMENTS TO ACCESS TRAILS

During the period from July to August, 2002, the following equipment was used by B&G Logging of Valemount, B.C.: a low boy for transportation; a D-6 bulldozer for construction and rehabilitation of roads and trails; and a backhoe excavator for reclaiming roads and trails.

The D-6 Bulldozer was used intermittently during the above noted period to rehabilitate access trails, construct drill pads and move the drill rig and equipment from site to site. The D-6 was also used for upgrading existing access trails and roads, ditching within wet and poorly drained areas, and for installing culverts where required. The backhoe excavator was used for deactivating drill trails and recontouring topographic features.

A total of about 950 m of road was rehabilitated on the Fir Property (Fig. 4.2).

4.2 ROCK AND STREAM SEDIMENT SAMPLING

During 2002, the regional prospecting program on the Blue River Property was continued in an effort to identify prospective areas for new carbonatite occurrences. Fourteen rock samples and twenty-four stream sediment samples were collected from the property (Fig. 4.1). Rock samples consisted of representative grab samples of carbonatite (or suspected carbonatite), collected from outcrop or float. At each stream location, a heavy concentrate and silt sample (~1 kg) were collected for comparative purposes. Pan concentrates were obtained by filling a five gallon pail with <1 cm-sized material which subsequently was panned down to approximately 1 kg.

As part of the prospecting program, two of the carbonatite occurrences were re-located (Fig. 4.1) using a hand-held GPS instrument. A highly-weathered outcrop of the Bone Creek carbonatite was located along the Gum Creek logging road and sampled for geochemical comparisons (Plate 3.4B). Three outcrops/scree slopes of the Serpentine Creek carbonatite were identified and may correspond to the previous descriptions of Digel et. al. (1989) and Simandl (2002) (Plates 3.2B, 3.3A, 3.3B). The samples are described as sovite in composition with relatively low concentrations of tantalum and niobium. However, a number of float blocks located to the east of the outcrop trace had high niobium concentrations with up to 6251 ppm Nb_2O_5. The Serpentine Creek occurrence appears to be along trend from the Roadside carbonatite and possibly the Paradise occurrence further to the north.

During 2002, a new carbonatite occurrence with significant tantalum-niobium-phosphate mineralization was discovered. Named the *Upper Fir*, the showing is currently interpreted to represent the footwall block with the Fir deposit being the down-dropped hangingwall block. This interpretation is based on two lines of evidence: a major fault zone encountered in holes FDDH-6 and FDDH-11 (see below), and geochemical characteristics (e.g. CaO/MgO ratio, Ce/Yb ratio) that are almost identical to the Fir carbonatite. The Upper Fir carbonatite is exposed under three uprooted trees at the edge of a cut-block, and at a location approximately 8 m further upslope below a gneissic cliff-face (Plate 4.1A, 4.1B). Three representative grab samples of the carbonatite and

one of the upper fenite alteration showed significant tantalum-niobium-phosphate mineralization (Table 4.1).

TABLE 4.1: SUMMARY OF ANALYTICAL RESULTS FOR THE UPPER FIR CARBONATITE

Sample	Description	Ta_2O_5 (g/t)	Nb_2O_5 (g/t)	P_2O_5 (wt%)
13934	Beforsite: blocks under tree	134.8	2260.2	2.64
13935	Beforsite: blocks under tree	212.3	3551.4	3.18
13936	Beforsite: upper contact	266.2	6737.8	4.34
13937	Altered upper fenite	77.7	1822.2	2.2

Pan concentrates continue to be an effective exploration tool to narrow a search area for prospective Ta-Nb-P carbonatites. Areas downstream from existing carbonatite occurrences record anomalous concentrations of Ta and Nb that can be traced to their source. The Blue River Property has a number of samples with elevated concentrations of Ta and Nb that are not in the vicinity of known carbonatite exposures.

Rock and stream sediment samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for preparation and analysis for both whole-rock and trace-element constituents by standard ICP techniques. Analytical reports are in Appendices 2C and 2D, while sample locations and descriptions in Appendices 3A and 3B.

4.3 DIAMOND DRILLING, SAMPLING AND ANALYTICAL PROCEDURES

Diamond drilling was approved under reclamation permit MX-15-183, obtained during 2001. Five HQ sized core holes (Table 4.2) totalling 898.47 m were completed during July-August 2002. Core holes were located east and upslope of the Fir outcrop and north and east of previous drill holes (Fig. 4.2). Drillhole collars were surveyed by topo-filling relative to known points and by multiple measurements using a differential "GPS" instrument.

Diamond drilling was contracted to Beaupre Diamond Drilling Ltd. of Princeton, B.C. Access to drill sites was obtained along Gum Creek forest service road and a rehabilitated cat trail. Water for drilling was obtained from nearby creeks draining the property.

TABLE 4.2: LOCATIONS OF THE 2002 CORE HOLES

Drill Hole Number	UTM Easting (m)	UTM Northing (m)	Azimuth/Dip	Depth (m)
FDDH-7	351928	5797592	000°/-90°	151.79
FDDH-8	351928	5797697	000°/-90°	121.3
FDDH-9	351997	5797786	270°/-70°	178.3
FDDH-10	352151	5797862	000°/-90°	200.56
FDDH-11	352239	5797862	000°/-90°	246.52
			Totals	898.47

The core was logged and split on private just south of the property. Core logging involved both geological and geotechnical aspects. Geological descriptions included lithology, mineralogy and structure (Appendix 4A). Geotechnical logging involved measured recoveries, Rock Quality Indices (RQDs), fracture densities and photographs of the core (Appendix 4B). After logging, the core was split by a rock-saw with half of the core replaced in the core box. One half of the core was sampled and sent for lithogeochemical analyses by X-Ray Fluorescence at TeckCominco Exploration Laboratories Ltd. (Appendix 2A, 2B). Selected intervals were checked by ICP-MS techniques at Acme Analytical Laboratories Ltd. in Vancouver, BC (Appendix 2E).

TABLE 4.3: COMPARISON OF ANALYTICAL RESULTS BY ACME ANALYTICAL LABORATORIES LTD. AND TECKCOMINCO EXPLORATION LABORATORIES

Sample	XRF[1]			ICP-MS[2]		
	Ta (ppm)	Nb (ppm)	U (ppm)	Ta (ppm)	Nb (ppm)	U (ppm)
18132	248	2345	<3	250.6	2453.1	5.5
18144	86	1031	5	70.1	940.1	1.5
18192	37	1249	<3	54.2	1025.2	0.8
18197	530	3255	3	431.9	3111	22.8
18226	170	512	28	154.2	456.9	52.2
18235	3	139	3	4.9	144.8	0.2
18252	159	1819	<3	178.8	1786.8	5.4
18261	401	1150	89	401.3	1260.6	169.2
18285	261	1601	3	231.1	1540.6	11.9
18290	4	90	<3	8.1	97.6	2.6

[1] TeckCominco Exploration Laboratories Ltd.
[2] Acme Analytical Laboratories Ltd.

The dominant rock type of interest in core holes FDDH-7 to 11 was a buff-weathered, coarse-grained beforsite (dolomite-dominated) carbonatite. Five of the core holes were drilled at an orientation of 000°/-90° and one at 270°/-70°. The preferred location for FDDH-9 was inaccessible due to steep slope conditions and so an angled hole was drilled to produce a similar result. The carbonatite sill appears to be flat-lying to shallowly dipping based on prior drilling but the structural-imposed pinching and swelling makes it difficult to obtain a precise orientation. Intercepts are interpreted to represent true thickness, but may be up to 5 per cent or more than the true thickness. Drill intersections indicate that the Fir carbonatite can be composed of an upper and/or lower sill. Carbonatite intersections were sampled at approximately 1 m intervals, and along zones of fenite alteration in the adjacent footwall and hangingwall contacts.

TABLE 4.4: SUMMARY OF COMPOSITE ANALYTICAL RESULTS FOR THE 2002 CORE HOLES*

Hole	From (m)	To (m)	Length (m)	Ta_2O_5 (g/t)	Nb_2O_5 (g/t)	P_2O_5 (wt%)
FDDH-7	59.16	81.18	22.02	206	2624	2.96
FDDH-8	52.28	67.67	15.39	223	1159	3.55
	105.85	113	7.15	275	911	1.54
(inclusive)	-	-	22.54	239	1413	3.48
FDDH-9	89.95	95.7	5.75	190	386	4.43
FDDH-10	141.05	179.33	38.28	214	1128	4.02
FDDH-11	165.34	167.8	2.46	157	435	4.12

*See Appendix 4A for complete results

4.3.1 FDDH-7

FDDH-7 was located approximately 90 m west of Anschutz Mining (Canada) Ltd. drill hole BC-19 (Aaquist, 1982b) (Figure 4.2). The hole was collared in overburden and intersected a series of thin zones and one main carbonatite sill before bottoming in gneiss (Appendix 4A). Thin zones of carbonatite were intersected between 49.85 m and 57.60 m, and ranged from 1 to 40 cm thick. Overall, the zone is composed of highly fractured and altered gneiss. The thin carbonatites are characterized by low tantalum values, but are enriched in niobium. The main beforsite sill was intercepted from 59.16 to 81.18 m (22.02 m) with average concentrations of 206 g/t Ta_2O_5, 2624 g/t Nb_2O_5 and 4.43 wt% P_2O_5. Two highly altered sections of gneissic country rock (45 cm and 80 cm) were intercepted within the carbonatite interval. An approximately 40 cm thick zone of moderate fenitization marked the lower contact and a number of pegmatitic intrusions up to 3 m

thick were encountered below the carbonatite.

4.3.2 FDDH-8

FDDH-8 was located approximately 100 m north of FDDH-7 (Figure 4.2). The hole was collared in overburden and intersected two main zones of carbonatite before bottoming in gneiss (Appendix 4A). Both the upper and lower sills are beforsite with intersections of significant Ta-Nb-P mineralization. The upper sill was intercepted from 52.28 to 67.67 m (15.39 m) with average concentrations of 223 g/t Ta_2O_5, 1159 g/t Nb_2O_5 and 3.55 wt% P_2O_5. The lower sill was intercepted from 105.85 to 113.78 m (7.15 m) with average concentrations of 275 g/t Ta_2O_5, 911 g/t Nb_2O_5 and 1.54 wt% P_2O_5. Between 98.50 and 102.89 m two thin brecciated zones of carbonatite contained elevated concentrations of Ta and Nb. A number of pegmatite intrusions, between 20 and 50 cm thick, were intercepted between 94.00 to 105.85 m.

4.3.3 FDDH-9

FDDH-9 was located approximately 50 m northwest of FDDH-1 (Figure 4.2) and drilled at an orientation of 270°/-70°. The hole was collared in overburden and intersected one zone of carbonatite before bottoming in gneiss (Appendix 4A). A narrow beforsite sill was intercepted from 89.95 to 95.70 m (5.75 m) with average concentrations of 190 g/t Ta_2O_5, 386 g/t Nb_2O_5 and 4.43 wt% P_2O_5. Two zones of altered gneiss country were also encountered. A series of centimeter to metre sized pegmatites were intercepted below the carbonatite sill.

4.3.4 FDDH-10

FDDH-10 was located approximately 100 m north of FDDH-5 (Figure 4.1). The hole was collared in overburden and intersected one main carbonatite sill before bottoming in gneiss (Appendix 4A). The beforsite sill was intercepted from 141.05 to 179.33 m (38.28 m) with average concentrations of 214 g/t Ta_2O_5, 1128 g/t Nb_2O_5 and 4.02 wt% P_2O_5. A number of highly altered gneissic country rocks, 5 to 30 cm across, were included in the carbonatite sill. Several thin pegmatites, 20 to 30 cm thick were intercepted above the carbonatite from 97.95 to 125.17 m.

4.3.5 FDDH-11

FDDH-11 was located upslope along the trail about 100 m east of the north-south trending trail of FDDH-4, 5, 6 and 10 (Figure 4.2). The hole was collared in overburden and intersected a thin sill-like carbonatite before encountering a significant fault zone and bottoming in gneiss (Appendix 4A). The thin carbonatite was intercepted from 165.34 to 167.80 m (2.46 m) and contained average concentrations of 157 g/t Ta_2O_5, 435 g/t Nb_2O_5 and 4.12 wt% P_2O_5. This thin sill-like body is stratigraphically above the Fir carbonatite and is interpreted to be the same one reported in drill hole BC-19 of Anschutz (Canada) Mining Ltd. (Aaquist, 1982a). The carbonatite

appears to frequently pinch out which would explain its absence in most of the other drill holes.

FDDH-11 failed to intercept to Fir carbonatite, possibly because of the significant fault zone from 176.36 to 186.10 m. This fault is thought to be the same structure encountered in FDDH-6 and which may have down-dropped the Fir deposit fault block from the newly discovered Upper Fir carbonatite, located about 1200 m to the east. Two samples of carbonate-healed fault breccia from the interval reported elevated niobium values suggesting possible remobilization of the Fir-Upper Fir carbonatite material along the fault plane.

TABLE 4.5: DRILL INTERSECTIONS WITH SIGNIFICANT TANTALUM AND NIOBIUM MINERALIZATION

Hole	From (m)	To (m)	Length (m)	Ta_2O_5 (g/t)	Nb_2O_5 (g/t)	P_2O_5 (wt%)
FDDH-7	61	66	5	256	2737	2.79
	75	80	5	257	1666	2.92
FDDH-8	52.28	55	2.72	296	1599	3.62
	63	67	4	306	2375	3.75
	107	110	4	377	2653	3.9
FDDH-10	148	156.75	8.75	327	1038	5.51
	163	170	7	244	1577	3.15
	173	178	5	289	2608	4.08

4.4 RESOURCE ESTIMATE FOR THE FIR CARBONATITE

An updated resource estimate for the Fir Carbonatite was completed by Dahrouge Geological Consulting Ltd. (Appendix 5). The calculations were made using Gemcom software and are based upon four NQ-sized holes completed in 1981 by Anschutz (Canada) Mining Ltd. (Aaquist 1982a, 1982b), six HQ-sized holes completed by Commerce Resources Corp. in 2001 (Smith and Dahrouge, 2002), and five HQ-sized holes completed during the 2002 exploration program.

Using a cut-off grade of 120 g/t Ta_2O_5, the Fir carbonatite is estimated to contain an inferred/indicated resource of 12.1 Mt grading 203 g/t Ta_2O_5 and 1047 gt/t Nb_2O_5. (Table 1.3). The deposit remains open to the north and south.

5. DISCUSSION AND CONCLUSIONS

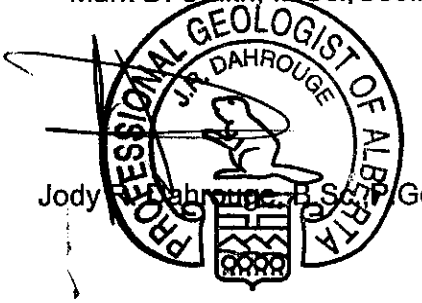
Diamond drilling conducted during the 2002 exploration program was successful in expanding the size of the Fir carbonatite deposit, which is host to an inferred resource of 12.1 mT grading 203 g/t Ta_2O_5 and 1047 gt/t Nb_2O_5, using a cut-off grade of 120 g/t Ta_2O_5. The deposit remains

open along strike to the north and south, with the exact nature of the east-bounding fault still unknown.

Regional prospecting resulted in locating additional outcrops of the Roadside-Serpentine Creek carbonatite and the discovery of the Upper Fir carbonatite. This carbonatite hosts significant Ta-Nb-P mineralization and is interpreted to be the footwall block, with the present Fir deposit representing the hangingwall block. Pan concentrates continue to be an effective method in narrowing the search area for additional carbonatites at the Blue River Property. There are a number of samples with anomalous Ta-Nb concentrations not located near known exposures of carbonatite.

Future exploration work should include additional delineation drilling at both the Verity and Fir deposits. The consistent thickness (35 to 40 m) of intersected carbonatite in the north-northeast portion of the Fir suggest that further drilling in this direction could substantially increase the deposit size. Although a considerable amount of exploration work has been conducted at the Verity carbonatite, a significant amount of the strike length has yet to be explored. Additional soil sampling and trenching may outline areas with the potential to host high grades of tantalum and niobium mineralization. Priority areas could then be defined for a series of scout drill holes. A program of grassroots exploration at Upper Fir involving a soil geochemistry survey and trenching is recommended with a few scout drill holes to determine thickness and grade of the intrusive. Positive results would then be followed up by a more extensive drill program to ascertain the size of the body. In addition, a continued focus on regional prospecting with more detailed coverage of the property using pan concentrates is warranted. Subsequent reconnaissance soil sampling and trenching over prospective areas may identify new carbonatite occurrences.

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



Jody R. Dahrouge, B.Sc., P.Geol.

2003-04-09

Edmonton, Alberta

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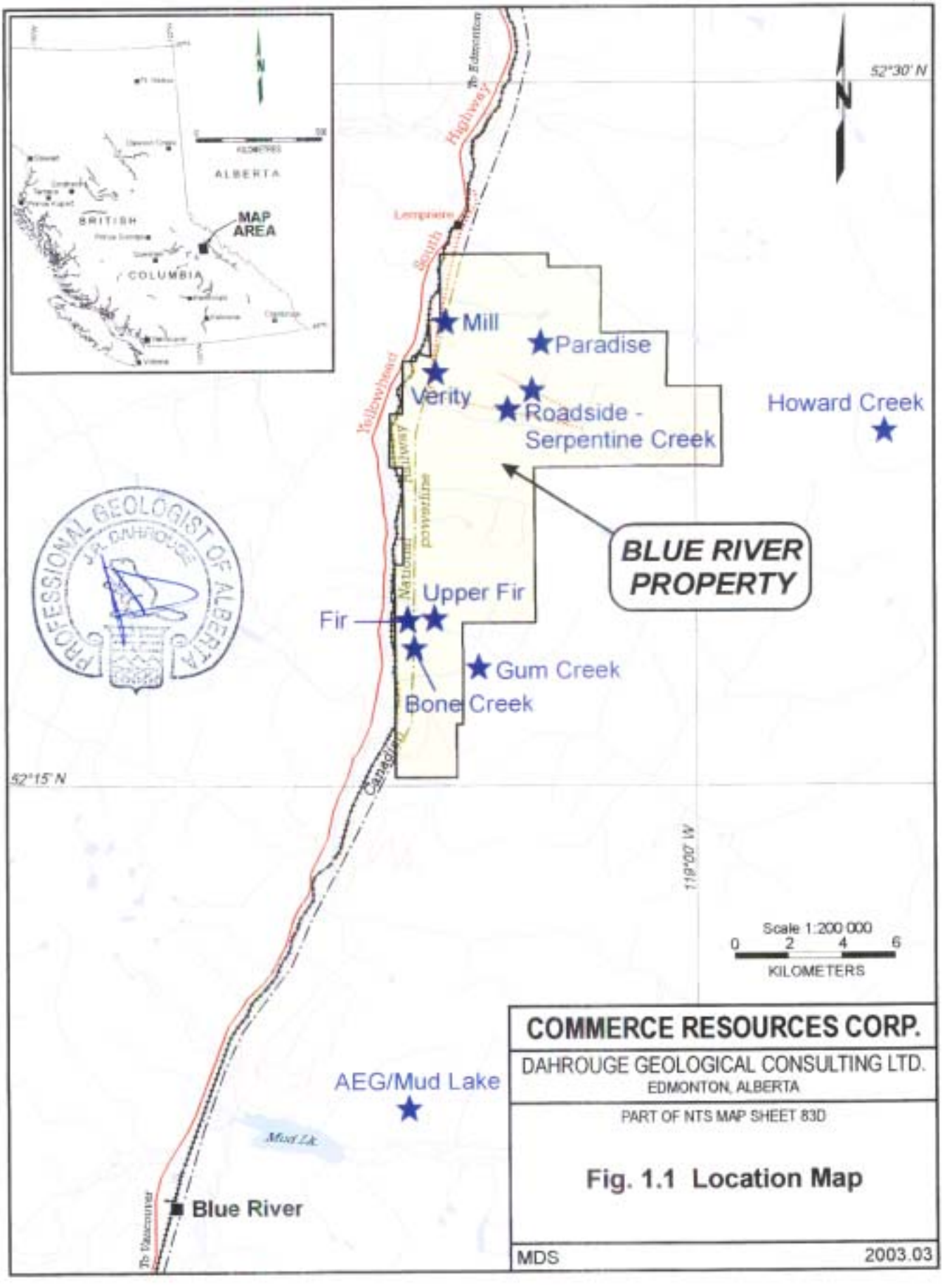

