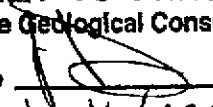


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COMMERCE RESOURCES CORP.

**2001 GEOLOGIC MAPPING, SAMPLING, AND
GEOPHYSICAL SURVEYS
ON THE FIR PROPERTY**

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

CLAIMS: FIR 1 to 12

Geographic Coordinates

**52° 18' N
119° 10' W**

NTS Sheet 83 D/6

Owner/Operator: Commerce Resources Corp.
600, 789 West Pender Street
Vancouver, B.C. V6C 1H2

Consultant: Dahrouge Geological Consulting Ltd.
18, 10509 - 81 Avenue
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Authors: J. Reeder, P.Geo.
Jody Dahrouge, P.Geo.

Date Submitted: 2002 02 11

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26,781

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1.

INTRODUCTION

Throughout this report the term Fir Property refers to the Fir 1 through 12 mineral claims, which encompass the tantalum-niobium-phosphate bearing Fir and Bone Creek carbonatites, located about 26 km north of Blue River, British Columbia. Claims Fir 1 to 9 were acquired by Commerce Resources Corp. during February, 2000 and claims Fir 10 to 12 were acquired during October, 2000.

Between May 15 and October 27, 2001, Commerce Resources Corp. conducted geologic mapping, collected thirteen rock, eight pan concentrates and seventy-five soil samples. A grid was established with a north-south baseline and east-west wing lines spaced 200 meters apart. About 10.40 line-km of grid was established with five-meter stations, and later surveyed by magnetometer.

1.1 GEOGRAPHIC SETTING

1.1.1 Location and Access

The Fir Property, which includes the Fir and Bone Creek carbonatites, is located in North Thompson River valley of east-central B.C. (Fig. 1.1), within NTS map area 83 D/6. The property is centred at about 52° 18' north latitude between 119° 09' and 119° 11' longitude. The Fir Carbonatite is located in the northern part of the property, whereas the Bone Creek Carbonatite is about 2 kilometres to the south.

The property is accessible from B.C. Highway 5 (Yellowhead South Highway) and is approximately 68 km south of Valemount, British Columbia and about 26 km north of Blue River. The main line of the Canadian National Railway passes through the western part of the property. The property is accessible from Gum Creek logging road, which branches from Highway 5 about 23 km north of Blue River. For the most part, the logging road follows a powerline corridor, which passes through the property.

1.1.2 Topography, Vegetation, Climate and Geographic Names

The Fir Property is between 720 m and 1240 m elevation above sea level. It is located along the steep western slopes of the Monashee Mountains. The property is covered by thick undergrowth consisting of buckbrush, devil's club and huckleberry. Areas not affected by recent logging are covered mostly by hemlock and cedar. Precipitation averages about 120 cm per year, and snowfall is generally heavy.

1.2 PROPERTY

The property is held under nine contiguous 2-post mineral claims (Fir 1 to 9) and three 4-post mineral claims (Fir 10 to 12), which encompass about 17¼ km², within Kamloops Mining (Fig. 1.2, Table 1.1). The claims are held 100 per cent by Commerce Resources Corp. (Commerce).

TABLE 1.1 LIST OF MINERAL CLAIMS

Claim Name	Tenure Number	Units/Claim	Record Date	Actual or Expected Expiry Date
FIR 1	380030	1	2000/2/15	2007/2/15
FIR 2	380031	1	2000/2/15	2007/2/15
FIR 3	380032	1	2000/2/15	2007/2/15
FIR 4	380033	1	2000/2/15	2007/2/15
FIR 5	380034	1	2000/2/15	2007/2/15
FIR 6	380035	1	2000/2/15	2007/2/15
FIR 7	380036	1	2000/2/15	2007/2/15
FIR 8	380037	1	2000/2/15	2007/2/15
FIR 9	380038	1	2000/2/15	2007/2/15
FIR 10	382163	20	2000/10/28	2006/10/28
FIR 11	382164	20	2000/10/28	2008/10/28
FIR 12	382165	20	2000/10/28	2006/10/28
	Totals	69		

1.3 HISTORY AND PREVIOUS INVESTIGATIONS

Exploration for carbonatites within the Blue River area began in about 1949 with the discovery of a vermiculite-bearing carbonate by Mr. Oliver E. French (Mariano, 1982). Subsequent exploration programs between about 1950 and 1980 included geologic mapping, geophysics, prospecting, stripping and trenching, and sampling for niobium, phosphate, vermiculite, uranium and tantalum.

Exploration culminated in 1980 and 1981 with a series of drill programs conducted by Anshutz Mining of Canada Ltd. This work was directed at the identification of carbonatite hosted tantalum mineralization, and included drilling the most promising of the known carbonatites: Bone Creek, Fir, Mill and Verity. Based primarily upon the 1980 and 1981 drill programs Aquist (1982a, p.1) concluded

"The carbonatite occurrences at Blue River, British Columbia have the highest tantalum concentrations of any carbonatite in the world."

And (Aquist, 1982b; p. 12),

"The Verity area, that was drilled in 1981, is the best defined and most continuous zone of carbonatite to date. About 2.13 million tons averaging 0.02% Ta_2O_5 and 0.126% Nb_2O_5 occur in the area..."

During 1987 and 1988, Digel et. al. (1989) located two new carbonatites within the Blue River area. The first, along Serpentine Creek, is exposed by a logging road at about 1370 m elevation. The second carbonatite is at about 2040 m elevation, on a small ridge just south of Gum Creek. It forms an approximately 10 m thick layer, concordant with the surrounding host rocks.

During February, 2000, Commerce re-staked the known carbonatites and conducted a short surface sampling program to confirm the known tantalum mineralization at both Fir and Verity, and to locate new exposures on recently constructed logging trails.

1.4 PURPOSE OF SURVEY

The work described in this report was primarily undertaken to define the surface trace of the Fir carbonatite.

1.5 SUMMARY OF WORK

Between May 15 and October 27, 2001, Jeff Reeder, P.Geo. and Jody Dahrouge, P.Geol., supervised the exploration of the Fir Property. Work included geologic mapping, the collection of 13 rock samples, nine pan concentrates, 75 soil samples, the establishment of about 10.36 line-km of grid, and the completion of about 8.55 line-km of ground magnetic surveys. The work was authorized by Commerce Resources Corp.

1.6 FIELD OPERATIONS

Field work was conducted by a total of seven personnel between May 15 and October 27, 2001. Personnel were based either at Summit River Lodge about 40 km north of the property, or in a motel in Valemount, with transportation to the property by either two- or four-wheel-drive vehicle. Garmin hand-held 'GPS' instruments were used to provide generalized location information. Accuracy was primarily dependant on forest cover, but generally varied from a few to about 50 meters.

2. REGIONAL GEOLOGY

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

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

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

3. PROPERTY GEOLOGY

3.1 STRATIGRAPHY, STRUCTURE AND LITHOLOGY

The Fir Carbonatite area is underlain by a sequence of nearly horizontal to shallow easterly dipping metasediments and interlayered metabasites of the Proterozoic Horsethief Creek Group. The gneisses have a general strike of 360° and dip 11° to 26° East (Aquist, 1982b). Pegmatite dykes, lenses and sills, each of which may be several meters across, intrude the sequence and cut all lithologies. The pegmatites generally consist of white feldspar and quartz with accessory muscovite. A number of flat-lying, sill-like carbonatites intrude the Proterozoic Horsethief Creek Group; they include Bone Creek, Fir and Gum Creek. The Fir Carbonatite has been identified in outcrop and intersected by four core holes over an area measuring about 350 m east-west and 450 m north-south. It consists of two subparallel sills of beforite; the lower sill is between 26 to 50 m thick, and the upper is up to 22 m thick.

Within the Blue River area the carbonatites are either sovite (calcite-dominated) or beforite (dolomite-dominated). Aquist (1982a) indicates that the most significant tantalum-niobium mineralization is confined to the beforites. In general those carbonatite sills composed of sovite are thin and universally barren. Both rock types are medium- to coarse-crystalline. Most exposures display layering defined by varying quantities of accessory minerals.

The carbonatites contain accessory minerals including Na-amphibole, pyroxene, phylogopite, magnetite, pyrite/pyrrhotite and apatite, as well as niobium and tantalum bearing minerals.

3.2 MINERALIZATION

In all cases the tantalum and niobium values are contained within the minerals pyrochlore $((Ca,Na)_2Nb_2O_6(OH,F))$, ferrocolumbite $(FeNb_2O_6)$ and fersmite $((Ca,Na)Nb_2(O,OH,F)_6)$. Tantalum may substitute for niobium in either the pyrochlore or ferrocolumbite structures. While uranium may substitute for calcium or sodium within the A-Site of the pyrochlore structure; however, it is generally not present within either ferrocolumbite or fersmite (Mariano, 1982).

At Bone Creek, pyrochlore is the dominant tantalum bearing mineral, while at Fir the dominant tantalum bearing mineral is ferrocolumbite.

3.2.1 Bone Creek Carbonatite

The Bone Creek Carbonatite is within in the south-central part of the Fir Claim Group. A total of 17 NQ core holes, completed in 1981, showed that the carbonatite is near flat-lying, discontinuous, and typically less than 5 m thick (Aquist, 1982a). According to Mariano (1982, p. 50)

"A continuous stream running over an apatite beforosite outcrop on the Bone Creek logging road has caused decalcification of dolomite and simultaneous replacement by Fe³⁺ oxide muds insitu....

Pyrochlore crystals that appear to be black, on close scrutiny, are found to be dark mahogany brown. They are mostly rounded grains but some show well-developed octahedrons with the dodecahedral modification. The average grain size for the pyrochlore is 0.75 mm but some grains exceed 5 mm in dimension."

Results typical of the Bone Creek carbonatite include BC-4 (Ahroon, T.A; 1980) with 262 g/t Ta₂O₅ and 2,831 g/t Nb₂O₅ across 4.1 m (25.4 - 29.6 m). Two surface samples collected from weathered boulders at the approximate location of the Bone Creek Carbonatite (Fig. 3.2) contained highly anomalous concentrations of tantalum and niobium (Table 3.2).

3.2.2 Fir Carbonatite

According to Mariano (1982) the Fir Carbonatite is almost exclusively Beforsite, composed predominately of ferroan dolomite with minor apatite and dark-green amphibole. Both outcrops and drill core display primary igneous layering with bands that are richer and poorer in non-carbonate minerals. Fentized country rock associated with the carbonatite appears limited to narrow intervals, with amphibole-rich layers and pods up to 1 m across. Macroscopic textures such as a diffuse gneissocity, augen gneiss and tectonic brecciation indicate (Mariano, 1982, p.1)

"extensive tectonic deformation and post-emplacement metamorphism with significant mineralogical and geochemical redistribution."

Prior ore mineralogical studies by Mariano (1982) identified two primary Ta-bearing phases: ferrocolumbite ($\text{Fe}(\text{Nb}, \text{Ta})_2\text{O}_6$) and pyrochlore ($((\text{Ca}, \text{Na})_2(\text{Nb}, \text{Ta})_2\text{O}_6(\text{OH}, \text{F}))$). For rocks examined from the Fir Carbonatite Mariano noted an approximate ratio of 20:1 columbite to pyrochlore and that

"all pyrochlores examined from BC-19 are relatively low in U and high in Ta. They are light yellow in color and occur as grains intimately crystallized with ferrocolumbite and as isolated crystals in the dolomite ground mass. ... Unlike BC-19, BC-21 core at 173.6 m contains jet black pyrochlore that is strongly radioactive indicating high U content."

TABLE 3.2: WHOLE ROCK AND TRACE GEOCHEMISTRY OF SAMPLES FROM THE BONE CREEK AND FIR CARBONATITES*

Samples Composition	Bone Creek		Fir			
	15028A	15028B	10529	10530	10533	10535*
<u>Major Elements (weight %)</u>						
CaO	13.79	16.82	29.47	29.15	30.52	32.23
MgO	2.96	12.26	15.47	15.50	15.18	14.24
SiO ₂	24.73	48.61	2.56	1.76	1.10	1.58
TiO ₂	0.35	0.53	0.02	0.02	0.01	0.01
Al ₂ O ₃	7.06	4.35	0.07	0.03	0.05	0.05
Fe ₂ O ₃	23.84	10.72	7.96	8.15	7.35	7.33
Na ₂ O	1.23	2.02	0.36	0.42	0.31	0.09
K ₂ O	0.92	0.23	0.05	0.05	0.03	0.03
P ₂ O ₅	9.6	1.73	2.25	2.01	2.06	3.87
<u>Trace Elements (ppm)</u>						
Ta ₂ O ₅	576	137	188	148	147	216
Nb ₂ O ₅	1907	610	3006	2768	3016	929
Cu	78	19	4	< 1	< 1	2
Ni	211	26	< 1	< 1	< 1	1
Rb	52	5	3.7	2.8	11.5	2.5
Sr	1694	615	5247	5153	5234	3932
Th	32	5	7	8.5	7	5.2
U	231	23	5	4.2	3.1	41.3
V	84	143	11	9	8	8
Zr	200	36	8.5	6.4	6.4	26.9
<u>Ratios</u>						
Nb ₂ O ₅ / Ta ₂ O ₅	3.31	4.45	15.99	18.70	20.52	4.30
Ta ₂ O ₅ / U	2.49	5.96	37.60	35.24	47.42	5.23

* See Appendix 2A for analytical results and Appendix 3A for sample descriptions.

* Sample 10535 is from float along rail line and may be derived from either the Bone Creek or Fir Carbonatite.

In 1981 four NQ-sized diamond drill holes (Aquist, 1982a) intersected the main Fir Carbonatite. The best intersection obtained during the 1981 program was Hole BC-19: 8.2 m of 319 g/t Ta_2O_5 , 1400 g/t Nb_2O_5 and 3.15 per cent P_2O_5 . This intersection likely correlates to surface exposures mapped and sampled during 2001 (Appendix 3A, Table 3.2).

4. 2001 EXPLORATION AND FIELD WORK

4.1 SAMPLING AND ANALYTICAL PROCEDURES

Thirteen rocks samples were collected during 2001 (Fig. 3.2). Samples were taken from both the Bone Creek and Fir carbonatites and consisted of both chip and grab samples (Appendix 2A). Nine pan concentrates were collected from various streams draining the property. The material was collected by filling a five gallon pail with -1 cm material, which was panned to about 1 kg of concentrate (Appendix 2B).

Seventy-five soil samples were collected in the northern portion of the Fir Claim Group (Appendix 2B; Fig. 3.1). Samples were collected at 40-metre intervals along those lines thought to cover the possible strike extensions of the Fir Carbonatite. Samples were collected at 20-metre intervals along line 7600 North, for orientation purposes. All samples taken were of the B-Horizon which varied from 20 to 30 centimetres depth.

Pan concentrate, rock, and soil samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for preparation and analyses for both whole rock and trace element constituents by standard ICP techniques. Analytical reports from Acme Analytical Laboratories Ltd. are in Appendices 2A, 2B and 2C, and descriptions of the samples are in Appendices 3A, 3B and 3C.

4.2 GRID ESTABLISHMENT

In preparation for ground geophysical surveys and mapping a grid was established, based on the UTM NAD 83 Grid System (Fig. 3.2). The base line (BL 2400 East) was placed north-south and was corrected for variations in slope. East-West cross lines were spaced 200 metres apart and were blazed and marked with flagging at 5-m intervals. They totalled 10.36 line-km.

4.3 MAGNETOMETER GEOPHYSICAL SURVEY

Although the Fir Carbonatite is not known to contain significant concentrations of magnetite, the grid were surveyed using a ground magnetometer, at 5-m stations along each cross-line. Magnetometer readings were collected using a GEM System GSM-19 integrated Overhauser effect proton procession magnetometer. The magnetic readings were corrected for diurnal magnetic variations using a stationary GSM-19 base station. The corrected magnetometer data (Appendix 4) was processed, gridded, and used to generate a series of magnetic profiles (Fig. 4.1). About 8.55 line-km of a ground magnetic survey were completed at the Fir Property.

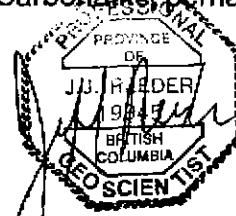
5. DISCUSSION AND CONCLUSIONS

The 2001 exploration confirmed that soil sampling is an effective method in locating buried carbonatite. Amongst other constituents, the niobium and tantalum bearing minerals appear to have been liberated and incorporated within the overlying soil profile. An orientation soil survey line, 7600 North, was centered over known outcrops of the Fir Carbonatite. Soil samples were collected at 20 m intervals, and returned an approximately 100 m long anomaly with between 27 and 212 ppm tantalum and 329 to 2251 ppm niobium. Although apparently less pronounced on adjacent lines, the anomaly can be traced from line 7400 to 8000. The anomaly remains open to the north of line 8000.

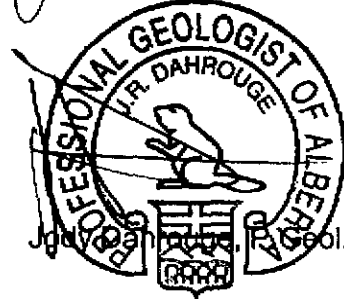
Of particular interest is a second anomaly about 500 m upslope of the Fir Carbonatite on line 7600 North. It is centered at 2250E, 7600N with 22 ppm tantalum and 204 ppm niobium. The anomaly is at approximately the same stratigraphic position as the Bone Creek Carbonatite, which is located more than 1,500 meters to the south. If this occurrence is part of the Bone Creek Carbonatite it confirms the relatively continuity of the local stratigraphic sequence within the area of the Bone Creek and Fir carbonatites. Additional soil sampling is required to trace the possible extensions of both carbonatites.

Pan concentrate sample 18083 collected from a creek, a few hundred meters downslope of the Fir Carbonatites confirms the effectiveness of this method in identifying tantalum and niobium bearing deposits. Two additional samples, 18082 and 18085, from the southern part of the claims also returned anomalous values. The likely source for these samples is the Bone Creek carbonatite.

The ground magnetic survey failed to delineate the known Fir Carbonate, perhaps due to the paucity of magnetic minerals within the occurrence.



Jeff Reeder, B.Sc., P. Geo.

