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**PERMIT NUMBER: P 6793**  
The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta

**COMMERCE RESOURCES CORP**

**2003 DIAMOND DRILLING ON THE  
AUBYRD PROPERTY**

SOUTHWEST OF FERNIE, BRITISH COLUMBIA  
(FORT STEEL MINING DIVISION)

CLAIM

AUBYRD 2

Geographic Coordinates

49° 08' N  
114° 33' W

NTS Sheet 82 G/1

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

Owner/Operator: Commerce Resources Corp  
1450-789 West Pender Street  
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Date Submitted: 2004 04 30

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## 1.

### INTRODUCTION

The AuByrd Property is located approximately 60 km southeast of Fernie, British Columbia. It currently consists of one mineral claim, AuByrd 2. The AuByrd 1 to 3 mineral claims were originally acquired by Commerce Resources Corp. in April 1999. Claims AuByrd 1 and 3 were allowed to lapse on April 2, 2004, AuByrd 2 remains in good standing.

Work was conducted on the AuByrd 2 Claim between October 23 and November 12, 2003 by Dahrouge Geological Consulting Ltd. on behalf of Commerce Resources Corp under reclamation permit MX-5-530. It included the rehabilitation and construction of 4½ km of old logging road, skidder trail, and seismic lines to make them suitable for access by drill equipment. In addition one NQ-sized diamond drill hole totalling 108 m was completed, logged and sampled. A total of 17 samples were collected from this hole.

Through out this report, attitudes of bedding and other planar features are given as  $A^{\circ}/B^{\circ}$  SW, where  $A^{\circ}$  is the azimuth of the strike and  $B^{\circ}$  is the amount of dip in the direction indicated.

#### 1.1 GEOGRAPHIC SETTING

##### 1.1.1 Location and Access

The AuByrd Property encompasses the southern portion of Trachyte Ridge of Rocky Mountains on the west side of Flathead River Valley in southeast British Columbia. The property is about 60 km southeast of Fernie, about 20 km north of the Montana border, and about 30 km west of the Alberta border. It is within National Topographic System (NTS) map areas 82 G/1 W of the Fort Steel mining district and is centered at 49° 08' north latitude and 114° 33' west longitude (Fig. 1.1).

Access to the property is via a logging road which branches off Provincial Highway 3 about 10 km south of Fernie, British Columbia. The logging road extends along Lodgepole Creek and Harvey Creek and connects to the Flathead Forestry Service Road. From the Flathead Forestry Service Road, access to the AuByrd 2 claim is primarily restricted to four wheel drive vehicles via the rehabilitated exploration road which spurs westerly along Howell Creek, a few kilometres north of a recreation site along the Flathead Forestry Service Road (Fig. 1.2). Supplies and accommodations are available at Fernie or Cranbrook, the latter of which is 100 km west of Fernie.

##### 1.1.2 Topography, Vegetation, Climate, and Geographic Names

The AuByrd Property, which is located along the Flathead River Valley, is set within an area of rugged mountains with elevations greater than 2500 m above sea level (a.s.l.), whereas the elevation of the valley bottom is about 1300 m a.s.l. Much of the area is characterized by broad

river valleys, edged by moderate slopes leading upward to steep cliffed mountain tops.

Most of the lower parts of the mountain slopes are heavily timbered with spruce, pine, and lesser deciduous varieties. Treeline is at an elevation of about 1800 m with subalpine vegetation consisting of a sparse cover of stunted spruce and pine. Above treeline, vegetation is limited to alpine shrubs and foliage.

Climate is alpine with average summer temperatures of 20° to 25° C and average winter temperatures of -10° to -15° C. Average precipitation is about 120 cm per year with maximum snowfall in November and December which averages 150 to 165 cm.

## 1.2 PROPERTY

The Aubyrd Property was originally acquired by Commerce Resources Corp. in April 1999 and consisted of three mineral claims: AuByrd 1, AuByrd 2 and AuByrd 3. The AuByrd 1 and 3 claims were allowed to lapse on April 2, 2004. AuByrd 2 remained in good standing (Table 1.2). The AuByrd 2 claim is a four-post claim consisting of 4 claim units covering approximately 1km<sup>2</sup> is situated within the Fort Steel Mining District (Fig. 1.3). It is held 100% by Commerce Resources Corp.

**TABLE 1.1 LIST OF MINERAL CLAIMS**

Claim Name	Tenure Number	Units/Claims	Record Date	Actual or Expected Expiry Date
AuByrd 2	368367	<u>4</u> 4	April 2, 1999	April 2, 2014

## 1.3 HISTORY AND PREVIOUS INVESTIGATIONS

The earliest recorded exploration activity in the Flathead River Valley was for its hydrocarbon potential. Active oil seeps in the Sage Creek watershed discovered in the early part of the century led several companies to drill shallow wells in their vicinity. More recent exploration by Shell Canada Resources has been for oil and carbon dioxide (CO<sub>2</sub>)reservoirs. Shell's exploration model depicts volcanic intrusions liberating large volumes of CO<sub>2</sub> from carbonate rocks. During the 1990's Shell completed seismic surveys and test wells in the area.