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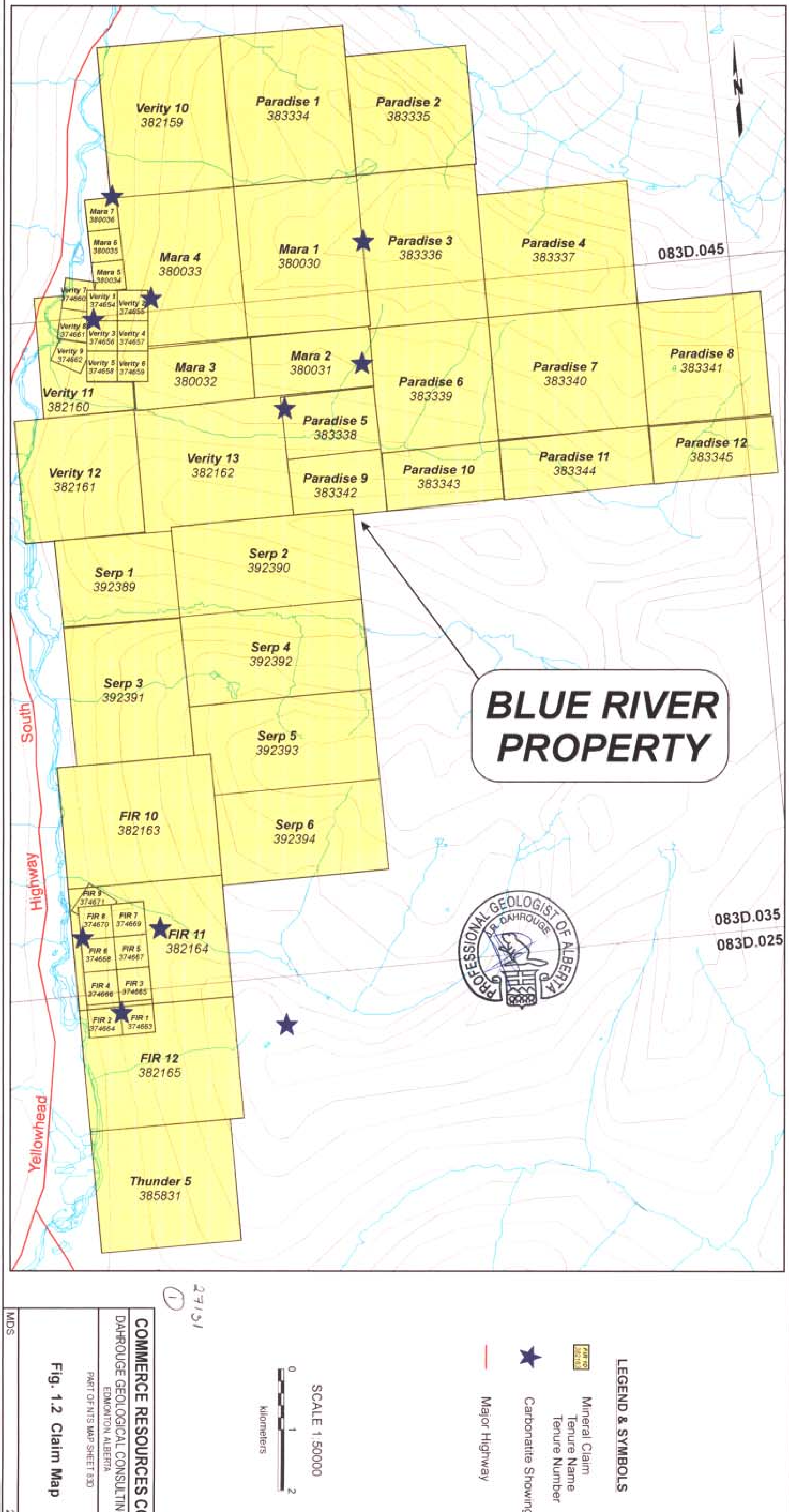
PART OF NTS MAP SHEET 83D

Fig. 1.1 Location Map

MDS 2003.03



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PART OF NTS MAP SHEET 83D

Fig. 1.2 Claim Map

MDS 2003.03

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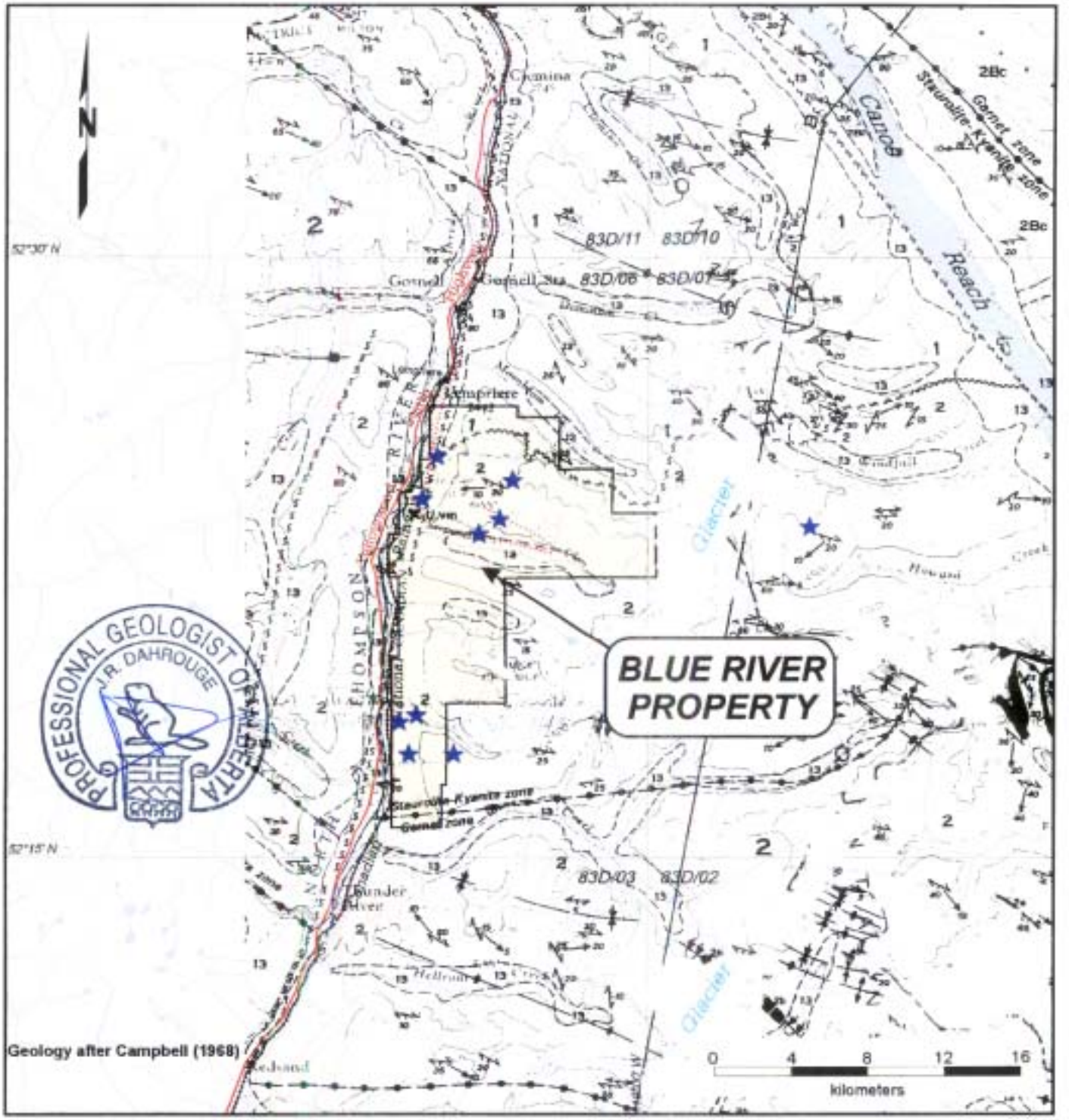

LEGEND AND SYMBOLS

★ **Carbonatite** (location approximate)

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

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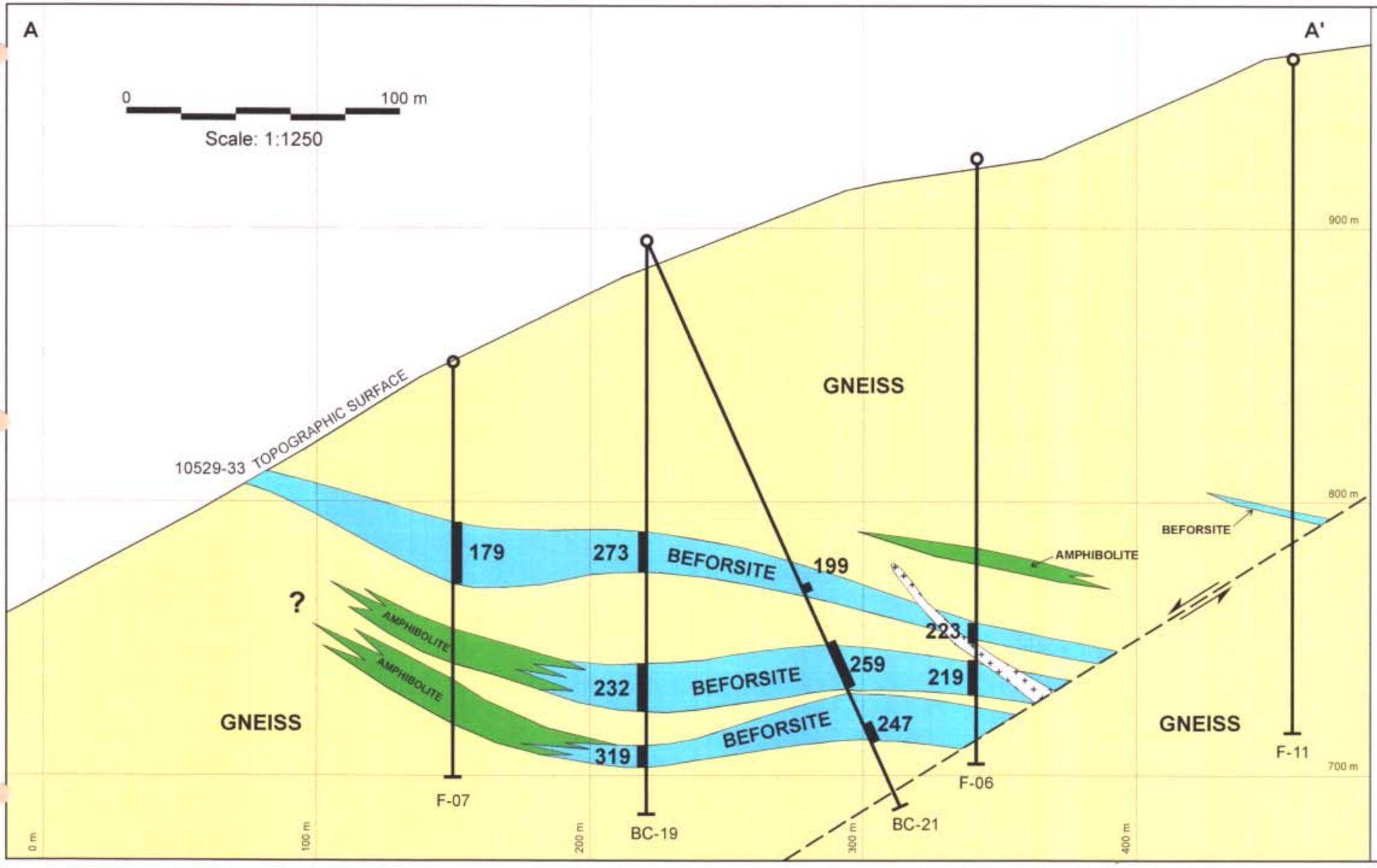
PART OF NTS MAP SHEET 83D

Fig. 2.1 Regional Geology

MDS 2003.03



SYMBOLS

- Gneiss
- Pegmatite
- Amphibolite
- Beforsite
- 209 Composite Core Sample; Ta_2O_5 (ppm)

PROFESSIONAL GEOLOGIST OF ALBERTA
R. DAHROUGE

NOTES

1) Plane of section is 76° w.r.t. grid north
2) Composite samples are grams per tonne Ta_2O_5
3) See Appendices 2A and 2B for complete analytical results
4) See Fig. 4.2 for location of section

27131
(2)

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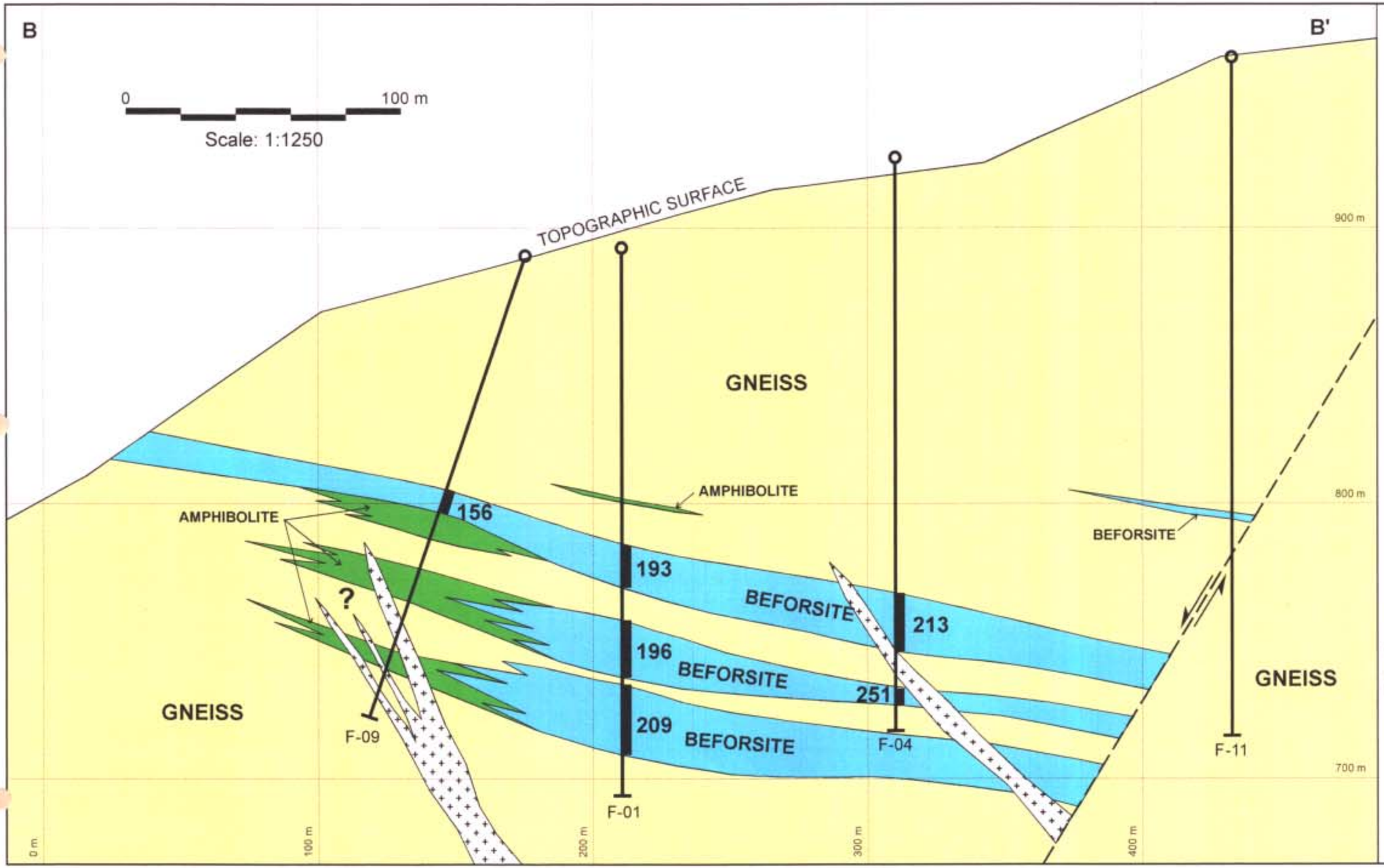
FIR PROPERTY, BLUE RIVER, B.C.

Fig. 4.3
Cross-Section A-A' Through Holes F-07, BC-19, BC-21, F-06, and F-11

WM 2003.03



SYMBOLS

- Gneiss
- Pegmatite
- Amphibolite
- Beforsite
- 209 Composite Core Sample; Ta_2O_5 (ppm)

PROFESSIONAL GEOLOGIST OF ALBERTA
J.R. DAHROUGE

NOTES

1) Plane of section is 41° w.r.t. grid north.
2) Composite samples are grams per tonne Ta_2O_5
3) See Appendices 2A and 2B for complete analytical results.
4) See Fig. 4.2 for location of section.

270/31
(3)

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FIR PROPERTY, BLUE RIVER, B.C.

Fig. 4.4
Cross-Section B-B' Through Holes F-09, F-01, F-04, and F-11

WM 2003.03

North
C

South
C'

FDDH-10

FDDH-05

FDDH-04

FDDH-06

TOPOGRAPHIC SURFACE

900.0 m

AMPHIBOLITE

AMPHIBOLITE

AMPHIBOLITE

GNEISS

GNEISS

800.0 m

261

229

215

BEFORSITE

213

223

AMPHIBOLITE

200.56

PEGMATITE

229

BEFORSITE

251

170

700.0 m

208.29

221.29

227.38

GNEISS

-100 m

0 m

100 m

200 m

0 100 m

Scale: 1:1250

SYMBOLS

- Gneiss
- Pegmatite
- Amphibolite
- Beforsite

209 Composite Core Sample; Ta_2O_5 (ppm)

PROFESSIONAL GEOLOGIST OF ALBERTA J.R. DAHROUGE

NOTES

1) Plane of section is north-south.
2) Composite samples are grams per tonne Ta_2O_5.
3) See Appendices 2A and 2B for complete analytical results.
4) See Fig. 4.2 for location of section.

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Fig. 4.5
Cross-Section C-C' Through Holes F-04, F-05, F-06, and F-10

WM 2003.03

Plate 3.1A: Lower Beforsite Sill of the Verity Carbonatite at the Specimen Pit.

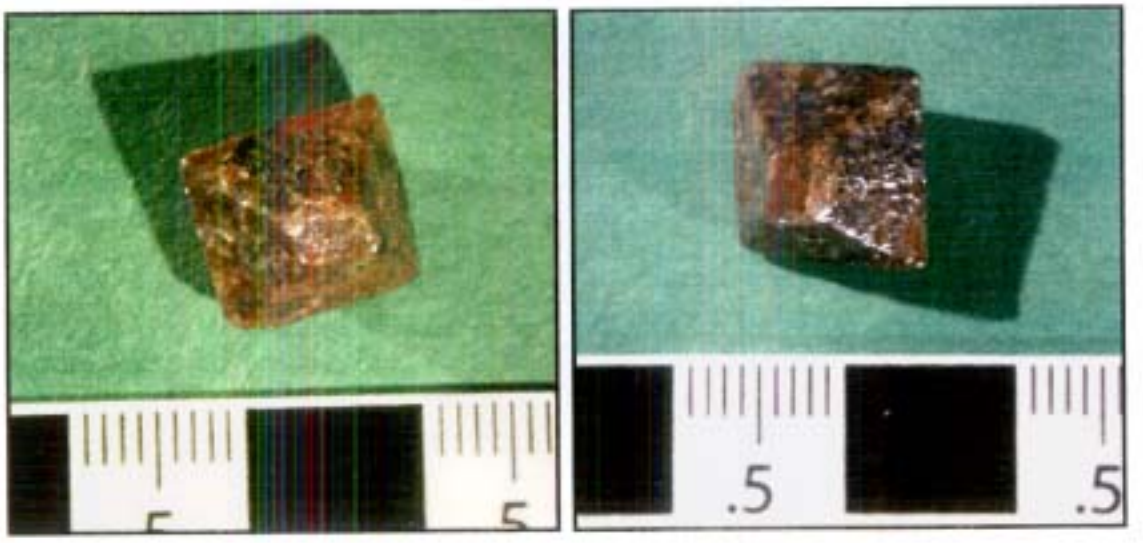


Plate 3.1B: Pyrochlore crystals from the Verity Carbonatite, Specimen Pit locality.

Plate 3.2A: Roadside Carbonatite exposed along logging road.

Plate 3.2B: Serpentine Creek Carbonatite outcrop 1, samples 13928 - 13930.

Plate 3.3A: Serpentine Creek Carbonatite outcrop 2, Sample 13938.

Plate 3.3B: Serpentine Creek Carbonatite outcrop 3, Sample 13939.

Plate 3.4A: Fir Carbonatite main showing.

Plate 3.4B: Bone Creek Carbonatite 'mud' along Gum Creek logging road, samples 13932 - 13933.

Plate 4.1A: Upper Fir Carbonatite, samples 13934 - 13935.

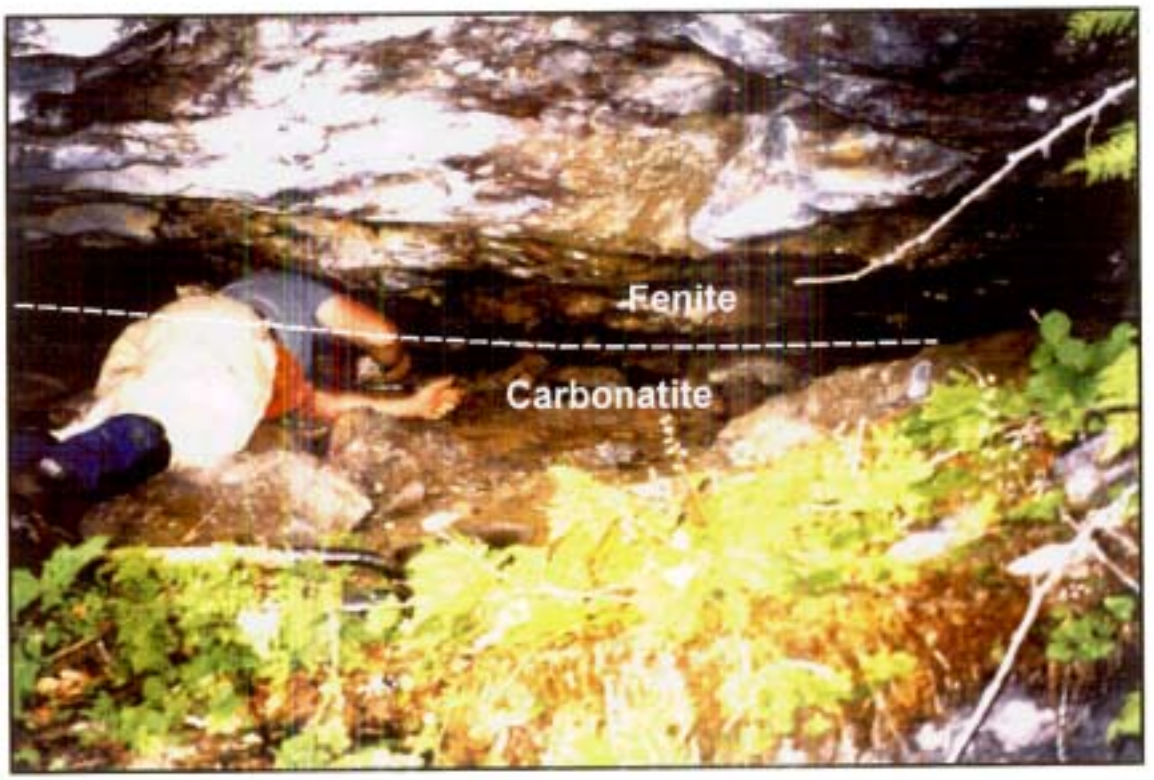


Plate 4.1B: Upper Fir Carbonatite - upper contact located ~8 m upslope from Plate 4.1A, samples 13936 - 13937.