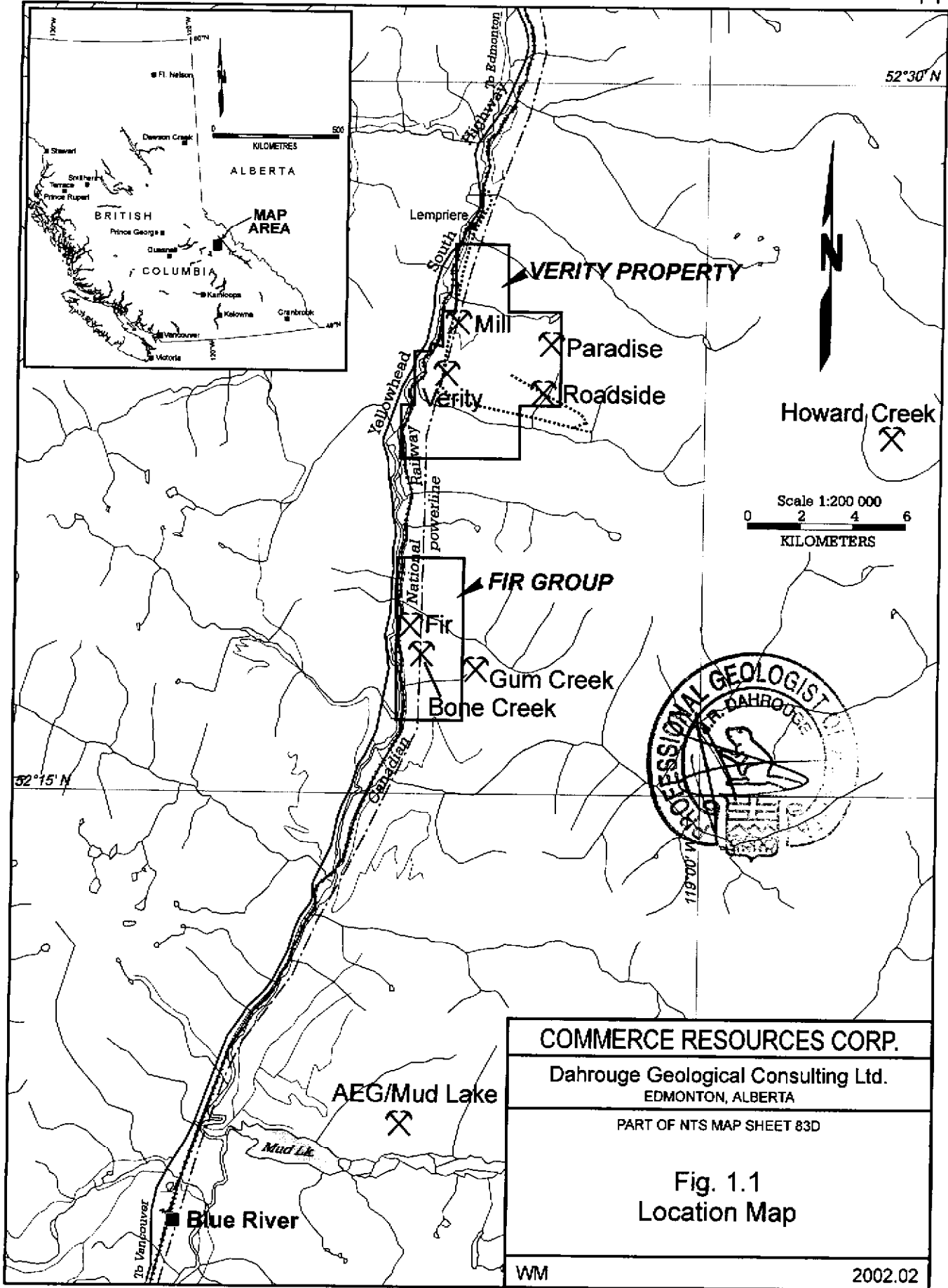


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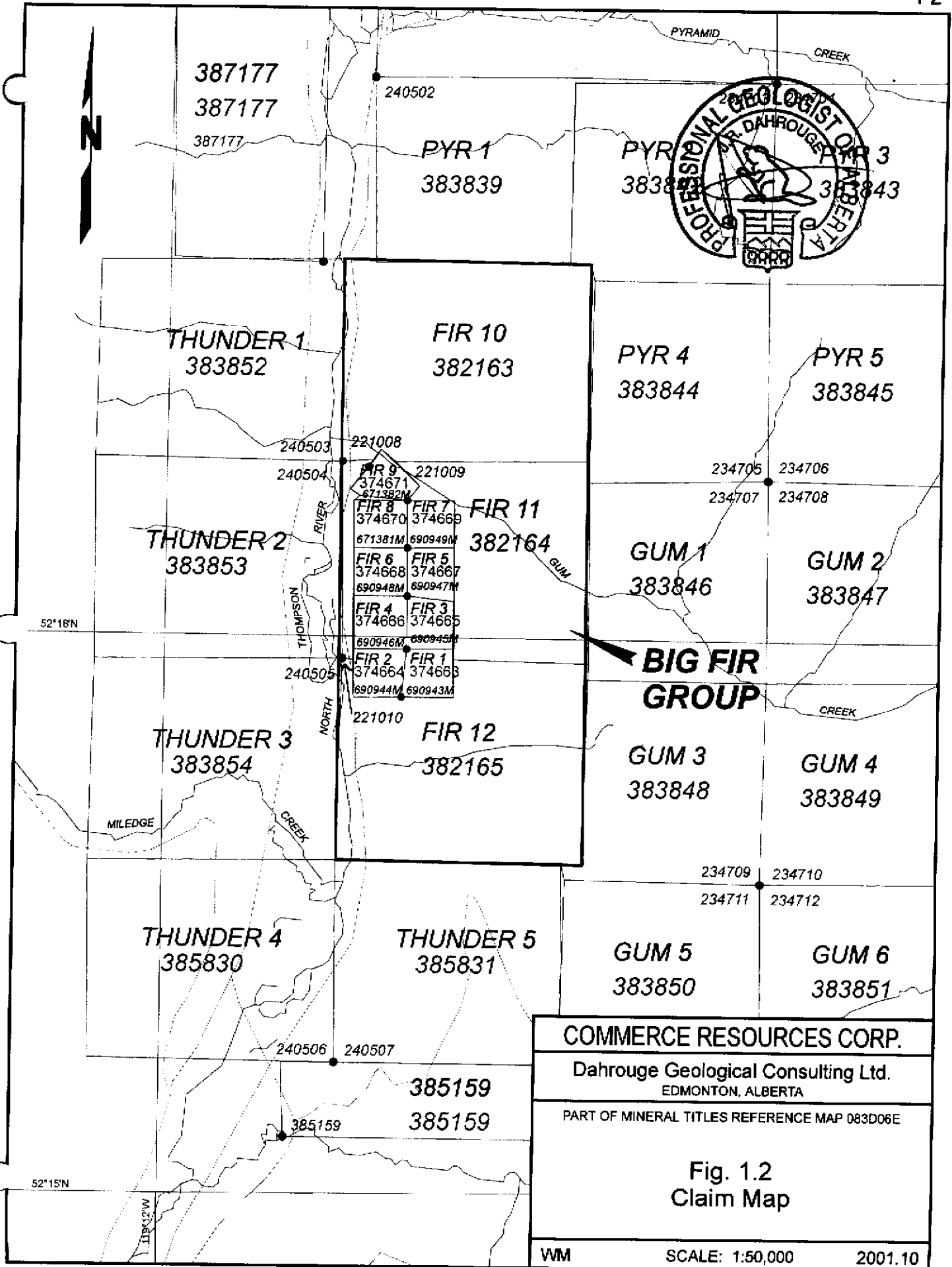
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COMMERCE RESOURCES CORP.	
Dahrouge Geological Consulting Ltd. EDMONTON, ALBERTA	
PART OF NTS MAP SHEET 83D	
Fig. 1.1 Location Map	
WM	2002.02



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EDMONTON, ALBERTA

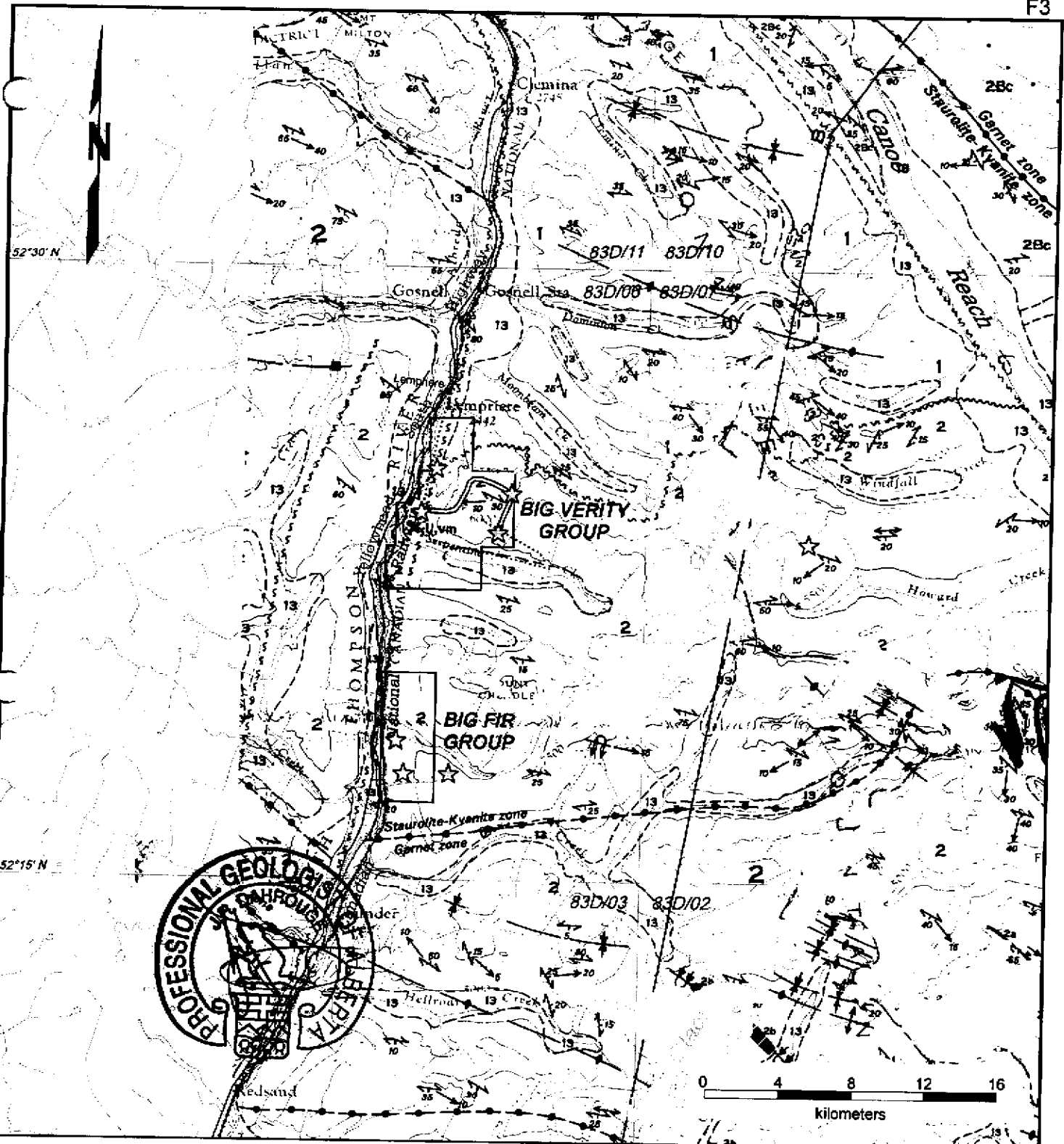
PART OF MINERAL TITLES REFERENCE MAP 083D06E

Fig. 1.2
Claim Map

WM

SCALE: 1:50,000

2001.10



LEGEND AND SYMBOLS

PLEISTOCENE AND RECENT

13 Alluvium and glacial deposits

☆ Carbonatite (location approx.)

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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EDMONTON, ALBERTA

BLUE RIVER AREA, BRITISH COLUMBIA

Fig. 2.1
Regional Geology

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

APPENDIX 1: CONTINUED

e) <u>Drilling</u>	n/a			
f) <u>Analyses</u>				
13 samples @	\$ 32.64	ICP analyses (Acme)	\$ 424.26	
2 samples @	\$ 13.21	Precious Metal Geochem analyses (Acme)	\$ 26.43	
13 samples @	\$ 5.08	Rock Sample Preparation	\$ 66.07	
8 samples @	\$ 35.90	Silt: ICP whole rock and trace analyses (Acme)	\$ 287.19	
8 samples @	\$ 1.65	Silt: Sample Preparation	\$ 13.18	
75 samples @	\$ 23.54	Soil: ICP whole rock and trace analyses (Acme)	\$ 1,765.50	
75 samples @	\$ 5.47	Soil: Sample Preparation and storage	\$ 410.48	
				\$ 2,993.11
g) <u>Report</u>	Reproduction and assembly		\$ 168.45	\$ 168.45
h) <u>Other</u>	Courier and Shipping		\$ 199.83	
	Field Equipment and Supplies		\$ 323.83	
	Long distance telephone		\$ 61.73	
	Plots		\$ 205.98	
	Reports and Maps		\$ 47.87	
	Reproductions and photocopying		\$ 220.83	
				\$ 1,060.06
<u>Total</u>				<u>\$ 40,250.00</u>

APPENDIX 2A:

ANALYTICAL REPORT BY ACME ANALYTICAL LABORATORIES LTD.
FOR ROCK SAMPLES COLLECTED FROM THE FIR CLAIMS*

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 Dahrouge Geological Consulting

Acme file # A9101924 Received: JUN 29 2001 * 17 samples in this disk file.

ELEMENT SAMPLES	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Ni ppm	Sc ppm	LOI %	TOT/C %	TOT/S %	SUM %
7002*	1.99	0.05	8.16	15.35	29.16	0.58	0.06	0.02	2.3	0.84	0.006	34	40	5	38.9	11.33	0.13	97.42
7003*	1.96	0.06	7.78	15.23	29.5	0.52	0.06	0.02	2.53	0.87	0.001	54	39	5	39.2	11.42	0.07	97.74
10526	0.9	< .03	1.58	3.47	50.1	0.24	0.04	0.01	3.65	0.25	< .001	412	78	12	38.6	10.85	0.01	98.92
10527A	0.92	0.28	3.14	16.91	32.94	0.12	0.04	0.03	3.95	0.43	0.005	48	51	6	40.1	11.33	< .01	98.88
10527B	0.17	0.15	84.43	2.95	4.36	0.08	0.04	1.68	0.46	0.33	0.001	21	33	4	4.7	1.9	< .01	99.35
10528A*	24.73	7.06	23.84	2.96	13.79	1.23	0.92	0.35	9.6	1.72	0.009	647	347	15	12.3	1.88	0.03	98.63
10528B*	48.61	4.35	10.72	12.26	16.82	2.02	0.23	0.53	1.73	0.58	0.005	138	104	20	1.8	0.11	0.11	99.69
10529*	2.56	0.07	7.96	15.47	29.47	0.36	0.05	0.02	2.25	0.91	0.001	56	37	5	38.8	11.42	0.2	97.93
10530*	1.76	< .03	8.15	15.5	29.15	0.42	0.05	0.02	2.01	0.87	0.004	41	96	5	40.1	11.81	0.18	98.07
RE 10530*	1.6	0.04	8.05	15.39	29.85	0.39	0.05	0.02	1.87	0.87	0.006	40	26	5	40	11.52	0.21	98.15
10531*	1.63	0.03	7.94	15.55	29.15	0.38	0.04	0.01	1.06	0.84	0.001	40	28	5	41.7	12	0.12	98.34
10532*	2.41	0.06	8.23	15.27	29.26	0.49	0.05	0.01	1.33	0.84	0.005	48	46	6	40.5	11.42	0.12	98.46
10533*	1.1	0.05	7.35	15.18	30.52	0.31	0.03	0.01	2.06	0.88	0.005	52	20	4	40.5	11.9	0.07	98
10534*	2.75	0.07	8.17	14.99	28.76	0.51	0.06	0.02	1.68	0.94	0.004	99	< 20	6	40.1	11.23	< .01	98.06
10535*	1.58	0.05	7.33	14.24	32.23	0.09	0.03	0.01	3.87	0.76	0.003	46	25	4	38.7	10.94	0.05	98.91
10536	2.86	0.27	5.15	9.28	39.89	0.11	0.04	0.87	1.15	0.18	0.007	280	67	16	39.5	11.14	< .01	99.35
10537	31.87	2.14	15.39	11.09	20.52	0.17	0.15	0.12	9.22	0.74	0.01	123	147	25	8	0.99	< .01	99.46
STANDARD SO-15/CSB	49.02	12.96	7.31	7.3	5.97	2.28	1.83	1.76	2.55	1.41	1.075	1976	81	13	5.9	2.42	5.33	99.59

* As received by e-mail.

* Sample from Fir Property.

APPENDIX 2A:

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 Dahrourge Geological Consulting

Acme file # A9101924 Received: JUN 29 2001 * 17 samples in this disk file.

ELEMENT	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Ti	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7002*	16.5	0.2	1.1	<.5	2570	2	<1	4934	62.7	19.7	0.2	1.8	<5	<1	8.5	25.6	118.9	254.3	29.14	109.2	17.9	5.48	12.42	1.51	7.86	1.1	2.68	0.24	1.55	0.18
7003*	14.3	0.4	1	<.5	2292	1.8	<1	5052	134.7	7.4	0.2	7.6	<5	<1	8.8	27.5	122.7	262.7	30.81	118.6	19.8	6.18	13.85	1.71	8.9	1.21	2.86	0.29	1.49	0.22
10528	2.7	0.5	<.5	8.7	16.6	1.9	<1	5284	3.1	1.4	0.1	2.2	11	<1	603.9	78.4	234.8	503.5	59.2	226.3	41.5	13.14	30.65	3.74	20.45	3.08	7.27	0.8	4.55	0.61
10527A	9.2	0.4	1.2	0.8	650.1	2.6	1	4570	82.1	19.8	0.1	39.8	7	<1	36	33.6	135.1	321.9	39.59	157.5	28.1	6.11	19.42	2.17	10.86	1.38	3.24	0.33	1.7	0.25
10527B	43.7	0.5	16.6	<.5	228	2.6	2	750.1	11.1	1.8	0.2	2.8	1264	4	6.1	4.9	19.4	44.3	5.37	20.3	3.4	1.15	2.72	0.29	1.59	0.19	0.39	<.05	0.24	0.04
10528A*	108.5	2.6	10.2	3.4	1333	52.3	<1	1694	472.1	32	0.4	230.9	84	3	200.3	91.8	297.7	745.8	77.23	292.2	55.3	15.73	40.88	4.94	24.05	4	10.1	1.07	6.55	0.91
10528B*	33.3	0.4	8.9	1.3	426.1	5.2	2	615.1	112.2	5.3	0.2	22.9	143	7	38.2	34.2	61.1	152.5	17.3	88.9	13	3.8	11.44	1.58	8.11	1.4	3.5	0.43	2.37	0.35
10529*	15.5	0.5	1	<.5	2101	3.7	1	5247	153.7	7	0.2	5	11	<1	8.5	26.3	116.7	252.1	28.83	111.6	19.4	5.82	13.1	1.6	8.16	1.05	2.73	0.28	1.7	0.23
10530*	19.1	0.4	1	<.5	1788	2.8	<1	5153	112.2	8.5	0.2	4.2	9	<1	6.4	23.5	108.9	234.3	26.54	95.7	16.9	5.02	11.75	1.4	7.21	1.02	2.41	0.25	1.47	0.19
RE 10530*	16.6	0.8	1.4	<.5	1935	2.9	3	4952	120.8	8.6	0.3	4.6	9	<1	6.4	23.1	105.9	228	25.8	96.3	17.2	5.01	11.9	1.41	6.89	1.05	2.3	0.24	1.44	0.18
10531*	14.8	0.4	1.1	<.5	1732	2.9	<1	4781	98.7	5	0.3	1.9	9	<1	5.1	17	75.5	159.8	17.98	66.1	11.3	3.48	7.88	0.94	4.73	0.68	1.62	0.17	0.98	0.14
10532*	15.3	0.3	1.3	<.5	1285	3.1	<1	4640	64.8	7.8	0.2	1	10	<1	5.3	18.9	90.2	189.8	21.1	79.8	14	4.02	9.05	1.14	5.57	0.83	1.98	0.2	1.13	0.18
10533*	12.2	0.5	0.7	<.5	2108	11.5	<1	5234	120.8	7	0.1	3.1	8	<1	6.4	24.9	116.2	247.5	28.05	106.8	18.5	5.45	13.5	1.48	7.53	1.11	2.52	0.27	1.46	0.23
10534*	9.3	0.8	0.8	<.5	2079	3.3	<1	4859	78.5	5.3	0.1	1	9	<1	6.4	22.4	104.6	221.9	24.96	91.8	16.5	4.77	11.26	1.25	6.57	1.01	2.3	0.23	1.42	0.17
10535*	9.7	0.7	1	<.5	649.1	2.5	<1	3932	177	5.2	0.1	41.3	8	1	26.9	33.5	140.5	303.7	35.51	135.8	23.4	7.16	17.2	2.07	9.3	1.45	3.42	0.31	1.89	0.28
10536	27.5	0.4	4.5	36.8	95.7	2.8	<1	1887	16.9	0.8	<.1	3.2	76	<1	1467	29.5	110.7	220.8	24.95	95.1	19.6	5.42	13.38	1.63	7.51	1.19	2.71	0.26	1.89	0.24
10537	48.5	0.9	5.4	2.8	224.6	8.3	<1	1433	65.4	3.9	0.2	51.4	80	2	124.3	62.6	310.1	887.4	78.27	306.4	56.3	15.01	38.31	4.05	19.22	2.88	6.92	0.73	4.3	0.6
STANDARD SO-15	22.2	2.8	17.3	26.3	28	63	17	412.7	1.7	23.2	1	20.9	149	20	1130	21.9	27.9	57.2	6.07	23.3	4.8	1.07	3.92	0.58	3.79	0.82	2.54	0.37	2.47	0.4

* Sample from Fir Property

APPENDIX 2A:

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 Dahrouge Geological Consulting										
Acme file # A9101924 Received: JUN 29 2001 * 18 samples in this disk file.										
ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7002*	3	5	< 3	30	< 1	< 2	0.6	0.5	< .5	< .5
7003*	2	3	< 3	33	< 1	< 2	0.6	0.6	0.6	< .5
10526	1	1	< 3	11	< 1	< 2	0.2	0.8	0.7	< .5
10527A	1	2	3	26	< 1	< 2	0.3	< .5	0.5	< .5
10527B	13	3	< 3	141	< 1	< 2	< .2	< .5	< .5	< .5
10528A*	41	78	16	79	211	< 2	0.6	< .5	1.4	< .5
10528B*	4	19	7	25	26	< 2	0.2	< .5	0.8	< .5
10529*	3	4	< 3	33	< 1	< 2	0.6	< .5	1.4	< .5
10530*	3	< 1	< 3	41	< 1	< 2	0.6	0.6	< .5	< .5
RE 10530*	3	< 1	< 3	33	< 1	< 2	0.6	< .5	< .5	< .5
10531*	3	< 1	< 3	34	< 1	< 2	0.5	< .5	< .5	< .5
10532*	3	< 1	< 3	37	< 1	< 2	0.5	< .5	< .5	< .5
10533*	2	< 1	< 3	34	< 1	< 2	0.6	0.9	0.6	< .5
10534*	3	< 1	< 3	41	< 1	< 2	0.6	< .5	0.5	< .5
10535*	3	2	< 3	33	1	< 2	0.4	0.9	0.5	< .5
10536	1	68	< 3	21	47	< 2	< .2	1.2	< .5	< .5
10537	7	50	15	36	69	3	0.5	< .5	< .5	< .5
STANDARD C3	27	65	32	168	35	62	24	14.5	22.6	6
STANDARD G-2	3	3	< 3	49	8	< 2	< .2	< .5	< .5	< .5

* Sample from Fir Property

APPENDIX 2A:

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 Dahrouge Geological Consulting

Acme file # A101471 Received: MAY 29 2001 * 9 samples in this disk file.