Coal has also been a source of consistent exploration activity in the Flathead River Valley. Recent efforts by Sage Creek Coal Consortium have occurred primarily within Cabin Creek

watershed. As well, Fording Coal Ltd. has completed several exploration drill holes within the upper Flathead Valley.

At the east side of Flathead Valley at Clark Range of British Columbia and Alberta, exploration for sedimentary hosted base and precious metals was initiated in the late 1960's. Prior to that time only scattered reports of copper mineralization had been made.

Mineral claims in the Howell Creek area were first staked in 1969 by N.C. Lenard to cover a Trachyte-Syenite complex on Piaysoo Ridge. Geologic and geochemical work evaluated the potential for copper, molybdenum, lead and zinc mineralization. Work on the claims was subsequently performed by Canartic Resources Ltd. and Cominco Ltd. (Cominco) in 1972 (Lenard, 1977).

The property was restaked by Cominco for gold in 1983 on the basis of heavy mineral sampling results. Soil and rock geochemistry and mapping followed in 1984. Several gold-silver showings and outcrops of disseminated pyrite, fluorite and galena were found associated with trachytes on the western side of Piaysoo Ridge (Noakes, 1984).

In 1984 Fox Geological Consulting Ltd., on behalf of Dome Exploration (Canada) Limited, initiated a regional silt sampling and prospecting survey within Clark Range. The exploration identified several anomalous drainages along Trachyte Ridge which were staked as the Flathead claims. Work completed between 1985 and 1994 included rock and soil geochemistry, gridding, prospecting, trenching and diamond drilling with exploration focussed on trachyte-syenite intrusions emplaced within Paleozoic carbonates. Anomalous results included drill intersections of 7.58 g/t Au across 1.5 m, grab samples yielding up to 620 g/t Au from mineralized syenite and syenite breccia, and 350.7 g/t Au sample from a 3 m wide by 47 m long quartz vein associated with a syenite dyke (Morton and Garratt, 1999). During 1997, the Flathead claims lapsed and a portion of the original property was re-staked as the Flat claims by P.E. Fox.

In 1998, Eastfield Resources Ltd. (Eastfield) optioned the Flat claims and staked additional claims along Trachyte Ridge immediately north of the AuByrd Property. During 1999, Eastfield and joint venture partner International Curator Resources Ltd. conducted geological, geophysical and geochemical surveys based on a bulk mineable gold model with the intent to locate the source of a 1½ km long gold in soil geochemical anomaly and numerous gold and magnetite-bearing syenite cobbles. Exploration identified:

- a) two large induced polarization geophysical anomalies;
- b) a well defined greater than 50 ppb gold in soil geochemical anomaly which covers an area of about 1,400 by 250 m;

- c) 35 syenite and breccia rock samples from overburden below the soil anomaly with up to 620 g/t Au with an average grade of 8 g/t Au for all mineralized samples; and
- d) an existing trench of altered syenite yielded 8.6 g/t Au across 16.5 m (International Curator, 1999a). Diamond drilling completed during the fall of 1999 comprised 10 drill holes totalling 1,096 m.

All 10 holes intersected syenite intrusions, breccia and weakly altered carbonate rocks; anomalous gold values were encountered only in drill holes CP-99-03 and CP-99-08 with peak values of 330 ppb Au and 215 ppb Au respectively (International Curator, 1999b). Drill conditions were difficult with poor core recovery.

During April 1999, the AuByrd claims were staked by P. Kleespies with partners W. McGuire, J. Dahrouge and B. Dahrouge, who optioned the claims to Commerce Resources Corp. (nee Rocca Resources Ltd.). Subsequently, in December 1999, Geoterrex-Dighem on behalf of Commerce Resources Corp. completed a high-resolution heli-borne magnetic-resistivity-electromagnetic geophysical survey totalling 68.7 line kilometres. Interpretation of airborne data identified a north trending, sharp, 220 nT, 400 m wide by 900 m long magnetic anomaly in the central part of the property (Faragher, Dahrouge 2000). The magnetic high is coincident with a broad resistivity low and a conductive electromagnetic channel along its eastern margin. The magnetic anomaly may represent an intrusion and/or skarn at a relatively shallow depth.

Solitaire Minerals Corp. (Solitaire) optioned the AuByrd Property from Commerce and a limited exploration program consisting of a ground magnetic survey and rock and soil sampling was conducted in September 2002. The ground magnetic survey further defined the linear nature and extent of the magnetic anomaly. Soil samples collected from the property defined a weakly anomalous zone of gold-silver-arsenic-antimony peripheral to the magnetic anomaly. The anomalous zone runs parallel to the trend of the magnetic anomaly and is shifted slightly down-slope to the southwest.

During 2002, Goldrea Resources Ltd. optioned the Crowsnest Property from Eastfield and conducted a limited diamond drill program locating a mineralized zone south of the trench (Goldrea, 2002). The exploration program intersected gold mineralization in the intrusive and host-rock limestone in core-hole GR-02-03. The interval graded 0.40 g/t gold over 42.5 m with a 3 m section of 2.62 g/t gold (Goldrea, 2003). Additional work to further define the extent of the mineralized zone is planned for 2003.