APPENDIX 1: ITEMIZED COST STATEMENT

a) Personnel

J. Dahrouge, geologist						
2.00	days		field work and travel July 16 to 17			
15.60			arrange for contractors, project supervision, resource estimations, report preparation			
17.60	days	@	$ 481.50	$ 8,474.40		
M. Smith, geologist						
30.50	days		field work and travel July 8 to 17, and July 21 to August 10			
29.90			prepare for field work, arrange for supplies and equipment, prepare and ship samples, edit drill logs and assessment report			
60.40	days	@	$ 390.55	$ 23,589.22		
R. Grywul, geologist						
21.50	days		field work and travel from July 11 to 17, and July 21 to August 3			
21.50	days	@	$ 337.05	$ 7,246.58		
B. Gonek, assistant						
30.50	days		field work and travel July 8 to 17, and July 21 to August 10			
30.50	days	@	$ 294.25	$ 8,974.63		
W. McGuire, draftsman						
13.60	days		compiling field data; drafting; prepare and plot maps, figures and cross-sections; prepare geologic model (Gemcom)			
13.60	days	@	$ 406.60	$ 5,529.76		
					$	53,814.58

b) Food and Accommodation

85	man-days	@	$ 62.6930	accommodations and meals	$ 5,328.91	
85	man-days	@	$ 40.5316	groceries and other	$ 3,445.18	
						$ 8,774.09

c) Transportation

ATV's:	1 ATV and Trailer (24 days @ 135.36)	$ 3,248.52	
Vehicles:	Airways Truck Rentals (4x4 Truck)	$ 3,462.07	
	SUV (664 km @ 0.45)	$ 298.80	
			$ 7,009.39

d) Instrument Rental - Subcontractors

IR's:	Rock Saw and Generator Rental(s)	$ 4,068.55	
SC's:	Resource Estimations: James McCrea, P.Geo.	$ 2,760.60	
			$ 6,829.15

e) Drilling

Drilling: 898.47 m ($68.3552 per meter) of HQ Core, and Mob/Demob		
Beaupre Diamond Drilling, Princeton, B.C.	$ 61,415.09	
Drill Moves, and Drill Pad and Road Construction		
B&G Logging, Valemount, B.C.	$ 18,939.00	
Shipping and Transportation		
Byers Transportation	$ 1,420.10	
		$ 81,774.19

APPENDIX 1: CONTINUED

f) Analyses								
109	samples	@	$	19.26	XRF (Oxides, Teck Cominco Ltd.)	$	2,099.34	
109	samples	@	$	8.56	XRF (Ta, Nb, U Teck Cominco Ltd.)	$	933.04	
109	samples	@	$	5.89	XRF (Nb, Teck Cominco Ltd.)	$	641.47	
14	samples	@	$	33.71	ICP Analyses (Groups 4A and 4B, Acme)	$	471.87	
14	samples	@	$	20.92	ICP Analyses (Group 4B Repeat, Acme)	$	292.86	
14	samples	@	$	19.90	ICP Analyses (Group 1F-MS, Acme)	$	278.63	
14	samples	@	$	4.55	Rock Sample Preparation	$	63.67	
7	samples	@	$	3.69	Pan Concentrate Preparation	$	25.84	
7	samples	@	$	3.69	Silt Sample Preparation	$	25.84	
								$ 4,832.55
g) Report					Reproduction and assembly	$	58.85	
								$ 58.85
h) Other								
					Courier and Shipping	$	971.58	
					Field Equipment and Supplies	$	662.06	
					Fuel (ATV, Truck and Generator)	$	1,574.34	
					Long distance telephone	$	638.47	
					Maps	$	344.92	
					Photocopying, Plots and Reproductions	$	437.39	
					Software Rental	$	850.82	
								$ 5,479.59
Total								$ 168,572.39

APPENDIX 2A: ANALYTICAL REPORTS FOR WHOLE ROCK ANALYSES BY X-RAY FLUORESCENCE FROM TECKCOMINCO EXPLORATION LABORATORIES*

COMMERCE RESOURCES-X02
#18126-18152/#18176-18204
Job V 02-0312R
Report date: 21 AUG 2002

teckcominco

LAB NO	FIELD #	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	Ba(4)	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%
R0208275	18126	39.91	0.82	12.59	12.26	0.28	9.35	10.39	2.68	2.92	2.00	0.07	6.30	99.57
R0208276	18127	31.47	0.55	10.35	10.80	0.44	10.17	13.18	2.56	2.86	2.17	0.06	14.18	98.79
R0208277	18128	15.81	0.40	4.65	12.14	0.75	13.02	21.38	0.85	1.69	2.02	0.07	23.78	96.56
R0208278	18129	24.14	0.40	7.51	11.42	0.57	12.53	18.86	0.56	2.10	3.05	0.05	16.25	97.44
R0208279	18130	3.11	0.05	0.20	8.07	0.93	14.97	28.95	0.31	0.10	3.32	0.01	38.25	98.27
R0208280	18131	3.11	0.05	0.21	8.43	0.93	15.01	28.57	0.15	0.09	2.91	0.01	38.18	97.65
R0208281	18132	2.71	0.05	0.20	8.31	0.97	14.96	29.01	0.11	0.09	2.96	0.01	38.52	97.90
R0208282	18133	2.39	0.05	0.20	8.44	0.94	15.14	28.62	0.10	0.09	2.50	0.01	38.79	97.27
R0208283	18134	2.08	0.05	0.21	8.22	0.94	15.00	28.85	0.07	0.07	2.69	0.01	39.31	97.50
R0208284	18135	2.03	0.05	0.18	7.67	0.89	15.39	29.15	0.07	0.07	2.77	0.01	39.88	98.16
R0208285	18136	3.76	0.07	0.25	8.01	0.86	15.35	28.37	0.21	0.10	3.03	0.01	37.63	97.65
R0208286	18137	3.25	0.05	0.28	7.38	0.87	15.43	29.19	0.05	0.07	2.90	0.01	38.86	98.34
R0208287	18138	3.24	0.05	0.25	8.42	0.91	14.98	28.82	0.03	0.07	2.65	0.01	37.84	97.27
R0208288	18139	3.32	0.74	0.20	9.06	0.86	14.75	28.06	0.28	0.09	2.94	0.01	37.08	97.39
R0208289	18140	2.61	0.05	0.20	8.59	0.86	15.02	28.68	0.10	0.05	2.61	0.01	38.29	97.07
R0208290	18141	3.26	0.05	0.18	8.42	0.89	15.13	28.67	0.14	0.05	2.64	0.01	37.79	97.23
R0208291	18142	13.86	0.11	2.85	7.05	0.68	11.43	28.70	0.92	0.51	7.38	0.01	25.48	98.98
R0208292	18143	7.53	0.07	0.44	8.23	0.88	14.39	28.54	0.21	0.11	2.77	0.01	34.49	97.67
R0208293	18144	20.00	0.05	0.60	8.02	0.83	14.40	26.75	0.20	0.12	1.63	0.01	25.36	97.97
R0208294	18145	10.39	0.05	0.31	8.47	0.87	14.86	27.75	0.20	0.07	1.87	0.01	31.73	96.58
R0208295	18146	4.00	0.05	0.20	8.02	0.88	14.97	29.31	1.00	0.05	3.40	0.01	36.75	98.64
R0208296	18147	2.01	0.03	0.17	7.92	0.88	15.30	29.45	0.05	0.60	2.65	0.01	39.58	98.65
R0208297	18148	2.60	0.05	0.18	9.07	0.81	14.64	29.22	0.11	0.07	3.43	0.01	37.56	97.75
R0208298	18149	3.16	0.05	0.20	8.55	0.86	15.18	28.70	0.10	0.09	2.20	0.01	38.83	97.93
R0208299	18150	5.30	0.05	0.20	8.43	0.87	14.76	28.70	0.17	0.09	2.92	0.01	35.99	97.49
R0208300	18151	4.30	0.05	0.31	7.51	0.86	15.10	29.39	0.17	0.09	3.01	0.01	37.65	98.45
R0208301	18152	9.71	0.03	0.31	8.27	0.89	14.94	28.06	0.09	0.07	2.15	0.01	32.84	97.37

* As received by e-mail

APPENDIX 2A: CONTINUED

LAB NO	FIELD #	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	Ba(4) %	LOI %	Total %
R0208302	18176	4.05	0.05	0.25	7.32	0.70	15.51	29.04	0.50	0.09	3.43	0.01	37.36	98.31
R0208303	18177	2.21	0.05	0.20	7.42	0.82	15.47	29.53	0.33	0.05	3.43	0.01	38.97	98.49
R0208304	18178	2.16	0.05	0.17	7.30	0.75	15.28	29.67	0.31	0.05	3.95	0.01	38.54	98.24
R0208305	18179	1.70	0.05	0.17	7.01	0.76	15.17	30.15	0.28	0.05	4.26	0.01	38.77	98.38
R0208306	18180	1.87	0.05	0.15	6.98	0.75	15.14	30.39	0.27	0.05	4.48	0.01	38.38	98.52
R0208307	18181	3.49	0.05	0.17	6.84	0.79	15.22	30.23	0.07	0.07	4.17	0.01	37.68	98.79
R0208308	18182	48.84	0.02	2.92	6.90	0.57	10.98	22.37	0.97	0.10	2.96	0.01	2.70	99.34
R0208309	18183	43.81	0.02	1.75	7.15	0.63	11.85	24.69	0.55	0.12	3.56	0.01	5.17	99.31
R0208310	18185	2.94	0.05	0.25	8.27	0.82	15.01	29.23	0.14	0.09	2.84	0.01	38.34	97.99
R0208311	18186	1.53	0.05	0.20	8.68	0.83	15.31	28.71	0.18	0.05	1.77	0.01	40.74	98.06
R0208312	18187	1.96	0.05	0.21	8.42	0.82	14.72	29.28	0.21	0.07	3.26	0.01	38.61	97.62
R0208313	18188	2.60	0.05	0.20	8.43	0.83	14.60	29.43	0.17	0.07	3.68	0.01	37.65	97.72
R0208314	18189	3.59	0.05	0.31	8.03	0.83	14.48	29.62	0.14	0.18	4.38	0.01	36.00	97.62
R0208315	18190	2.54	0.03	0.25	7.71	0.85	15.13	29.61	0.14	0.05	3.66	0.01	38.04	98.02
R0208316	18191	5.82	0.14	1.29	8.22	0.75	15.26	27.13	0.15	0.87	3.50	0.01	34.77	97.91
R0208317	18192	6.17	0.11	1.34	8.06	0.88	13.01	30.17	0.10	0.67	4.38	0.01	32.79	97.69
R0208318	18193	36.20	0.01	1.37	7.44	0.86	13.30	24.27	0.33	0.15	1.74	0.01	13.19	98.87
R0208319	18194	3.30	0.05	0.28	8.26	0.86	14.94	29.13	0.18	0.10	2.33	0.01	38.75	98.19
R0208320	18195	2.46	0.05	0.20	8.07	0.82	14.75	29.61	0.25	0.07	3.63	0.01	38.41	98.33
R0208321	18196	2.21	0.05	0.18	8.27	0.86	15.02	29.29	0.17	0.07	3.32	0.01	38.49	97.94
R0208322	18197	2.82	0.05	0.17	7.80	0.81	14.15	30.40	0.23	0.09	5.69	0.01	35.79	98.01
R0208323	18198	2.98	0.05	0.21	8.00	0.94	15.27	29.25	0.05	0.05	2.96	0.01	38.02	97.79
R0208324	18199	4.78	0.05	0.23	8.27	0.95	15.13	28.37	0.12	0.05	1.61	0.01	36.97	96.54
R0208325	18200	30.68	0.07	1.12	7.19	0.67	13.35	26.43	0.28	0.18	3.19	0.01	15.72	98.89
R0208326	18201	3.00	0.05	0.17	7.34	0.87	15.09	29.97	0.07	0.05	3.75	0.01	37.56	97.93
R0208327	18202	8.92	0.07	0.64	7.01	0.81	13.35	30.76	0.15	0.34	3.52	0.01	32.04	97.62
R0208328	18203	3.32	0.05	0.17	8.03	0.94	15.27	28.78	0.10	0.05	2.74	0.01	37.66	97.12
R0208329	18204	8.97	0.07	0.63	5.67	0.81	6.34	40.00	0.01	0.25	3.16	0.01	30.36	96.28

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised

If requested analyses are not shown, results are to follow

ANALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically

Other elements by Li borate fusion/XRF. Where no FeO value shown "Fe2O3" is total Fe as Fe2O3

APPENDIX 2A:

CONTINUED

COMMERCE RESOURCES-X02
#18226-35/251-90/301-04
Job V 02-0315R
Report date: 22 AUG 2002

teckcominco

LAB NO	FIELD #	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	Ba(4)	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%
R0208366	18251	49.59	0.87	19.61	8.97	0.17	4.30	5.15	3.83	3.43	0.67	0.11	2.52	99.22
R0208367	18252	6.84	0.09	0.93	7.82	0.86	14.77	27.77	0.07	0.37	3.25	0.01	34.75	97.53
R0208368	18253	3.45	0.05	0.21	7.34	0.69	15.39	29.63	0.05	0.05	4.09	0.01	37.93	98.89
R0208369	18254	1.88	0.07	0.27	7.48	0.64	14.75	30.36	0.23	0.05	4.44	0.01	38.50	98.68
R0208370	18255	4.23	0.07	0.27	7.82	0.66	15.21	28.71	0.51	0.10	3.43	0.01	37.56	98.58
R0208371	18256	4.01	0.05	0.23	7.53	0.68	15.48	28.77	0.27	0.07	3.60	0.01	38.00	98.70
R0208372	18257	13.01	0.10	0.37	9.14	0.58	17.55	21.78	1.62	0.28	2.04	0.01	31.71	98.19
R0208373	18258	5.96	0.18	0.37	11.05	0.64	12.59	29.50	0.68	0.15	5.76	0.01	31.34	98.23
R0208374	18259	3.32	0.18	0.30	10.46	0.66	5.36	39.65	0.41	0.10	5.19	0.03	31.75	97.41
R0208375	18260	4.01	0.20	0.33	11.47	0.61	4.30	40.34	0.49	0.12	5.34	0.04	30.35	97.60
R0208376	18261	3.26	0.12	0.27	8.76	0.69	9.14	36.06	0.44	0.10	5.57	0.02	33.72	98.15
R0208377	18262	1.50	0.05	0.17	7.40	0.80	14.67	30.22	0.21	0.05	3.94	0.01	39.50	98.52
R0208378	18263	1.67	0.05	0.15	7.40	0.81	14.64	30.54	0.20	0.05	4.46	0.01	38.54	98.52
R0208379	18264	3.40	0.15	0.25	9.34	0.68	7.25	37.81	0.34	0.09	5.94	0.02	32.84	98.11
R0208380	18265	2.89	0.09	0.25	7.88	0.72	11.57	33.47	0.28	0.09	7.05	0.01	34.22	98.52
R0208381	18266	4.26	0.09	0.31	8.25	0.75	13.06	31.29	0.09	0.07	6.63	0.01	33.31	98.12
R0208382	18267	22.06	0.09	1.25	5.32	0.64	7.05	36.79	0.21	0.41	2.96	0.01	22.03	98.82
R0208383	18268	2.01	0.05	0.28	7.90	0.75	14.36	30.54	0.11	0.10	4.40	0.01	38.38	98.89
R0208384	18269	0.75	0.05	0.17	7.26	0.80	14.51	31.17	0.05	0.05	4.51	0.01	39.45	98.78
R0208385	18270	4.13	0.07	0.20	7.63	0.73	14.07	30.71	0.11	0.05	5.21	0.01	35.66	98.58
R0208386	18271	41.40	0.03	1.59	7.38	0.62	11.85	26.06	0.27	0.11	4.07	0.01	6.44	99.83
R0208387	18272	44.00	0.05	1.73	7.96	0.63	11.72	25.48	0.28	0.12	3.89	0.01	3.94	99.81
R0208388	18273	32.58	0.05	2.38	8.27	0.63	11.36	27.01	0.43	0.20	4.26	0.01	11.72	98.90
R0208389	18274	34.47	0.05	2.30	8.86	0.64	13.17	23.77	0.43	0.23	2.74	0.01	12.05	98.72
R0208390	18275	36.41	0.05	2.78	8.38	0.66	12.35	24.51	0.46	0.31	3.10	0.01	9.96	98.98
R0208391	18276	31.09	0.03	0.87	7.71	0.70	13.46	25.79	0.18	0.18	3.22	0.01	15.28	98.52
R0208392	18277	8.55	0.05	0.61	7.76	0.75	15.06	28.87	0.07	0.09	3.28	0.01	32.56	97.66
R0208393	18278	1.72	0.05	0.15	7.44	0.93	15.52	29.47	0.10	0.05	2.98	0.01	39.00	97.42

APPENDIX 2A: CONTINUED

LAB NO	FIELD #	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P205 %	Ba(4) %	LOI %	Total %
R0208394	18279	11.76	0.05	0.28	7.19	0.87	14.69	28.73	0.11	0.07	3.14	0.01	30.73	97.63
R0208395	18280	37.54	0.01	0.52	6.86	0.70	13.25	25.90	0.21	0.02	3.57	0.01	10.15	98.74
R0208396	18281	7.36	0.05	0.33	7.01	0.81	14.68	29.79	0.03	0.11	3.38	0.01	33.81	97.37
R0208397	18282	2.47	0.05	0.20	6.82	0.83	15.47	29.70	0.10	0.09	3.10	0.01	39.08	97.92
R0208398	18283	1.98	0.05	0.15	6.86	0.81	15.21	30.27	0.15	0.07	4.28	0.01	38.18	98.02
R0208399	18284	2.22	0.05	0.14	7.36	0.85	15.03	30.05	0.18	0.07	4.36	0.01	37.34	97.66
R0208400	18285	2.94	0.05	0.27	7.32	0.83	14.36	30.64	0.20	0.07	4.82	0.01	36.59	98.10
R0208401	18286	6.03	0.07	0.38	8.80	0.74	14.72	27.75	0.76	0.12	3.66	0.01	35.09	98.13
R0208402	18287	2.81	0.03	0.18	8.09	0.93	14.93	29.25	0.28	0.07	3.59	0.01	37.25	97.42
R0208403	18288	3.00	0.03	0.14	8.07	0.92	14.75	29.22	0.20	0.09	3.95	0.01	37.06	97.44
R0208404	18289	11.10	0.17	2.58	8.72	0.68	14.18	26.12	0.31	1.07	3.47	0.02	29.67	98.09
R0208405	18290	53.70	0.95	19.92	10.31	0.15	3.96	3.25	2.75	3.10	0.25	0.08	1.42	99.84
R0208406	18226	3.04	0.05	0.25	7.01	0.79	14.92	30.34	0.15	0.07	4.15	0.01	37.93	98.71
R0208407	18227	2.05	0.07	0.25	7.71	0.68	14.72	30.20	0.33	0.05	4.42	0.01	38.25	98.74
R0208408	18228	1.95	0.05	0.21	7.36	0.63	14.89	30.44	0.27	0.05	4.69	0.01	38.38	98.93
R0208409	18229	3.33	0.07	0.31	7.59	0.62	15.00	29.44	0.44	0.07	4.21	0.01	37.68	98.77
R0208410	18230	3.01	0.09	0.25	7.94	0.57	14.78	29.43	0.56	0.09	4.38	0.01	37.00	98.11
R0208411	18231	2.26	0.07	0.25	7.36	0.62	14.52	31.02	0.12	0.10	4.90	0.01	36.93	98.16
R0208412	18232	46.97	0.03	1.97	7.13	0.60	11.93	23.69	0.77	0.15	3.30	0.01	3.03	99.58
R0208413	18233	42.25	0.03	1.57	7.55	0.64	12.35	23.65	0.67	0.17	2.79	0.01	7.86	99.54
R0208414	18234	2.55	0.05	0.23	7.69	0.93	15.35	29.35	0.09	0.05	2.73	0.01	39.08	98.11
R0208415	18235	35.79	0.81	10.53	11.96	0.21	11.14	10.35	2.92	3.44	1.16	0.10	8.22	96.63
R0208416	18301	3.34	0.07	0.31	7.48	0.62	14.46	30.45	0.18	0.10	4.50	0.01	36.74	98.26
R0208417	18302	3.44	0.05	0.31	7.38	0.64	14.97	30.13	0.18	0.09	3.86	0.01	37.20	98.26
R0208418	18303	55.25	0.66	11.97	6.15	0.15	4.38	6.32	8.81	0.46	0.68	0.05	3.93	98.81
R0208419	18304	44.33	1.16	9.89	7.51	0.30	5.07	12.02	6.30	1.28	0.28	0.12	9.53	97.79

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised

If requested analyses are not shown, results are to follow

ANALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically

Other elements by Li borate fusion/XRF. Where no FeO value shown "Fe2O3" is total Fe as Fe2O3

APPENDIX 2B: ANALYTICAL REPORTS FOR TRACE ELEMENT ANALYSES BY X-RAY FLOURESCENCE FROM TECKCOMINCO EXPLORATION LABORATORIES*