ELEMENT	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
SAMPLES	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
10643*	3.91	0.08	8.63	14.37	29.85	0.42	0.07	0.01	2.41	1	0.007	57	22	5	39.1	11.23	0.13	99.87
10644*	2.54	0.05	8.99	15.94	30.06	0.29	0.05	< .01	0.64	1.07	0.007	53	< 20	4	40.6	12.19	0.08	100.25
10645	2.73	0.11	6.42	16.18	30.65	0.23	0.17	0.08	3.92	0.32	0.008	115	< 20	21	39.7	11.14	< .01	100.53
10646	2.27	0.03	6.04	17.11	30.01	0.19	0.15	0.01	2	0.38	0.005	106	24	39	42.1	12	0.02	100.32
10647	1.38	< .03	5.89	16.97	30.8	0.08	0.08	0.01	2.91	0.32	0.01	94	67	16	41.8	11.9	0.02	100.28
10648	1.68	< .03	5.51	18.1	29.58	0.14	0.16	< .01	1.11	0.37	0.008	151	44	23	43.5	12.19	0.06	100.18
RE 10648	1.61	< .03	5.56	18.13	29.52	0.15	0.13	< .01	0.99	0.37	0.01	153	< 20	23	43.7	12.48	0.04	100.19
10649	2.1	< .03	5.84	17.71	30.19	0.21	0.16	0.01	2.05	0.37	0.011	117	106	25	41.7	11.71	0.06	100.38
10650	2.31	< .03	5.81	17.37	29.73	0.26	0.19	0.01	2.23	0.37	0.007	120	< 20	28	41.8	11.62	0.06	100.11
STANDARD SO-15/CSB	50.17	12.95	7.14	7.21	5.82	2.44	1.85	1.71	2.71	1.37	1.05	1976	76	13	5.9	2.44	5.35	100.55

* As received by e-mail.
 * Sample from Fir Property.

APPENDIX 2A:

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 Dahrouge Geological Consulting

Acme file # A101471 Received: MAY 29 2001 * 9 samples in this disk file.

ELEMENT	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
10643*	15.8	<.1	<.5	<.5	1915	1.6	<1	4299	144.9	4	0.4	2.4	11	<1	8.2	25.4	117.9	239.4	27.41	107	16.4	4.84	12.66	1.45	6.48	1.15	2.32	0.3	1.41	0.19
10644*	14	<.1	<.5	<.5	665.3	<.5	<1	4022	41.3	1	0.2	0.1	9	<1	8	13.5	64.5	125.2	13.55	51.6	8.1	2.45	6.01	0.71	3.5	0.56	1.37	0.17	0.87	0.16
10645	24.9	0.1	2.6	0.8	615.8	2.1	1	3108	112.1	4.2	0.2	62.5	35	<1	29.9	21.4	158.4	308.6	35.57	132.8	20.6	5.98	14.87	1.61	6.54	0.96	1.89	0.21	1.07	0.12
10646	19.3	0.2	<.5	<.5	1778	1.9	<1	3190	79.2	9.2	0.2	8.4	9	<1	5.5	14.3	109.7	216.1	24.47	92.6	13.8	3.97	9.98	1.03	4.42	0.69	1.23	0.15	0.79	0.11
10647	16	0.3	1.8	1.2	26	4.4	<1	3368	7	0.6	0.2	4.3	19	<1	52.9	18.1	133.2	270.3	30.79	120.8	17.8	5.05	12.45	1.34	5.54	0.8	1.58	0.19	0.86	0.11
10648	23.9	0.2	<.5	<.5	602.3	3.5	<1	4098	106.9	2.1	0.2	44.8	7	<1	2.7	12.6	108.3	203.1	22.28	82.9	12	3.39	8.31	0.84	3.92	0.54	1.08	0.13	0.8	0.09
RE 10648	22.9	<.1	<.5	<.5	613.7	1.9	<1	4115	113.1	2.2	0.2	48.4	7	<1	2.1	12.8	101.6	201.2	21.89	82.4	12.4	3.57	8.29	0.86	3.66	0.6	1.05	0.13	0.61	0.07
10649	22.8	<.1	<.5	<.5	1211	1.6	1	4159	160.4	3.7	0.2	57.2	10	<1	2.7	18.4	154.2	297.9	33.41	121.1	17.7	5.39	12.88	1.38	5.93	0.85	1.63	0.16	0.87	0.09
10650	21.5	<.1	<.5	<.5	1578	2.2	2	4147	153.6	5.4	0.2	36.4	13	<1	3.6	19	155.4	302.8	33.08	125.9	18.1	5.2	13.04	1.38	5.33	0.87	1.68	0.2	0.87	0.09
STANDARD SO-15	21.4	2.7	17.4	26.4	32.6	66.6	16	401	1.8	24.4	1	20	155	18	1048	24.1	29.2	57.7	6.16	22.3	3.9	0.98	4.2	0.64	3.85	0.86	2.49	0.42	2.58	0.44

* Sample from Fir Property

APPENDIX 2A:

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 Dahrouge Geological Consulting

Acme file # A101471 Received: MAY 29 2001 * 10 samples in this disk file.

ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au**	Pt**	Pd**
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
10643*	1	< 1	< 3	34	< 1	< 2	0.8	< .5	< .5	< .5	< 2	< 2	3
10644*	< 1	< 1	< 3	33	< 1	< 2	0.5	0.8	< .5	< .5	3	< 2	4
10645	1	1	< 3	21	< 1	< 2	0.3	0.7	< .5	< .5	4	< 2	< 2
10646	1	< 1	< 3	17	< 1	< 2	0.3	< .5	< .5	< .5	2	< 2	2
10647	1	< 1	< 3	20	< 1	< 2	0.2	0.7	< .5	< .5	2	< 2	2
10648	1	< 1	< 3	17	< 1	< 2	0.4	< .5	< .5	< .5	2	< 2	3
RE 10648	1	< 1	< 3	18	< 1	< 2	0.4	< .5	< .5	< .5	< 2	5	2
10649	1	< 1	< 3	17	1	< 2	0.4	0.5	< .5	< .5	< 2	3	< 2
10650	1	< 1	< 3	20	1	< 2	0.4	< .5	< .5	< .5	< 2	3	< 2
STANDARD C3/FA-10R	26	67	32	177	34	62	25	14.7	21.6	5.9	502	468	493
STANDARD G-2	2	2	3	49	7	< 2	< 2	< .5	< .5	< .5	0	0	0

* Sample from Fir Property

APPENDIX 2B:

ANALYTICAL REPORT BY ACME ANALYTICAL LABORATORIES LTD.
FOR SOIL SAMPLES COLLECTED FROM THE FIR CLAIMS *

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 Dahrouge Geological Consulting

Acme file # A101923 Page 1 (a) Received: JUN 29 2001 * 39 samples in this disk file.

ELEMENT	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
15201	737	11.6	5.3	22.3	5.3	98.9	139.2	5	222.1	5.4	11.3	0.7	3.1	73	4	179.2	19.2	39.5	84.2	8.78	31.8	5.9	1.07	4.53	0.59	3.63	0.7	1.91	0.27	1.85	0.3
15202	731	5.8	3.1	15	3.6	15.8	113.1	2	244.5	1.5	9.1	0.5	2	36	4	123.1	17.6	30.4	62	6.71	23.7	4.5	0.79	3.72	0.5	2.92	0.55	1.85	0.26	1.72	0.26
15203	646	9.9	3.5	16.5	5.4	41	104.7	3	240	3	12	0.4	2.9	54	5	189.1	24.7	44.1	91.7	10.23	36.9	6.8	1.35	5.12	0.73	4.74	0.86	2.91	0.39	2.44	0.35
15204	608	43.3	4.6	18.4	4.2	104.3	75.2	2	513.3	50.2	16.8	0.3	3.1	88	4	136.9	29	86.1	214.5	20.74	75.1	14.5	3.9	9.85	1.27	7.18	1.22	3.22	0.41	2.67	0.35
15205	548	41.3	5.5	18.8	3.3	329.8	69.6	2	522.9	27.4	11	0.3	3.5	87	3	104.1	32	83.2	190.6	20.02	73.4	13.9	3.67	9.83	1.3	7.02	1.17	3.28	0.39	2.52	0.41
15206	735	45	5.2	15.8	3.7	1077	73.3	3	744.4	88.4	16.1	0.3	7.5	85	4	135	52.9	140.3	297.2	34.35	125	23.1	8.18	15.93	2.09	11.48	1.98	5.41	0.69	4.48	0.64
15207	822	57.6	6	12.8	2.8	2251	55.3	3	1078	212.8	23	0.3	10.8	72	3	94.1	69.4	215.4	444	52.93	190.4	33.2	10.22	24.45	3.06	15.59	2.65	7.03	0.78	5.15	0.73
15208	618	38.5	4.4	19.4	4.7	1363	128.2	4	675.1	112.9	18.5	0.3	4	112	4	156.9	52.2	126.1	275.9	28.99	105.6	18.6	5.15	13.81	1.83	10.85	1.95	5.6	0.64	4.07	0.58
15209	774	33.7	7	22.9	5.2	128.7	181.9	3	236.1	5.9	20.8	0.2	3.4	104	7	176.4	29.6	71.5	142.7	15.28	53.3	10	1.86	7.24	1.05	6.06	1.1	3.25	0.41	2.56	0.41
15210	922	33.2	7.1	23.1	5.2	85	154.1	4	255	3.6	20.6	0.3	5	108	6	198	38.8	72.6	143.8	15.61	55.1	10.2	2.06	7.62	1.14	7.15	1.39	4.05	0.54	3.58	0.55
15211	822	37.1	6.9	19.9	6.1	62.6	127.4	5	238.6	2.7	19.9	0.3	4.7	102	6	203.7	33.4	66.8	127.2	13.96	49.5	9.3	1.88	6.8	1.01	6.2	1.18	3.51	0.48	3.15	0.45
15212	803	9.3	4.5	20.6	6.7	29.1	102.2	3	227.1	2.2	13.8	0.2	2.7	78	5	226.9	28.5	47.4	90.3	10.38	36.7	7.1	1.3	5.44	0.79	5.26	0.98	3.31	0.43	3.1	0.46
15213	1109	16.1	6.6	22.2	6.9	25.3	132.2	3	250.1	1.9	15.3	0.4	3.8	80	6	228.9	36.6	48.9	97.9	10.98	40.5	7.5	1.49	5.89	0.94	5.97	1.34	4.02	0.57	4.08	0.58
15214	585	10.7	3.6	17.3	6.4	32.8	82.6	6	234.9	2.6	15.2	0.2	2.8	87	6	233.1	32.6	54.5	102.6	11.1	40	7.3	1.37	5.73	0.86	6.12	1.03	3.64	0.53	3.54	0.51
15215	591	12.3	3.8	15.8	6.9	31.1	78.3	3	228.8	2.3	15.4	0.2	3.7	63	5	280.4	28.7	62.3	119.5	13.02	45.7	8.3	1.56	6.01	0.83	5.25	0.95	3.16	0.44	2.97	0.44
15216	579	11.7	3.4	16.9	7.9	37.1	79.1	5	210.8	2.9	16.6	0.2	4.3	63	6	249.2	32.2	64.4	123.2	13.59	48.8	8.7	1.68	6.73	0.98	5.84	1.09	3.33	0.44	3.03	0.47
15217	503	8.9	2.7	15.1	5.4	25.2	62	2	215	2.3	10	0.2	2.7	55	5	190.2	23.2	37	70	7.99	28.8	5.1	1.08	4.07	0.83	4.1	0.8	2.41	0.33	2.75	0.36
15218	546	13.2	3.3	15.1	8.1	33.7	70.1	3	234.1	3.1	15.2	0.3	4.5	66	6	302.7	33.1	60.3	114.9	12.66	47.5	8.7	1.71	6.09	0.94	6.25	1.1	3.8	0.49	3.33	0.52
15219	452	14.9	3.2	15.5	7.1	24.4	58.3	3	186.8	1.4	39.9	0.3	3.2	70	4	265.6	34.6	50.3	94.4	10.47	38.1	6.5	1.35	5.28	0.88	5.91	1.08	3.93	0.51	3.4	0.49
15220	576	12.3	3.7	16.7	6.7	44.8	82.3	2	217.8	3	15.6	0.2	3	81	8	228.1	26.9	53.3	99.9	10.68	39.5	7.4	1.42	5.25	0.83	4.85	0.98	2.79	0.4	2.94	0.42
RE 15220	565	11.3	3.7	16.9	6.2	44.8	79.3	2	215	4.1	13.2	0.3	3.2	73	8	209.8	29.2	50.9	94.7	10.28	36.9	6.8	1.52	5.31	0.79	5.18	1.02	3.32	0.48	3.19	0.48
15221	831	10.9	3.5	16.1	5.2	64.3	73.7	3	259.2	5.3	13.1	0.4	3	70	11	184	23.1	54.4	95.9	10.36	35.8	6	1.38	4.28	0.72	4.4	0.77	2.55	0.32	2.18	0.33
15222	572	13.2	3.7	16.6	5.1	35	84	3	247.2	2.4	12.3	0.3	3.1	63	6	182.2	24.3	48	90.2	9.81	38.1	5.7	1.37	4.98	0.75	4.81	0.83	2.75	0.38	2.53	0.36
15223	547	8.7	3.8	16.4	5.6	37.8	89.7	3	196.6	2.1	12.5	0.3	3.5	61	8	214.7	30.6	48.5	91.2	9.82	37.1	6.5	1.28	5.3	0.86	5.42	1.02	3.36	0.47	3.25	0.47
15224	811	8.1	5.1	21.3	6.3	62.5	93.2	4	217.2	3.3	12.1	0.8	3	83	9	221.9	22.7	45.7	84.5	9.53	34.3	6.1	1.26	4.52	0.7	4.22	0.76	2.46	0.37	2.56	0.35
15225	604	11.3	4.3	19.2	5.8	51.3	80.2	3	293.2	2.9	13.3	0.6	2.8	79	8	211.3	26	49.7	68.8	9.83	34.1	6	1.44	5.05	0.71	4.89	0.89	2.8	0.43	3.1	0.39
15226	711	21.9	6.3	20.2	8	71	152.2	4	239.3	5.9	15.6	2.1	4.1	84	7	253.1	29.6	64.7	123.4	12.85	48.5	8.8	1.68	6.44	0.89	5.63	1.07	3.42	0.45	3.01	0.43
15227	714	19.7	6.7	22.2	7.4	43.8	130.3	4	266.6	3.4	14.8	0.5	3.9	90	8	259.8	34.1	53.3	103.8	11.49	43.2	7.4	1.6	5.99	0.89	5.74	1.12	3.47	0.49	3.39	0.51
15228	589	29.4	5.5	22.8	5.9	47.4	107.9	3	286.6	2.8	12.1	0.8	2.8	86	7	197.3	23.3	44.8	86.2	9.45	34.1	6.3	1.38	4.6	0.75	4.32	0.81	2.4	0.36	2.41	0.33
STANDARD SO-15	2047	21.9	2.6	17.8	27.1	30.7	64.5	18	405.8	2.1	23	0.9	20.5	142	20	1081	22.8	28	57.2	6.27	23.4	4.2	1.02	4.06	0.57	3.89	0.74	2.47	0.34	2.58	0.43

A9

* As received by e-mail.

APPENDIX 2B:

CONTINUED *

ELEMENT	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15229	663	17.1	4.5	21	5.8	35.1	83.8	3	314.5	2.4	11.5	0.7	3.3	70	6	200.9	25.8	46.3	82.8	10.27	38.9	6.8	1.53	4.8	0.73	4.76	0.86	2.63	0.34	2.47	0.37
15230	732	29.4	5.8	20.3	5.8	51.5	125.2	2	297.7	3	15.8	0.4	4.2	89	5	223.7	36.4	62.5	116.2	13.5	50.8	9.2	2.13	7.09	1.11	6.55	1.25	3.99	0.55	3.37	0.51
15231	592	14.5	3.3	16.4	7	59.1	92	3	284.4	4.7	15	0.4	3.5	70	7	257.6	30.2	61.3	110.8	11.88	44.8	7.3	1.71	5.99	0.84	5.42	1.08	3.16	0.47	3.16	0.43
15232	645	14	4.4	16.7	7.8	203.9	100.2	3	244.4	21.8	16.1	0.2	5.1	81	7	303.4	32.2	75	131.2	13.45	45.9	8.9	1.62	6.27	0.87	6.26	1.21	3.59	0.47	3.02	0.51
15233	708	39.8	6.1	18.7	5.8	83.2	105.3	2	304.2	4.9	15.7	0.3	5.2	87	6	212.4	31.2	56.4	108.9	12.24	44.1	9.3	2.04	7.24	1.01	6.15	1.21	3.33	0.44	2.68	0.49
15234	591	16.1	4.3	19.2	7.4	46.1	102.8	<1	248.5	4.5	15	0.2	4	72	7	280.8	26.2	58.2	107.2	11.11	39.6	8.3	1.51	5.48	0.84	5.09	0.99	2.89	0.37	2.63	0.39
15235	673	12.9	3.6	14.3	8.3	69.2	84.7	1	282.3	6.3	14.6	0.2	4.1	66	7	289.7	31.2	57.4	108.7	11.4	39.4	7	1.7	5.9	1	5.7	1.14	3.3	0.45	3.15	0.46
15236	660	10.7	4.4	18.8	8	47.2	96.4	3	228.1	3.7	14.5	0.2	4.2	75	9	298.9	26.8	62.1	110.2	11.19	40.8	7.5	1.61	5.77	0.92	5.63	1.04	2.9	0.42	2.67	0.44
15237	756	7.7	4.6	19.2	9	73.8	99.2	<1	270.3	6.1	14.2	0.3	3.6	74	7	314.4	26	58.9	104.7	10.81	38.6	8	1.55	5.44	0.84	4.92	0.99	2.99	0.42	2.68	0.42
RE 15237	718	6.7	5	18.5	7.4	54.2	101.6	<1	264	4	14.9	0.2	3.9	72	6	309.5	30.8	60.5	109.6	11.39	40.8	7.8	1.6	5.73	0.82	5.52	1.13	3.58	0.52	2.99	0.55
STANDARD SO-15	2056	22.2	2.8	17.3	28.3	31.2	63	17	391	1.7	23.2	1	20.9	149	20	1130	21.9	27.9	57.2	6.07	23.3	4.6	1.07	3.96	0.59	3.99	0.82	2.54	0.37	2.52	0.4

* As received by e-mail.