#### **1.4 PURPOSE OF SURVEY**

One drillhole was completed to test for the presence of gold presumably related to a coincident magnetic and soil geochemistry anomaly (Hardy, 2003).

#### **1.5 SUMMARY OF WORK**

In October and November 2003, Brent Gonek of Dahrouge Geological Consulting Ltd. supervised the drilling on the AuByrd Property. Work included the construction of one drill pad, the rehabilitation of 3.5 km of old cut line, and the construction of 1 km of new trail to make the road suitable for access by drill equipment. In addition, one NQ-sized diamond drill hole totalling 108 m was completed during November 2003. The 17 core samples were sent to Acme Analytical Laboratories in Vancouver B.C. for lithochemical analysis by ICP-MS techniques.

The work was authorized by Commerce Resources Corp. and approved under reclamation permit MX-5-530.

#### **1.6 FIELD OPERATIONS**

Drilling was conducted by a 4-person crew from October 23, 2003 to November 13, 2003. Personnel were based in Fernie, British Columbia, and four-wheel-drive vehicles were used for transportation to the property. A global positioning system (GPS) instrument provided detailed survey information for the drill hole with accuracy of less than a 5 metres. The core was logged and split on site.

## **2. REGIONAL GEOLOGY**

The region is underlain by a series of Precambrian sedimentary rocks of the Belt-Purcell Series and Paleozoic to Mesozoic marine sediments of the Lewis Thrust Sheet. The Lewis Thrust carried the Precambrian rocks, which now constitute a portion of Clark Range, eastward between 7½ to 9 km and superimposed them on younger Palaeozoic and Mesozoic strata. Regionally, the Lewis Thrust Sheet forms a broad synclinorium within which Precambrian sediments form the Akamina Syncline. The Akamina Syncline is a broad northwest trending structure approximately 30 km wide by 65 km long and is truncated along its western edge by Flathead Fault. Flathead Fault is a major southwest dipping gravity (normal fault(s)) which have stratigraphic separations ranging from a few hundred to more than 6000 m (Price, 1965).



**TABLE 2.1: TABLE OF FORMATIONS\***

Era	Period or Epoch	Formation	Lithology	Thick (m)
Paleozoic	Cretaceous (?)	-	Trachyte, Latite, Syenite, Felsite, and intrusion breccia	-
	Mississippian	Rocky Mountain	Marine sandstone, dolomite, chert, shale, siltstone	0-455
		Etherington	Marine limestone, dolomite, shale, siltstone, anhydrite	60-260
		Mount Head	Marine limestone, dolomite, dolomite and limestone breccias	120-305
		Livingstone	Marine limestone, cherty limestone, dolomite	245-425
		Banff	Marine limestone, cherty limestone, shale, chert	180-320
		Exshaw	Marine shale	37663
	Devonian	Palliser	Marine limestone, dolomite	200-220
		Alexo	Marine limestone, dolomite, siltstone, sandstone	6-150
		Fairholme	Marine limestone, argillaceous limestone, shale, dolomite	290-455
	Cambrian	Elko	Marine dolomite, dolomitic limestone	85-215
		Flathead	Marine sandstone, conglomeratic sandstone	7-45
	Precambrian	Proterozoic	Roosville	Green argillite, siltstone, sandstone, stromatolitic dolomite
Phillips			Red sandstone, siltstone, argillite	150-215
Gateway			Argillite, argillaceous siltstone, dolomite, sandstone	350-915
Sheppard			Quartzitic and dolomitic sandstone, dolomite, argillite, siltstone, pillowed andesite	45-275
Purcell			Chloritized andesite, amygdaloidal andesite flows, pillowed andesite	0-180
Siyeh			Limestone, dolomite, argillite	345-915
Grinnell			Red argillite, sandstone, siltstone	110-520
Appekunny			Argillite, sandstone, siltstone	455-610
Altyn			Argillaceous limestone and dolomite, argillite	150-1220
Waterton			Limestone and dolomite, argillite, argillaceous dolomite	455+

\*modified after Price (1962)

### **3. PROPERTY GEOLOGY**

#### **3.1 STRATIGRAPHY, STRUCTURE, AND LITHOLOGY**

Reconnaissance scale government mapping by Price (1962) shows bedrock geology in the area of the AuByrd property to consist of Paleozoic strata, including marine sediments of the Palliser, Exshaw, Banff, Livingstone, Mount Head, Etherington and Rocky Mountain formations (Fig 3.1). Cretaceous and/or Tertiary aged dykes and anastomosing stock-like masses of Trachyte, syenite, and intrusion breccias intrude the sedimentary successions found in the region. A summary of the regional stratigraphy can be found in Table 2.1. Detailed geology maps of the property are currently unavailable.

The primary exploration target at the AuByrd Property is gold-silver mineralization associated with alkaline intrusions. The bulk tonnage disseminated deposits may be within the structurally controlled syenitic intrusives or along the periphery in the form of quartz-carbonate veins or skarns. Based on the trace-element and host rock chemistry, Eastfield Resources Ltd. (2002) concluded that the style of mineralization on the AuByrd Property is comparable to that of the gold-telluride deposits of Cripple Creek, Colorado which produced more than 20, 000,000 ounces of gold (Boyle, 1979). This type of deposit is characterized by mineralized veins, sheeted zones and breccias that result from alkaline igneous magmatism. The gold-telluride mineralization tends to be late-stage and associated with gangue minerals such as pyrite, carbonate, quartz and other sulfides.