COMMERCE RESOURCES-X02
#18126-18152/#18176-18204
Job V02-0312R
Report date: 21 AUG 2002

teckcominco

LAB NO	FIELD #	Ta(1) ppm	Nb ppm	U(1) ppm
R0208275	18126	6	502	3
R0208276	18127	31	1037	<3
R0208277	18128	70	1091	4
R0208278	18129	10	1318	<3
R0208279	18130	179	1745	<3
R0208280	18131	196	1776	<3
R0208281	18132	248	2345	<3
R0208282	18133	182	2264	<3
R0208283	18134	166	2612	<3
R0208284	18135	134	839	7
R0208285	18136	318	1506	4
R0208286	18137	127	488	6
R0208287	18138	105	2114	<3
R0208288	18139	192	4412	<3
R0208289	18140	125	3748	<3
R0208290	18141	84	3215	<3
R0208291	18142	104	1904	<3
R0208292	18143	186	2634	<3
R0208293	18144	86	1031	5
R0208294	18145	143	1380	3
R0208295	18146	180	1772	<3
R0208296	18147	169	959	3
R0208297	18148	358	666	<3
R0208298	18149	176	1037	<3
R0208299	18150	170	1388	3
R0208300	18151	93	704	<3
R0208301	18152	91	1119	<3
R0208302	18176	353	2147	10
R0208303	18177	176	711	15
R0208304	18178	229	784	27
R0208305	18179	140	316	32
R0208306	18180	130	392	34
R0208307	18181	104	227	22
R0208308	18182	87	121	31
R0208309	18183	66	74	33
R0208310	18185	189	416	<3
R0208311	18186	138	105	6
R0208312	18187	214	935	<3
R0208313	18188	281	1486	<3
R0208314	18189	303	2346	<3
R0208315	18190	205	1875	6
R0208316	18191	190	1190	<3
R0208317	18192	37	1001	10
R0208318	18193	56	746	6
R0208319	18194	123	581	7
R0208320	18195	182	897	13
R0208321	18196	366	2140	3
R0208322	18197	530	3255	3
R0208323	18198	157	1125	13
R0208324	18199	55	664	3
R0208325	18200	138	217	5
R0208326	18201	177	1057	<3
R0208327	18202	93	540	5
R0208328	18203	191	1405	<3
R0208329	18204	175	1249	<3

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown, results are to follow

ANALYTICAL METHODS
Ta(1) X-Ray fluorescence / pressed pellet
Nb X-Ray fluorescence / pressed pellet
U(1) X-Ray fluorescence / pressed pellet

*As received by e-mail

APPENDIX 2B: CONTINUED

COMMERCE RESOURCES-X02
#18226-35/251-90/301-04
Job V02-0315R
Report date: 22 AUG 2002

teckcominco

LAB NO	FIELD #	Ta(1) ppm	Nb ppm	U(1) ppm
R0208366	18251	6	326	4
R0208367	18252	159	1819	<3
R0208368	18253	215	489	82
R0208369	18254	103	180	53
R0208370	18255	111	180	46
R0208371	18256	115	202	43
R0208372	18257	71	154	32
R0208373	18258	267	665	48
R0208374	18259	233	576	54
R0208375	18260	228	460	50
R0208376	18261	401	1150	89
R0208377	18262	130	425	14
R0208378	18263	120	518	11
R0208379	18264	351	909	56
R0208380	18265	343	896	47
R0208381	18266	360	998	42
R0208382	18267	34	95	5
R0208383	18268	96	173	9
R0208384	18269	182	452	32
R0208385	18270	79	201	26
R0208386	18271	24	81	16
R0208387	18272	59	110	25
R0208388	18273	112	206	23
R0208389	18274	218	609	41
R0208390	18275	198	976	5
R0208391	18276	252	1684	14
R0208392	18277	138	625	4
R0208393	18278	128	879	
R0208394	18279	163	1072	5
R0208395	18280	303	1872	8
R0208396	18281	105	511	5
R0208397	18282	82	578	<3
R0208398	18283	111	580	<3
R0208399	18284	245	1616	<3
R0208400	18285	261	1601	3
R0208401	18286	172	844	10
R0208402	18287	130	1532	<3
R0208403	18288	376	3524	<3
R0208404	18289	123	849	<3
R0208405	18290	4	90	<3
R0208406	18226	170	512	28
R0208407	18227	153	224	53
R0208408	18228	115	179	66
R0208409	18229	149	179	63
R0208410	18230	211	308	105
R0208411	18231	128	178	66
R0208412	18232	66	88	52
R0208413	18233	56	64	36
R0208414	18234	104	888	<3
R0208415	18235	3	139	3
R0208416	18301	111	191	63
R0208417	18302	141	381	51
R0208418	18303	3	283	<3
R0208419	18304	3	196	<3

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown, results are to follow

ANALYTICAL METHODS
Ta(1) X-Ray fluorescence / pressed pellet
Nb X-Ray fluorescence / pressed pellet
U(1) X-Ray fluorescence / pressed pellet

APPENDIX 2C: ANALYTICAL REPORTS FOR WHOLE-ROCK AND TRACE ELEMENT ANALYSES BY ICP FROM ACME ANALYTICAL LABORATORIES LTD. FOR THE 2002 ROCK SAMPLES*

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

Commerce Resources Corp.

Acme file # A203288 Received: AUG 26 2002 * 15 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	%	%	%	%
13926	1.49	< .03	5.57	17.47	29.93	0.08	0.03	0.02	2.09	0.38	< .001	93	< 20	22	42.10	12.10	< .01	99.18
13927	1.55	0.06	1.85	1.12	52.65	0.24	0.04	0.05	2.23	0.28	< .001	450	< 20	3	38.00	10.91	0.24	98.12
13928	58.11	10.98	5.86	7.10	7.02	7.66	0.33	0.16	1.14	0.15	< .001	64	< 20	19	1.30	0.08	< .01	99.82
13929	7.46	0.51	8.90	4.95	41.57	0.51	0.20	0.37	4.74	0.19	< .001	260	< 20	20	29.70	8.24	0.16	99.14
13930	52.30	6.95	7.78	7.94	15.15	5.23	0.08	0.36	0.83	0.18	0.004	83	24	17	2.80	0.39	< .01	99.62
13931	20.56	1.74	1.87	18.49	26.01	0.21	0.59	0.09	0.11	0.10	< .001	210	29	2	30.10	8.01	0.04	99.90
RE 13931	20.45	1.72	1.87	18.55	26.19	0.20	0.58	0.09	0.11	0.10	0.001	206	47	2	30.00	8.10	0.04	99.89
13932	2.93	0.19	9.45	13.09	31.01	0.36	0.03	0.06	5.11	0.98	0.001	63	< 20	3	36.20	10.50	0.18	99.42
13933	12.65	4.46	28.09	3.19	16.20	0.46	0.13	0.13	11.66	2.43	0.006	556	218	20	19.80	3.03	0.02	99.30
13934	2.73	0.05	8.37	14.22	29.82	0.28	0.03	0.01	2.64	0.96	0.004	53	< 20	4	39.90	11.45	0.02	99.03
13935	2.53	0.04	8.37	13.85	30.35	0.27	0.04	0.01	3.18	0.96	0.002	58	< 20	4	39.30	11.23	0.01	98.92
13936	3.28	0.14	8.47	14.05	30.11	0.24	0.03	0.04	4.34	0.81	0.006	37	24	6	37.00	10.68	0.16	98.52
13937	47.03	4.94	10.31	13.29	17.55	0.54	0.45	0.21	2.20	0.50	0.002	109	68	8	2.50	0.35	< .01	99.54
13938	1.49	0.17	7.36	14.77	32.07	0.03	0.03	0.18	5.25	0.23	0.004	60	< 20	11	37.90	10.80	0.01	99.49
13939	7.50	0.05	7.18	12.80	34.70	0.07	0.06	1.72	0.47	0.17	0.005	246	40	17	34.90	9.94	0.01	99.65
STDSO-17	61.57	13.85	5.85	2.34	4.65	4.13	1.40	0.60	0.99	0.53	0.442	398	38	23	3.40	2.44	5.32	99.80

* As received by e-mail

APPENDIX 2C: CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
Commerce Resources Corp.
Acme file # A203288 Received: AUG 26 2002 * 16 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
SI	0.6	< .1	2.0	1.6	0.6	3.4	2.0	177.6	< .1	0.3	0.3	7.0	0.3	62.6	2.9	2.2	3.4	0.4	1.8	0.4	0.25	0.50	0.10	0.39	0.09	0.23	0.05	0.22	0.05
13926	19.2	0.1	2.6	< .5	1407.8	0.6	< 1	3910.5	82.3	7.0	22.0	13.0	1.0	4.2	14.7	131.1	227.4	26.9	98.3	15.3	4.23	9.17	1.07	4.81	0.61	1.27	0.16	0.82	0.10
13927	8.6	< .1	4.0	1.0	4370.0	< .5	1.0	8410.0	3.7	94.2	0.3	5.0	0.3	28.4	93.9	378.1	659.0	77.1	278.8	45.5	13.28	30.52	4.16	21.35	3.53	8.12	1.10	6.17	0.80
13928	6.3	0.1	16.5	5.3	191.0	1.9	6.0	288.3	12.5	5.5	7.3	157.0	3.0	194.5	13.6	51.0	105.8	12.1	48.4	8.4	2.51	5.26	0.75	3.79	0.60	1.27	0.17	1.14	0.15
13929	12.9	0.1	7.6	19.6	251.2	3.8	2.0	3605.8	54.4	24.4	81.7	204.0	0.5	1444.3	74.7	266.3	483.6	60.6	238.5	39.9	12.35	29.25	3.64	17.71	2.85	6.09	0.77	4.19	0.54
13930	6.3	0.3	12.5	8.8	89.0	3.1	5.0	493.8	8.9	2.2	< .1	435.0	3.4	456.8	10.2	29.5	59.5	7.6	31.2	6.3	1.77	4.12	0.57	2.64	0.43	0.93	0.14	0.99	0.17
13931	10.4	2.9	3.0	1.6	3.9	28.9	< 1	139.1	0.3	3.8	1.4	20.0	0.3	53.1	5.9	12.2	19.2	2.1	7.4	1.1	0.29	1.02	0.15	1.00	0.18	0.50	0.09	0.52	0.08
RE 13931	10.4	2.8	2.9	1.5	3.2	30.2	< 1	141.2	0.3	2.5	1.1	20.0	0.1	51.1	5.5	12.5	19.7	2.1	7.0	1.2	0.27	1.04	0.14	0.95	0.18	0.56	0.08	0.52	0.08
13932	10.4	< .1	4.1	1.1	383.9	0.5	< 1	2959.1	137.4	1.9	155.6	19.0	< .1	97.6	36.9	165.9	297.5	36.3	140.7	23.5	7.32	16.74	2.04	9.25	1.49	3.05	0.36	2.10	0.25
13933	99.1	1.0	8.2	1.7	569.0	7.7	2.0	1915.5	437.0	28.6	153.7	68.0	1.4	45.1	103.2	419.9	896.6	99.6	383.3	66.0	18.79	46.08	5.98	28.58	4.50	9.49	1.23	6.66	0.91
13934	11.4	< .1	3.3	< .5	1580.0	0.6	< 1	4906.6	110.4	5.8	2.5	< 5	1.5	2.6	26.3	141.2	253.1	30.1	111.3	18.5	5.45	12.22	1.52	7.29	1.08	2.28	0.27	1.51	0.19
13935	14.0	0.1	3.3	< .5	2482.6	1.4	< 1	5230.0	173.9	9.1	5.5	< 5	1.0	3.5	30.9	165.3	300.8	35.4	133.0	20.9	6.54	14.28	1.76	8.21	1.23	2.61	0.33	1.77	0.21
13936	14.2	< .1	4.6	< .5	4710.0	< .5	< 1	5170.0	218.0	52.4	4.7	18.0	2.7	8.9	43.1	233.8	416.4	49.8	183.2	30.5	8.77	19.39	2.35	10.95	1.69	3.55	0.43	2.10	0.27
13937	30.2	0.8	14.6	0.8	1273.8	13.6	2.0	434.3	63.6	9.3	2.1	41.0	11.7	15.9	33.6	117.0	206.9	24.0	90.1	15.6	3.79	11.07	1.49	7.71	1.29	3.11	0.42	2.17	0.31
13938	18.9	0.1	7.9	6.1	40.4	< .5	< 1	2254.3	7.2	0.5	8.0	116.0	< .1	261.4	21.3	146.8	262.1	31.4	121.3	19.8	5.37	12.01	1.42	6.46	0.89	1.43	0.19	0.97	0.11
13939	35.6	0.2	2.7	4.0	134.5	1.6	< 1	1498.4	15.0	0.1	0.5	71.0	1.7	138.3	30.0	119.8	202.7	23.5	90.4	15.1	4.83	11.45	1.44	7.49	1.16	2.41	0.30	1.55	0.21
STD SO-17	18.0	3.6	20.8	12.1	25.0	23.9	8.0	323.1	4.9	11.4	11.2	132.0	10.3	356.5	26.2	12.3	24.0	3.0	12.6	3.2	1.06	3.76	0.64	4.39	0.95	2.79	0.43	2.90	0.42

APPENDIX 2C: CONTINUED

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
Commerce Resources Corp.
Acme file # A203288 Received: AUG 26 2002 * 16 samples in this disk file.
Analysis: GROUP 1DX - 0.50 GM

ELEMENT SAMPLES	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm
SI	0.3	0.4	0.5	1.0	0.4	0.5	< .1	< .1	< .1	< .1	< .5	< .01	< .1
13926	0.1	19.9	5.6	18.0	< .1	2.5	0.4	< .1	0.1	< .1	2.7	< .01	< .1
13927	0.5	7.8	9.5	2.0	< .1	2.1	0.5	< .1	< .1	0.1	< .5	< .01	< .1
13928	0.9	2.9	1.8	12.0	3.6	4.8	< .1	< .1	< .1	< .1	1.0	0.0	< .1
13929	0.2	3.5	2.4	36.0	< .1	2.5	0.1	< .1	< .1	0.1	< .5	< .01	< .1
13930	0.7	1.7	0.7	13.0	2.6	3.3	< .1	< .1	< .1	< .1	1.8	< .01	< .1
13931	3.8	6.6	0.8	7.0	17.1	1.5	< .1	< .1	< .1	< .1	< .5	< .01	0.1
RE 13931	4.1	6.6	0.9	8.0	17.5	1.8	< .1	< .1	< .1	< .1	< .5	< .01	0.1
13932	0.5	0.9	2.4	23.0	6.4	2.0	0.3	< .1	< .1	< .1	3.4	< .01	< .1
13933	55.4	75.4	17.0	44.0	212.3	2.2	0.6	0.1	1.9	< .1	5.4	0.1	1.4
13934	0.4	1.2	3.8	32.0	2.9	1.6	0.7	0.1	0.1	0.1	1.4	< .01	< .1
13935	0.4	0.9	4.3	31.0	3.2	1.8	0.8	< .1	0.1	0.1	3.2	< .01	< .1
13936	1.8	3.5	5.5	28.0	1.9	1.9	0.5	0.1	0.1	0.1	1.5	< .01	< .1
13937	1.4	6.4	2.5	31.0	29.3	3.4	0.2	< .1	0.1	< .1	1.2	< .01	0.1
13938	0.1	6.5	2.9	16.0	5.4	2.0	0.2	< .1	0.1	0.1	1.9	< .01	< .1
13939	0.5	41.5	1.7	21.0	14.8	2.1	0.1	< .1	< .1	< .1	< .5	< .01	< .1
STANDARD DS3	9.3	129.5	34.9	163.0	38.3	31.7	6.6	4.2	5.6	0.3	21.9	0.2	1.1

APPENDIX 2D: ANALYTICAL REPORTS FOR WHOLE ROCK AND TRACE ELEMENT ANALYSES BY ICP FROM ACME ANALYTICAL LABORATORIES LTD. FOR THE 2002 STREAM SEDIMENT SAMPLES*

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

To Commerce Resources Corp.

Acme file # A201241 Received: MAY 10 2002 * 7 samples in this disk file.

Analysis: GROUP 4B

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
SI	0.7	< .1	2.3	2.1	0.7	4.5	2	170	< .1	0.5	0.3	< 5	0.4	72.9	3.4	1.8	3.5	0.44	2	0.4	0.23	0.47	0.1	0.49	0.09	0.25	< .05	0.31	0.03
15676H	6.4	1.5	8.7	5.1	18.2	42.4	< 1	143	1.4	24.2	5.8	43	4.5	174	82.5	74.3	142	15.3	60.2	11.2	1.99	9.57	1.67	10.4	2.66	8.88	1.24	8.95	1.3
15678H	10.9	1.5	8.1	7.8	178	37.4	2	154	5.6	52.7	8.7	91	7.3	289	75.8	207	337	33.9	126	19.2	2.76	15	2.15	11.8	2.48	7.82	1.09	7.93	1.17
15680H	7.5	1.6	8.3	4.8	37.5	44.5	< 1	190	1.4	15.9	2.9	56	4.2	164	23.2	56.3	99.3	10.2	40.1	6.5	1.22	5.13	0.68	3.55	0.77	2.47	0.35	2.34	0.33
15682H	10.4	1.4	8.9	5.6	107	36.9	< 1	141	7	40.3	8.8	79	6.9	203	75.1	157	262	26.5	98.2	14.9	2.34	12.6	1.87	10.8	2.5	7.95	1.18	8.08	1.18
15684H	7.1	1.2	7.1	6.8	24.5	28.8	2	115	1.4	47.1	10.1	48	6.7	237	134	143	269	29.2	114	20.3	3.02	17.4	2.79	18.4	4.22	13.5	1.93	13.3	2.02
STD SO-17	18.5	3.8	20.1	12	25.4	23.3	9	308	4.5	11.1	11.2	132	10.3	357	27.4	10.7	23.8	2.89	13.9	3.3	1.02	3.9	0.69	4.28	0.88	2.8	0.46	2.8	0.44

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

To Commerce Resources Corp.

Acme file # A201241 Received: MAY 10 2002 * 7 samples in this disk file.

Analysis: GROUP 1DX

ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	Hg	Tl	Au**
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
SI	0.2	0.7	0.5	< 1	0.6	< .5	< .1	< .1	< .1	< .1	3.5	< .01	< .1	4
15676H	1	9.5	2.1	26	11.6	1.3	< .1	< .1	0.1	< .1	1.5	0.01	0.2	2
15678H	1.6	6.3	2.6	22	10.4	2.5	< .1	< .1	0.1	< .1	10.3	0.02	0.1	260
15680H	1.3	6.6	2.6	20	9.5	1.2	< .1	< .1	0.1	< .1	0.6	0.01	0.1	4
15682H	1.8	7.4	2.6	23	11.4	2.7	< .1	< .1	0.1	< .1	< .5	0.01	0.1	< 2
15684H	1.6	9.8	2.1	20	10.6	2.2	< .1	< .1	0.4	< .1	< .5	0.01	0.1	2
STD DS3/AU-R	9.2	120	33.6	152	34.9	28.8	5.5	5	5.5	0.3	19.4	0.21	1.2	472

*As received by e-mail

APPENDIX 2D:

CONTINUED

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

To Commerce Resources Corp.

Acme file # A201242 Received: MAY 10 2002 * 7 samples in this disk file.

Analysis: GROUP 4B

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
SI	4.6	4.9	20.6	4.5	20.9	120	14	808	1.5	7.7	2.8	52	1.5	143	17.8	30.8	57.9	6.22	24.3	3.6	0.98	3.34	0.44	2.72	0.58	1.59	0.28	1.83	0.36
15677S	14	3.3	19.4	18.2	28.5	82.2	14	172	2.3	66	14.8	73	1.8	636	108	220	416	46.6	187	31.9	4.24	24.6	3.38	19.7	3.64	10.2	1.53	9.61	1.44
15679S	22.9	3.3	18.2	12.4	77.9	71.9	7	204	1.9	49.6	10.2	81	4	433	95.7	203	352	37.4	144	24	3.3	18.8	2.76	16	3.24	9.38	1.39	8.92	1.32
15681S	14.3	3.8	19.6	9.6	40.7	80.7	11	238	1.7	24.6	5.7	89	1.8	310	56.2	98.1	174	19.4	74.5	13.2	2.51	9.87	1.58	9.63	1.86	5.39	0.81	5.07	0.79
15683S	18.6	3.7	21.1	10.7	49.7	81.1	6	263	2.4	43.1	6.9	95	1.5	353	62.9	161	290	31.6	119	20.1	3.11	15.5	2.27	11.9	2.16	5.77	0.87	5.65	0.84
15685S	13.5	1.5	15.4	23.3	64.8	37.4	4	166	5	131	24.2	63	4.2	771	187	425	796	89	374	57	6.93	43.9	5.91	32.7	6.4	18.1	2.78	18.4	2.69
STD SO-17	18.6	4.2	21.4	13.1	26.2	24	9	310	4.6	12.1	10.9	132	10.7	366	27.3	11.4	24.6	3	13.7	3.6	1.03	3.81	0.65	4.1	0.97	2.8	0.44	2.82	0.45

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

To Commerce Resources Corp.

Acme file # A201242 Received: MAY 10 2002 * 7 samples in this disk file.

Analysis: GROUP 1DX

ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au	Hg	Tl	Au**
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
SI	1.4	0.6	2.6	40	4.8	0.5	< .1	< .1	0.1	< .1	1.9	< .01	0.3	4
15677S	0.6	39	4.2	45	24.8	1	0.1	< .1	0.2	< .1	1.3	0.02	0.3	< 2
15679S	1.2	22.5	7.5	59	25.9	1.5	0.2	< .1	0.2	0.1	< .5	0.04	0.3	< 2
15681S	1.2	19.8	7.2	54	23.9	1.6	0.2	< .1	0.2	0.1	< .5	0.04	0.3	< 2
15683S	1.4	17.8	7.1	54	25.2	1.8	0.1	< .1	0.2	< .1	< .5	0.03	0.3	3
15685S	0.5	15	2.8	21	10.8	1.8	< .1	< .1	0.2	< .1	1.4	< .01	0.2	4
STD DS3/AU-S	9.2	126	35.3	152	34.9	28.8	5.5	4.9	5.5	0.3	20.3	0.21	1.2	49

APPENDIX 2D: CONTINUED

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

Commerce Resources Corp.