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 Dahrouge Geological Consulting										
Acme file # A101923 Page 1 (b) Received: JUN 29 2001 * 41 samples in this disk file.										
ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15201	2	12	8	86	27	<2	<.2	<.5	<.5	<.5
15202	2	10	4	46	15	<2	<.2	<.5	<.5	<.5
15203	2	11	5	68	22	<2	<.2	<.5	<.5	<.5
15204	3	44	6	195	72	<2	0.5	<.5	<.5	<.5
15205	3	50	7	126	92	<2	0.3	1	<.5	<.5
15206	3	45	7	143	85	<2	0.7	1.2	<.5	<.5
15207	3	54	10	166	117	<2	1.5	2.4	0.6	<.5
15208	2	47	8	167	55	<2	0.6	0.9	<.5	<.5
15209	4	100	8	82	63	<2	<.2	0.5	<.5	<.5
15210	5	122	6	88	93	<2	<.2	<.5	<.5	<.5
15211	5	109	8	80	96	<2	<.2	0.6	<.5	<.5
15212	3	17	9	56	15	<2	<.2	<.5	<.5	<.5
15213	5	30	6	133	38	<2	<.2	0.5	<.5	<.5
15214	3	13	5	69	16	<2	<.2	<.5	<.5	<.5
15215	3	18	5	68	21	<2	<.2	<.5	<.5	<.5
15216	3	12	6	61	18	<2	<.2	<.5	<.5	<.5
15217	2	12	5	47	14	<2	<.2	<.5	<.5	<.5
15218	3	23	5	57	27	<2	<.2	<.5	<.5	<.5
15219	2	22	4	61	24	<2	<.2	0.5	<.5	<.5
15220	4	18	6	55	22	<2	<.2	<.5	<.5	<.5
RE 15220	4	18	6	55	22	<2	<.2	<.5	<.5	<.5
15221	5	18	6	75	16	<2	<.2	<.5	<.5	<.5
15222	4	25	4	47	31	<2	<.2	<.5	<.5	<.5
15223	4	21	5	38	23	<2	0.2	<.5	<.5	<.5
15224	5	13	10	39	13	<2	0.2	<.5	0.6	<.5
15225	4	23	7	67	15	<2	<.2	<.5	<.5	<.5
15226	4	17	7	73	20	<2	<.2	<.5	<.5	<.5
15227	4	13	8	64	18	<2	<.2	<.5	<.5	<.5
STANDARD C3	27	65	37	158	35	57	24.7	14	23	6.1
STANDARD G-2	1	3	<3	48	7	<2	<.2	<.5	<.5	<.5

* As received by e-mail.

APPENDIX 2B:

CONTINUED *

ELEMENT SAMPLES	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm								
15228	6	30	8	72	55	2	< .2	< .5	< .5	< .5								
15229	5	24	8	35	22	< 2	< .2	< .5	< .5	< .5								
15230	4	42	7	89	66	< 2	< .2	< .5	< .5	< .5								
15231	4	17	5	54	20	< 2	< .2	< .5	< .5	< .5								
15232	3	10	5	85	18	2	< .2	< .5	< .5	< .5								
15233	6	51	7	86	83	2	0.3	< .5	< .5	< .5								
15234	6	13	6	33	18	2	< .2	< .5	< .5	< .5								
15235	4	15	5	49	21	< 2	< .2	< .5	< .5	< .5								
15236	3	9	7	61	12	< 2	< .2	< .5	< .5	< .5								
15237	3	5	7	31	8	< 2	< .2	< .5	< .5	< .5								
RE 15237	3	5	7	31	7	2	< .2	< .5	< .5	< .5								
STANDARD C3	28	65	32	168	35	62	25.3	14.5	22.6	6								
STANDARD G-2	2	3	< 3	49	8	< 2	< .2	< .5	< .5	< .5								

* As received by e-mail.

APPENDIX 2B:

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 # A102702 Page 1 Received: AUG 16 2001 * 40 samples in this disk file.

ELEMENT	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
18026	884	11.6	9.4	24.8	9.8	81.4	118.4	5	281.3	6.2	34.3	0.6	8	107	8	355.9	49.1	105.9	200.3	22.73	83.7	15.5	2.05	11.55	1.58	9.62	1.79	5.18	0.78	5.46	0.8
18027	833	18.7	9.9	27.6	8.2	60.5	112.5	9	279	5	31.4	0.5	6.2	119	6	283.4	40	104.5	190.2	20.71	75.6	12.7	1.99	9.74	1.37	8.38	1.53	4.1	0.61	4.07	0.83
18028	1217	22.3	16.1	31	9.2	77.9	207.5	8	268.7	4.8	30.8	0.5	5.7	135	7	334.9	51.9	98.8	183.1	20.4	77	13.1	2.01	9.7	1.52	9.72	1.92	5.64	0.88	5.88	0.9
18029	932	49.8	7.9	18.2	4.9	197.7	126.6	2	312.7	75	17.7	0.5	23.2	75	4	189.3	105.8	232.4	408.7	54.36	208.2	36.5	9.75	27.44	3.53	19.36	3.55	9.38	1.32	8.86	1.33
18030	690	28.9	15.2	21.1	5.4	44.1	92.2	2	328.9	11.2	13.5	0.7	11.1	78	4	196.9	44.5	58.8	120.7	13.48	53.4	10	1.93	7.85	1.12	8.92	1.34	4.05	0.6	4.02	0.83
18031	682	9.9	9.7	24.8	8.9	51.5	116	3	253.5	2.3	24.7	0.5	5.4	105	5	305.6	39.8	79.4	151.8	16.99	63.8	11.6	1.71	7.73	1.22	7.8	1.51	4.26	0.64	4.25	0.87
18032	767	21.4	17.8	18.2	8.1	49.4	219.8	3	269.2	3.8	33.6	0.4	7.5	73	6	281.2	48.6	132.1	208.1	24.18	87.5	14.7	2.78	10.31	1.53	9.21	1.72	4.66	0.67	4.48	0.87
18033	674	21.9	4.9	16.9	6.1	37.1	103.9	2	241.2	6.4	21	0.5	7.8	62	6	243	36.1	74.9	150.8	16.77	64	11.4	1.93	8.56	1.22	7.25	1.35	3.79	0.53	3.88	0.52
18034	588	14.4	12.9	21.4	5.5	30.4	89	2	284.3	5.7	14	0.3	4	79	6	194.9	23.8	40.3	86.3	8.92	34.3	6	0.98	4.58	0.72	4.37	0.9	2.54	0.4	2.73	0.42
18035	858	18.4	9.7	23.5	5.4	35	81.5	1	292.7	5.1	10.7	0.3	4.3	80	4	191.8	21.3	34	70.9	7.36	27.7	4.8	0.86	4.13	0.56	3.66	0.73	2.29	0.35	2.43	0.39
18036	635	43	9.7	19.4	4.9	57.4	98.8	2	259.6	15.1	13.1	0.4	6.1	90	4	175.1	24.1	50.3	118.4	10.96	43.6	7.8	1.49	5.6	0.83	4.79	0.92	2.65	0.36	2.62	0.37
18037	323	91	7	15.2	2.8	22.9	45.3	<1	148.4	2.4	5.6	0.3	1.3	133	2	108.2	12.5	19.3	40.5	4.12	15.6	3.1	0.45	2.51	0.34	2.43	0.47	1.29	0.2	1.37	0.2
18038	781	25.3	11.8	21.9	6.9	46.4	127.2	2	281.3	4.2	17.2	0.4	4	102	5	241.6	31.2	57.4	109.3	12.18	46.1	8.4	1.24	5.77	0.91	5.84	1.14	3.45	0.5	3.47	0.52
18039	702	23.9	10	20	5	45.2	133	2	184.1	3.4	16.6	0.4	3.8	93	4	190.2	26.4	53.6	105.8	11.65	44.5	8.7	1.24	6.05	0.92	5.29	0.96	2.71	0.37	2.77	0.4
18040	835	8.7	7.1	23	8.9	40.4	105.8	2	214.8	2.3	26.2	0.3	5.4	88	6	303.7	42.4	81.9	160.3	17.54	66	11.5	1.59	8.79	1.33	8.04	1.5	4.43	0.7	4.47	0.72
18041	869	34	7.7	21	6.1	71.4	101.9	2	206.8	2.1	32.9	0.4	4.4	111	6	228.8	33.5	84	157.8	15.98	58.1	10.5	1.6	7.71	1.09	6.86	1.3	3.61	0.52	3.73	0.5
18042	575	7	4.4	21	7.9	66.6	64.2	3	233.1	6	28.8	0.4	5.7	80	8	291.6	46.8	95.5	179.8	19.83	73.5	13.3	2	9.53	1.4	8.48	1.7	4.71	0.71	5.28	0.78
RE 18042	599	7.1	4.6	22.9	8.8	82.4	68.6	4	250.5	7.7	30.1	0.3	6.3	85	8	325.7	50.1	95.4	179.4	19.53	72.9	12.8	2.08	9.56	1.39	9.39	1.88	5.25	0.8	5.53	0.85
18043	693	12.4	5.6	24.9	8.5	37.5	84.7	3	204.6	2.1	18.3	0.4	5.6	98	7	297.9	38.1	68.4	127.1	13.78	53.4	9.8	1.83	6.86	1.12	7.32	1.35	4.04	0.61	4.24	0.82
18044	750	21.6	5.7	22.9	9.4	73	102.9	4	233.8	4.8	29.1	0.4	7.3	95	9	339.8	50.6	90.7	176.2	18.89	70.5	12.8	2.15	9.51	1.52	10.07	1.78	5.31	0.82	5.59	0.75
18045	752	16.3	4.9	24	8.7	60	89.3	3	231.6	3.8	24.9	0.3	4.7	91	8	301.6	37.2	84.2	163.9	17.2	82.9	11.5	2.06	8.2	1.2	7.53	1.41	3.86	0.55	3.98	0.57
18046	829	13.5	7.1	26.9	9	48.3	105.5	3	271.9	2.5	22.2	0.4	4.8	94	8	309.9	37.8	72.9	141.8	15.1	55.4	10.3	1.71	7.6	1.1	7.13	1.37	3.97	0.56	4.12	0.61
18047	757	15.2	6	22.1	9	52	98.5	5	285	2.3	21.3	0.5	5.6	96	7	304.5	46	79.4	155.5	16.01	59.8	10.7	1.94	8.09	1.28	8.19	1.61	4.9	0.77	5.12	0.78
18048	838	56.8	14.9	23.9	5	41.1	120.3	3	219.3	2	19.9	0.6	6.3	98	6	177.1	35.9	61.8	124.4	13.08	50.2	9.8	2.32	7.95	1.2	7.9	1.43	3.88	0.56	3.77	0.55
18049	478	9.5	3.9	24.4	4.3	20.1	57.1	2	354.8	1.1	8.7	0.3	2.9	55	4	164.3	18.9	33.4	83.6	6.82	27.1	4.9	1.04	3.89	0.58	3.39	0.63	1.88	0.28	1.92	0.28
18050	709	30.8	6.8	26.7	6.9	45.4	117.6	3	231.4	2.1	18.8	0.4	4.3	148	5	242.3	31.5	61.5	114.8	12.35	47.2	8.5	1.59	6.57	0.95	6.21	1.19	3.27	0.47	3.24	0.5
18051	820	13.8	10.7	30	8.1	34.8	152.3	5	310.6	2.5	15.5	0.7	5.4	102	7	283.1	44.6	57.2	103.7	13.54	51.9	10.2	2	8.25	1.21	7.91	1.52	4.6	0.65	4.75	0.66
18052	625	14.1	5.8	30.1	8.4	54	93.5	3	213.4	3.7	21.7	0.4	6.1	110	8	289	35	68.3	129.9	13.85	52.9	10.1	1.81	7.11	1.07	6.72	1.22	3.46	0.56	3.71	0.53
18053	797	9.1	5	24.5	5.7	23.4	108.4	3	326.6	1.6	13.7	0.4	4.8	85	4	226.7	26.8	44.1	88.8	9.25	35.7	8.9	1.07	4.9	0.71	5.02	0.92	2.7	0.44	2.89	0.45
STANDARD SO-16	841	404.3	6.1	16.3	7.2	22.7	236.4	5	52.6	1.8	29	0.7	44.7	121	24	238.9	98.6	59.5	124.5	14.83	61.8	17.5	2.42	14.58	2.38	15.37	2.98	9.13	1.3	8.75	1.3

A13

* As received by e-mail.

APPENDIX 2B:

CONTINUED *

ELEMENT	Ba	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18054	728	20.2	8.3	26.1	7.5	50.5	112.5	3	254	6.7	21	0.4	6.4	100	8	262.4	35	63.8	126.5	13.33	52.5	9.6	1.84	7.16	1.03	6.45	1.25	3.35	0.52	3.52	0.54
18055	714	11.5	3.6	17.2	7.1	37.2	94.3	3	297.8	7.1	27.2	0.4	6	56	10	277.2	49.4	89.6	177.5	19.26	72.1	13.7	1.88	9.74	1.41	9.28	1.73	4.96	0.79	5.48	0.77
18056	741	9.4	5.3	22.2	6.3	21.2	115.9	3	199.2	1.7	14.7	0.4	3.3	65	5	216.9	24.6	47.6	96.1	10.22	37.8	7	1.14	5.3	0.77	4.7	0.84	2.46	0.34	2.65	0.37
18057	718	33.4	7	21.2	9.1	43.8	102.3	2	298.6	2.8	26.7	0.4	7.7	94	6	317.5	56.2	89.5	185.6	18.97	69.8	12.8	2.64	10.81	1.63	10.15	1.97	6.28	0.91	6	0.88
18058	856	35	7.4	23.1	7.3	74.3	137.2	3	293.2	3.7	31	0.4	5.7	119	7	273.5	52.3	102.5	200.1	21.06	75.6	14.2	2.73	10.85	1.59	9.59	1.75	5.68	0.85	5.56	0.89
18059	590	27.3	5.4	19.6	6.3	65.6	77	2	309.2	2.6	19.4	0.3	3.6	118	8	220	35.8	70.2	135.1	14.28	50.9	10	1.98	7.88	1.15	6.84	1.27	4.07	0.6	3.98	0.57
18080	774	48.2	10.3	21.8	5.3	200.2	98.1	2	458.4	7.7	27.9	0.3	2.8	183	5	213.2	34.4	129.8	243.4	23.41	76.9	13.9	3.02	8.87	1.25	6.89	1.26	3.51	0.5	3.2	0.48
18081	716	12.1	4.8	24.2	9.3	88.3	104.2	3	297.3	3.8	19.7	0.3	4.4	94	8	345.5	36.1	78.3	145.7	15.33	53.8	10.3	1.85	7.59	1.13	6.63	1.22	3.81	0.57	3.72	0.59
18062	648	15.9	7	28.1	8.4	27	98.4	3	329.8	1.9	13.9	0.4	3.6	99	7	299.7	29.7	47	93.4	10.56	37	7.5	1.4	6	0.89	5.32	1.08	3.25	0.48	3.33	0.48
18063	636	13.5	5	28.1	7.9	22.5	77	3	344.7	1.6	13.3	0.3	3.9	92	7	273.9	28.7	42.9	85.6	9.52	35.1	7.1	1.18	5.38	0.84	5.25	1.01	3.22	0.47	3.24	0.45
RE 18063	612	13.1	5	26.5	7.7	21.6	74.5	2	332.5	1.7	13.1	0.3	3.2	89	7	271.7	27.1	41	81.8	9.04	33.4	6.5	1.2	5.39	0.75	4.81	0.96	2.89	0.45	3.03	0.44
STANDARD SO-16	867	415.2	6	17.2	7.1	22	235.7	4	52.3	1.8	29.5	0.7	44.9	131	24	228.2	99.2	82.7	130.4	15.32	63.8	17.1	2.7	15.31	2.38	15.93	3.11	9.62	1.38	9.5	1.39

* As received by e-mail.

APPENDIX 2C:

**ANALYTICAL REPORT BY ACME ANALYTICAL LABORATORIES LTD.
FOR PAN CONCENTRATE SAMPLES COLLECTED FROM THE FIR CLAIMS ***

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 # A103460 Received: OCT 2 2001 * 10 samples in this disk file.																		
ELEMENT	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
SAMPLES	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
18076	43.7	23.48	18.07	3.19	4.2	0.5	1.01	3.4	0.27	0.36	0.025	195	48	29	0.9	0.08	< .01	99.14
18078°	66.43	14.46	8.42	2.47	3.41	1.3	0.71	0.95	0.16	0.38	0.023	247	54	26	0.6	0.15	< .01	99.35
18079°	58.83	15.88	13.46	2.93	4.02	1.19	0.71	1.58	0.19	0.48	0.018	799	< 20	30	0.2	0.12	0.03	99.59
18080°	55.95	14.53	17.02	2.98	4.08	1.3	0.73	1.86	0.21	0.55	0.026	664	50	33	0.1	0.07	0.04	99.42
RE 18080°	55.7	14.54	17.09	2.95	4.07	1.28	0.76	1.87	0.25	0.54	0.028	672	38	32	0.2	0.08	0.03	99.36
18081°	49.61	18.51	18.42	3.05	4.26	0.89	0.45	2.96	0.23	0.86	0.027	242	47	46	< .1	0.06	< .01	99.01
18082°	53.01	10.71	15.7	5.79	7.19	2	0.8	2.42	0.49	0.31	0.06	431	55	38	0.6	0.08	0.01	99.14
18083°	46.17	10.76	12.04	4.99	11.37	1.91	0.9	1.21	5.28	0.49	0.048	268	37	36	1.1	0.09	< .01	96.31
18084°	67.37	11.83	6.86	2.77	3.59	1.72	0.94	0.98	0.09	0.22	0.025	21601	28	19	1	0.14	< .01	99.81
18085°	67.56	11.25	7.85	2.96	4.36	1.9	1.08	1.39	0.22	0.25	0.025	200	44	22	0.7	0.06	< .01	99.57
STANDARD SO-17/CSB	61.28	13.85	5.81	2.32	4.71	4.14	1.46	0.63	0.97	0.53	0.439	407	34	23	3.4	2.31	5.33	99.59

* As received by e-mail.

* Sample from Fir Property.

APPENDIX 2C:

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 # A103460 Received: OCT 2 2001 * 11 samples in this disk file.

ELEMENT	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	Tl	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SI	1.1	0.1	2.3	1.9	1.4	3.2	1	175.4	<.1	0.4	<.1	0.4	<5	1	73.2	3.2	1.6	3.6	0.47	2.1	0.5	0.25	0.63	0.11	0.37	0.1	0.31	0.06	0.33	0.06
18078	20	1.4	20.8	13.1	276.4	29.2	2	104.4	23.7	116.8	<.1	29.1	207	9	481.8	155.8	431.8	711.7	80.59	285.7	53.7	8.08	37.85	5.82	30.22	5.38	15.3	2.46	15.03	2.19
18078*	13.6	0.8	13	5.8	111.9	17.5	<1	151.6	3.2	76.2	<.1	5.4	104	25	212.3	108.6	762.6	816.8	88.42	184.5	22.8	3.38	10.6	2.51	17.38	3.76	12.4	2.18	13.92	2.11
18079*	16.6	0.9	14.8	7.8	182.2	18.1	2	182.4	7	122.5	<.1	8.6	197	17	266.4	138.4	478.2	586.2	55.23	164.6	24.1	3.88	16.27	3.27	21.41	4.75	14.98	2.55	16.83	2.65
18080*	17.8	0.8	14.1	8.8	222.8	20.1	1	197.8	9.1	212.5	<.1	8.2	182	40	292.3	141.5	469.8	582.5	55.13	170.6	27.1	4.16	17.54	3.29	22.34	4.89	15.8	2.67	17.41	2.76
RE 18080*	16.6	0.8	14.6	7.7	220.3	19.3	1	188.5	9.1	214.1	<.1	8.9	177	38	271.5	133.9	462.9	576.4	54.79	174.4	26.8	4.46	18.22	3.08	21.31	4.72	14.69	2.48	15.41	2.53
18081*	17	0.5	15.6	14.9	207.4	11.3	2	131.6	8.7	193.9	<.1	16.4	184	42	538.8	243.2	683	870.8	84.34	267.5	43.4	5.95	29.5	5.71	38.52	8.55	26.56	4.58	29.83	4.78
18082*	23.6	1	13	8.3	1538.4	20.1	2	256.1	119.9	231.3	<.1	24.1	389	57	335.4	116.8	540.9	682.8	65.72	203.9	31.4	5.43	21.51	3.53	19.62	3.96	11.72	2	12.3	1.86
18083*	24.2	1.8	13.2	10.7	16890	30.7	<1	1283	1073.9	150.2	<.1	32.8	126	18	405.2	149	518	831	93.59	330.9	58.8	11.82	39.17	5.71	30.57	5.49	15.87	2.36	14.94	2.19
18084*	14.1	1.1	13.4	7.4	119.8	29.9	1	203.8	5.1	94.8	<.1	8.8	109	11	239.2	85.2	201.3	295	30.99	104.5	19.2	1.2	14.41	2.39	14.89	2.95	9.21	1.52	9.46	1.54
18085*	14.3	1.3	12	8	489.6	32.9	1	226.1	33.2	89.2	<.1	14.2	120	45	309.1	116.5	302	442.7	46.55	159.8	28.4	4.32	19.81	3.32	20.17	3.94	12.17	1.95	12.62	1.86
STANDARD SO-17	18.3	3.8	20.4	12	25.7	22.8	8	313.9	4.1	11.9	0.4	12	123	13	348.4	26.7	10.7	22.5	2.93	12.6	3	1.03	3.82	0.69	4.26	0.94	2.91	0.46	2.99	0.47

* As received by e-mail.