Other potential exploration targets in the area include sediment-hosted gold related to the intrusive events and sediment hosted base metals

#### **3.2 MINERALIZATION**

Three separate styles of mineralization have been identified near the AuByrd claims on Trachyte Ridge, including:

- 1) gold with lesser amounts of silver associated with syenitic diatremes, dykes and sills;
- 2) quartz-carbonate veins peripheral to the intrusions; and
- 3) skarn mineralization in Paleozoic sediments.

Intrusive related mineralization will occur as bulk tonnage disseminated deposits within the diatreme or in fracture/breccia zones in and peripheral to the intrusions, and high-grade vein deposits generally marginal to the intrusions. Restricted halos of intense sericite and carbonate alteration and elevated Te, F, Cu, Zn, Pb, V, Ba, Mo, and Mn values are typically associated with this style of intrusive mineralization.

## **4. 2003 EXPLORATION**

### **4.1 CONSTRUCTION AND IMPROVEMENTS TO ACCESS TRAILS**

The construction of the drill pad, and new trail and the rehabilitation of the cut lines was performed by Beaupre Diamond Drilling Ltd. Between October 23 to November 12, 2003 the following equipment was used:

- Chain saw and brush saw for clearing,
- Low bed for transportation, and
- John Deere 650G Dozer.

The John Deere Dozer was used during the above noted period to rehabilitate access trails, construct a drill pad and new trail, as well as move drill rig and equipment into position. The dozer was also used for ditching wet and poorly drained areas, and for installing culverts where required. A total of approximately 4.5 km of road was rehabilitated on the AuByrd Property.

### **4.2 DIAMOND DRILLING, SAMPLING AND ANALYTICAL PROCEDURES**

Diamond drilling was approved under reclamation permit MX-5-530, which was obtained during 2003. One NQ-sized hole totalling 108m was diamond drilled during November, 2003. The hole was located in the centre of a magnetic anomaly found by the high-resolution heli-borne magnetic-resistivity-electromagnetic geophysical survey completed by Geoterrex-Dighem in 1999 (Hardy, 2003). Drillhole collars were surveyed using a GPS instrument.

Diamond Drilling was contracted to Beaupre Diamond Drilling Ltd. of Princeton, B.C. Access to the drill site was along the Flathead Forestry Service Road, thence an improved cutline and newly constructed trail. Water for drilling was obtained from a nearby creek draining the property.

All core was logged, spilt, and photographed on site. Core logging involved both geological and geotechnical aspects. Geological descriptions included lithology, mineralogy and structure (Appendix 3A). Geotechnical logging involved measured recoveries, Rock Quality Indices (RQDs) and fracture densities (Appendix 3B). After logging the core was split and half of the core was replaced in the core box. One half of the core was sampled and sent to Acme Analytical Laboratories in Vancouver for litho-geochemical analysis by ICP-MS techniques (Table 2, Appendix 2).

**TABLE 4.1 RESULTS OF DRILLING**

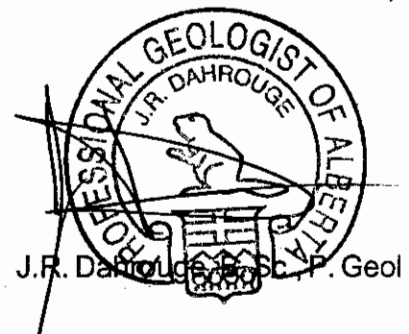
Depth (m)	Rock Type	Samples	Au (ppb)
0.00 - 47.40	Overburden	No Samples	n/a
47.40 - 101.64	Limestone/Dolostone	No Samples	n/a
101.64 - 108.00	Variably Altered Syenite	19163 101m - 102m	0.5
		19164 102m - 102.56m	14.0
		19165 102.56m - 103.86m	32.8
		19166 103.86m - 106m	8.3
		19167 106m - 107.94m	6.9

**4.2.1 DDH-1**

DDH-1 is located at 679515E, 5446040N (NAD 27) and was drilled at an orientation of 000°/90°. The drillhole was collared in overburden and drilled through 54.24m of relatively unmineralized limestone before intersecting an intrusive zone of red grey trachytic syenite. The 6.3 m intrusive zone exhibits clay alteration. The upper 2.22 m of the intrusive zone shows pyrite mineralization and the lower 1.67 m shows magnetite mineralization. These are separated by a zone of intensely clay altered red-grey syenite with no visible mineralization. Due to clay swelling, the hole had to be abandoned at 108 m, 92 m above the target depth of 200 m. (Appendix 3A).

**5. DISCUSSION AND CONCLUSIONS**

DDH-1 was abandoned at 108 m, well above the geophysical delineated target depth of 200 m. Anomalous gold values were intersected at the base of the hole, including 0.56 m of 14 ppb Au from 102 meters to 102.56 meters and 1.3 m of 32.8 ppb from 102.56 meters to 103.86 meters. All the samples were composed of a grey pink brecciated and calcite veined intrusive (syenite) with large clasts of pyrite and disseminated pyrite throughout. A marked increase in pyrite was seen as the depth increased in the hole.