Acme file # A203289 Received: AUG 26 2002 * 8 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	Ti	B	Al	Na	K
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%
12451H	2.31	17	4.25	32.1	18	24.5	10.9	906	2.76	0.7	17.3	< .2	110	73.5	0.09	0.05	0.21	36	0.71	0.25	475	42	0.57	252	0.14	1	1.18	0.06	0.41
12455H	0.91	13.7	2.78	38.8	24	21.4	12.1	675	4.62	1	3.5	1.3	21.1	269	0.07	0.05	0.17	125	2.99	1.02	138	44.2	0.78	95.3	0.04	< 1	1.27	0.08	0.4
12457H	1.09	6.7	3.12	29	< 2	14.2	5.1	443	1.94	0.9	6.8	< .2	60.3	6.5	0.06	0.04	0.14	44	0.54	0.05	206	30.3	0.49	44.7	0.21	1	0.86	0.05	0.21
12459H	1.1	11.1	3.32	29	2	15.6	7.4	378	2.04	0.9	4.7	1.7	37.1	87.6	0.05	0.02	0.17	44	0.68	0.17	241	34	0.52	75.2	0.14	1	0.87	0.06	0.25
12461H	1.59	22	7.17	73.6	7	29.9	34.6	1526	3.67	1.1	8.4	< .2	50.6	17.8	0.11	0.04	0.34	46	0.31	0.07	228	46.1	0.85	146	0.2	2	2.29	0.04	0.58
12463H	0.98	8.84	3.71	27.6	12	23.3	9.5	688	2.18	1	9.9	0.3	61.6	14.7	0.07	0.04	0.19	34	0.57	0.07	237	48.6	0.61	53	0.19	2	1.17	0.06	0.26
12465H	0.99	13.3	3.97	27.4	11	19.9	13.1	856	2.38	1.1	12.5	0.4	79.9	11.7	0.09	0.04	0.2	26	0.3	0.07	298	28.4	0.46	60.4	0.12	1	1.07	0.03	0.29
STD DS4	6.63	129	30.4	155	306	36.9	11.6	793	3.15	23.6	5.8	26.1	3.8	29.1	4.99	5.13	5.15	78	0.54	0.1	16.2	171	0.59	145	0.09	2	1.78	0.03	0.18

ELEMENT	W	Sc	Tl	S	Hg	Se	Te	Ga	Ta	Nb	Zr	Ce	Sample
SAMPLES	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	gm
12451H	2.2	5.2	0.12	0.02	< 5	0.5	< .02	2.8	14.3	341.3	#####	2453.8	30
12455H	0.3	5.4	0.1	0.01	< 5	0.4	0.04	5.6	84.2	883.2	#####	740.7	30
12457H	2.2	4.1	0.08	0.08	< 5	0.4	< .02	3.9	6.5	162.9	482.0	903.3	30
12459H	0.9	3.6	0.09	0.03	< 5	0.4	0.02	3.8	7.3	298.4	754.0	1145.7	30
12461H	0.9	7.2	0.21	< .01	10	0.5	< .02	7.2	4.6	115.8	483.8	1072.7	30
12463H	0.2	4.4	0.08	0.02	6	0.4	< .02	4.3	5.5	105.1	565.3	1161.9	30
12465H	0.2	4.3	0.12	0.01	5	0.5	< .02	3.5	5.3	113.9	576.5	1512.0	30
STD DS4	3.7	3.6	1.03	0.04	277	1.3	0.74	6.6	4.5	12	357.0	23.8	30

APPENDIX 2D:

CONTINUED

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

To Commerce Resources Corp.

Acme file # A203290 Received: AUG 26 2002 * 9 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	Ti	B	Al	Na	K
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%
G-1	0.98	2.1	0.72	0.9	5	0.9	0.1	12	0.12	< .1	< .1	1.6	< .1	4.1	0.02	0.02	< .02	< 2	0.27	0	< .5	4	0.01	5.9	0	< 1	0.02	0.9	0.01
12452S	2.25	39.1	7.52	66.6	52	62.1	23.5	521	3.48	5.7	3.6	1.2	11.6	93.3	0.21	0.06	0.33	50	0.72	0.1	55.8	51	1.05	238	0.19	1	2.08	0.04	0.89
12456S	1.03	35.7	5.43	81.1	55	49	21.3	807	4.03	5.7	11.6	1.3	5.3	157	0.08	0.05	0.19	78	1.41	0.35	51.4	72.9	1.56	261	0.18	1	2.56	0.05	0.94
12458S	1.35	15.7	4.97	30.3	84	30.8	7.5	253	1.68	3.2	1.4	0.9	4.3	38.4	0.4	0.08	0.12	28	1.04	0.07	21.3	27.5	0.48	57.1	0.1	2	1.04	0.03	0.28
12460S	1.63	25.9	7.5	49.7	66	34.3	12.1	467	2.48	4.5	1.5	0.7	5.1	32.5	0.35	0.06	0.22	45	0.71	0.08	30.8	47.3	0.68	142	0.14	1	1.68	0.04	0.48
12462S	1.96	46.6	12.5	87.4	203	38.2	61	1667	3.39	3.4	1.7	1.2	2.3	31.2	0.31	0.06	0.29	43	0.37	0.08	19.1	38.8	0.71	171	0.12	3	3.38	0.02	0.5
12464S	1.19	25.9	6.53	37.2	128	29.9	22	494	2.09	5.4	2.2	1.1	5.7	16.9	0.45	0.07	0.15	33	0.34	0.08	37.2	36.2	0.52	74.4	0.1	2	1.8	0.04	0.35
12466S	2.2	55.6	14.5	72.1	166	65.6	78.4	1596	4.36	4.2	1.5	1.4	1.6	32.7	0.7	0.12	0.53	41	0.52	0.1	13.8	36	0.71	176	0.13	3	2.26	0.02	0.57
STD DS4	6.72	128	29	140	283	35.6	11.7	757	3.25	24.5	5.9	25.7	4	25.9	5.13	4.73	4.68	84	0.6	0.09	17.2	166	0.59	138	0.1	2	1.89	0.03	0.18

ELEMENT	W	Sc	Tl	S	Hg	Se	Te	Ga	Ta	Nb	Zr	Ce	Sample
SAMPLES	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	gm
G-1	0.2	0.1	0.02	< .01	8	0.1	< .02	0.1	<.1	0.7	72.9	3.5	7.5
12452S	0.3	4.3	0.41	0.11	42	1.2	0.03	7.6	2.8	53.3	435.7	447.9	30
12456S	0.1	5.6	0.37	0.05	28	2	0.05	9.8	9.2	125.0	331.0	223.7	30
12458S	0.6	2.6	0.17	0.1	41	4.2	< .02	4.1	1.4	20.7	177.7	120.8	15
12460S	0.2	3.6	0.28	0.06	48	1.8	< .02	6.3	1.4	31.8	256.3	155.3	30
12462S	0.1	3.7	0.4	0.12	129	0.8	0.02	7.5	1.0	17.8	149.2	94.1	15
12464S	0.2	2.7	0.23	0.13	73	1.1	< .02	5.3	1.4	19.5	223.5	228.2	15
12466S	0.1	3.6	0.58	0.2	129	2.6	0.07	6.7	0.9	14.3	125.9	106.3	7.5
STD DS4	3.7	3.8	1.17	0.07	285	1.4	0.68	6.6	4.5	12	357.0	23.8	30

APPENDIX 2E: ANALYTICAL REPORT FOR CHECK ANALYSES BY ICP FROM ACME ANALYTICAL LABORATORIES LTD.*

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

Commerce Resources Corp.
Acme file # A203925 Received: SEP 20 2002 * 11 samples in this disk file.

ELEMENT SAMPLES	Nb ppm	Ta ppm	U ppm
18132	2453.1	250.6	5.5
18144	940.1	70.1	1.5
18192	1025.2	54.2	0.8
18197	3111	431.9	22.8
18226	456.9	154.2	52.2
18235	144.8	4.9	0.2
18252	1786.8	178.8	5.4
18261	1260.6	401.3	169.2
RE 18261	1229.5	399.5	163.5
18285	1540.6	230.1	11.9
18290	97.6	8.1	2.6
STD SO-17	25.2	4.8	11

*As received by e-mail

APPENDIX 3A: **LOCATIONS AND DESCRIPTIONS OF THE 2002 ROCK SAMPLES FROM THE BLUE RIVER PROPERTY***

Notes: UTM Coordinates are NAD 83; Ta_2O_5 = Ta x 1.2210; Nb_2O_5 = Nb x 1.4305.

Sample Number	UTM Easting	UTM Northing	Sample Type	Description	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	P_2O_5 (%)
				NORTHERN CARBONATITES			
13926	355902	5808853	grab	Switch Creek carbonatite (part of Verity trace)	100.5	2013.9	2.09
13927	356700	5805742	float	Serpentine Creek Carbonatite: blocks of float	4.5	6251.4	2.23
13928	356374	5805660	grab	Serpentine Creek: north fenite contact	15.3	273.2	1.14
13929	356374	5805660	grab	Serpentine Creek Carbonatite: outcrop 1	66.4	359.3	4.74
13930	356374	5805660	grab	Serpentine Creek: south fenite contact	10.9	127.3	0.83
13938	355452	5805895	grab	Serpentine Creek Carbonatite: outcrop 2	8.8	57.8	5.25
13939	356076	5805635	grab	Serpentine Creek Carbonatite: outcrop 3	18.3	192.4	0.47
				SOUTHERN CARBONATITES			
13931	352128	5796417	grab	Little Bone "Carbonatite": thin calc-silicate horizon	0.4	5.6	0.11
13932	352372	5796367	float	Bone Creek Carbonatite blocks	167.8	549.2	5.11
13933	352372	5796367	grab	Bone Creek Carbonatite weathered mud	533.6	814.0	11.66
13934	353087	5797667	grab	Upper Fir Carbonatite: blocks under tree	134.8	2260.2	2.64
13935	353087	5797667	grab	Upper Fir Carbonatite: blocks under tree	212.3	3551.4	3.18
13936	353087	5797677	grab	Upper Fir Carbonatite: upper contact with gneiss	266.2	6737.8	4.34
13937	353087	5797677	grab	Upper Fir Carbonatite: fenite	77.7	1822.2	2.20

*See Appendix 2C for complete analytical results

APPENDIX 3B: LOCATIONS AND CONCENTRATIONS OF THE 2002 STREAM SEDIMENT SAMPLES FROM THE BLUE RIVER PROPERTY*

Note: UTM Coordinates are NAD 83.

Sample	UTM		Sample	Constituent Concentrations (ppm)						
Number	Easting	Northing	Type	Ta	Nb	Ce	Sr	Th	U	Zr
15676H	353600	5802745	pancon	1.4	18.2	141.8	142.9	24.2	5.8	173.7
15677S	353600	5802745	silt	2.3	28.5	415.7	172.4	66.0	14.8	635.6
15678H	353213	5801470	pancon	5.6	178.1	336.8	154.0	52.7	8.7	288.8
15679S	353213	5801470	silt	1.9	77.9	351.5	203.9	49.6	10.2	433.4
15680H	353068	5801398	pancon	1.4	37.5	99.3	189.8	15.9	2.9	163.6
15681S	353068	5801398	silt	1.7	40.7	174.0	238.4	24.6	5.7	310.1
15682H	352684	5801480	pancon	7.0	107.2	261.8	141.2	40.3	8.8	202.9
15683S	352684	5801480	silt	2.4	49.7	290.1	262.5	43.1	6.9	353.2
15684H	352927	5802775	pancon	1.4	24.5	268.8	114.7	47.1	10.1	237.3
15685S	352927	5802775	silt	5.0	64.8	795.9	166.0	131.3	24.2	771.4
12451H	352632	5798127	pancon	14.3	341.3	2453.8	73.5	109.5	17.3	1058.0
12452S	352632	5798127	silt	2.8	53.3	447.9	93.3	11.6	3.6	435.7
12455H	356748	5805458	pancon	84.2	883.2	740.7	268.7	21.1	3.5	1121.1
12456S	356748	5805458	silt	9.2	125.0	223.7	156.7	5.3	11.6	331.0
12457H	353506	5799439	pancon	6.5	162.9	903.3	6.5	60.3	6.8	482.0
12458S	353506	5799439	silt	1.4	20.7	120.8	38.4	4.3	1.4	177.7
12459H	352904	5799481	pancon	7.3	298.4	1145.7	87.6	37.1	4.7	754.0
12460S	352904	5799481	silt	1.4	31.8	155.3	32.5	5.1	1.5	256.3
12461H	352398	5804322	pancon	4.6	115.8	1072.7	17.8	50.6	8.4	483.8
12462S	352398	5804322	silt	1.0	17.8	94.1	31.2	2.3	1.7	149.2
12463H	353852	5831423	pancon	5.5	105.1	1161.9	14.7	61.6	9.9	565.3
12464S	353852	5831423	silt	1.4	19.5	228.2	16.9	5.7	2.2	223.5
12465H	353852	5801443	pancon	1.7	113.9	1512.0	11.7	79.9	12.5	668.3
12466S	353852	5801443	silt	0.9	14.3	106.3	32.7	1.6	1.5	125.9

* See Appendix 2D for complete analytical results

APPENDIX 4A: LITHOLOGICAL LOGS FOR THE 2002 DRILL HOLES

Notes: Analytical results were determined by X-Ray Fluorescence by TeckCominco Exploration Laboratories (Appendices 2A and 2B).
Ta_2O_5 = Ta x 1.2210; Nb_2O_5 = Nb x 1.4305.

Company: Commerce Resources Corp. | **Date Started:** July 20, 2002 | **Core Size:** HQ
Project: Fir Drilling 2002 | **Date Finished:** July 22, 2002 | **Depth:** 151.79 m
Claim: FIR 8 | **Logged By:** Mark Smith
Hole No.: FDDH-7 | **Bearing:** NA | **Co-ordinates (UTM NAD83)** Easting (m): 351940 E
Page: 1 of 3 | **Inclination:** -90° | Northing (m): 5797588 N

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
0.00	7.82	Overburden										
7.32	49.85	**Gneiss:** light-grey, rusty weathered, fine- to medium-grained primarily composed of quartz-biotite-plagioclase, weak foliation, 55° ACA minor qtz veins (1-5 cm) present throughout 20.50 - 21.60 m: higher mica content, strong foliation 75° ACA 21.70 m: trace amounts of light pink garnet, 1 cm in size 24.00 m: qtz veining (15 cm) with pyrrhotite-muscovite, 70° ACA 29.10 - 30.07 m: qtz vein with pyrrhotite stringers along fractures 30.50 m: "eye-ball" fold structures present, foliation 75° ACA 32.71 m: garnet-rich zone (5%), 0.5-1 cm grains, gneiss greener in color biotite-garnet-rich 1 cm contacts, 70° ACA 34.60 m: small scale folding, appears stretched by later event 40.00 - 41.00 m: biotite-chlorite-rich zone, very soft clayey material golden-brown mica present (phlogopite?), some epidote foliation 75° ACA, possilbe minor fault zone 41.80 m: garnet-rich zone, pink in color, grains mm to cm size 45.60 m: foliation 60° ACA 46.61 m: qtz veining (1 - 30 cm), pyrrhotite along fractures large garnets present (2-3 cm), stretched out along foliation										
49.85	50.12	**Carbonatite-Beforsite:** milky-white color, med-coarse-grained apatite (1-2%) 1-2 mm in size, pyrrhotite along fractures upper contact 70° ACA, 4 cm fenite/shear zone, carbonate-healed *lower contact 60° ACA, 30 cm fenite zone, irregular contact*	18129	49.77	50.47	0.70	18.86	12.53	12	1885	<3	3.05
50.12	58.40	**Gneiss:** light grey color, fine-grained, qtz-biotite foliation 80° ACA, minor qtz veining										

APPENDIX 4A: **CONTINUED**

Hole No.: FDDH-7
Page: 2 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		50.90 m: **Carbonatite** 1 cm thick with 4 cm fenite zone										
		51.80 m: biotite-chlorite shear zone 15 cm, rotated garnets (1-2 cm)										
		52.00 m: gneiss more garnetiferous, foliation 40° ACA, biot-chl zones abundant qtz veins/stringers mm to cm sized, foliation parallel										
		53.90 m: **Carbonatite** 7 cm thick with 8 cm fenite zone possible small shear zone, minor green amphiboles, contact 45° ACA	18126	53.87	54.68	0.81	10.39	9.35	7	718	3	2.00
		54.24 m: amphibole-rich zone 30 cm										
		54.50 m: **Carbonatite** 8 cm thick										
		54.68 m: strong foliation 40° ACA with abundant 1 cm qtz veins/stringers										
		55.24 m: **Carbonatite** 6 cm thick	18127	55.15	55.98	0.83	13.18	10.17	38	1483	<3	2.17
		55.70 m: **Carbonatite** 25 cm thick, minor phlogopite and trace apatite										
		57.60 m: **Carbonatite** 40 cm thick, pyrrhotite blebs, contacts 50° ACA	18128	57.54	59.16	1.62	21.38	13.02	85	1561	4	2.02
58.40	81.18	**Carbonatite-Beforsite:** milkly-white color, coarse-grained	18130	59.16	60.00	0.84	28.95	14.97	219	2496	<3	3.32
		broken-up "cataclastic" texture, grains 0.5-3 cm in size	18131	60.00	61.00	1.00	28.57	15.01	239	2541	<3	2.91
		fractures mainly 50-70° ACA, no distinct foliation	18132	61.00	62.00	1.00	29.01	14.96	303	3355	<3	2.96
		coarser zones tend to have less accessory minerals (amph+apatite)	18133	62.00	63.00	1.00	28.62	15.14	222	3239	<3	2.50
		apatite (5-12%) 1-2 mm, clear in color, difficult to identify	18134	63.00	64.00	1.00	28.85	15.00	203	3737	<3	2.69
		amphiboles (10-12%) 0.5 mm, green-blue color (richterite)	18135	64.00	65.00	1.00	29.15	15.39	164	1200	7	2.77
		pyrite-pyrrhotite stringers common along the fractures	18136	65.00	66.00	1.00	28.37	15.35	388	2154	4	3.03
		magnetite-pyrochlore-ferrocolumbite (<1%) blebs 1-2 mm in size	18137	66.00	67.00	1.00	29.19	15.43	155	698	6	2.90
		upper contact 45° ACA, amphibole-sulfide-rich zone	18138	67.00	68.00	1.00	28.82	14.98	128	3024	<3	2.65
		lower contact has green clayey mica (chlorite), fault gouge?	18139	68.00	69.00	1.00	28.06	14.75	234	6311	<3	2.94
			18140	69.00	70.00	1.00	28.68	15.02	153	5362	<3	2.61
		64.20 m: coarse 1-3 cm clots of amphibole-phlogopite	18141	70.00	71.00	1.00	28.67	15.13	103	4599	<3	2.64
		65.50 - 66.25 m: fine-grained, massive looking, not broken-up	18142	71.00	72.00	1.00	28.70	11.43	127	2724	<3	7.38
		apatites (~15%) up to 0.5 mm	18143	72.00	73.00	1.00	28.54	14.39	227	3768	<3	2.77
		67.00 - 71.00 m: foliation more evident in 1 cm amphiboles, 45° ACA	18144	73.00	74.00	1.00	26.75	14.40	105	1475	5	1.63
		pyrite blebs up to cm in size	18145	74.00	75.00	1.00	27.75	14.86	175	1974	3	1.87
		71.70 - 72.50 m: altered green gneissic clasts, brecciated	18146	75.00	76.00	1.00	29.31	14.97	220	2535	<3	3.40
		green amphiboles-epidote-plagioclase, biotite-rich, qtz veins	18147	76.00	77.00	1.00	29.45	15.30	206	1372	3	2.65
		73.10 - 73.55 m: altered green gneissic clasts, brecciated	18148	77.00	78.00	1.00	29.22	14.64	437	953	<3	3.43
		minor 5 cm altered clasts, pyrite stringers	18149	78.00	79.00	1.00	28.70	15.18	215	1483	<3	2.20
		75.00 - 81.00 m: less mag-pyro-clmb blebs and apatite	18150	79.00	80.00	1.00	28.70	14.76	208	1986	3	2.92
		81.00 - 81.18 m: fine-grained, mag-pyro-clmb blebs present	18151	80.00	81.18	1.18	29.39	15.10	114	1007	<3	3.01
81.18	81.57	**Gneiss-fenite:** alteration zone with some possible fault gouge										

APPENDIX 4A: CONTINUED

Hole No.: FDDH-7
Page: 3 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
81.57	83.70	**Pegmatite:** grey-white color, coarse-grained qtz-plagioclase with minor biotite-muscovite-garnet										
83.70	94.46	**Gneiss:** grey-white color, fine-medium-grained, qtz-biotite-plagioclase strongly foliated 70° ACA, minor qtz veining in places garnet-rich (5-10%), grains up to 4 cm in size 87.14 - 87.84 m: **Pegmatite**, qtz-feldspar										
94.46	97.55	**Pegmatite:** coarse-grained, qtz-plag-biotite, contact 85° ACA										
97.55	110.35	**Amphibolite:** green-white color, coarse-grained amphibole-qtz-pyroxene in composition - sedimentary origin coarse 0.5 mm pyroxene grains altered to amphibole in places well foliated 60° ACA, minor qtz infilling along fractures										
110.35	116.12	**Gneiss:** light grey color, fine-medium-grained, qtz-biot-plag-garnet garnets mm-cm in size, minor pyrite, thin cm sized qtz veins strong foliation 70° ACA										
116.12	132.56	**Amphibolite:** green-white color, med-grained, qtz-amph-biot foliation 30-50° ACA, interlayered with pegmatites 116.12 m: **Pegmatite** 30 cm thick, qtz-rich (>60%) 116.60 m: **Pegmatite** 100 cm thick 123.42 m: **Pegmatite** 120 cm thick 127.46 m: soft clayey material, small shear zone? thin zones of biotite-actinolite alteration, interbedded amph-gneiss 132.00: foliation 68° ACA										
132.56	151.79	**Gneiss:** grey-white color, fine-med-grained, qtz-biotite well foliated 70-80° ACA, minor qtz veining 20-30 cm, epidote present 145.69 m: garnets present (1-2%) 148.30 m: **Pegmatite** 30 cm thick qtz-plag-biot-pyrite										
	151.79	E.O.H.										