* Sample from Fir Property.

APPENDIX 2C:

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 # A103460 Received: OCT 2 2001 * 11 samples in this disk file.										
ELEMENT	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SI	0.4	1	< 2	2	1	1	< .2	< .5	< .5	< .5
18076	2.3	10	2	28	22	1	< .2	< .5	< .5	< .5
18078*	3.2	6	< 2	17	12	1	< .2	< .5	< .5	< .5
18079*	3.3	5	2	20	14	1	< .2	< .5	< .5	< .5
18080*	2.8	9	3	23	22	1	< .2	< .5	1.1	< .5
RE 18080*	2.9	9	3	18	21	1	< .2	< .5	0.5	< .5
18081*	3.8	5	2	18	11	1	< .2	< .5	< .5	< .5
18082*	3.4	11	3	24	24	1	< .2	< .5	< .5	< .5
18083*	2.3	15	3	34	36	1	0.2	< .5	0.5	< .5
18084*	3.3	11	3	24	20	1	< .2	< .5	< .5	< .5
18085*	4.1	6	2	22	14	1	< .2	< .5	< .5	< .5
STANDARD SO-17	9.1	126	34	155	35	30	5.4	4.9	5.2	< .5

* As received by e-mail.

* Sample from Fir Property.

APPENDIX 3A:

**DESCRIPTIONS AND COMPOSITIONS OF SAMPLES COLLECTED IN 2001
FROM THE FIR CLAIMS**

Notes: UTM Coordinates are NAD 83. See Appendix 2A for analytical results.

Sample	UTM - Coords			Sample		Description	Composition			
	Easting	Northing	Elev.	Type	Length (m)		Nb ₂ O ₅ (ppm)	Ta ₂ O ₅ (ppm)	P ₂ O ₅ (%)	U (ppm)
<u>Bone Creek Carbonatite</u>										
10528A	352379	5796442	1034	Grab	-	Carbonatite , weathered bolders/talus within talus or till, dark-red, apatite-bearing, associated with dark-green amphibolite bolders/talus; source likely some distance upslope	1907	576	9.60	231
10528B	352379	5796442	1034	Grab	-	Amphibolite , weathered bolders/talus within talus or till, dark-green, coarse-grained	610	137	1.73	23
<u>Fir Carbonatite</u>										
7002	-	-	-	Chip	3	Amphibole Apatite Sovite (at prior sample 10643 and 10529) crude mineral layering, black, semi-metallic acicular mineral, trace pyrite	3677	76	2.30	41
10529	351875	5797576	803	Chip	2½	Apatite Sovite (prior sample 10643) near upper contact with gneiss; orange-brown weathered; several per cent milky-grey, oval, apatite grains to 5 mm; 1 to 2% dark-green amphibole laths to 3-4 mm; trace po.; foliation at 32°/10°E	3006	188	2.25	5
10530	351875	5797576	800	Chip	2½	Apatitic Dolomitic Carbonatite , grey to greyish-white fresh, few per cent black lath-like grains (columbite?) to 4 mm	2768	148	2.01	4
10531	351875	5797576	799	Chip	1	Apatitic Dolomitic Carbonatite , grey to greyish-white fresh, few per cent black lath-like grains (columbite?) to 4 mm; trace po	2478	121	1.06	2
-	-	-	-	-	-	covered	-	-	-	-
10532	351818	5797614	789	Chip	1	Apatitic Dolomitic Carbonatite , grey to greyish-white fresh; rusty weathered; up to 7½ per cent black lath-like grains (columbite?) to 5 mm; some pieces with Augen texture, coarse-grained, and barren	1838	79	1.33	1
-	-	-	-	-	-	covered	-	-	-	-
7003	351803	5797604	805(?)	Chip	2	Apatitic Dolomitic Carbonatite (prior sample 10644) abundant magnesium-amphibole (?), rusty outcrop 2 m high by 5 m long	3279	164	2.53	8
10533	351803	5797604	805(?)	Chip	1	Apatitic Dolomitic Carbonatite and Augen Carbonatite , grey to greyish-white fresh; rusty weathered; contact zone (~25 m @ 260° to near base 10833)	3016	147	2.06	3

APPENDIX 3A:

CONTINUED

Sample	UTM - Coords			Sample		Description	Composition			
	Easting	Northing	Elev.	Type	Length (m)		Nb ₂ O ₅ (ppm)	Ta ₂ O ₅ (ppm)	P ₂ O ₅ (%)	U (ppm)
10534	351661	5797866	708	Float		Apatitic Dolomitic Carbonatite , rusty-brown weathered, abundant black lath-like grains to 5 mm, rounded boulder	2974	96	1.68	1
10535	351700	5796900	-	Float		Amphibole Carbonatite , rusty-brown weathered, minor apatite, abundant dark green lath-like grains to 3 mm (magnesium amphibole)	929	216	3.87	41
10643	351814	5797603	-	Grab	-	Carbonatite	2739	177	2.41	2
10644	351814	5797603	-	Grab	-	Carbonatite	952	50	0.64	0

APPENDIX 3B:

**LOCATIONS AND COMPOSITION OF SOIL SAMPLES
COLLECTED IN 2001 FROM THE FIR CLAIMS**

Notes: The local grid is based on UTM Grid NAD 83. A Grid Easting/Northing of 2000, 8000 corresponds to UTM 352000, 5798000. See Appendix 2B for analytical results.

Sample Number	Grid		Nb ppm	Ta ppm	Sr ppm	Th ppm	U ppm	Zr ppm
	Easting	Northing						
Line 7200 North								
18044	2000	7200	73.00	4.80	233.80	29.10	7.30	339.80
18045	1960	7200	60.00	3.80	231.60	24.90	4.70	301.60
18046	1920	7200	48.30	2.50	271.90	22.20	4.80	309.90
18047	1880	7200	52.00	2.30	265.00	21.30	5.60	304.50
18048	1840	7200	41.10	2.00	219.30	19.90	6.30	177.10
18049	1800	7200	20.10	1.10	354.80	8.70	2.90	164.30
18050	1760	7200	45.40	2.10	231.40	18.80	4.30	242.30
18051	1720	7200	34.80	2.50	310.60	15.50	5.40	283.10
18052	1680	7200	54.00	3.70	213.40	21.70	6.10	289.00
18053	1640	7200	23.40	1.60	326.60	13.70	4.60	226.70
18054	1600	7200	50.50	6.70	254.00	21.00	6.40	262.40
Line 7400 North								
18063	2000	7400	22.50	1.60	344.70	13.30	3.90	273.90
18062	1960	7400	27.00	1.90	329.80	13.90	3.60	299.70
18061	1920	7400	68.30	3.80	297.30	19.70	4.40	345.50
18060	1880	7400	200.20	7.70	458.40	27.90	2.80	213.20
18059	1840	7400	65.60	2.60	309.20	19.40	3.60	220.00
18058	1800	7400	74.30	3.70	293.20	31.00	5.70	273.50
18057	1760	7400	43.80	2.80	298.60	26.70	7.70	317.50
18056	1720	7400	21.20	1.70	199.20	14.70	3.30	216.90
18055	1680	7400	37.20	7.10	297.80	27.20	6.00	277.20
Line 7600 North								
15237	2350	7600	73.80	6.10	270.30	14.20	3.60	314.40
15236	2330	7600	47.20	3.70	226.10	14.50	4.20	298.90
15235	2310	7600	69.20	6.30	262.30	14.60	4.10	289.70
15234	2290	7600	46.10	4.50	248.50	15.00	4.00	280.60
15233	2270	7600	63.20	4.90	304.20	15.70	5.20	212.40
15232	2250	7600	203.90	21.80	244.40	16.10	5.10	303.40
15231	2230	7600	59.10	4.70	264.40	15.00	3.50	257.60
15230	2210	7600	51.50	3.00	297.70	15.80	4.20	223.70
15229	2190	7600	35.10	2.40	314.50	11.50	3.30	200.90
15228	2170	7600	47.40	2.80	286.60	12.10	2.80	197.30
15227	2150	7600	43.80	3.40	266.60	14.60	3.90	259.80
15226	2130	7600	71.00	5.90	239.30	15.60	4.10	253.10
15225	2110	7600	51.30	2.90	293.20	13.30	2.80	211.30
15224	2090	7600	62.50	3.30	217.20	12.10	3.00	221.90
15223	2070	7600	37.80	2.10	196.60	12.50	3.50	214.70
15222	2050	7600	35.00	2.40	247.20	12.30	3.10	182.20
15221	2030	7600	64.30	5.30	259.20	13.10	3.00	184.00
15220	2010	7600	44.80	3.00	217.80	15.60	3.00	228.10

APPENDIX 3B:

CONTINUED

Sample Number	Grid		Nb ppm	Ta ppm	Sr ppm	Th ppm	U ppm	Zr ppm
	Eastings	Northing						
Line 7600 North (Cont.)								
15219	1990	7600	24.40	1.40	186.80	39.90	3.20	265.60
15218	1970	7600	33.70	3.10	234.10	15.20	4.50	302.70
15217	1950	7600	25.20	2.30	215.00	10.00	2.70	190.20
15216	1930	7600	37.10	2.90	210.80	16.60	4.30	249.20
15215	1910	7600	31.10	2.30	228.80	15.40	3.70	280.40
15214	1890	7600	32.80	2.60	234.90	15.20	2.80	233.10
15213	1870	7600	25.30	1.90	250.10	15.30	3.60	228.90
15212	1850	7600	29.10	2.20	227.10	13.80	2.70	226.90
15211	1830	7600	62.60	2.70	238.60	19.90	4.70	203.70
15210	1810	7600	85.00	3.60	255.00	20.60	5.00	198.00
15209	1790	7600	128.70	5.90	236.10	20.80	3.40	176.40
15208	1770	7600	1362.90	112.90	675.10	18.50	4.00	156.90
15207	1750	7600	2251.20	212.80	1078.30	23.00	10.80	94.10
15206	1730	7600	1077.20	88.40	744.40	16.10	7.50	135.00
15205	1710	7600	329.80	27.40	522.90	11.00	3.50	104.10
15204	1690	7600	1042.50	50.20	513.30	16.80	3.10	136.90
15203	1670	7600	41.00	3.00	240.00	12.00	2.90	189.10
15202	1650	7600	15.80	1.50	244.50	9.10	2.00	123.10
15201	1630	7600	98.90	5.40	222.10	11.30	3.10	179.20
Line 7800 North								
18043	2000	7800	37.50	2.10	204.60	18.30	5.60	297.90
18042	1960	7800	68.60	6.00	233.10	28.80	5.70	291.80
18041	1920	7800	71.40	2.10	206.80	32.90	4.40	226.80
18040	1880	7800	40.40	2.30	214.80	26.20	5.40	303.70
18039	1840	7800	45.20	3.40	164.10	16.60	3.80	190.20
18038	1800	7800	46.40	4.20	261.30	17.20	4.00	241.60
18037	1760	7800	22.90	2.40	148.40	5.60	1.30	106.20
18036	1720	7800	57.40	15.10	259.60	13.10	6.10	175.10
18035	1680	7800	35.00	5.10	292.70	10.70	4.30	191.60
18034	1640	7800	30.40	5.70	264.30	14.00	4.00	194.90
18033	1600	7800	37.10	6.40	241.20	21.00	7.80	243.00
Line 8000 North								
18026	2000	8000	81.40	6.20	281.30	34.30	8.00	355.90
18027	1960	8000	60.50	5.00	279.00	31.40	6.20	283.40
18028	1920	8000	77.90	4.80	266.70	30.80	5.70	334.90
18029	1880	8000	197.70	75.00	312.70	17.70	23.20	169.30
18030	1840	8000	44.10	11.20	328.90	13.50	11.10	196.90
18031	1800	8000	51.50	2.30	253.50	24.70	5.40	305.60
18032	1760	8000	49.40	3.80	269.20	33.60	7.50	281.20

APPENDIX 3C:

**LOCATIONS AND COMPOSITION OF PAN CONCENTRATE SAMPLES
COLLECTED IN 2001 FROM THE FIR CLAIMS**

Notes: UTM co-ordinates are NAD 83. See Appendix 2C for analytical results.

Sample Number	UTM Co-ordinates		Nb ppm	Ta ppm	Sr ppm	Th ppm	U ppm	Zr ppm
	Easting	Northing						
FIR CLAIMS								
7001	351,999	5,797,314	43.5	4.9	251.6	34.1	6.6	316.9
18078	351,704	5,793,606	111.9	3.2	151.6	76.2	5.4	212.3
18079	351,723	5,793,769	192.2	7.0	182.4	122.5	8.6	266.4
18080	-	-	222.8	9.1	197.8	212.5	8.2	292.3
18081	351,756	5,794,033	220.3	8.7	131.6	193.9	16.4	536.8
18082	351,736	5,795,438	1,538.4	119.9	256.1	231.3	24.1	335.4
18083	351,674	5,797,584	16,890.0	1,073.9	1,263.3	150.2	32.8	405.2
18084	351,802	5,794,334	119.8	5.1	203.8	94.8	6.8	239.2
18085	351,743	5,795,806	489.6	33.2	226.1	89.2	14.2	309.1

APPENDIX 4:**MAGNETOMETER READINGS FROM THE FIR CLAIMS**

Notes: The local grid is based on UTM Grid NAD 83. A Grid Easting/Easting of 2000, 8000 corresponds to UTM 352000, 5798000. Magnetic readings are Total Magnetic Intensity (TMI), with readings corrected for diurnal variation.

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)
Line 6000 North			Line 6000 North (cont.)			Line 6000 North (cont.)			Line 6200 North (cont.)		
6000	1700	55836.5	6000	1950	56915.44	6000	2190	56824.7	6200	1735	56486.0
6000	1705	56488.2	6000	1955	56907.34	6000	2195	56817.8	6200	1740	56462.4
6000	1710	56599.9	6000	1960	56904.99	6000	2200	56806.2	6200	1745	56445.0
6000	1715	56751.3	6000	1980	56690.41	6000	2205	56792.7	6200	1750	56447.4
6000	1720	56962.0	6000	1985	56696.23	6000	2210	56788.0	6200	1755	56453.3
6000	1725	56900.2	6000	1990	56677.48	6000	2215	56782.3	6200	1760	56443.7
6000	1730	57066.4	6000	1995	56704.45	6000	2220	56782.1	6200	1765	56442.6
6000	1735	57013.1	6000	2000	56729.31	6000	2225	56803.5	6200	1770	56436.9
6000	1740	56969.0	6000	2005	56739.19	6000	2230	56824.1	6200	1775	56409.7
6000	1745	56901.1	6000	2010	56742.6	6000	2235	56850.0	6200	1780	56383.0
6000	1750	56910.7	6000	2015	56727.82	6000	2240	56883.0	6200	1785	56356.6
6000	1755	56881.9	6000	2020	56720.22	6000	2245	56923.0	6200	1790	56338.9
6000	1760	56861.7	6000	2025	56711.38	6000	2250	56939.3	6200	1795	56310.8
6000	1765	56823.2	6000	2030	56717.28	6000	2255	56927.1	6200	1800	56314.2
6000	1770	56804.8	6000	2035	56712.7	6000	2260	56905.3	6200	1805	56326.3
6000	1775	56838.3	6000	2040	56717.98	6000	2265	56853.2	6200	1810	56513.5
6000	1780	56842.6	6000	2045	56712.35	6000	2270	56819.0	6200	1815	56509.0
6000	1785	56869.5	6000	2050	56715.47	6000	2275	56779.7	6200	1820	56479.2
6000	1790	56929.3	6000	2055	56716.9	6000	2280	56763.3	6200	1825	56540.8
6000	1820	56930.1	6000	2060	56713.15	6000	2285	56749.3	6200	1830	56643.4
6000	1825	56913.2	6000	2065	56714.57	6000	2290	56730.1	6200	1835	56756.9
6000	1830	56841.7	6000	2070	56707.24	6000	2295	56696.3	6200	1840	56823.2
6000	1835	56865.0	6000	2075	56707.07	6000	2300	56666.3	6200	1845	56850.7
6000	1840	57110.3	6000	2080	56707.67	6000	2305	56726.0	6200	1850	56823.2
6000	1845	57091.9	6000	2085	56711.92	6000	2310	56758.2	6200	1855	56794.1
6000	1850	56992.2	6000	2090	56717.36	6000	2315	56733.7	6200	1860	56795.0
6000	1855	56941.2	6000	2095	56708.67	6000	2320	56716.4	6200	1865	56749.3
6000	1860	56914.8	6000	2100	56714.06	6000	2325	56714.7	6200	1870	56696.9
6000	1865	56863.3	6000	2105	56714.54	6000	2330	56711.2	6200	1875	56660.5
6000	1870	56863.7	6000	2110	56710.93	6000	2335	56701.0	6200	1880	56627.6
6000	1875	56838.1	6000	2115	56716.24	6000	2340	56688.5	6200	1885	56631.4
6000	1880	56845.6	6000	2120	56722.78	6000	2345	56703.8	6200	1890	56665.8
6000	1885	56854.7	6000	2125	56723.77	6000	2350	56712.1	6200	1895	56688.2
6000	1890	56857.7	6000	2130	56721.72	6000	2355	56691.7	6200	1900	56698.3
6000	1895	56856.9	6000	2135	56706.11	6000	2360	56637.3	6200	1905	56677.7
6000	1900	56903.5	6000	2140	56692.9	6000	2365	56602.4	6200	1910	56658.6
6000	1905	56958.5	6000	2145	56682.1	6000	2370	56597.2	6200	1915	56688.9
6000	1910	56980.3	6000	2150	56668.69	6000	2375	56669.9	6200	1920	56693.1
6000	1915	56955.5	6000	2155	56585.58	6000	2380	56741.6	6200	1925	56683.6
6000	1920	57017.2	6000	2160	56511.17	6000	2385	56746.4	6200	1930	56663.9
6000	1925	56992.3	6000	2165	56772.11	6000	2390	56752.7	6200	1935	56659.8
6000	1930	56969.5	6000	2170	56938.74	Line 6200 North			6200	1940	56642.8
6000	1935	56968.8	6000	2175	56885.71	6200	1720	56475.0	6200	1945	56684.4
6000	1940	56957.1	6000	2180	56845.54	6200	1725	56460.2	6200	1950	56729.4
6000	1945	56933.5	6000	2185	56830.95	6200	1730	56480.3	6200	1955	56749.7

APPENDIX 4:

CONTINUED

Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI	Grid Co-ordinates			TMI
Northing	Easting		(nT)	Northing	Easting		(nT)	Northing	Easting		(nT)	Northing	Easting		(nT)
<u>Line 6200 North (cont.)</u>				<u>Line 6200 North (cont.)</u>				<u>Line 6200 North (cont.)</u>				<u>Line 6200 North (cont.)</u>			
6200	1955		56749.7	6200	2205		56929.9	6200	2460		56716.5	6200	2710		57182.8
6200	1960		56704.7	6200	2210		56923.2	6200	2465		56705.0	<u>Line 6400 East (cont.)</u>			
6200	1965		56685.9	6200	2215		56864.0	6200	2470		56702.6	6400	1700		56502.1
6200	1970		56690.5	6200	2220		56834.6	6200	2475		56687.4	6400	1705		56505.8
6200	1975		56686.9	6200	2225		56827.8	6200	2480		56680.1	6400	1710		56517.7
6200	1980		56694.4	6200	2230		56796.7	6200	2485		56653.9	6400	1715		56503.7
6200	1985		56684.2	6200	2235		56797.1	6200	2490		56695.8	6400	1720		56518.0
6200	1990		56680.5	6200	2240		56783.1	6200	2495		56746.7	6400	1725		56497.2
6200	1995		56673.9	6200	2245		56779.3	6200	2500		56731.3	6400	1730		56489.8
6200	2000		56675.3	6200	2250		56762.9	6200	2505		56730.3	6400	1735		56480.5
6200	2005		56676.1	6200	2255		56782.5	6200	2510		56698.5	6400	1740		56483.9
6200	2010		56678.9	6200	2260		56772.2	6200	2515		56669.5	6400	1745		56475.0
6200	2015		56667.4	6200	2265		56779.8	6200	2520		56649.7	6400	1750		56443.2
6200	2020		56668.7	6200	2270		56760.4	6200	2525		56649.0	6400	1755		56433.3
6200	2025		56665.4	6200	2275		56749.1	6200	2530		56660.4	6400	1760		56539.0
6200	2030		56674.4	6200	2280		56735.7	6200	2535		56718.5	6400	1765		56555.4
6200	2035		56681.7	6200	2285		56716.5	6200	2540		56724.3	6400	1770		56502.4
6200	2040		56705.0	6200	2290		56726.8	6200	2545		56649.2	6400	1775		56530.9
6200	2045		56739.4	6200	2295		56693.2	6200	2550		56645.1	6400	1780		56494.8
6200	2050		56772.6	6200	2300		56768.8	6200	2555		56655.0	6400	1785		56442.9
6200	2055		56801.7	6200	2305		56816.4	6200	2560		56665.9	6400	1790		56472.3
6200	2060		56835.3	6200	2310		56874.4	6200	2565		56667.8	6400	1795		56573.1
6200	2065		56859.3	6200	2315		56913.1	6200	2570		56666.3	6400	1800		56609.5
6200	2070		56879.6	6200	2320		56930.2	6200	2575		56664.5	6400	1805		56601.9
6200	2075		56888.4	6200	2325		56918.5	6200	2580		56678.8	6400	1810		56657.4
6200	2080		56897.0	6200	2330		56871.1	6200	2585		56732.1	6400	1815		56651.5
6200	2085		56889.1	6200	2335		56846.0	6200	2590		56690.0	6400	1820		56729.4
6200	2090		56882.9	6200	2340		56818.8	6200	2595		55713.5	6400	1825		56713.3
6200	2095		56894.4	6200	2345		56815.2	6200	2600		56203.7	6400	1830		56787.1
6200	2100		56872.6	6200	2350		56867.3	6200	2605		58758.8	6400	1835		56933.9
6200	2105		56869.8	6200	2355		56829.6	6200	2610		56405.9	6400	1840		57091.2
6200	2110		56858.6	6200	2360		56814.6	6200	2615		56251.0	6400	1845		57209.8
6200	2115		56842.1	6200	2365		56780.4	6200	2620		56364.1	6400	1850		57239.9
6200	2120		56827.6	6200	2370		57278.7	6200	2625		56434.1	6400	1855		57114.0
6200	2125		56830.9	6200	2375		56729.3	6200	2630		56482.4	6400	1860		57016.1
6200	2130		56862.1	6200	2380		56648.2	6200	2635		56506.4	6400	1865		56906.0
6200	2135		56901.8	6200	2385		56763.5	6200	2640		56448.2	6400	1870		56815.6
6200	2140		56815.2	6200	2390		56754.8	6200	2645		56596.2	6400	1875		56762.1
6200	2145		56825.6	6200	2395		56851.8	6200	2650		56608.7	6400	1880		56712.7
6200	2150		56774.5	6200	2405		58157.0	6200	2655		56671.9	6400	1885		56702.5
6200	2155		56800.9	6200	2410		51820.3	6200	2660		56843.1	6400	1890		56674.1
6200	2160		56755.3	6200	2415		56545.7	6200	2665		56835.9	6400	1895		56627.3
6200	2165		56748.4	6200	2420		56662.3	6200	2670		56830.0	6400	1900		56592.8
6200	2170		56733.7	6200	2425		56877.2	6200	2675		56853.2	6400	1905		56564.2
6200	2175		56719.5	6200	2430		56772.5	6200	2680		56885.1	6400	1910		56556.1
6200	2180		56732.7	6200	2435		56752.1	6200	2685		56854.7	6400	1915		56639.6
6200	2185		56812.8	6200	2440		56735.0	6200	2690		56837.8	6400	1920		56696.5
6200	2190		57601.4	6200	2445		56708.8	6200	2695		56867.8	6400	1925		56720.7
6200	2195		57665.3	6200	2450		56706.0	6200	2700		56255.3	6400	1930		56730.5
6200	2200		57017.6	6200	2455		56726.2	6200	2705		56570.7	6400	1935		56719.1

APPENDIX 4:

CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)
Line 6400 North (cont.)			Line 6400 North (cont.)			Line 6500 North			Line 6600 North (cont.)		
6400	1940	56695.7	6400	2165	56703.4	6600	1710	56487.9	6600	1960	56597.7
6400	1945	56673.5	6400	2170	56696.5	6600	1715	56559.5	6600	1965	56629.5
6400	1950	56664.9	6400	2175	56698.7	6600	1720	56593.9	6600	1970	56603.5
6400	1955	56666.3	6400	2180	56696.6	6600	1725	56625.3	6600	1975	56560.3
6400	1960	56672.3	6400	2185	56688.5	6600	1730	56628.2	6600	1980	56542.8
6400	1965	56670.3	6400	2190	56684.4	6600	1735	56641.9	6600	1985	56537.8
6400	1970	56659.9	6400	2195	56671.7	6600	1740	56636.1	6600	1990	56543.9
6400	1975	56661.9	6400	2200	56668.4	6600	1745	56645.0	6600	1995	56572.0
6400	1980	56661.8	6400	2205	56675.7	6600	1750	56655.2	6600	2000	56527.9
6400	1985	56665.2	6400	2210	56659.8	6600	1755	56661.2	6600	2005	56403.1
6400	1990	56667.1	6400	2215	56657.9	6600	1760	56684.9	6600	2010	56515.1
6400	1995	56668.8	6400	2220	56656.6	6600	1765	56669.2	6600	2015	56679.9
6400	2000	56669.5	6400	2225	56672.0	6600	1770	56675.9	6600	2020	56639.0
6400	2005	56668.1	6400	2230	56662.2	6600	1775	56667.2	6600	2025	56537.6
6400	2010	56665.4	6400	2235	56660.8	6600	1780	56657.2	6600	2030	56366.7
6400	2015	56677.0	6400	2240	56677.1	6600	1785	56654.8	6600	2035	56522.1
6400	2020	56688.1	6400	2245	56694.5	6600	1790	56640.2	6600	2040	56814.1
6400	2025	56695.5	6400	2250	56694.1	6600	1795	56632.4	6600	2045	56849.3
6400	2030	56692.2	6400	2255	56713.1	6600	1800	56599.1	6600	2050	56830.2
6400	2035	56710.8	6400	2260	56701.2	6600	1805	56568.7	6600	2055	56806.8
6400	2040	56726.0	6400	2265	56808.1	6600	1810	56852.4	6600	2060	56791.7
6400	2045	56730.5	6400	2270	56786.5	6600	1815	56877.2	6600	2065	56773.3
6400	2050	56742.9	6400	2275	56810.4	6600	1820	56729.0	6600	2070	56766.1
6400	2055	56768.8	6400	2280	56777.4	6600	1825	56677.4	6600	2075	56763.0
6400	2060	56770.0	6400	2285	56764.4	6600	1830	56653.9	6600	2080	56750.4
6400	2065	56764.6	6400	2290	56736.6	6600	1835	56727.2	6600	2085	56754.1
6400	2070	56754.2	6400	2295	56764.4	6600	1840	56676.7	6600	2090	56754.3
6400	2075	56740.2	6400	2300	56775.4	6600	1845	56715.9	6600	2095	56735.8
6400	2080	56733.2	6400	2305	56742.6	6600	1850	56723.1	6600	2105	56718.8
6400	2085	56729.3	6400	2310	56770.2	6600	1855	56721.8	6600	2110	56728.7
6400	2090	56731.7	6400	2315	56766.3	6600	1860	56728.2	6600	2115	56723.8
6400	2095	56736.9	6400	2320	56753.0	6600	1865	56717.9	6600	2120	56716.0
6400	2100	56750.3	6400	2325	56761.0	6600	1870	56699.0	6600	2125	56705.4
6400	2105	56735.2	6400	2330	56751.4	6600	1875	56694.4	6600	2130	56706.8
6400	2110	56718.2	6400	2335	56730.1	6600	1880	56676.9	6600	2135	56705.5
6400	2115	56724.0	6400	2340	56724.5	6600	1885	56663.3	6600	2140	56704.4
6400	2120	56712.6	6400	2345	56716.0	6600	1890	56636.7	6600	2145	56706.6
6400	2125	56700.3	6400	2350	56682.7	6600	1895	56628.6	6600	2150	56714.2
6400	2130	56695.0	6400	2355	56700.2	6600	1900	56626.6	6600	2155	56715.6
6400	2135	56778.4	6400	2360	56711.8	6600	1905	56612.8	6600	2160	56724.6
6400	2140	56722.1	6400	2365	56704.5	6600	1910	56609.4	6600	2165	56726.6
6400	2145	56678.5	6400	2370	56771.3	6600	1915	56613.6	6600	2170	56721.6
6400	2150	56694.4	6400	2375	56756.9	6600	1920	56609.1	6600	2175	56712.2
6400	2155	56709.7	6400	2380	56747.4	6600	1925	56587.8	6600	2180	56708.5
6400	2160	56687.8	6400	2385	56715.4	6600	1930	56579.8	6600	2185	56698.5
6400	2165	56703.4	6400	2390	56693.3	6600	1935	56579.5	6600	2190	56689.1
6400	2170	56696.5	6400	2395	57908.7	6600	1940	56571.9	6600	2195	56680.5
6400	2175	56698.7	6400	2400	53893.8	6600	1945	56563.9	6600	2200	56684.9
6400	2180	56696.6				6600	1950	56575.2	6600	2205	56672.4
6400	2185	56688.5				6600	1955	56545.3	6600	2210	56677.2

APPENDIX 4:

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<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>	<u>Grid Co-ordinates</u>			<u>TMI</u>
<u>Northing</u>		<u>Easting</u>	<u>(nT)</u>	<u>Northing</u>		<u>Easting</u>	<u>(nT)</u>	<u>Northing</u>		<u>Easting</u>	<u>(nT)</u>	<u>Northing</u>		<u>Easting</u>	<u>(nT)</u>
<u>Line 6600 North (cont.)</u>				<u>Line 6600 North (cont.)</u>				<u>Line 6800 North (cont.)</u>				<u>Line 6800 North (cont.)</u>			
6600	2215	56700.7		6600	2465	56830.4		6800	1660	56976.7		6800	1910	56993.1	
6600	2220	56669.8		6600	2470	56776.0		6800	1665	56997.5		6800	1915	57037.3	
6600	2225	56632.7		6600	2475	56795.7		6800	1670	56991.2		6800	1920	57025.3	
6600	2230	56629.0		6600	2480	56835.8		6800	1675	56990.6		6800	1925	57027.5	
6600	2235	56604.8		6600	2485	56857.5		6800	1680	56985.4		6800	1930	57041.3	
6600	2240	56611.5		6600	2490	56865.1		6800	1685	56979.4		6800	1935	57066.1	
6600	2245	56585.7		6600	2495	56851.7		6800	1690	56996.9		6800	1940	57065.5	
6600	2250	56662.7		6600	2500	56841.5		6800	1695	57014.5		6800	1945	57018.9	
6600	2255	56125.1		6600	2505	56835.9		6800	1700	57027.7		6800	1950	56997.1	
6600	2260	56303.1		6600	2510	56836.6		6800	1705	57026.5		6800	1955	56967.2	
6600	2265	56489.6		6600	2515	56823.2		6800	1710	57158.0		6800	1960	56954.7	
6600	2270	56481.5		6600	2520	56815.7		6800	1715	57196.5		6800	1965	56953.6	
6600	2275	56527.1		6600	2525	56810.8		6800	1720	57127.3		6800	1970	56941.2	
6600	2280	56558.3		6600	2530	56810.9		6800	1725	57098.7		6800	1975	56922.6	
6600	2285	56571.4		6600	2535	56836.3		6800	1730	57106.4		6800	1980	56908.0	
6600	2290	56578.0		6600	2540	56828.7		6800	1735	57132.4		6800	1985	56891.0	
6600	2295	56596.7		6600	2545	56796.4		6800	1740	57099.1		6800	1990	56902.2	
6600	2300	56614.4		6600	2550	56809.8		6800	1745	57118.2		6800	1995	56911.4	
6600	2305	56624.3		6600	2555	56804.5		6800	1750	57095.2		6800	2000	56910.7	
6600	2310	56633.5		6600	2560	56815.8		6800	1755	57091.7		6800	2005	56885.9	
6600	2315	56646.7		6600	2565	56810.1		6800	1760	57104.2		6800	2010	56864.7	
6600	2320	56655.7		6600	2570	56795.8		6800	1765	57128.1		6800	2015	56827.7	
6600	2325	56648.0		6600	2575	56785.4		6800	1770	57134.1		6800	2020	56823.9	
6600	2330	56645.2		6600	2580	56773.7		6800	1775	57132.2		6800	2025	56847.5	
6600	2335	56644.5		6600	2585	56778.7		6800	1780	57098.2		6800	2030	56894.5	
6600	2340	56665.3		6600	2590	56796.6		6800	1785	57078.7		6800	2035	56651.9	
6600	2345	56736.8		6600	2595	56802.7		6800	1790	57057.4		6800	2040	55965.3	
6600	2350	56717.3		6600	2600	56798.0		6800	1795	57032.3		6800	2045	55626.0	
6600	2355	56702.7		6600	2605	56787.4		6800	1800	57022.2		6800	2050	56250.4	
6600	2360	56701.9		6600	2610	56800.6		6800	1805	57018.4		6800	2055	56983.2	
6600	2365	56673.5		6600	2615	56812.5		6800	1810	57015.8		6800	2060	56887.2	
6600	2370	56654.9		6600	2620	56840.3		6800	1815	57032.1		6800	2065	56889.6	
6600	2375	56620.4		6600	2625	56837.7		6800	1820	57008.8		6800	2070	56867.1	
6600	2380	56620.4		6600	2630	56829.4		6800	1825	56996.4		6800	2075	56889.8	
6600	2385	56618.5		6600	2635	56832.7		6800	1830	57003.3		6800	2080	56896.4	
6600	2390	55351.6		6600	2640	56853.1		6800	1835	57017.1		6800	2085	56915.5	
6600	2395	51461.2		6600	2645	56901.3		6800	1840	57013.4		6800	2090	56925.4	
6600	2400	53173.7		6600	2650	56872.8		6800	1845	57000.9		6800	2095	56922.7	
6600	2405	56610.0		6600	2655	56812.8		6800	1850	56999.1		6800	2100	56927.3	
6600	2410	56813.8		6600	2660	56837.4		6800	1855	56986.3		6800	2105	56916.4	
6600	2415	56849.6		6600	2665	56842.9		6800	1860	56976.3		6800	2110	56909.2	
6600	2420	56833.1		6600	2670	56856.8		6800	1865	56973.4		6800	2115	56909.4	
6600	2425	56839.0		6600	2675	56849.8		6800	1870	56976.1		6800	2120	56904.2	
6600	2430	56808.0		6600	2680	56848.8		6800	1875	56990.5		6800	2125	56898.3	
6600	2435	56797.9		6600	2685	56816.1		6800	1880	56984.2		6800	2130	56903.9	
6600	2440	56793.0		6600	2690	56794.8		6800	1885	56976.8		6800	2135	56907.0	
6600	2445	56792.9		6600	2695	56765.0		6800	1890	56972.4		6800	2140	56914.9	
6600	2450	56690.8		6600	2700	56736.4		6800	1895	56976.0		6800	2145	56928.1	
6600	2455	56748.8		<u>Line 6800 North</u>				6800	1900	56970.7		6800	2150	56930.4	
6600	2460	56824.7		6800	1655	57028.99		6800	1905	56978.7		6800	2155	56945.5	

APPENDIX 4:

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Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)
Line 6800 North (cont.)			Line 7000 North (cont.)			Line 7000 North			Line 7000 North (cont.)		
6800	2160	56963.6	7000	1655	56972.6	7000	1905	56914.0	7000	2155	56933.2
6800	2165	56973.4	7000	1660	56958.8	7000	1910	56924.3	7000	2160	56945.1
6800	2170	56970.3	7000	1665	56957.6	7000	1915	56940.9	7000	2165	56953.6
6800	2175	56952.6	7000	1670	56969.4	7000	1920	56975.1	7000	2170	56950.3
6800	2180	56942.3	7000	1675	56970.6	7000	1925	56965.1	7000	2175	56954.1
6800	2185	56948.4	7000	1680	56967.1	7000	1930	56960.9	7000	2180	56908.2
6800	2190	56952.5	7000	1685	56955.4	7000	1935	56950.4	7000	2185	56849.0
6800	2195	56965.0	7000	1690	56955.2	7000	1940	56947.2	7000	2190	56826.1
6800	2200	56971.0	7000	1695	56948.8	7000	1945	56944.5	7000	2195	56861.8
6800	2205	56983.2	7000	1700	56943.5	7000	1950	56940.5	7000	2200	56861.4
6800	2210	56974.3	7000	1705	56941.2	7000	1955	56943.5	7000	2205	56859.7
6800	2215	56969.1	7000	1710	56942.2	7000	1960	56947.6	7000	2210	56821.4
6800	2220	57010.0	7000	1715	56941.4	7000	1965	56945.6	7000	2215	57012.7
6800	2225	56989.8	7000	1720	56949.7	7000	1970	56942.4	7000	2220	57056.9
6800	2230	56970.9	7000	1725	56932.8	7000	1975	56943.3	7000	2225	57079.4
6800	2235	56964.6	7000	1730	56928.6	7000	1980	56943.3	7000	2230	57078.9
6800	2240	56956.7	7000	1735	56929.2	7000	1985	56945.2	7000	2235	57077.0
6800	2245	56940.2	7000	1740	56932.8	7000	1990	56948.3	7000	2240	57101.4
6800	2250	56947.1	7000	1745	56937.8	7000	1995	56944.3	7000	2245	57100.2
6800	2255	56965.4	7000	1750	56947.9	7000	2000	56939.3	7000	2250	57101.8
6800	2260	56966.8	7000	1755	56949.8	7000	2005	56942.4	7000	2255	57094.8
6800	2265	56989.5	7000	1760	56946.1	7000	2010	56941.1	7000	2260	57096.0
300	2270	57023.9	7000	1765	56956.7	7000	2015	56934.7	7000	2265	57088.4
6800	2275	56965.5	7000	1770	56942.4	7000	2020	56940.8	7000	2270	57079.9
6800	2280	56951.3	7000	1775	56948.6	7000	2025	56942.0	7000	2275	57074.0
6800	2285	56935.9	7000	1780	56949.5	7000	2030	56942.2	7000	2280	57063.3
6800	2290	56925.5	7000	1785	56945.5	7000	2035	56953.5	7000	2285	57065.1
6800	2295	56925.9	7000	1790	56940.6	7000	2040	56973.1	7000	2290	57058.2
6800	2300	56924.1	7000	1795	56938.3	7000	2045	56976.1	7000	2295	57062.9
6800	2305	56947.6	7000	1800	56931.3	7000	2050	56980.6	7000	2300	57061.1
6800	2310	56986.5	7000	1805	56936.9	7000	2055	56982.7	7000	2305	57070.1
6800	2315	57038.8	7000	1810	56954.7	7000	2060	56986.7	7000	2310	57076.3
6800	2320	56942.6	7000	1815	56958.2	7000	2065	56980.2	7000	2315	57092.4
6800	2325	56879.3	7000	1820	56982.6	7000	2070	56972.4	7000	2320	57069.8
6800	2330	56875.6	7000	1825	56980.8	7000	2075	56970.6	7000	2325	57076.7
6800	2335	56898.1	7000	1830	56990.3	7000	2080	56972.4	7000	2330	57063.0
6800	2340	56904.3	7000	1835	57000.1	7000	2085	56977.5	7000	2335	57065.1
6800	2345	56914.2	7000	1840	56950.3	7000	2090	56982.5	7000	2340	57044.7
6800	2350	56887.4	7000	1845	56957.4	7000	2095	56992.4	7000	2345	57040.6
6800	2355	56864.5	7000	1850	56960.9	7000	2100	57002.5	7000	2350	57032.9
6800	2360	56854.7	7000	1855	56957.9	7000	2105	56990.9	7000	2355	57026.0
6800	2365	56958.2	7000	1860	56956.3	7000	2110	56983.2	7000	2360	57019.8
6800	2370	56949.6	7000	1865	56924.7	7000	2115	56988.1	7000	2365	57009.4
6800	2375	56929.2	7000	1870	56894.9	7000	2120	56987.7	7000	2370	57001.0
6800	2380	56897.8	7000	1875	56892.7	7000	2125	56991.1	7000	2375	56995.5
6800	2385	56926.7	7000	1880	56894.6	7000	2130	56981.6	7000	2380	56985.7
6800	2390	57000.0	7000	1885	56874.1	7000	2135	56984.8	7000	2385	56973.4
6800	2395	57212.5	7000	1890	56890.0	7000	2140	56974.8	7000	2390	56976.2
6800	2400	57237.5	7000	1895	56888.0	7000	2145	56956.6	7000	2395	56830.3
7000	1650	56970.0	7000	1900	56891.1	7000	2150	56949.5	7000	2400	56900.0