Edmonton, Alberta

2004 04 30

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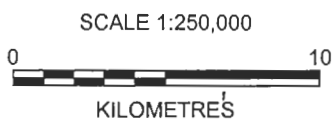


<b>COMMERCE MINERALS CORP.</b>	
DAHROUGE GEOLOGICAL CONSULTING LTD. EDMONTON, ALBERTA	
SOUTHEASTERN BRITISH COLUMBIA	
Figure 1.1 Location Map	
SGR	2004.04

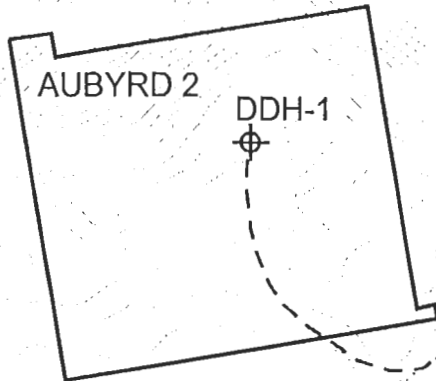
0 500  
KILOMETRES



★ AuByrd Property  
Name of Claim Group



<b>COMMERCE MINERALS CORP.</b>	
DAHROUGE GEOLOGICAL CONSULTING LTD. EDMONTON, ALBERTA	
SOUTHEASTERN BRITISH COLUMBIA	
Figure 1.2 Access Map	
SGR	2003.04







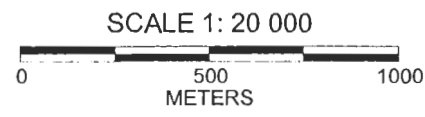
Old Camp

Flathead Forestry Road

Seismic Line

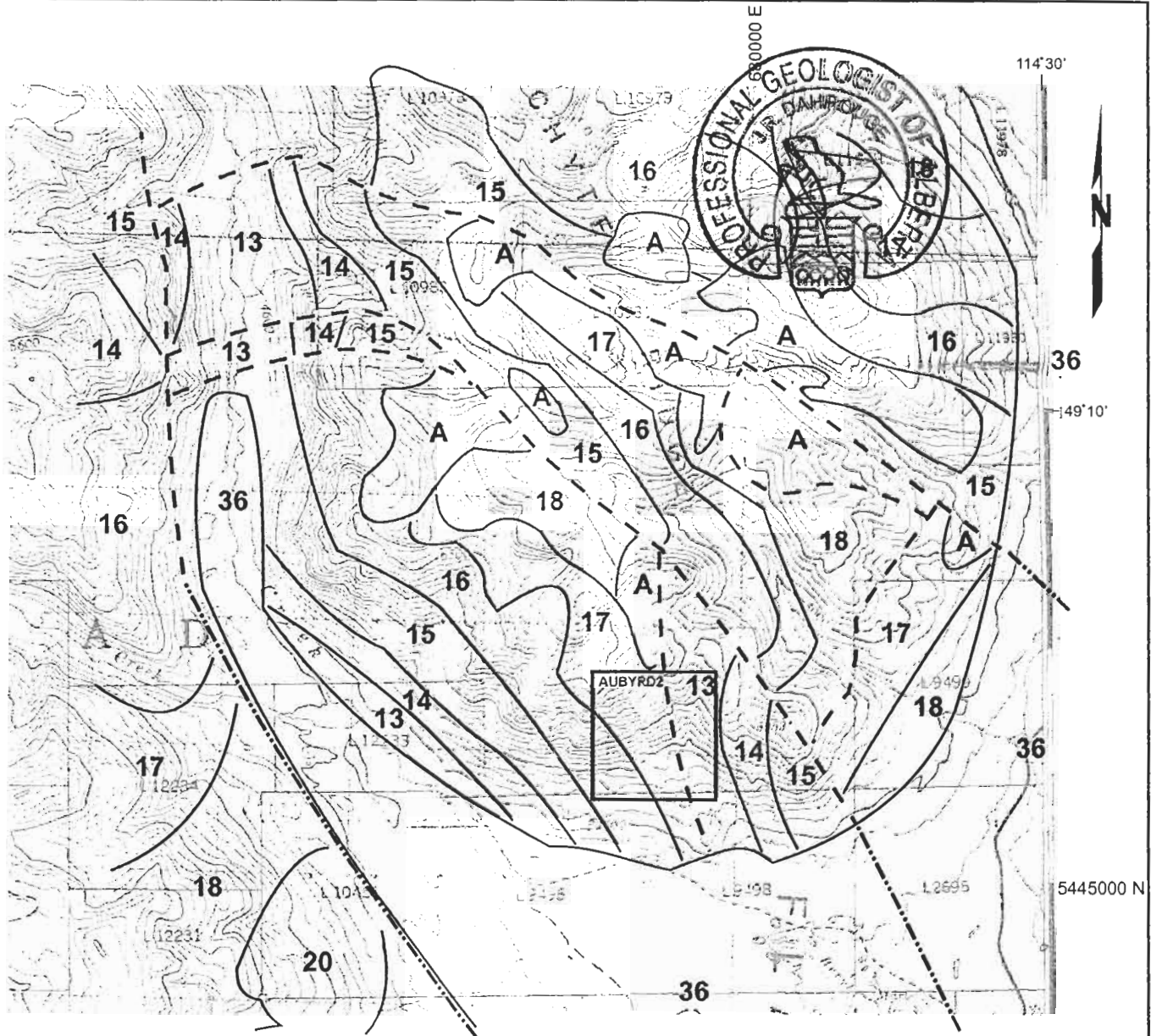
**LEGEND & SYMBOLS**

-  Tenure Boundary  
Commerce Minerals Corp.
-  Drill Drill Hole (DDH-1)
-  Trail Access (Established by Commerce)
-  Forestry Roads