APPENDIX 4A: CONTINUED

Company: Commerce Resources Corp.
Project: Fir Drilling 2002
Claim: FIR 8

Hole No.: FDDH-8
Page: 1 of 3

Date Started: July 22, 2002
Date Finished: July 24, 2002
Logged By: Mark Smith

Bearing: NA
Inclination: -90°

Core Size: HQ
Depth: 121.30 m

Co-ordinates (UTM NAD83)
Easting (m): 351935 E
Northing (m): 5797676 N

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
0.00	1.52	Overburden										
1.52	52.28	**Gneiss:** light grey, medium-grained, qtz-biotite-plagioclase well foliated 50-60° ACA, very qtz-rich 13.00 - 14.00 m: hornblende-rich zone with qtz-biotite 16.00 m: foliation 75° ACA with qtz stringers 25.20 - 28.40 m: green color, actinolite-biotite-phlogite(?) rich zone med-coarse-grained, strong foliation 52° ACA gradational bottom "contact" with grey gneiss 28.93 - 32.00 m: amphibole-rich, pink 0.5-2cm garnets (3-5%), pyrite 35.35 - 37.18 m: amphibole-rich, strong foliation, pyrite 37.18 m: **Pegmatite** 50 cm thick 38.00 - 44.50 m: green color, qtz-biot-phlogopite(?), coarser-grained foliation 80-85° ACA 44.50 - 52.28 m: schistose unit, abundant muscovite present garnets 1-2 mm in size, small qtz boudins present well-foliated 70° ACA										
52.28	67.60	**Carbonatite-Beforsite:** milky-white, med-grained, massive apatite (10-15%) mm to cm in size, green color, rare zones up to 20% green-blue amphibole (richterite) (10-15%) 1-5 mm, aligned pyrrhotite-pyrite fracture fill stringers along with phlogopite/biotite magnetite-pyrochlore-ferrocolumbite (1%) red-brown blebs upper contact no alteration, minor boudins lower contact 60° ACA, 20 cm of biot-phl-amph fenite alteration 57.43 - 67.60 m: broken-up, "cataclastic" texture, coarser-grained apatite (5-10%) clear color, abundant pyrite-pyrrhotite 58.36 m: altered gneissic clasts, coarse amphiboles, epidote-chlorite 66.00 m: higher apatite content (20%), green color 67.00 - 67.60 m: finer-grained "cataclastic" texture, more fractures	18176	52.28	53.00	0.72	29.04	15.51	431	3071	10	3.43
			18177	53.00	54.00	1.00	29.53	15.47	215	1017	15	3.43
			18178	54.00	55.00	1.00	29.67	15.28	280	1122	27	3.95
			18179	55.00	56.00	1.00	30.15	15.17	171	452	32	4.26
			18180	56.00	57.00	1.00	30.39	15.14	159	561	34	4.48
			18181	57.00	58.36	1.36	30.23	15.22	127	325	22	4.17
			18182	58.36	59.00	0.64	22.37	10.98	106	173	31	2.96
			18183	59.00	60.00	1.00	24.69	11.85	81	106	33	3.56
			18200	60.00	60.61	0.61	26.43	13.35	169	310	5	3.19
			18185	60.61	62.00	1.39	29.23	15.01	231	595	<3	2.84
			18186	62.00	63.00	1.00	28.71	15.31	169	150	6	1.77
			18187	63.00	64.00	1.00	29.28	14.72	261	1338	<3	3.26
			18188	64.00	65.00	1.00	29.43	14.60	343	2126	<3	3.68
			18189	65.00	66.00	1.00	29.62	14.48	370	3356	<3	4.38

APPENDIX 4A: CONTINUED

Hole No.: FDDH-8
Page: 2 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
			18190	66.00	67.00	1.00	29.61	15.13	250	2682	6	3.66
			18191	67.00	67.67	0.67	27.13	15.26	232	1702	<3	3.50
67.60	72.10	**Gneiss:** light-grey, medium-grained, qtz-biot-plagioclase upper 2 m highly altered, structural contact with carbonatite(?) foliation 55° ACA, broken-up qtz-pyrrhotite veinlets up to 20%										
72.10	76.00	**Amphibolite:** green, coarse-grained, qtz-amph-biot, py-po										
76.00	93.87	**Gneiss:** light-grey, medium-grained, qtz-biot-plagioclase strongly banded, alternation light/dark layers, foliation 55° ACA 77.00 m: **Amphibolite** layer 40 cm thick 77.40 m: garnets mm-3 cm in size, pink, deformed 81.33 m: **Pegmatite** 30 cm thick 84.73 m: poor recovery of core, bits of gneiss and pegmatite 87.90 m: large 2-5 cm deformed garnets, foliation 60° ACA 93.87 m: poor recovery of core											
93.87	94.70	**Pegmatite:** white, coarse-grained, qtz-feldspar-biot-chlorite										
94.70	100.60	**Gneiss:** light-grey, medium-grained, qtz-biot-plag-muscovite well-defined banding, foliation 70° ACA lower contact very altered and micaceous, biotite-chlorite 89.80 m: **Pegmatite** 20 cm thick 91.22 - 91.55 m: large cm sized garnets 89.80 m: **Pegmatite** 20 cm thick 91.22 - 91.55 m: large cm sized garnets small-scale "S", "M" and "Z" folds, axial plane parallel to foliation 91.55 m: **Pegmatite** 20 cm thick 98.50 - 98.76 m: **Carbonatite**, broken-up texture, trace sulfides altered biotite-phlogopite-rich contact 100.36 - 100.56 m: **Carbonatite**, highly altered gneissic clast, epi-chl	18192	98.50	98.76	0.26	30.17	13.01	45	1432	10	4.38
			18204	100.36	100.56	0.20	40.00	6.34	214	1787	<3	3.16
100.60	105.85	**Pegmatite:** white, coarse-grained, qtz-feldspar-biotite upper contact with gneiss/carbonatite very crumbly										

APPENDIX 4A: CONTINUED

Hole No.: FDDH-8
Page: 3 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		101.95 - 102.89 m: **Carbonatite**, highly altered gneissic clast, sulfides	18193	101.95	102.89	0.94	24.27	13.30	68	1067	6	1.74
105.85	113.78	**Carbonatite-Beforsite:** milkly-white, coarse-grained	18194	105.85	107.00	1.15	29.13	14.94	150	831	7	2.33
		"cataclastic" texture, no strong foliation, fractures 40-50° ACA	18195	107.00	108.00	1.00	29.61	14.75	222	1283	13	3.63
		apatite (5-10%) clear color, <0.5 cm in size	18196	108.00	109.00	1.00	29.29	15.02	447	3061	3	3.32
		blue-green amphibole (richterite) up to 0.5 cm size	18197	109.00	110.00	1.00	30.40	14.15	647	4656	3	5.69
		trace amounts of phlogopite present, pyrite (1-2%)	18198	110.00	111.00	1.00	29.25	15.27	192	1609	16	2.96
		pyrochlore-columbite brown-yellow blebs, 0.5 cm in size	18199	111.00	112.00	1.00	28.37	15.13	67	950	3	1.61
			18201	112.00	113.00	1.00	29.97	15.09	216	1512	<3	3.75
		110.00 - 113.72 m: more fractures, slightly finer grained	18202	113.00	113.78	0.78	30.76	13.35	114	772	5	3.52
		zones of alteration with green amphibole (actinolite)										
		abundant pyrite along fractures (5-7%), less apatite										
113.78	121.30	**Gneiss:** light-grey, medium-grained, qtz-biot dominated										
		very altered near contact with carbonatite, foliation 40° ACA										
		alternating bands of alteration and gneiss										
		116.00 - 117.00 m: altered and sheared, possibly amphibolite										
		118.12 - 121.30 m: typical gneiss, foliation 45-50° ACA, micaceous										
	121.30	E.O.H.										

APPENDIX 4A: CONTINUED

Company: Commerce Resources Corp.	Date Started: July 26, 2002	Core Size: HQ
Project: Fir Drilling 2002	Date Finished: July 28, 2002	Depth: 178.30 m
Claim: FIR 8	Logged By: Mark Smith	
		Co-ordinates (UTM NAD83)
Hole No.: FDDH-9	Bearing: 270°	Easting (m): 351997 E
Page: 1 of 3	Inclination: -70°	Northing (m): 5797752 N

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
0.00	6.40	Overburden										
6.40	89.95	**Gneiss:** light-grey, medium-grained, qtz-biot-plag±garnet±musc foliation 80° ACA, better developed in mica-rich zones minor qtz veins/stringers throughout 7.00 - 7.42 m: garnet-rich zone, 0.5-1cm in size well-foliated, green color, abundant biotite-phlogopite(?) 9.80 - 10.72 m: wavy, deformed schistose texture with abundant musc stretched/pinched qtz boudins, small veins foliation 70-80° ACA 18.11 m: quartz vein 17 cm 18.71 - 21.80 m: wavy, deformed schistose texture, biot-musc rich well-foliated, 80-85° ACA 24.30 - 30.39 m: abundant qtz bands, deformed and fractured green chlorite-epidote alteration with silica flooding associated pyrite-pyrrhotite mineralization foliation 80° ACA, minor qtz veins and biotite rich fractures parallel 42.50 m: 15 cm silica flooding zone with epidote-chlorite-sulfides 43.90 m: 2 x 4 cm qtz clasts, foliation 75° ACA 44.25 m: 30 cm qtz-pyrite-pyrrhotite vein 48.96 m: 26 cm qtz vein with biotite-rich margins 54.26 m: thin bands of qtz-py-po, bands are folded 57.43 m: stretched out qtz boudins 57.53 m: 40 cm zone of small scale folding in qtz bands zone terminates in a biotite-rich fracture, small shear(?) fractures tend to be 40-50° ACA, foliation 85° ACA, crumbly biot-chl 61.18 - 64.20 m: wavy, deformed schistose texture abundant musc-biot-chl, foliation 70° ACA zone commences with a qtz-py-po vein 64.20 - 68.35 m: alternating bands of gneiss and alteration (fenite?) abundant small scale folding parallel to foliation altered zones of amph-qtz-biot-phl with silica-carbonate enrichment											

APPENDIX 4A: **CONTINUED**

Hole No.: FDDH-9
Page: 2 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		68.35 - 71.20 m: finer grained, greenish color abundant biotite-chlorite with phlogopite(?), amphibole, trace garnet well-foliated 85° ACA, soft greasy mica at end of interval 73.00 - 77.00 m: highly micaceous, trace amounts of garnet foliation 80-85° ACA, abundant muscovite, qtz blebs/stringers 77.00 -78.38 m: green color, greasy feel, chl-biot rich, stretched garnets 80.60 - 80.87 m: stretched out qtz boudins 80.87 - 88.76 m: alternating gneiss and green mica-rich zones biotite-chlorite-phlogopite bands 5-50 cm in size abundant small-scale folding and crenulations, foliation 75-80° ACA garnets present near sharp lower contact, fractured core										
89.95	98.82	**Carbonatite-Beforsite:** milkly-white, coarse-grained two textural styles present: wavy "styolitic" and "cataclastic" apatite (15%) usually green but clear in "cataclastic" zones amphibole (10-15%), mag-pyr-clmb blebs present fractures 70° ACA, filled with amph-phl-pyrite upper contact sharp 75° ACA, 14 cm of altered gneiss (fenite?) lower contact 80° ACA, altered for a couple of metres	18226	89.95	91.00	1.05	30.34	14.92	208	732	28	4.15
			18227	91.00	92.00	1.00	30.20	14.72	187	320	53	4.42
			18228	92.00	93.00	1.00	30.44	14.89	140	256	66	4.69
			18229	93.00	94.00	1.00	29.44	15.00	182	256	63	4.21
			18230	94.00	95.00	1.00	29.43	14.78	258	441	105	4.38
			18231	95.00	95.70	0.70	31.02	14.52	156	255	66	4.90
		95.70 - 97.77 m: altered gneissic clast, mixed with carbonatite green color, presence of actinolite-chlorite 97.77 - 98.73 m: coarse "cataclastic" texture, grains 2-5 cm in size	18232	95.70	97.00	1.30	23.69	11.93	81	126	52	3.30
			18233	97.00	97.75	0.75	23.65	12.35	68	92	36	2.79
			18234	97.75	98.82	1.07	29.35	15.35	127	1270	<3	2.73
98.82	109.50	**Gneiss/Amphibolite:** alternating bands throughout interval altered near upper contact, very chaotic, fenitization amphibole-phlogopite-pyrite rich, well foliated 85° ACA	18235	98.82	99.82	1.00	10.35	11.14	4	199	3	1.16
		100.40 m: microfault offsetting gneiss and amphibolite 103.60 - 109.50 m: mixed zone of gness/amphibolite, foliation 50° ACA 106.31 m: carbonate enrichment in altered amphibolite zone										
109.50	120.17	**Gneiss:** grey-white, medium-grained, qtz-biot-plag-garnet well-foliated 50° ACA, foliation 60-70° at bottom of interval pink garnet (5-10%) up to 3-4 cm in size, deformed abundant small-scale folding in qtz-rich bands, usually cm sized stretched out qtz boudins - brecciated, biot-rich fractures, py-po filling										

APPENDIX 4A: CONTINUED

Hole No.:	FDDH-9											
Page:	3 of 3											
From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
120.77	133.66	**Amphibolite:** green, coarse-grained, qtz-biot-plag-pyroxene foliation well-developed 70° ACA narrow zones of gneiss interbedded with amphibolite biotite rich fractures, pyrite up to 10% in some zones										
133.66	141.47	**Gneiss:** grey-white, medium-grained, qtz-biot-plag-garnet-musc qtz bands, foliation 75-80° ACA, garnets 5 cm - deformed/stretched 137.50 m: **Pegmatite** 24 cm thick 139.00 m: biotite-chlorite shear, soft greasy crumbly material										
141.47	149.15	**Pegmatite:** white, coarse-grained, qtz-feldspar biot-chl fracture fills, lower contact irregular 5 cm biotite-rich zone										
149.15	159.75	**Gneiss:** grey-white, medium-grained, qtz-biot-plag-garnet well-foliated 60° ACA, garnets up to 7 cm, deformed 149.15 - 149.75 m: wavy deformed schistose texture 153.20 - 159.75 m: interbedded gneiss and coarse amphibolite layers amphibolite layers up to 15 cm in size, some chlorite-rich zones										
159.75	161.83	**Pegmatite:** white, coarse-grained, qtz-feld-biot, brecciated										
161.83	167.78	**Gneiss:** light-grey, medium-grained, qtz-biot-plag-garnet foliation 80-85° ACA, abundant small-scale folds in qtz bands garnet-rich zones (15-20%) with grains 2-3 cm, altered upper contact 166.45 - 167.36 m: biot-chl-phl(?) alteration, stretched out qtz bands										
167.78	170.57	**Pegmatite:** white, qtz-feldspar-biot, seems brecciated										
170.57	178.30	**Gneiss:** wavy, deformed schistose texture, brecciated in places stretched out qtz boudins, small cm sized folds, foliation 85° ACA 171.75 m: **Pegmatite** 60 cm thick										
	178.30	E.O.H.										

APPENDIX 4A: CONTINUED

Company: Commerce Resources Corp.
Project: Fir Drilling 2002
Claim: FIR 8

Hole No.: FDDH-10
Page: 1 of 3

Date Started: July 28, 2002
Date Finished: July 31, 2002
Logged By: Mark Smith / Ryan Grywul

Bearing: NA
Inclination: 90°

Core Size: HQ
Depth: 200.56 m

Co-ordinates (UTM NAD83)
Easting (m): 352151 E
Northing (m): 5797862 N

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
0.00	4.88	Overburden and boulders										
4.88	141.05	**Gneiss:** grey-white, medium-grained, qtz-biot-plag±chl±garnet becomes greener in places as well as coarser-grained biotite-chlorite rich zones few cm in size pink-red garnets up to 0.5cm, deformed thin qtz bands/stringers, minor microfaulting present well-foliated, 70° ACA 11.73 m: 5 cm zone of silica flooding with chlorite 14.85 m: silica-chlorite fracture fill, deformed and rotated, 70° ACA 16.37 m: 30 cm zone of crumbly/fractured/oxidized material 18.45 - 20.18 m: wavy deformed schistose texture, muscovite-rich irregular chl-biot zones, foliation 70° ACA 22.93 m: microfault with tension gashes, silica-chlorite fill 24.10 - 25.90 m: highly deformed gneiss, foliation 70° ACA qtz boudins, sheared and rotated, biot-chl fracture fill 29.26 m: 50 cm zone of schistose texture, gradational contacts 30.50 m: 10 cm zone of qtz banding, 60° ACA 34.89 m: rotated 2 cm quartz clasts, dextral movement 42.50 m: garnet-rich zone with 1 cm stretched qtz bands 43.26 m: 20 cm zone of silica flooding with chlorite and garnets very deformed, possible small shear 70° ACA 43.70 m: small-scale folding, coarse biotite-chlorite rich zones 44.00 - 50.40 m: wavy schistose texture with abundant muscovite minor qtz bands and biot-chl zones, gneiss greener in color 50.40 - 50.90 m: biot-chl rich zone with microfaults, silica flooding 56.30 m: sinistral shear movement in qtz-chlorite bands alternating bands of green gneiss and schistose unit well-foliated 80° ACA 62.70 m: 20 cm garnet-rich zone (20-25%), biot-chl rich as well 63.70 m: 20 cm qtz vein										

APPENDIX 4A: CONTINUED

Hole No.: FDDH-10
Page: 2 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		65.75 m: greener gneiss dominated, medium-grained										
		cm sized zones of silica flooding with chl-biot-pyrite-pyrrhotite										
		well-developed foliation 60° ACA										
		72.40 m: 50 cm zone of silica flooding with chl-biot-py-po, deformed										
		72.90 m: light grey gneiss, fine-medium grained, qtz-biot-plag±chl										
		well-foliated 70° ACA, some chlorite-rich layers										
		78.95 m: 13 cm qtz vein										
		79.77 m: rotated 6 cm qtz boudins, foliation 70° ACA										
		84.90 m: garnet-rich zone with silica flooding										
		88.00 m: 60 cm zone of qtz bands with py-po stringers										
		90.04 - 90.83 m: qtz veins with py-po mineralization, mottled appearance										
		93.23 m: 15 cm biot-chl rich layer, well-foliated, crenulated										
		97.23 m: silica flooding with chl-py-po, microfault, foliation 70° ACA										
		97.85 m: **Pegmatite** 15 cm thick										
		98.70 m: 40 cm biot-chl rich layer, foliation 70° ACA, crenulated										
		106.26 m: 26 cm zone of silica flooding with chl-epidote-py-po, brecciated										
		107.00 m: alternating zones of greener gneiss and schistose unit										
		thin zones of silica flooding common with sulfide mineralization										
		biot-chl rich layers, foliation 70° ACA										
		118.10 m: **Pegmatite** 25 cm thick, looks brecciated										
		125.17 m: **Pegmatite** 30 cm thick, mottled appearance										
		125.10 m: trace garnets, coarser-grained										
		132.14 m: deformed and stretched qtz veins, foliation 65-70° ACA										
		134.00 - 141.05: wavy schistose unit, muscovite rich, trace kyanite										
		thin qtz bands, garnets up to 2 cm show sinistral shear movement	18251	140.05	141.05	1.00	5.15	4.30	7	466	4	0.67
141.05	179.33	**Carbonatite-Beforsite:** milky-white, coarse-grained	18252	141.05	142.00	0.95	27.77	14.77	194	2602	<3	3.25
		apatite (10%), amphibole (richerite) foliated in places, trace pyrite	18253	142.00	143.00	1.00	29.63	15.39	263	700	82	4.09
		primary texture: coarse-grained "cataclastic" texture	18254	143.00	144.00	1.00	30.36	14.75	126	257	53	4.44
		other textures present: finer "styolitic" and microcrystalline	18255	144.00	145.00	1.00	28.71	15.21	136	257	46	3.43
		upper contact 75-80° ACA, irregular and wavy with qtz fill	18256	146.00	147.00	1.00	28.77	15.48	140	289	43	3.60
			18257	147.00	148.00	1.00	21.78	17.55	87	220	32	2.04
		142.89 - 144.00 m: massive texture, green apatite (10-15%)	18258	148.00	149.00	1.00	29.50	12.59	326	951	48	5.76
		144.00 - 146.00 m: very fractured, microcrystalline texture, clear apatite	18259	149.00	150.00	1.00	39.65	5.36	285	824	54	5.19
		interval terminated by small fault zone - clayey material	18260	150.00	151.00	1.00	40.34	4.30	278	658	50	5.34
		146.15 m: 2 cm amphibole bands, foliation 60-70° ACA	18261	151.00	152.00	1.00	36.06	9.14	490	1645	89	5.57
		red-brown pyrochlore-ferrocolumbite, pyrite filled fractures	18262	152.00	153.00	1.00	30.22	14.67	159	608	14	3.94