APPENDIX 4:

CONTINUED

<u>Grid Co-ordinates</u>			<u>Grid Co-ordinates</u>			<u>Grid Co-ordinates</u>			<u>Grid Co-ordinates</u>		
<u>Northing Easting</u>		<u>TMI</u>	<u>Northing Easting</u>		<u>TMI</u>	<u>Northing Easting</u>		<u>TMI</u>	<u>Northing Easting</u>		<u>TMI</u>
		<u>(nT)</u>			<u>(nT)</u>			<u>(nT)</u>			<u>(nT)</u>
Line 7200 North (cont.)			Line 7200 North (cont.)			Line 7200 North			Line 7200 North (cont.)		
7200	1630	56839.9	7200	1880	56869.6	7200	2135	56903.7	7200	2385	56883.8
7200	1635	56845.7	7200	1885	56843.0	7200	2140	56917.3	7200	2390	56883.8
7200	1640	56830.8	7200	1890	56919.9	7200	2145	56931.0	7200	2395	52793.7
7200	1645	56826.4	7200	1895	56964.3	7200	2150	56933.8	7200	2400	51664.0
7200	1650	56821.1	7200	1900	56934.6	7200	2155	56942.6	Line 7400 North		
7200	1655	56819.6	7200	1905	56909.4	7200	2160	56952.9	7400	1670	56706.1
7200	1660	56831.6	7200	1910	56905.3	7200	2165	56927.5	7400	1675	56787.9
7200	1665	56826.0	7200	1915	56903.9	7200	2170	56920.2	7400	1680	56807.0
7200	1670	56838.1	7200	1920	56910.5	7200	2175	56892.2	7400	1685	56818.5
7200	1675	56868.1	7200	1925	56911.2	7200	2180	56876.9	7400	1690	56819.8
7200	1680	56916.7	7200	1930	56890.7	7200	2185	56874.1	7400	1695	56821.8
7200	1685	56959.3	7200	1935	56864.8	7200	2190	56888.3	7400	1700	56821.6
7200	1690	56918.8	7200	1940	56837.6	7200	2195	56875.4	7400	1705	56814.8
7200	1695	56863.0	7200	1945	56814.4	7200	2200	56899.3	7400	1710	56815.7
7200	1700	56813.2	7200	1950	56802.9	7200	2205	56906.1	7400	1715	56827.1
7200	1705	56796.0	7200	1955	56796.4	7200	2210	56894.4	7400	1720	56825.1
7200	1710	56783.3	7200	1960	56793.1	7200	2215	56883.3	7400	1725	56822.5
7200	1715	56798.7	7200	1965	56786.6	7200	2220	56876.3	7400	1730	56830.4
7200	1720	56812.7	7200	1970	56783.5	7200	2225	56871.6	7400	1735	56833.4
7200	1725	56807.3	7200	1975	56777.2	7200	2230	56869.6	7400	1740	56831.3
7200	1730	56803.8	7200	1980	56781.7	7200	2235	56866.0	7400	1745	56832.4
7200	1735	56815.6	7200	1985	56786.9	7200	2240	56872.9	7400	1750	56833.4
7200	1740	56832.6	7200	1990	56793.3	7200	2245	56880.5	7400	1755	56841.4
7200	1745	56839.4	7200	1995	56797.7	7200	2250	56889.3	7400	1760	56844.3
7200	1750	56830.7	7200	2000	56827.3	7200	2255	56894.9	7400	1765	56882.4
7200	1755	56830.8	7200	2005	56872.6	7200	2260	56902.1	7400	1770	56940.6
7200	1760	56821.3	7200	2010	56888.6	7200	2265	56908.8	7400	1775	56773.3
7200	1765	56823.9	7200	2015	56884.5	7200	2270	56908.2	7400	1780	56779.4
7200	1770	56827.8	7200	2020	56891.0	7200	2275	56894.2	7400	1785	56767.6
7200	1775	56830.6	7200	2025	56908.2	7200	2280	56892.2	7400	1790	56762.2
7200	1780	56833.1	7200	2030	56916.3	7200	2285	56893.5	7400	1795	56747.8
7200	1785	56835.1	7200	2035	56909.3	7200	2290	56900.7	7400	1800	56682.6
7200	1790	56834.5	7200	2040	56903.2	7200	2295	56899.9	7400	1805	56757.3
7200	1795	56829.6	7200	2045	56929.7	7200	2300	56905.9	7400	1810	56822.7
7200	1800	56831.6	7200	2050	56913.2	7200	2305	56902.7	7400	1815	56848.6
7200	1805	56830.1	7200	2055	56902.7	7200	2310	56902.3	7400	1820	56853.5
7200	1810	56830.1	7200	2060	56907.2	7200	2315	56899.3	7400	1825	56829.5
7200	1815	56826.7	7200	2065	56904.5	7200	2320	56897.7	7400	1830	56819.3
7200	1820	56830.8	7200	2070	56902.9	7200	2325	56896.2	7400	1835	56800.7
7200	1825	56832.1	7200	2075	56907.6	7200	2330	56892.7	7400	1840	56781.3
7200	1830	56826.1	7200	2080	56922.6	7200	2335	56888.0	7400	1845	56803.1
7200	1835	56844.7	7200	2085	56961.3	7200	2340	56877.8	7400	1850	56819.0
7200	1840	56877.1	7200	2090	56946.9	7200	2345	56879.1	7400	1855	56807.1
7200	1845	56952.9	7200	2095	56898.5	7200	2350	56872.5	7400	1860	56746.7
7200	1850	56980.2	7200	2100	56838.1	7200	2355	56870.9	7400	1865	56770.1
7200	1855	56940.2	7200	2105	56795.5	7200	2360	56902.4	7400	1870	56832.6
7200	1860	56941.1	7200	2110	56742.5	7200	2365	56883.1	7400	1875	56872.1
7200	1865	56964.8	7200	2115	56692.2	7200	2370	56885.5	7400	1880	56911.7
7200	1870	56957.2	7200	2120	56757.0	7200	2375	56879.3	7400	1885	56962.7
7200	1875	56944.9	7200	2125	56853.5	7200	2380	56864.9	7400	1890	57014.4
7200	1880	56869.6	7200	2130	56896.3	7200	2385	56883.8	7400	1895	57010.5

APPENDIX 4:

CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Eastng	(nT)	Northing	Eastng	(nT)	Northing	Eastng	(nT)	Northing	Eastng	(nT)
Line 7400 North (cont.)			Line 7400 North (cont.)			Line 7400 North (cont.)			Line 7600 North (cont.)		
7400	1900	56949.8	7400	2150	56922.6	7400	2380	56840.7	7600	1840	56841.8
7400	1905	56904.1	7400	2155	56937.3	7400	2385	56845.1	7600	1845	56882.5
7400	1910	56901.6	7400	2160	56957.1	7400	2390	56871.5	7600	1850	56900.6
7400	1915	56954.8	7400	2165	56971.5	7400	2395	56870.7	7600	1855	56889.1
7400	1920	56935.0	7400	2170	56988.9	7400	2400	56841.7	7600	1860	56864.6
7400	1925	56919.0	7400	2175	57014.9	Line 7600 North			7600	1865	56871.1
7400	1930	56875.1	7400	2180	57028.9	7600	1620	56840.0	7600	1870	56881.8
7400	1935	56867.5	7400	2185	57028.4	7600	1625	56855.7	7600	1875	56897.4
7400	1940	56862.9	7400	2190	57002.6	7600	1630	56859.3	7600	1880	56897.9
7400	1945	56865.0	7400	2195	57000.9	7600	1635	56854.3	7600	1885	56892.3
7400	1950	56854.6	7400	2200	56997.5	7600	1640	56853.6	7600	1890	56897.0
7400	1955	56845.3	7400	2205	57006.8	7600	1645	56846.5	7600	1895	56913.3
7400	1960	56834.4	7400	2210	57024.0	7600	1650	56842.3	7600	1900	56928.3
7400	1965	56836.8	7400	2215	57011.3	7600	1655	56841.4	7600	1905	56931.7
7400	1970	56827.5	7400	2220	57012.2	7600	1660	56847.1	7600	1910	56924.5
7400	1975	56837.8	7400	2225	57011.3	7600	1665	56859.4	7600	1915	56928.6
7400	1980	56829.7	7400	2230	56995.7	7600	1670	56864.3	7600	1920	56940.8
7400	1985	56839.3	7400	2235	56990.6	7600	1675	56862.9	7600	1925	56954.6
7400	1990	56834.8	7400	2240	56977.0	7600	1680	56867.9	7600	1930	56946.8
7400	1995	56830.5	7400	2245	56979.5	7600	1685	56859.5	7600	1935	56901.2
7400	2000	56854.3	7400	2250	56990.0	7600	1690	56854.0	7600	1940	56854.2
7400	2005	56857.2	7400	2255	57019.8	7600	1695	56851.7	7600	1945	56854.5
7400	2010	56864.0	7400	2260	57058.7	7600	1700	56853.1	7600	1950	56858.9
7400	2015	56862.9	7400	2265	57116.6	7600	1705	56849.8	7600	1955	56867.8
7400	2020	56857.4	7400	2270	57159.7	7600	1710	56833.0	7600	1960	56904.5
7400	2025	56851.1	7400	2275	57160.7	7600	1715	56827.3	7600	1965	56931.6
7400	2030	56883.9	7400	2280	57097.2	7600	1720	56848.6	7600	1970	56933.9
7400	2035	56881.9	7400	2285	57027.2	7600	1725	56859.9	7600	1975	56916.2
7400	2040	56882.6	7400	2290	56968.3	7600	1730	56901.1	7600	1980	56906.4
7400	2045	56875.7	7400	2295	56924.9	7600	1735	56897.9	7600	1985	56892.9
7400	2050	56918.4	7400	2300	56910.1	7600	1740	56895.3	7600	1990	56877.1
7400	2055	56920.3	7400	2305	56916.7	7600	1745	56872.9	7600	1995	56857.3
7400	2060	56955.3	7400	2310	56913.9	7600	1750	56871.3	7600	2000	56853.3
7400	2065	56981.8	7400	2315	56893.5	7600	1755	56857.4	7600	2005	56854.7
7400	2070	57052.7	7400	2320	56869.2	7600	1760	56851.2	7600	2010	56853.4
7400	2075	57139.4	7400	2325	56846.9	7600	1765	56862.3	7600	2015	56852.1
7400	2080	57204.6	7400	2330	56823.0	7600	1770	56846.9	7600	2020	56876.1
7400	2085	57220.9	7400	2335	56815.9	7600	1775	56859.7	7600	2025	56892.3
7400	2090	57179.6	7400	2340	56816.4	7600	1780	56862.3	7600	2030	56906.6
7400	2095	56993.6	7400	2345	56829.5	7600	1785	56866.2	7600	2035	56918.7
7400	2100	56757.7	7400	2350	56841.2	7600	1790	56877.3	7600	2040	56930.2
7400	2105	56552.8	7400	2355	56837.8	7600	1795	56871.2	7600	2045	56930.3
7400	2110	56507.1	7400	2360	56837.1	7600	1800	56837.1	7600	2050	56935.3
7400	2115	56545.9	7400	2365	56853.6	7600	1805	56830.5	7600	2055	56937.0
7400	2120	56672.2	7400	2365	56845.3	7600	1810	56841.5	7600	2060	56940.4
7400	2125	56776.4	7400	2370	56849.9	7600	1815	56844.0	7600	2065	56940.0
7400	2130	56838.4	7400	2370	56838.0	7600	1820	56845.8	7600	2070	56938.5
7400	2135	56869.6	7400	2375	56849.6	7600	1825	56844.9	7600	2075	56938.3
7400	2140	56899.5	7400	2375	56849.9	7600	1830	56841.5	7600	2080	56932.4
7400	2145	56912.9	7400	2380	56840.6	7600	1835	56835.7	7600	2085	56940.4

APPENDIX 4:

CONTINUED

Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)
Line 7600 North (cont.)			Line 7600 North (cont.)			Line 7600 North (cont.)			Line 7800 North (cont.)		
7600	2090	56948.4	7600	2340	57058.0	7600	2580	56827.9	7800	1715	56801.3
7600	2095	56952.6	7600	2345	57052.7	7600	2585	56834.8	7800	1720	56882.2
7600	2100	56947.0	7600	2350	57037.7	7600	2590	56838.1	7800	1725	56932.3
7600	2105	56929.8	7600	2355	57028.1	7600	2595	56843.3	7800	1735	56975.9
7600	2110	56887.1	7600	2360	57028.8	7600	2600	56842.2	7800	1740	56829.5
7600	2115	56827.2	7600	2365	56928.6	7600	2610	56836.2	7800	1745	56769.7
7600	2120	56858.9	7600	2370	56940.9	7600	2615	56831.2	7800	1750	56751.5
7600	2125	56890.7	7600	2375	57046.1	7600	2620	56827.9	7800	1755	56756.3
7600	2130	56944.8	7600	2380	57039.5	7600	2625	56812.5	7800	1760	56780.8
7600	2135	56913.0	7600	2385	56978.8	7600	2630	56806.2	7800	1765	56812.9
7600	2140	56888.8	7600	2390	56939.9	7600	2635	56811.9	7800	1770	56799.6
7600	2145	56887.4	7600	2395	56826.3	7600	2640	56844.7	7800	1775	56786.9
7600	2150	56894.1	7600	2400	56536.6	7600	2645	56874.2	7800	1780	56823.7
7600	2155	56902.3	7600	2405	56972.6	7600	2650	56915.1	7800	1785	56849.0
7600	2160	56902.7	7600	2400	49915.6	7600	2655	56935.1	7800	1790	56858.3
7600	2165	56899.7	7600	2405	56636.7	7600	2660	56939.0	7800	1795	56861.3
7600	2170	56877.5	7600	2410	56697.8	7600	2665	56925.3	7800	1800	56900.9
7600	2175	56867.2	7600	2415	56732.5	7600	2670	56902.6	7800	1805	56888.1
7600	2180	56855.7	7600	2420	56762.1	7600	2675	56893.0	7800	1810	56879.5
7600	2185	56876.4	7600	2425	56778.2	7600	2680	56862.1	7800	1815	56874.0
7600	2190	56898.2	7600	2430	56795.3	7600	2685	56845.2	7800	1820	56866.5
7600	2195	56913.9	7600	2435	56804.4	7600	2690	56865.1	7800	1825	56854.9
7600	2200	56908.9	7600	2440	56797.1	7600	2695	56902.8	7800	1830	56861.8
7600	2205	56901.0	7600	2445	56798.9	7600	2700	56880.4	7800	1835	56862.3
7600	2210	56892.5	7600	2450	56802.3	Line 7800 North			7800	1840	56855.9
7600	2215	56879.3	7600	2455	56825.6	7800	1590	56568.9	7800	1845	56857.1
7600	2220	56870.3	7600	2460	56762.8	7800	1595	56784.5	7800	1850	56889.1
7600	2225	56885.0	7600	2465	56779.5	7800	1600	56837.8	7800	1855	56893.0
7600	2230	56882.7	7600	2470	56733.2	7800	1605	56853.9	7800	1860	56904.9
7600	2235	56899.3	7600	2475	56688.7	7800	1610	56849.5	7800	1865	56927.5
7600	2240	56909.6	7600	2480	56794.8	7800	1615	56843.5	7800	1870	56947.5
7600	2245	56919.2	7600	2485	56819.8	7800	1620	56845.1	7800	1875	56952.0
7600	2250	56935.7	7600	2490	56822.4	7800	1625	56846.3	7800	1880	56948.9
7600	2255	56946.9	7600	2495	56840.7	7800	1630	56841.7	7800	1885	56935.5
7600	2260	56950.8	7600	2500	56851.7	7800	1635	56846.6	7800	1890	56925.9
7600	2265	56954.5	7600	2505	56852.7	7800	1640	56831.3	7800	1895	56918.9
7600	2270	56960.5	7600	2510	56851.9	7800	1645	56836.1	7800	1900	56904.9
7600	2275	56970.6	7600	2515	56845.8	7800	1650	56862.6	7800	1905	56884.5
7600	2280	56980.4	7600	2520	56850.5	7800	1655	56904.2	7800	1910	56902.2
7600	2285	56998.6	7600	2525	56843.5	7800	1660	56886.9	7800	1915	56925.1
7600	2290	57017.9	7600	2530	56843.5	7800	1665	56897.3	7800	1920	56935.8
7600	2295	57037.7	7600	2535	56850.8	7800	1670	56888.9	7800	1925	56938.5
7600	2300	57066.5	7600	2540	56856.1	7800	1675	56860.5	7800	1930	56923.7
7600	2305	57086.2	7600	2545	56860.8	7800	1680	56845.4	7800	1935	56901.8
7600	2310	57087.1	7600	2550	56856.5	7800	1685	56876.0	7800	1940	56889.2
7600	2315	57068.7	7600	2555	56857.0	7800	1690	56901.3	7800	1945	56873.0
7600	2320	57056.3	7600	2560	56852.0	7800	1695	56891.2	7800	1950	56861.6
7600	2325	57056.8	7600	2565	56847.4	7800	1700	56929.2	7800	1955	56853.3
7600	2330	57068.7	7600	2570	56846.5	7800	1705	56836.2	7800	1960	56847.5
7600	2335	57075.3	7600	2575	56830.2	7800	1710	56768.0	7800	1965	56851.3

APPENDIX 4:

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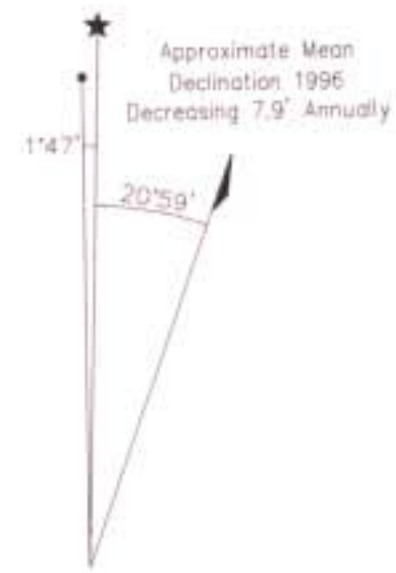
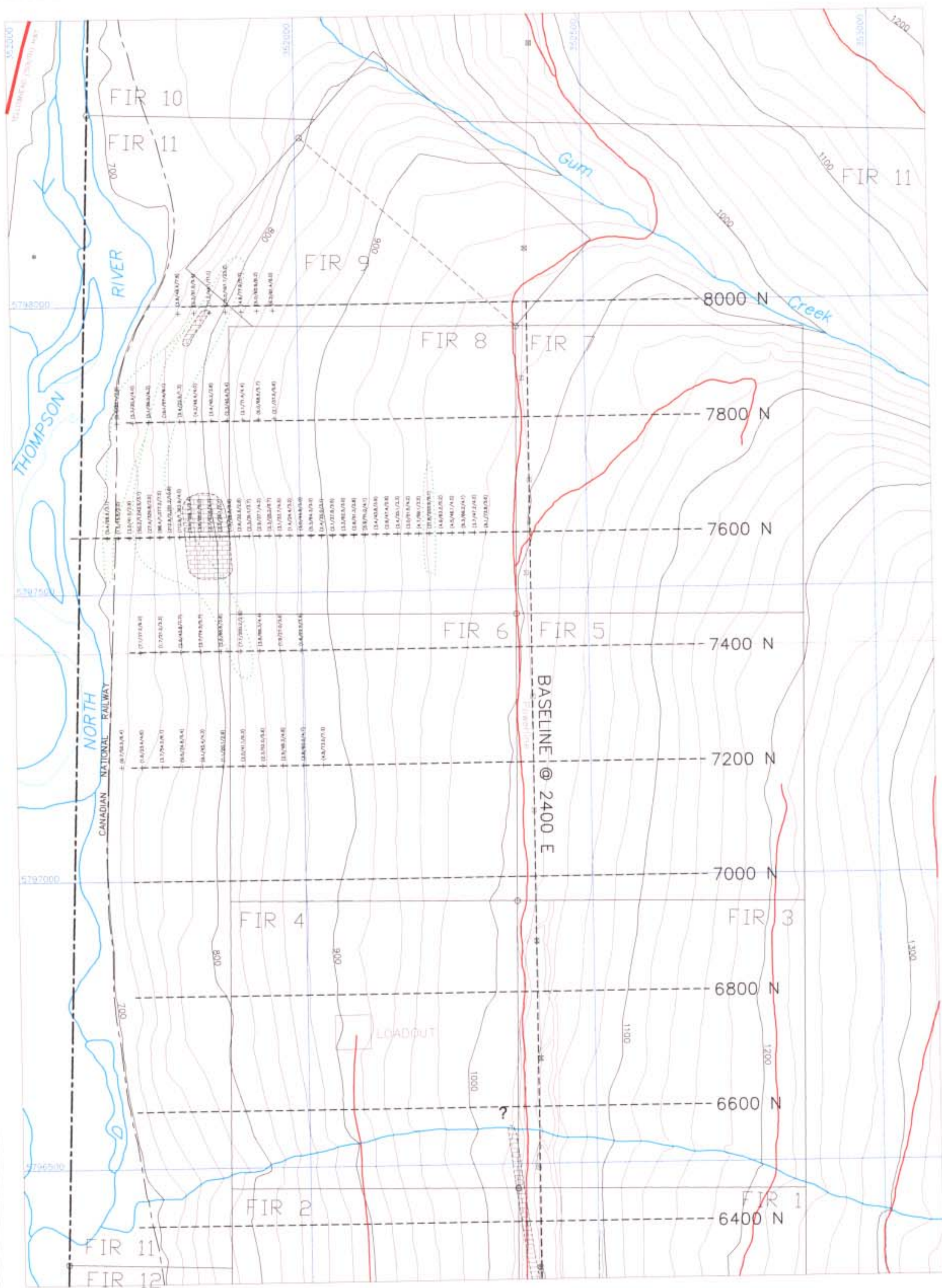
Grid Co-ordinates		TMI	Grid Co-ordinates		TMI	Grid Co-ordinates		TMI
Northing	Easting	(nT)	Northing	Easting	(nT)	Northing	Easting	(nT)
Line 7800 North (cont.)			Line 7800 North (cont.)			Line 7600 North (cont.)		
7800	1970	56860.4	7800	2225	56924.6	7800	2555	56985.1
7800	1975	56870.2	7800	2230	57016.1	7800	2560	56915.6
7800	1980	56903.1	7800	2235	56865.8	7800	2565	56872.5
7800	1985	57002.4	7800	2240	56830.5	7800	2570	56860.4
7800	1990	57140.9	7800	2245	56862.8	7800	2575	56866.5
7800	1995	57172.0	7800	2250	56880.7	7800	2580	56763.3
7800	2000	56995.8	7800	2255	56876.8	7800	2585	56759.4
7800	2005	56960.9	7800	2260	56869.8	7800	2590	56757.8
7800	2010	56979.7	7800	2265	56850.6	7800	2595	56790.6
7800	2015	57000.6	7800	2270	56844.8	7800	2600	56798.8
7800	2020	57015.8	7800	2275	56862.2	7800	2605	56822.5
7800	2025	57011.7	7800	2280	56837.8	7800	2610	56848.4
7800	2030	56989.1	7800	2285	56833.2	7800	2615	56865.0
7800	2035	56975.5	7800	2290	56795.4	7800	2620	56880.3
7800	2040	56979.5	7800	2295	56790.2	7800	2625	56885.4
7800	2045	56960.1	7800	2300	56840.2	7800	2630	56854.0
7800	2050	56959.3	7800	2305	56839.8	7800	2635	56783.2
7800	2055	56978.3	7800	2310	56857.7	7800	2640	56785.1
7800	2060	57002.9	7800	2315	56883.2	7800	2645	56860.3
7800	2065	57017.7	7800	2320	56887.5	7800	2650	56921.6
7800	2070	57093.7	7800	2325	56898.2	7800	2655	56900.8
7800	2075	57115.7	7800	2330	56877.6	7800	2660	56875.7
7800	2080	57091.5	7800	2335	56821.4	7800	2665	56823.1
7800	2085	57070.8	7800	2340	56868.0	7800	2670	56842.6
7800	2090	57048.1	7800	2345	56863.4	7800	2675	56853.0
7800	2095	57033.5	7800	2350	56865.2	7800	2680	56867.6
7800	2100	57014.3	7800	2355	56885.3	7800	2685	56875.4
7800	2105	56961.2	7800	2360	56903.9	7800	2690	56870.2
7800	2110	56947.3	7800	2365	56883.1	7800	2695	56880.7
7800	2115	56947.2	7800	2370	56873.4	7800	2700	56893.6
7800	2120	56929.9	7800	2375	56869.8			
7800	2125	56905.1	7800	2380	56906.9			
7800	2130	56869.0	7800	2385	56855.9			
7800	2135	56848.4	7800	2390	56866.2			
7800	2140	56837.4	7800	2395	56907.1			
7800	2145	56847.4	7800	2475	56849.5			
7800	2150	56881.1	7800	2480	56850.7			
7800	2155	56920.2	7800	2485	56843.7			
7800	2160	56951.7	7800	2490	56834.6			
7800	2165	56983.2	7800	2495	56833.9			
7800	2170	57001.3	7800	2500	56845.9			
7800	2175	57033.1	7800	2505	56846.8			
7800	2180	56989.9	7800	2510	56806.1			
7800	2185	56938.1	7800	2515	56801.9			
7800	2190	56934.0	7800	2520	56794.6			
7800	2195	56968.3	7800	2525	56825.5			
7800	2200	56988.9	7800	2530	56823.1			
7800	2205	57005.6	7800	2535	56814.9			
7800	2210	57117.9	7800	2540	56864.4			
7800	2215	57065.2	7800	2545	56805.0			
7800	2220	56825.7	7800	2550	56835.6			

APPENDIX 5: STATEMENT OF QUALIFICATIONS

The field work described in this report was supervised by Jeff Reeder and Jody Dahrouge.

Mr. Reeder is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained a degree in geology from the University of Alberta, Edmonton in 1988. He is registered as P. Geo. with the Association of Professional Engineers and Geoscientists of B.C. He has more than 13 years of experience in mineral exploration.

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



SYMBOLS

- Carbonatite outcrop
- Property boundary
- FIR # Mineral claim boundary; name
- Claim post location
- Logging road
- Flagged survey line
- Soil sample location; assays
- Soil anomaly (Ta2O5 > 5 ppm)

GEOLOGICAL SURVEY BRANCH
PROFESSIONAL REPORT

26,781



NOTES

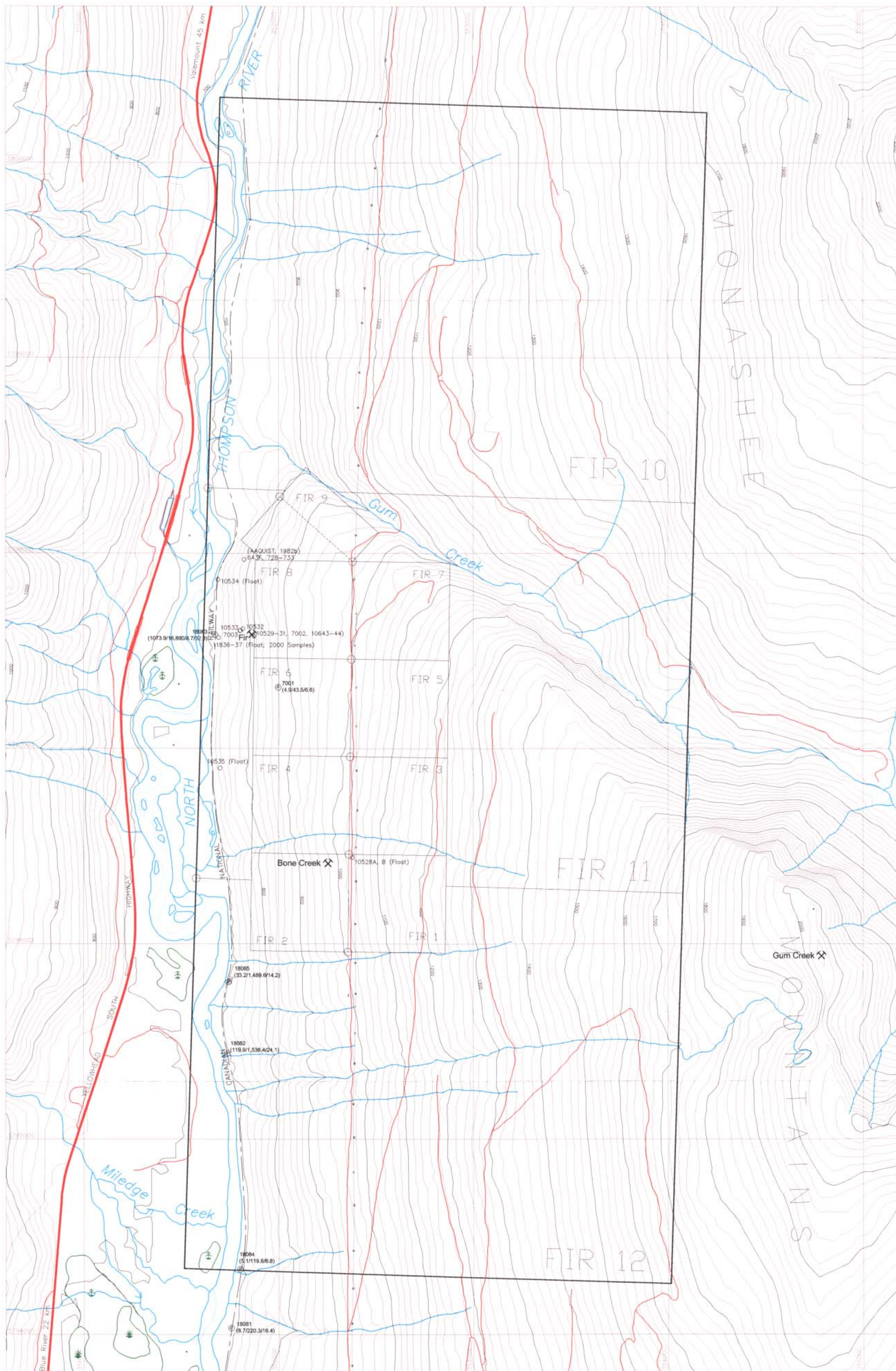
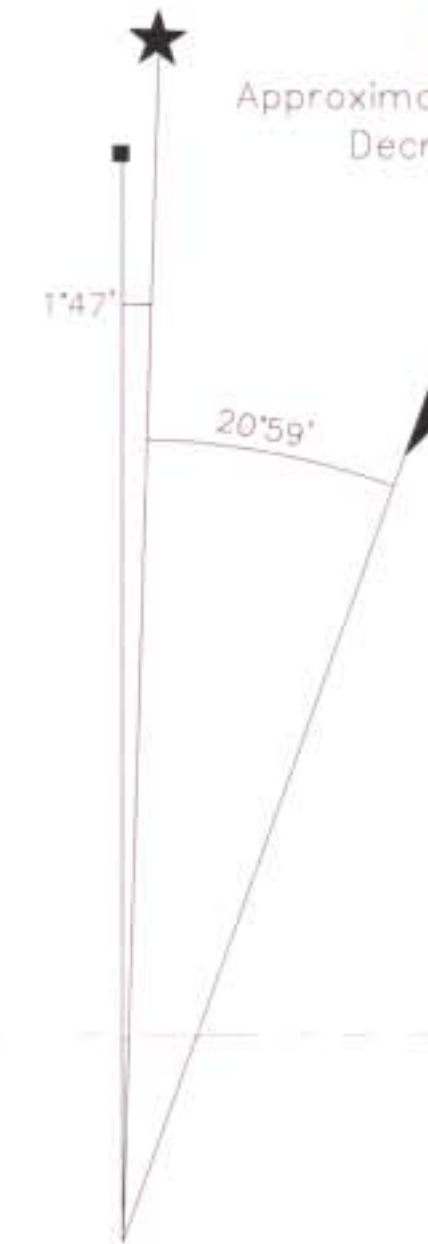
- 1) Topographic basemap from 1:20,000 scale digital TRIM map 83D035 supplied by Land Data British Columbia.
- 2) Grid shown is UTM (NAD83).
- 3) Contour interval is 20 metres.

<p>COMMERCE RESOURCES CORP.</p> <p>DAHROUGE GEOLOGICAL CONSULTING LTD. Edmonton, Alberta</p> <p>FIR PROPERTY, BLUE RIVER, BRITISH COLUMBIA</p> <p>Fig. 3.1</p> <p>Geology and Results of</p> <p>2001 Soil Sampling</p> <p>Scale: 1:5,000</p> <p>2002.02</p>
--

1

26,781

Approximate Mean Declination 1996
Decreasing 7.9" Annually



SYMBOLS

- ⊗ Mineral deposit or showing
- Logging road
- FIR 8 Mineral claim boundary; name
- Property boundary
- Claim post location
- Location of panned concentrate sample; assay (Ta₂O₅, Nb₂O₅, U (ppm))
- Rock sample location; number

NOTES

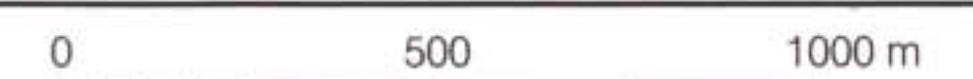
- 1) Topographic basemap from 1:20,000 scale digital TRIM map 83D035 supplied by Land Data British Columbia.
- 2) Grid shown is UTM (NAD83).
- 3) Contour interval is 20 metres.

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FIR PROPERTY, BLUE RIVER, BRITISH COLUMBIA

Figure 3.2
Locations of Rock Samples and
Pan Concentrate Samples



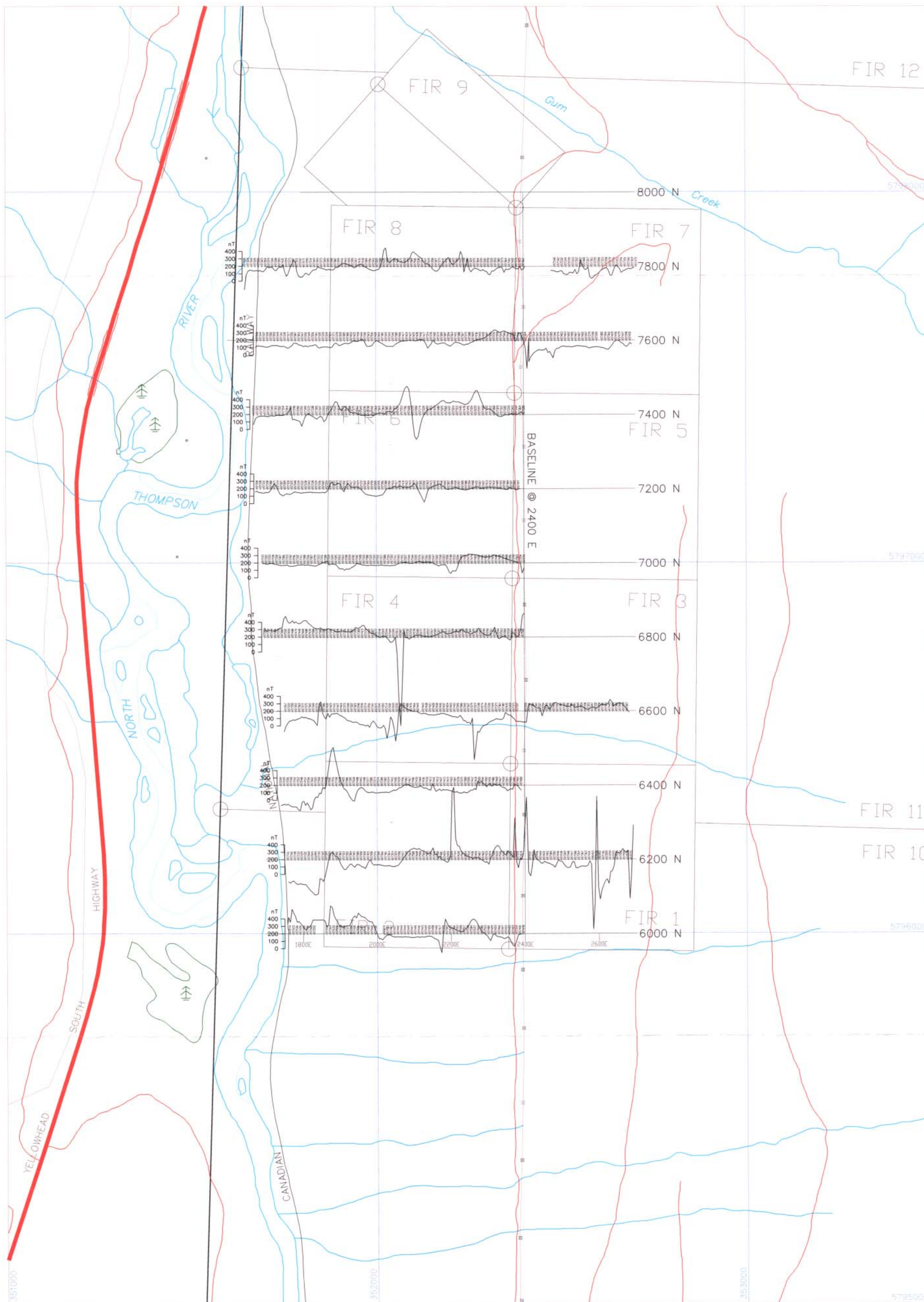
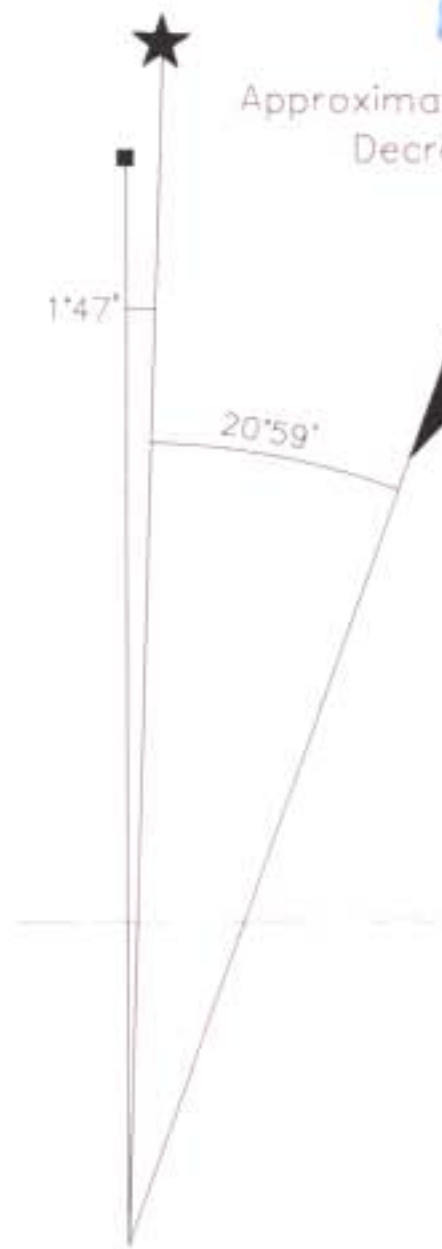
WM

Scale: 1:10,000

2001.05

26,781

Approximate Mean Declination 1996
Decreasing 7.9" Annually



SYMBOLS

- Flagged geophysical survey line
- Survey station; total magnetic field (nT)
- Magnetic line profile

NOTES

- 1) Grid shown is universal transverse mercator (UTM) NAD83.

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Fig. 4.1
Total Magnetic Field Data
with Line Profiles

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