<b>COMMERCE MINERALS CORP.</b>
DAHROUGE GEOLOGICAL CONSULTING LTD. EDMONTON, ALBERTA
SOUTHEASTERN BRITISH COLUMBIA
<b>Figure 1.3 Access Trails and Location of Drillhole</b>
SGR <span style="float: right;">2004.04</span>





**LEGEND**

- 36 **Pleistocene and Recent**  
till, gravel, sand, silt, alluvium
- 20 **Triassic Spray River Formation**  
dark grey silty shale, siltstone, and shale
- 18 **Pennsylvanian and Permian Rocky Mountain Formation**  
light grey quartzitic, dolomitic, and calcareous sandstone
- 17 **Mississippian Etherington Formation**  
light grey limestone; dolomite; green and red shale; siltstone
- 16 **Mississippian Mount Head Formation**  
dense dark grey and black limestone and argillaceous dolomite
- 15 **Mississippian Livingstone Formation**  
light grey skeletal calcarenitic limestone; dolomite
- 14 **Mississippian Exshaw and Banff Formations**  
black shale; dark grey cherty, argillaceous limestone
- 13 **Devonian Palliser Formation**  
dark grey, fine crystalline limestone; dolomitic limestone
- A **Early Cretaceous or Tertiary**  
trachyte, syenite, latite, felsite, intrusion breccia

**SYMBOLS**

- Claim
  - Geologic boundary
  - Fault (defined, approximate)
- 0  2,500  
METRES

**COMMERCE MINERALS CORP.**

DAHROUGE GEOLOGICAL CONSULTING LTD.  
EDMONTON, ALBERTA

SOUTHEASTERN BRITISH COLUMBIA

Figure 3.1 Property Geology

\* geology modified after Price (1962)

**APPENDIX 1: ITEMIZED COST STATEMENT**

**a) Personnel**

J. Dahrouge, B.Sc., P.Geol. (Geologist)			
<u>2.9</u> days	report preparation, project supervision		
2.9 days	@ \$ 481.50	\$	1,396.35
B. Gonek, B.Sc. (Geologist)			
22.0 days	field work and travel between Oct. 23 and Nov. 12, 2003		
4.6 days	arrange for drill contractor, prepare permit applications, other		
<u>26.6</u> days	@ \$ 390.55	\$	10,388.63
R. Wolbaum, B.Sc. (Geologist)			
3.0 days	assist with locating drill core and travel between Nov. 10 and 12, 2003		
<u>3.0</u> days	@ \$ 294.25	\$	882.75
S. Robson, B.Sc. (Field Assistant)			
<u>2.0</u> days	assist with reporting		
2.0 days	@ \$ 262.15	\$	524.30
			<u>\$ 13,192.03</u>

**b) Food and Accommodation**

25 man-days @ \$ 76.22	accommodations (motel)	\$	1,905.61
25 man-days @ \$ 30.41	groceries and meals	\$	760.19

**c) Transportation**

Vehicles:	4x4 Truck Rental 3792 km @ \$0.418	\$	1,585.06
	Fuel	\$	75.40
			<u>\$ 1,660.45</u>

**d) Instrument Rental** n/a

**e) Drilling**

Cat Rental / Trail Construction	\$	10,700.00
Contingency (Water Lines, Propane, Other)	\$	2,140.00
Beaupre Diamond Drilling		
200 m NQ @ \$64.20/m	\$	12,840.00
Mob / Demob	\$	4,280.00
		<u>\$ 29,960.00</u>

**f) Analyses**

18 - ICP Analyses (Acme) @ \$38	\$	731.88
18 - Sample Preparation (Core) @ \$5	\$	96.30
		<u>\$ 828.18</u>

## APPENDIX 1:

## CONTINUED

<b>g) <u>Report</u></b>	Reproduction and assembly	<u>\$ 30.80</u>	\$ 30.80
<b>h) <u>Other</u></b>	Base map(s), maps and map reproductions	\$ 100.34	
	Courier, postage and shipping	\$ 224.95	
	Field supplies	\$ 114.12	
	Long distance telephone, Radio Rentals, Other	<u>\$ 154.00</u>	\$ 593.40
<b><u>Total</u></b>			<u><u>\$ 46,264.86</u></u>

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716  
(ISO 9002 Accredited Co.)