APPENDIX 4A: CONTINUED

Hole No.: FDDH-10
Page: 3 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		146.70 m: amphibole-rich zone (~40%) with phlogopite, po blebs	18263	153.00	154.00	1.00	30.54	14.64	147	741	11	4.46
		147.25 m: clear apatite (10-12%), magnetite blebs up to 2 cm in size	18264	154.00	155.00	1.00	37.81	7.25	429	1300	56	5.94
		147.63 - 151.54 m: light grey color, wavy "styolitic" texture	18265	155.00	156.00	1.00	33.47	11.57	419	1282	47	7.05
		decrease in amphibole content, poorly developed foliation	18266	156.00	156.75	0.75	31.29	13.06	440	1428	42	6.63
		distinct pyrochlore/ferrocolumbite crystals present up to 0.5 cm in size	18267	156.75	157.35	0.60	36.79	7.05	42	136	5	2.96
		magnetite-rich (15%) zones, more abundant pyro/clmb crystals	18268	157.35	158.00	0.65	30.54	14.36	117	247	9	4.40
		148.69 m: large cluster of red-brown pyrochlore/ferrocolumbite	18269	158.00	159.00	1.00	31.17	14.51	222	647	32	4.51
		148.86 m: red-brown inclusions in apatite grains	18270	159.00	160.43	1.43	30.71	14.07	96	288	26	5.21
		149.14 m: distinct 4 x 5 mm pyrochlore/ferrocolumbite crystal	18271	160.43	161.00	0.57	26.06	11.85	29	116	16	4.07
		149.90 m: increase in apatite size and content	18272	161.00	162.00	1.00	25.48	11.72	72	157	25	3.89
		151.60 m: chaotic alignment of amphibole (richerite) crystals	18273	162.00	163.00	1.00	27.01	11.36	137	295	23	4.26
		153.15 - 154.45 m: fractured and healed carbonatite, dark blue-grey color	18274	163.00	164.00	1.00	23.77	13.17	266	871	41	2.74
		increase in magnetite-pyrochlore-ferrocolumbite content	18275	164.00	165.00	1.00	24.51	12.35	242	1396	5	3.10
		small zones of red-brown pyro/clumb clusters	18276	165.00	166.00	1.00	25.79	13.46	308	2409	14	3.22
		154.06 m: cluster of pyrochlore/ferrocolumbite crystals	18277	166.00	167.00	1.00	28.87	15.06	169	894	4	3.28
		154.45 - 155.98 m: rubble zone, cryptocrystalline texture, apatite-amph	18278	167.00	168.00	1.00	29.47	15.52	156	1257	<3	2.98
		156.75 - 157.35 m: altered green gneissic clasts, calcite matrix	18279	168.00	169.00	1.00	28.73	14.69	199	1534	5	3.14
		clasts up to 9 cm in size, show small-scale folding	18280	169.00	170.00	1.00	25.90	13.25	370	2678	8	3.57
		160.40 - 162.20 m: altered green gneissic clasts present	18281	170.00	171.00	1.00	29.79	14.68	128	731	5	3.38
		green actinolite-phlogopite, pink carbonate, small lenses of carbonatite	18282	171.00	172.00	1.00	29.70	15.47	100	827	<3	3.10
		162.44 - 163.52 m: altered green gneissic clast (fenitized?)	18283	172.00	173.00	1.00	30.27	15.21	136	830	<3	4.28
		163.73 - 166.00 m: mixed zone of carbonatite and altered clasts	18284	173.00	174.00	1.00	30.05	15.03	299	2312	<3	4.36
		carbonatite intervals 8-22 cm in size, books of 3 cm mica in alteration	18285	174.00	175.00	1.00	30.64	14.36	319	2290	3	4.82
		168.85 - 170.00 m: mixed zone of carbonatite and altered clasts	18286	175.00	176.00	1.00	27.75	14.72	210	1207	10	3.66
		171.36 m: amphibole-calcite rich fracture zone	18287	176.00	177.00	1.00	29.25	14.93	159	2192	<3	3.59
		174.90 m: 5 cm altered green gneissic clast, apatite-calcite crystals	18288	177.00	178.00	1.00	29.22	14.75	459	5041	<3	3.95
		178.91m: 9 cm altered green gneissic clast, mica-rich	18289	178.00	179.33	1.33	26.12	14.18	150	1215	<3	3.47
179.33	200.56	**Gneiss:** light-grey, medium-grained, qtz-biot-plag±musc±chl±garnet well-foliated 70-80°, more obvious in mica-rich layers	18290	179.33	180.33	1.00	3.25	3.96	5	129	<3	0.25
		179.31 - 186.29 m: wavy schistose texture, muscovite-garnet thin qtz bands present, some chlorite-rich zones										
		186.29 m: rubble zone										
	200.56	E.O.H.										

APPENDIX 4A: CONTINUED

Company: Commerce Resources Corp.	Date Started: July 31, 2002	Core Size: HQ
Project: Fir Drilling 2002	Date Finished: Aug 4, 2002	Depth: 246.52 m
Claim: FIR 8	Logged By: Mark Smith	
		Co-ordinates (UTM NAD83)
Hole No.: FDDH-11	Bearing: NA	Easting (m): 352238 E
Page: 1 of 3	Inclination: 90°	Northing (m): 5797662 N

From (m)	To (m)	Description
0.00	6.40	Overburden
6.40	165.34	**Gneiss:** light-grey, fine-med-grained, qtz-biot-plag±musc±gar±chl well-foliated 70-80° ACA, more obvious in mica-rich zones minor qtz veins present parallel to foliation 28.61 - 30.76 m: garnets present 32.49 m: small microfaulting 39.85 - 48.75 m: alternating green and grey colored gneiss, trace garnet 50.00 - 61.02 m: wavy schistose unit, muscovite-rich with qtz bands interbedded biot-chl 10 cm layers occur frequently, trace garnet 54.00 m: very qtz-rich, boudins, appears mottled 61.02 - 73.00 m: green colored gneiss, qtz-biot-chl-plag well-foliated 75-80° ACA 68.00 m: 20 cm qtz vein 69.20 - 73.00 m: wavy schistose unit, gradational contacts 73.00 - 86.53 m: grey gneiss, qtz-biot-plag±garnet garnet (15-20%) up to 1 cm thin green zones of alteration, well-foliated 80° ACA 86.53 - 94.00 m: green colored gneiss, qtz-biot-chl-plag gradational contacts, foliation 70° ACA 99.00 m: highly micaceous zone, greasy feel, fault gouge(?) 102.85 m - 114.00 m: coarser-grained gneiss interbedded biot-chl zones, foliation 70-80° ACA silica flooding with epidote common large 2-5 cm deformed/recrystallized garnets 114.00 m: grey gneiss, cm size qtz bands, foliation 60-70° 131.00 m: 50 cm zone of silica flooding with musc±chl±epidote 136.70 m: 10 cm garnet-rich zone 140.00 - 146.70 m: zones of silica flooding with chl-epi-py-po common biot-chl rich zones, foliation 70° ACA 155.90 m: 5 cm pyrrhotite bands 157.00 : 90 cm muscovite-rich layer, foliation 80° ACA

Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)

APPENDIX 4A: CONTINUED

Hole No.: FDDH-11
Page: 2 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
165.34	167.80	**Carbonatite-Beforsite:** milkly-white, medium-grained "styolitic" and "cataclastic" textures present apatite (10-15%) up to 0.5 cm, green color amphibole (<5%),but some thin bands (25%) aligned 70-80° ACA upper contact sharp, fractured with no alteration lower contact sharp with some chl-epidote alteration 165.34 - 167.58 m: "styolitic" texture, fine-medium-grained minor amounts of phlogopite, sulfides along fractures (1-2%) few 1 mm sized red-brown pyrochlore-columbite blebs 167.58 - 167.80 m: "cataclastic" texture, grains up to 1 cm in size apatite content seems to decrease, trace pyrite along fractures	18301	165.34	166.34	1.00	30.45	14.46	136	273	63	4.50
			18302	166.34	167.80	1.46	30.13	14.97	172	545	51	3.86
167.80	168.12	**Pegmatite:** coarse-grained, mottled and deformed										
168.12	176.36	**Gneiss:** wavy schistose unit, qtz-musc-biot-garnet well foliated 70° ACA, cm sized qtz bands, mm sized garnet										
176.36	186.10	**Fault Zone (???):** interval of intense deformation and brecciation seems to be a qtz-carbonate healed fault zone rotated gneissic clasts, small folds, abundant micro-faulting diamond-shaped cm sized dolomite in places, pyrite present common biot-phlogopite, more amphibole-rich towards end of interval maybe trace apatite present, amphbioles aligned in places	18303	178.00	179.00	1.00	6.32	4.38	4	405	<3	0.68
			18304	183.00	184.00	1.00	12.02	5.07	4	280	<3	0.28
186.10	246.52	**Gneiss:** grey-green, medium-grained, schistose unit dominant upper contact with fault zone has chl-ep alteration with sulfides well-foliated 70° ACA, cm qtz bands, trace garnet 187.45 m: small 2 cm folding in qtz band 190.00 m: 20 cm biot-chl-rich layer, foliation 60° ACA 190.60 - 195.10 m: altered (fault??) zone, green colored and banded diamond-shaped cm sized carbonate present well-foliated 75-80° ACA, abundant pyrite, no brecciation present 195.10 m: qtz boudins, foliation 70° ACA 199.00 - 209.15 m: interbedded green gneiss and schistose unit schistose unit muscovite-rich											

APPENDIX 4A: CONTINUED

Hole No.: FDDH-11
Page: 3 of 3

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)	CaO (%)	MgO (%)	Ta_2O_5 (ppm)	Nb_2O_5 (ppm)	U (ppm)	P_2O_5 (%)
		202.45 m: 15 cm qtz vein 60° ACA 204.03 m: 16 cm zone of silica flooding 209.15 m: wavy schistose unit dominant, qtz boudins stretched out muscovite-rich well-foliated 70° ACA 212.15 m: 2 cm qtz boudins stretched out and surrounded by garnets sinistral sense of shear movement 219.50 - 227.12 m: frequent garnet-rich zones 10-15 cm thick associated with chlorite and pyrite (1-2%) qtz bands and boudins (augen gneiss), foliation 70° ACA 227.12 - 227.79 m: biot-chl rich layer 234.00 m: foliation 65° ACA 238.00 m: some biotite-rich layers 4-5 cm, foliation 60-70° ACA 243.44 m: 30 cm zone of silica flooding with epidote, abundant fractures 245.50 - 246.52 m: foliation 70-75° ACA, garnet (20-25%) rich zones										
	246.52	E.O.H.										

APPENDIX 4B: GEOTECHNICAL LOGS FOR DRILL HOLES FDDH-7 TO FDDH-11

Company:	**Commerce Resources Corp.**			**Date Started:**	**July 20, 2002**	**Core Size:**	**HQ**	
Project:	**FIR 2002**			**Date Finished:**	**July 22, 2002**	**Depth:**	**151.79 m**	
Claim:	**FIR 8**			**Logged By:**	**Ryan Grywul**			
						Co-ordinates (UTM NAD83)		
Hole No.:	**FDDH-7**			**Bearing:**	**NA**	**Easting (m):**	**351940 E**	
Page:	**1 of 2**			**Inclination:**	**-90°**	**Northing (m):**	**5797588 N**	
From	**To**	**Length of Interval**	**Measured Length**	**RQD**	**Number of Fractures**	**Percent Recovery**	**Rock Type**	**Notes**
0.00	7.32	7.32	-	-	-	-	Overburden	Casing
7.32	8.53	1.21	1.58	0.24	28	131	Overburden	
8.53	11.58	3.05	2.92	0.17	74	96	Gneiss	
11.58	12.80	1.22	1.20	0.15	26	98		
12.80	15.85	3.05	2.94	0.00	76	96		Rubble Zone (13.25m)
15.85	17.68	1.83	1.32	0.00	42	72		Rubble Zone (17.68m)
17.68	20.73	3.05	2.88	0.38	93	94		
20.73	23.77	3.04	3.03	0.44	44	100		
23.77	26.21	2.44	2.39	0.31	44	98		
26.21	27.74	1.53	1.24	0.15	26	81		
27.74	29.87	2.13	2.20	0.34	45	103		
29.87	32.92	3.05	3.05	0.52	50	100		
32.92	35.05	2.13	2.04	0.85	15	96		
35.05	37.79	2.74	2.96	1.87	25	108		
37.79	39.01	1.22	1.18	0.54	13	97		
39.01	40.54	1.53	1.23	0.00	35	80		Crumbly rock (40.54m)
40.54	41.76	1.22	0.75	0.00	32	61		
41.76	42.98	1.22	1.05	0.00	43	86		
42.98	45.11	2.13	1.61	0.15	43	76		
45.11	47.85	2.74	2.65	0.15	64	97	Gneiss/Pegmatite	
47.85	50.90	3.05	3.05	0.18	103	100	Gneiss/Carbonatite	0.18 RQD from Carb
50.90	51.51	0.61	0.48	0.00	21	79	Gneiss	
51.51	54.25	2.74	2.78	0.53	50	101		
54.25	57.30	3.05	2.69	0.55	23	88	Gneiss/Carbonatite	Interval 0.58m
57.30	60.35	3.05	3.02	1.76	15	99	Carbonatite	
60.35	63.40	3.05	2.97	1.01	35	97		
63.40	66.45	3.05	3.12	1.77	18	102		
66.45	69.49	3.04	3.10	1.30	20	102		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-7 Page: 2 of 2								
From	To	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
69.49	72.54	3.05	3.05	1.78	16	100		
72.54	75.59	3.05	3.09	1.44	14	101		
75.59	78.64	3.05	3.10	0.25	48	102		
78.64	81.69	3.05	2.64	0.79	52	87	Carbonatite/Quartz	
81.69	83.82	2.13	1.99	0.00	72	93	Pegmatite	
83.82	84.73	0.91	0.96	0.00	29	105	Gneiss	
84.73	87.78	3.05	3.13	0.99	29	103		
87.78	90.83	3.05	2.87	1.78	13	94		
90.83	93.88	3.05	3.00	0.77	32	98		
93.88	96.01	2.13	2.07	0.78	19	97		
96.01	98.76	2.75	3.00	1.65	24	109	Qtz/Fenite	Interval 1.09m
98.76	101.80	3.04	3.05	1.31	27	100	Gneiss	
101.80	103.02	1.22	1.17	0.52	7	96		
103.02	106.07	3.05	3.05	0.61	36	100		
106.07	109.11	3.04	3.05	1.68	14	100		
109.11	112.16	3.05	3.03	0.84	60	99		
112.16	115.21	3.05	3.05	0.85	26	100		
115.21	117.04	1.83	1.80	0.65	17	98		
117.04	118.26	1.22	1.20	0.48	21	98		
118.26	120.70	2.44	2.25	0.87	30	92		
120.70	124.36	3.66	3.66	0.92	44	100		
124.36	127.40	3.04	2.56	0.82	26	84		
127.40	130.45	3.05	3.10	0.37	65	102		
130.45	133.50	3.05	3.13	0.99	46	103		
133.50	135.33	1.83	1.65	0.15	42	90		
135.33	136.55	1.22	1.22	0.26	29	100		
136.55	139.60	3.05	3.05	0.92	31	100		
139.60	142.65	3.05	2.94	1.30	38	96		
142.65	145.69	3.04	3.05	0.49	55	100		
145.69	148.74	3.05	3.05	2.09	17	100		
148.74	151.79	3.05	3.05	0.92	27	100		
	EOH							

APPENDIX 4B: **CONTINUED**

Company:	**Commerce Resources Corp.**			**Date Started:**	**July 22, 2002**	**Core Size:**	**HQ**	
Project:	**FIR 2002**			**Date Finished:**	**July 24, 2002**	**Depth:**	**121.30 m**	
Claim:	**FIR 8**			**Logged By:**	**Ryan Grywul**			
						Co-ordinates (UTM NAD83)		
Hole No.:	**FDDH-8**			**Bearing:**	**NA**	**Easting (m):**	**351935 E**	
Page:	**1 of 2**			**Inclination:**	**-90°**	**Northing (m):**	**5797676 N**	
From (m)	**To (m)**	**Length of Interval**	**Measured Length**	**RQD**	**Number of Fractures**	**Percent Recovery**	**Rock Type**	**Notes**
0.00	1.52	1.52	-	-	-	-	Overburden	Casing
1.52	5.49	3.97	2.69	1.12	31	68	Gneiss	
5.49	8.53	3.04	2.80	1.14	28	92		
8.53	11.58	3.05	3.01	0.77	27	99		
11.58	14.63	3.05	2.68	0.65	45	88		Rubble Zone (13m)
14.63	17.68	3.05	3.05	0.82	41	100		
17.68	20.73	3.05	2.87	0.83	46	94		
20.73	23.77	3.04	2.82	0.17	51	93		
23.77	26.82	3.05	3.10	0.89	42	102		
26.82	29.87	3.05	2.82	1.29	26	92		
29.87	32.92	3.05	3.00	1.46	19	98		
32.92	35.97	3.05	3.00	1.65	19	98		
35.97	39.01	3.04	2.87	1.37	31	94		
39.01	42.06	3.05	2.92	1.36	26	96		
42.06	45.11	3.05	3.05	0.96	30	100		
45.11	48.16	3.05	3.05	0.68	44	100		
48.16	51.21	3.05	3.10	0.39	66	102		
51.21	54.25	3.04	3.16	2.02	40	104	Gneiss/Carbonatite	Rock Growth (52.25m)
54.25	57.30	3.05	2.92	2.19	12	96	Carbonatite	
57.30	60.35	3.05	2.94	2.22	8	96		
60.35	63.40	3.05	3.03	1.51	15	99		
63.40	66.45	3.05	3.00	1.73	22	98		
66.45	69.49	3.04	3.07	1.23	32	101	Carbonatite/Fenite	
69.49	72.54	3.05	2.93	0.65	40	96	Fenite?	
72.54	75.59	3.05	3.07	1.94	16	101	Gneiss	
75.59	78.64	3.05	3.05	1.53	17	100		Cuttings/gouge?
78.64	81.68	3.04	3.01	0.74	42	99		Cuttings/gouge?
81.68	84.73	3.05	2.78	0.15	72	91		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-8 Page: 2 of 2								
From (m)	**To (m)**	**Length of Interval**	**Measured Length**	**RQD**	**Number of Fractures**	**Percent Recovery**	**Rock Type**	**Notes**
84.73	87.78	3.05	2.98	0.67	81	98		Rubble Zone
87.78	90.83	3.05	3.05	0.96	41	100		
90.83	93.87	3.04	2.68	0.77	38	88		Cuttings/gouge?
93.87	94.48	0.61	2.47	0.00	98	405	Gneiss/Pegmatite	Rubble Zones
94.48	96.92	2.44	2.45	0.00	49	100	Gneiss/Pegmatite	
96.92	99.97	3.05	3.07	1.11	29	101	Gneiss	
99.97	103.02	3.05	3.01	0.45	54	99	Gneiss/Carb/Peg	
103.02	106.07	3.05	3.03	0.57	36	99	Peg/Carbonatite	
106.07	109.11	3.04	3.10	1.25	16	102	Carbonatite	
109.11	112.18	3.07	2.97	1.27	24	97		Rubble Zones
112.18	115.21	3.03	3.05	0.36	34	101	Carbonatite/Fenite	
115.21	117.65	2.44	2.30	0.44	47	94	Gneiss	Rubble Zones
117.65	120.69	3.04	3.13	0.25	68	103		Rubble Zones
120.69	121.30	0.61	0.30	0.00	8	49		
	EOH							

APPENDIX 4B: **CONTINUED**

Company:	**Commerce Resources Corp.**	**Date Started:**	**July 26, 2002**	**Core Size:**	**HQ**	
Project:	**FIR 2002**	**Date Finished:**	**July 28, 2002**	**Depth:**	**178.30 m**	
Claim:	**FIR 8**	**Logged By:**	**Ryan Grywul**			
				Co-ordinates (UTM NAD83)		
Hole No.:	**FDDH-9**	**Bearing:**	**270°**	**Easting (m):**	**351997 E**	
Page:	**1 of 3**	**Inclination:**	**-70°**	**Northing (m):**	**5797752 N**	

From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
0.00	6.40	6.40	-	-	-	-	Overburden	Casing
6.40	8.23	1.83	1.77	0.00	53	97	Gneiss	
8.23	10.68	2.45	2.12	0.00	64	87		
10.68	13.41	2.73	2.48	0.18	59	91		Breccia Zone (12.7m)
13.41	14.33	0.92	0.99	0.00	23	108		
14.33	17.37	3.04	2.95	0.56	49	97		
17.37	19.20	1.83	1.69	0.00	45	92		Rubble Zones
19.20	20.42	1.22	1.07	0.00	55	88		Rubble Zones
20.42	23.47	3.05	2.98	1.64	24	98		
23.47	26.52	3.05	3.15	1.06	32	103		
26.52	29.56	3.04	3.05	1.19	19	100		
29.56	32.61	3.05	3.02	1.29	22	99		
32.61	35.66	3.05	3.05	1.55	24	100		
35.66	38.71	3.05	2.83	0.05	53	93		Rubble Zones
38.71	40.84	2.13	2.05	0.08	56	96		
40.84	41.76	0.92	0.95	0.82	3	103		
41.76	44.80	3.04	3.00	1.34	26	99		
44.80	47.85	3.05	2.90	1.43	35	95		
47.85	50.90	3.05	3.10	1.71	32	102		
50.90	53.95	3.05	2.98	1.99	13	98		
53.95	56.99	3.04	3.05	2.40	8	100		
56.99	60.04	3.05	3.05	1.31	26	100		
60.04	63.09	3.05	2.73	0.35	62	90		Rubble Zones
63.09	64.92	1.83	1.90	0.91	17	104		
64.92	66.14	1.22	1.13	0.87	5	93		
66.14	69.19	3.05	3.00	1.42	26	98		
69.19	72.24	3.05	3.20	0.87	32	105		
72.24	75.29	3.05	3.04	1.41	23	100		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-9 Page: 2 of 3								
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
75.29	78.33	3.04	2.92	1.39	29	96		
78.33	81.38	3.05	2.96	1.81	28	97		
81.38	84.38	3.00	2.93	1.34	37	98		
84.38	87.48	3.10	2.99	1.20	38	96		
87.48	90.53	3.05	2.90	1.36	46	95	Gneiss/Carbonatite	Rubble Zone in middle
90.53	93.57	3.04	2.90	2.10	13	95	Carbonatite	
93.57	96.62	3.05	3.08	2.48	15	101		
96.62	99.67	3.05	3.04	2.05	29	100	Carbonatite/Gneiss	
99.67	102.72	3.05	2.98	1.71	24	98	Gneiss	
102.72	105.77	3.05	3.00	2.10	19	98		
105.77	108.11	2.34	2.98	2.28	14	127		
108.11	111.86	3.75	2.97	1.20	21	79		
111.86	114.90	3.04	2.96	1.68	23	97		
114.90	117.95	3.05	2.94	0.36	61	96		Rubble Zone (overall
117.95	121.00	3.05	2.97	1.23	27	97		
121.00	125.05	4.05	2.96	0.99	29	73		
125.05	127.10	2.05	3.03	2.71	7	148		
127.10	130.14	3.04	2.99	1.91	12	98		
130.14	133.19	3.05	3.05	2.01	12	100		
133.19	136.24	3.05	2.93	2.16	16	96		
136.24	139.29	3.05	2.99	1.83	28	98		
139.29	142.33	3.04	2.92	1.24	35	96	Pegmatite/Gneiss	
142.33	145.38	3.05	3.05	2.17	10	100	Pegmatite	
145.38	148.43	3.05	3.05	2.55	9	100	Pegmatite	
148.43	151.48	3.05	3.05	1.20	31	100	Pegmatite/Gneiss	
151.48	154.53	3.05	3.05	1.47	17	100	Gneiss	
154.53	157.57	3.04	3.05	1.67	22	100		
157.57	160.62	3.05	3.05	1.68	19	100	Gneiss/Pegmatite	

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-9 Page: 3 of 3								
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
160.62	163.67	3.05	3.01	1.26	27	99	Gneiss	
163.67	166.72	3.05	3.02	2.20	9	99		
166.72	169.77	3.05	3.05	2.31	12	100	Gneiss/Pegmatite	
169.77	172.81	3.04	3.05	1.39	23	100	Gneiss/Pegmatite	
172.81	175.86	3.05	3.05	0.59	46	100	Gneiss	
175.86	178.30	2.44	2.44	1.61	16	100		
	EOH							

APPENDIX 4B: **CONTINUED**

	Company:	Commerce Resources Corp.			Date Started:	July 28, 2002	Core Size:	HQ
	Project:	FIR 2002			Date Finished:	July 31, 2002	Depth:	200.56 m
	Claim:	FIR 8			Logged By:	Ryan Grywul		
							Co-ordinates (UTM NAD83)	
	Hole No.:	FDDH-10			Bearing:	NA	Easting (m):	352151 E
	Page:	1 of 3			Inclination:	-90°	Northing (m):	5797862 N
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
0.00	3.05	3.05	-	-	-	-	Overburden	Casing
3.05	4.88	1.83	1.22	0.00	55	67	Gneiss	Rubble Zone
4.88	8.53	3.65	3.00	0.83	50	82		Rubble Zones
8.53	11.58	3.05	2.76	0.67	44	90		
11.58	12.80	1.22	1.09	0.18	20	89		
12.80	14.63	1.83	1.89	0.50	17	103		
14.63	17.68	3.05	2.83	1.36	18	93		
17.68	20.73	3.05	2.91	1.37	21	95		Breccia/gouge (17m)
20.73	23.77	3.04	2.96	1.54	18	97		
23.77	26.82	3.05	2.95	1.17	33	97		
26.82	29.26	2.44	2.43	0.37	35	100		
29.26	31.39	2.13	1.99	1.03	24	93		
31.39	32.92	1.53	1.37	0.63	10	90		
32.92	35.96	3.04	2.99	1.52	29	98		
35.96	39.01	3.05	2.97	1.37	25	97		
39.01	42.06	3.05	2.89	1.04	28	95		
42.06	45.11	3.05	3.10	1.02	41	102		
45.11	48.16	3.05	2.96	1.74	28	97		
48.16	51.21	3.05	2.91	0.82	33	95		
51.21	54.25	3.04	3.05	1.78	16	100		
54.25	57.30	3.05	2.87	1.28	26	94		
57.30	60.35	3.05	3.05	2.06	19	100		
60.35	63.40	3.05	3.02	0.63	47	99		Rubble Zone (lower)
63.40	66.45	3.05	3.05	0.82	42	100		
66.45	69.49	3.04	3.04	2.13	13	100		
69.49	72.54	3.05	3.06	2.36	8	100		
72.54	75.59	3.05	2.98	1.22	38	98		
75.59	78.64	3.05	3.02	0.89	25	99		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-10 Page: 2 of 3								
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
87.78	90.83	3.05	2.95	1.57	20	97	Gneiss	
90.83	93.87	3.04	3.05	1.88	14	100		
93.87	96.92	3.05	2.96	1.19	33	97		
96.92	99.97	3.05	2.95	1.55	30	97		
99.97	103.02	3.05	2.97	1.31	27	97		
103.02	106.07	3.05	3.02	1.84	14	99		
106.07	109.11	3.04	3.04	1.88	17	100		
109.11	112.17	3.06	2.99	1.72	18	98		
112.17	115.21	3.04	3.02	2.28	10	99		
115.21	118.26	3.05	3.03	2.02	12	99		
118.26	121.30	3.04	3.05	1.02	28	100		
121.30	124.36	3.06	3.03	1.21	29	99		
124.36	127.40	3.04	2.96	2.56	5	97	Gneiss/Pegmatite	
127.40	130.45	3.05	3.05	1.73	15	100	Gneiss	
130.45	133.50	3.05	3.02	2.23	12	99		
133.50	136.55	3.05	3.07	0.20	61	101		
136.55	139.60	3.05	2.93	0.49	43	96		
139.60	142.65	3.05	2.99	1.09	22	98	Gneiss/Carbonatite	
142.65	145.69	3.04	2.96	0.29	72	97	Carbonatite	Rubble Zone (lower)
145.69	148.94	3.25	3.03	2.04	20	93		Muddy, rubble zone
148.94	151.79	2.85	2.98	2.83	3	105		
151.79	154.84	3.05	3.07	1.98	13	101		
78.64	81.69	3.05	2.99	0.92	24	98		
81.69	84.73	3.04	2.92	0.75	37	96		
84.73	87.78	3.05	2.90	1.87	20	95		
154.84	157.89	3.05	3.02	0.81	40	99	Carbonatite/Fenite	Rubble Zone (top)
157.89	160.93	3.04	3.01	2.28	7	99	Carbonatite	
160.93	163.98	3.05	2.94	2.65	6	96		
163.98	167.03	3.05	3.04	2.11	11	100		
167.03	170.08	3.05	3.05	1.93	13	100		
170.08	173.13	3.05	2.99	1.85	10	98		
173.13	176.17	3.04	2.93	0.77	21	96		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-10 Page: 3 of 3								
From	**To**	**Length of Interval**	**Measured Length**	**RQD**	**Number of Fractures**	**Percent Recovery**	**Rock Type**	**Notes**
176.17	179.23	3.06	3.02	1.81	9	99	Carbonatite/Fenite	
179.23	182.27	3.04	2.97	1.37	24	98	Gneiss/Fenite	
182.27	185.32	3.05	3.05	1.07	29	100	Gneiss	
185.32	188.37	3.05	2.94	0.51	38	96		Rubble Zone (middle)
188.37	191.41	3.04	2.98	1.17	22	98		
191.41	194.46	3.05	2.99	1.62	23	98		
194.46	197.51	3.05	3.07	2.21	12	101		
197.51	200.56 EOH	3.05	3.01	1.49	21	99		

APPENDIX 4B: **CONTINUED**

Company:	**Commerce Resources Corp.**	**Date Started:**	**July 31, 2002**	**Core Size:**	**HQ**	
Project:	**FIR 2002**	**Date Finished:**	**Aug 4, 2002**	**Depth:**	**246.52 m**	
Claim:	**FIR 8**	**Logged By:**	**Ryan Grywul**			
				Co-ordinates (UTM NAD83)		
Hole No.:	**FDDH-11**	**Bearing:**	**NA**	**Easting (m):**	**352238 E**	
Page:	**1 of 3**	**Inclination:**	**-90°**	**Northing (m):**	**5797662 N**	

From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
0.00	6.40	6.40	-	-	-	-	Overburden	Casing
6.40	7.01	0.61	0.65	0.00	30	107	Gneiss	
7.01	8.53	1.52	1.41	0.22	31	93		
8.53	11.58	3.05	2.68	0.66	47	88		
11.58	14.63	3.05	3.02	1.15	35	99		
14.63	17.68	3.05	3.05	1.50	25	100		
17.68	20.73	3.05	3.15	1.49	31	103		
20.73	23.77	3.04	3.00	2.33	9	99		
23.77	26.82	3.05	3.03	2.50	8	99		
26.82	29.87	3.05	2.85	1.62	18	93		
29.87	32.92	3.05	3.13	2.20	16	103		
32.92	35.97	3.05	3.00	1.79	14	98		
35.97	39.01	3.04	3.15	1.53	21	104		
39.01	42.06	3.05	3.05	1.81	14	100		
42.06	45.11	3.05	3.10	1.72	15	102		
45.11	48.16	3.05	3.05	2.15	10	100		
48.16	51.21	3.05	3.05	1.89	17	100		
51.21	54.25	3.04	3.03	1.82	20	100		
54.25	57.30	3.05	3.05	1.96	12	100		
57.30	60.35	3.05	3.03	1.73	22	99		
60.35	63.40	3.05	3.05	0.99	24	100		
63.40	66.45	3.05	3.05	2.41	10	100		
66.45	69.49	3.04	3.04	1.32	26	100		
69.49	72.54	3.05	3.05	1.72	18	100		
72.54	75.59	3.05	2.89	2.02	14	95		
75.59	78.64	3.05	3.02	2.47	9	99		
78.64	81.69	3.05	2.94	1.71	18	96		
81.69	84.73	3.04	2.93	1.84	14	96		

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-11 Page: 2 of 3								
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
84.73	87.78	3.05	2.97	0.48	45	97		
87.78	90.83	3.05	3.06	2.04	13	100		
90.83	93.88	3.05	3.02	1.68	15	99		
93.88	96.93	3.05	2.99	0.79	35	98	Gneiss	
96.93	99.98	3.05	2.92	0.26	58	96		
99.98	103.02	3.04	3.04	1.74	20	100		
103.02	106.07	3.05	3.00	1.63	22	98		
106.07	109.12	3.05	2.83	1.38	19	93		
109.12	112.17	3.05	3.10	1.02	24	102		
112.17	115.21	3.04	3.05	2.17	8	100		
115.21	118.26	3.05	3.10	1.35	26	102		
118.26	121.31	3.05	3.04	1.52	28	100		
121.31	124.36	3.05	3.15	0.59	38	103		
124.36	127.41	3.05	2.87	1.08	21	94		
127.41	130.45	3.04	2.95	0.85	32	97		
130.45	133.50	3.05	3.13	0.69	46	103		
133.50	136.55	3.05	2.97	0.52	37	97		
136.55	139.60	3.05	3.12	2.51	8	102		
139.60	142.65	3.05	3.11	1.54	26	102		
142.65	145.69	3.04	3.05	1.22	23	100		
145.69	148.79	3.10	3.15	1.87	18	102		
148.79	151.79	3.00	3.05	0.57	43	102		
151.79	154.84	3.05	2.93	0.87	32	96		
154.84	157.89	3.05	2.98	0.82	37	98		
157.89	160.93	3.04	2.91	0.97	35	96		
160.93	163.98	3.05	2.96	0.41	52	97		
163.98	167.02	3.04	2.93	1.04	29	96	Gneiss/Carbonatite	
167.02	170.08	3.06	2.78	0.23	58	91	Carbonatite/Peg	
170.08	173.13	3.05	2.95	0.99	30	97	Gneiss	
173.13	176.17	3.04	2.91	1.48	27	96		
176.17	179.22	3.05	2.99	2.03	16	98	Fault Zone	Chaotic Mess
179.22	182.26	3.04	2.94	2.17	13	97	Fault Zone	

APPENDIX 4B: **CONTINUED**

Hole No.: FDDH-11 Page: 3 of 3								
From (m)	To (m)	Length of Interval	Measured Length	RQD	Number of Fractures	Percent Recovery	Rock Type	Notes
182.26	185.32	3.06	3.02	1.68	26	99	Fault Zone	
185.32	188.37	3.05	2.96	1.13	32	97	Gneiss	
188.37	191.41	3.04	2.92	1.41	23	96	Gneiss	
191.41	194.46	3.05	3.02	2.04	15	99		
194.46	197.51	3.05	3.05	0.88	43	100		
197.51	200.56	3.05	3.00	1.27	30	98		
200.56	203.61	3.05	3.01	1.05	28	99		
203.61	206.65	3.04	3.11	1.90	19	102		
206.65	209.10	2.45	3.04	1.91	15	124		
209.10	212.75	3.65	3.03	1.65	21	83		
212.75	215.81	3.06	3.04	1.64	20	99		
215.81	218.85	3.04	3.08	2.29	15	101		
218.85	221.89	3.04	3.00	1.95	18	99		
221.89	224.94	3.05	2.99	2.21	10	98		
224.94	227.99	3.05	3.05	2.63	8	100		
227.99	231.04	3.05	2.97	1.98	14	97		
231.04	234.09	3.05	3.04	2.04	12	100		
234.09	237.13	3.04	2.89	1.61	25	95		
237.13	240.18	3.05	2.95	1.48	19	97		
240.18	243.23	3.05	3.05	1.42	20	100		
243.23	246.28	3.05	2.97	0.91	28	97		
246.28	246.52	0.24	0.24	0.00	4	100		
	EOH							

APPENDIX 5: ESTIMATES OF TANTALUM AND NIOBIUM RESOURCES FOR THE FIR CARBONATITE RESOURCE ESTIMATE

The current resource estimate for the Fir carbonatite is based on three phases of diamond drilling totalling 15 diamond drill holes. The first four holes were completed by Anschutz (Canada) Mining Ltd. in 1981 and 10 core holes by Commerce Resources Corporation, six completed in 2001 and five in 2002. All drill logs and sample data were incorporated into the geologic model upon which the resource estimate is based.

All drill hole data were compiled in Gemcom Software and a bounding solid was created which extended a maximum of 120 m beyond drill hole data. Upper and lower contacts of individual layers of carbonatite were used to create dipping surfaces which were projected beyond the bounding solid. Other dipping surfaces were created from faults correlated between drill holes. The bounding solid was then clipped against known faults and the topographic surface. The resulting solids were used to constrain a block model.

Univariant statistics were completed on the composited data. Histograms showed the deposit has a normal distribution and a log-normal distribution. Probability plots were inconclusive and a variogram analysis was not possible because of low data density

A block model with 5 m^3 blocks was created and grades were interpolated into the blocks using the inverse distance squared method. Interpolation ranges used were 120 m down-dip and along strike and 10 m perpendicular to the average plane of the resource solids. These ranges were chosen to allow the interpolation to fill the blocks between drill fences.

The block model was visually checked for obvious anomalies in the interpolation. The resource was tabulated using a series of cut-off grades based on Ta_2O_5 content. Given a cut-off grade of 120 g/t Ta_2O_5 the Fir Carbonatite is estimated to contain a resource of:

Cut-Off Grade Ta_2O_5 (g/t)	Tonnes	Ta_2O_5 (g/t)	Nb_2O_5 (g/t)
120	12,075,093	203.1	1,074.0

Density of carbonatite used: 3.02

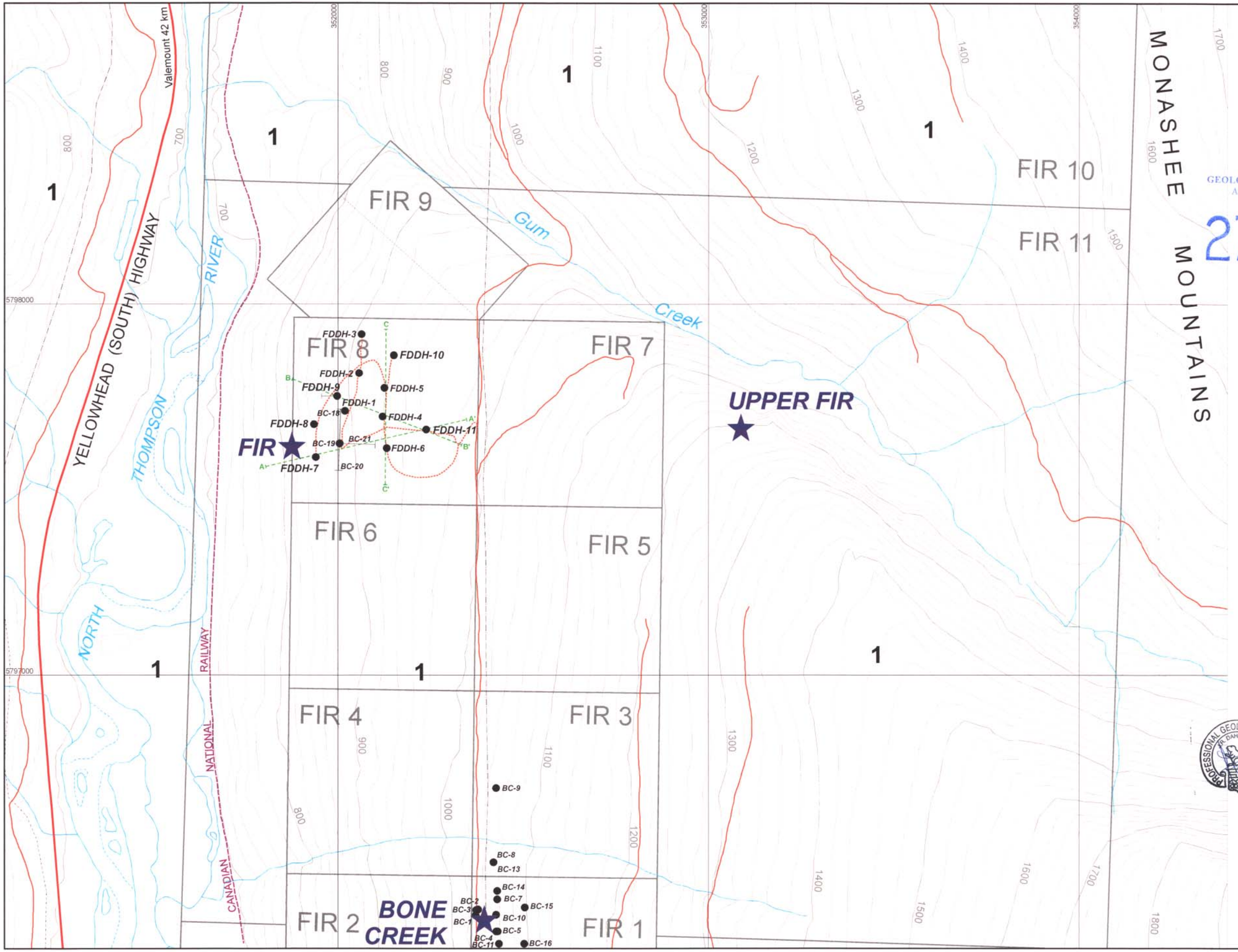
This preliminary resource is classified as inferred, with total contained metals of: 2452 tonnes Ta_2O_5 and 12,969 tonnes Nb_2O_5.

APPENDIX 6: 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 a 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.



LEGEND & SYMBOLS

WINDERMERE
HORSETHIEF CREEK GROUP
1 Quartzite, phyllite, schist, garnet, gneiss, amphibolite

★ Carbonatite Showing

- Highway
- Gravel road
- Drill access trail
- Railway
- Power transmission line
- FIR 4 Mineral claim boundary; name
- FDH-10 ● Drill hole; number
- A A' Cross-Section; number

NOTES

1) Geology after Campbell (1968).
2) Contour interval: 20 m.

Scale: 1:5000
0 200 400
metres

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EDMONTON, ALBERTA

BLUE RIVER AREA

Fig. 4.2 Locations of the Fir Carbonatite Drill Holes

MDS 2003.04

Approximate Mean Declination 1996
Decreasing 7.9' Annually

VERITY 10
PARADISE 1
PARADISE 2
PARADISE 3
MARA 7
MARA 6
MARA 5
VERITY 7
VERITY 1
VERITY 2
VERITY 8
VERITY 3
VERITY 4
VERITY 9
VERITY 5
VERITY 6
MARA 3
MARA 1
VERITY 11
MARA 4
MARA 2
PARADISE 5
PARADISE 6
PARADISE 9
PARADISE 10
VERITY 12
VERITY 13
SERP 1
SERP 2
SERP 3
SERP 4
SERP 5
SERP 6
FIR 10
FIR 9
FIR 8
FIR 7
FIR 6
FIR 5
FIR 4
FIR 3
FIR 2
FIR 1
FIR 11
FIR 12
THUNDER 5
C.N.R.
Switch Creek
Paradise Creek
Serpentine Creek
Pyramid Creek
Gum Creek
Bone Creek
Yellowhead Highway
Mill
Columbia Pit
Specimen Pit
East SP
South Paradise
Roadside
South SP
Serp 1
Serp 2
Serp 3
Serp 4
Fir
Upper Fir
Beaver Creek
ICEFIELD
MT CHEADLE

SYMBOLS

- Mineral deposit or showing
- Logging road
- FIR 12 — Mineral claim boundary; name
- Property boundary
- Claim post location
- 15676H 1,18 — Location of panned concentrate sample; assay (Ta,Nb (ppm))
- 13927 5,6251 — Location of rock sample; assay (Ta,Nb (ppm))

PROFESSIONAL GEOLOGIST OF ALBERTA
J.R. DAHROUGE

5

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Edmonton, Alberta

BLUE RIVER PROPERTY, BRITISH COLUMBIA

Figure 4.1
Locations of Rock and Stream Sediment Samples

0 1 2
SCALE (kilometres)

WM 2003.04