**AA** **AA**

WHOLE ROCK ICP ANALYSIS

Commerce Resources Corp. File # A305807  
600 -789 W. Pender St., Vancouver BC V6C 1K2 Submitted by: Jody Dahrouge

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	%	%	%	%
19151	2.27	.16	.10	.58	53.89	.04	.03	<.01	.05	.01	<.001	16	<20	1	42.7	12.14	.02	99.84
19152	2.61	.75	.43	11.22	39.84	.04	.27	.04	.22	.02	<.001	27	24	1	44.6	12.66	.13	100.05
19153	1.24	.11	.09	17.46	34.81	<.01	.04	<.01	.04	.01	<.001	13	<20	1	46.1	12.98	.02	99.90
19154	2.73	.20	.22	20.60	29.69	.02	.06	<.01	.05	.01	<.001	17	<20	1	46.2	13.19	.02	99.79
19155	.61	.05	.11	21.42	30.57	.01	.03	<.01	.04	.02	<.001	12	<20	<1	46.9	13.40	<.01	99.76
19156	.58	.08	.08	17.38	35.07	.02	.05	<.01	.03	.01	<.001	18	<20	<1	46.6	12.77	.03	99.91
19157	.78	.13	.09	16.95	35.48	.02	.06	<.01	.03	.01	<.001	14	<20	<1	46.4	12.98	.01	99.96
19158	1.19	.17	.11	16.70	35.48	.03	.09	<.01	.05	.01	<.001	14	<20	<1	46.1	12.77	.02	99.94
19159	2.10	.68	.26	19.42	30.84	.04	.27	.03	.05	.01	<.001	25	24	1	46.2	12.66	.01	99.90
19160	1.21	.14	.10	20.04	31.16	.06	.04	<.01	.04	.01	<.001	14	<20	<1	47.0	12.98	.01	99.81
19161	2.17	.06	.07	20.70	30.48	.03	<.02	<.01	.04	.02	<.001	8	<20	<1	46.3	13.08	.01	99.89
19162	.48	.14	.11	20.70	31.36	.02	.04	<.01	.05	.02	<.001	17	<20	<1	47.0	13.08	<.01	99.93
RE 19162	.47	.13	.10	20.57	31.28	.05	.06	<.01	.04	.02	<.001	10	<20	<1	47.2	13.19	.01	99.92
RRE 19162	.40	.13	.12	20.55	31.22	.04	.05	<.01	.05	.02	<.001	18	<20	1	47.2	13.19	.01	99.79
19163	18.84	5.72	3.16	9.79	28.21	.04	1.28	.23	.14	.07	<.001	142	<20	5	32.4	8.78	2.01	99.89
19164	51.56	15.93	4.36	2.96	6.45	.10	4.18	.52	.31	.11	<.001	888	>20	10	13.3	1.32	1.39	99.88
19165	51.84	14.84	6.59	2.53	6.88	.10	3.68	.59	.37	.09	.005	610	<20	12	12.2	1.42	2.40	99.78
19166	55.50	16.01	4.73	2.33	5.39	2.42	3.98	.52	.29	.12	<.001	1237	<20	10	8.4	.99	.48	99.83
19167	57.97	16.61	5.03	1.85	3.91	3.44	3.83	.49	.27	.10	<.001	1316	<20	9	6.0	.56	.19	99.65
STANDARD SO-17/CSB	61.87	13.83	5.86	2.38	4.69	4.18	1.41	.60	1.00	.54	.442	408	36	23	3.4	2.39	5.33	100.25

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.  
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)  
- SAMPLE TYPE: CORE R150 60C  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 24 2003 DATE REPORT MAILED: Dec 9/03 SIGNED BY: *C.H.* D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Date *12/9/03* FA *1*

ACME ANALYTICAL LABORATORIES LTD.  
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE



Commerce Resources Corp. File # A305807 (a)  
600 -789 W. Pender St., Vancouver BC V6C 1H2 Submitted by: Jody Dahrouge

SAMPLE#	Co	Cs	Ga	Hf	Nb	Rb	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
	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	
19151	1.0	.4	<.5	<.5	<.5	1.8	<1	179.5	<.1	.3	1.2	8	.1	2.7	8.3	4.1	2.0	.51	1.9	.5	.12	.52	.10	.47	.13	.44	.08	.36	.08
19152	1.3	.8	1.5	<.5	1.0	7.0	<1	145.0	<.1	.2	1.6	9	.5	10.2	11.3	7.2	7.0	1.00	4.5	.9	.19	.86	.15	.80	.18	.59	.07	.47	.07
19153	<.5	.1	<.5	<.5	<.5	2.1	<1	100.7	<.1	<.1	.5	<.5	.1	2.2	1.2	1.3	1.4	.17	.6	.1	<.05	.14	.03	.10	<.05	.05	<.05	<.05	.02
19154	<.5	.3	<.5	<.5	<.5	1.9	<1	70.1	<.1	<.1	.4	<.5	.4	3.2	.8	.9	1.4	.15	.8	.1	<.05	.22	.02	.13	<.05	<.05	<.05	<.05	.01
19155	<.5	.2	<.5	<.5	<.5	1.2	<1	71.6	<.1	<.1	.4	<.5	.2	1.3	.6	.8	1.0	.10	<.4	<.1	<.05	.13	.02	<.05	<.05	<.05	<.05	<.05	.01
19156	.5	<.1	<.5	<.5	<.5	1.2	<1	108.9	<.1	<.1	.6	<.5	.2	1.6	.8	1.0	1.0	.10	<.4	<.1	<.05	.08	.02	.09	<.05	<.05	<.05	.05	<.01
19157	<.5	.1	<.5	<.5	<.5	1.5	<1	100.9	<.1	.2	.4	<.5	.2	2.1	.7	.9	2.1	.15	.4	.1	<.05	.13	.02	.10	<.05	.07	<.05	.08	<.01
19158	.5	<.1	<.5	<.5	<.5	1.9	<1	138.6	<.1	<.1	.4	<.5	.2	2.9	1.0	.9	1.3	.14	.9	.1	<.05	.17	.02	.08	<.05	<.05	<.05	.05	.01
19159	.7	.6	1.0	<.5	1.0	8.3	<1	87.0	<.1	.4	.7	8	.4	5.9	1.2	2.0	3.0	.35	1.5	.3	.06	.24	.04	.23	<.05	.14	<.05	.09	.02
19160	.6	.2	<.5	<.5	<.5	2.4	<1	66.9	<.1	.1	.4	<.5	.4	2.7	.5	1.1	1.4	.17	.6	<.1	<.05	.18	.02	.05	<.05	<.05	<.05	.06	.02
19161	<.5	.4	<.5	<.5	<.5	1.8	<1	68.7	<.1	.1	.4	<.5	.3	1.8	.5	.5	.6	.09	.4	.1	<.05	.11	.02	<.05	<.05	<.05	<.05	<.05	.01
19162	<.5	<.1	<.5	<.5	<.5	.9	<1	66.5	<.1	<.1	.4	<.5	.3	2.5	.4	.6	.7	.08	.6	<.1	<.05	.10	<.01	<.05	<.05	.07	<.05	<.05	<.01
RE 19162	.5	.2	<.5	<.5	<.5	1.7	<1	69.1	<.1	.2	.4	<.5	.4	2.5	.5	.7	.9	.10	<.4	<.1	<.05	.17	<.01	.09	<.05	<.05	<.05	.06	<.01
RRE 19162	<.5	.1	<.5	<.5	<.5	1.2	<1	66.0	<.1	<.1	.4	<.5	.4	2.6	.5	.5	.6	.08	<.4	<.1	<.05	.07	<.01	.06	<.05	<.05	<.05	<.05	<.01
19163	4.1	2.7	6.8	1.3	3.8	37.4	<1	112.2	.2	2.4	1.9	43	2.1	46.4	8.5	13.6	25.1	2.86	12.4	2.0	.70	1.72	.25	1.31	.29	.77	.12	.77	.11
19164	7.4	4.2	20.3	3.9	10.1	93.4	<1	242.0	.5	6.6	2.7	101	2.3	131.2	18.6	31.0	60.6	6.80	30.2	4.9	1.57	4.20	.55	3.18	.64	1.86	.26	1.63	.29
19165	10.3	4.5	17.8	3.6	9.6	96.1	<1	202.9	.5	6.3	2.6	115	2.6	128.9	22.1	40.5	73.9	8.30	33.6	5.7	1.83	5.39	.68	3.44	.74	2.16	.34	2.07	.29
19166	8.1	2.5	20.1	3.8	10.0	88.3	<1	593.5	.5	6.0	2.6	94	1.5	132.1	18.0	34.7	64.8	7.01	29.5	4.7	1.58	4.03	.58	2.97	.59	1.62	.27	1.86	.28
19167	7.8	2.0	18.4	3.7	9.8	83.3	<1	959.6	.5	6.4	2.5	87	1.3	132.4	17.2	34.0	62.2	6.82	26.7	4.6	1.51	4.18	.52	2.91	.59	1.72	.26	1.79	.31
STANDARD SO-17	17.9	3.8	19.2	12.0	26.1	23.2	11	308.5	4.3	11.4	11.5	130	11.1	349.9	27.5	10.9	23.5	3.02	14.0	3.4	1.06	3.69	.69	4.23	.91	2.82	.44	2.86	.44

GROUP 4B - REE - 0.200 GM BY LIBO2 FUSION, ICP/MS FINISHED.  
- SAMPLE TYPE: CORE R150 60C  
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 24 2003 DATE REPORT MAILED: Dec 9/03 SIGNED BY: C.F. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data    FA   

APPENDIX 2: CONTINUED

A4

ACME ANALYTICAL LABORATORIES LTD.  
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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE



Commerce Resources Corp. File # A305807 (b)  
600 - 789 W. Pender St., Vancouver BC V6C 1N2 Submitted by: Jody Dahrouge

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
19151	.1	.7	.7	14	4.2	1.7	.5	.1	<.1	<.1	<.5	<.01	<.1	<.5
19152	.4	3.0	1.9	10	11.4	4.2	.1	.2	<.1	<.1	<.5	.03	<.1	<.5
19153	.1	.9	1.4	6	.2	2.0	.1	.1	<.1	.1	1.5	.01	<.1	<.5
19154	.1	1.0	1.5	11	1.1	2.3	.1	.1	<.1	.1	2.9	<.01	.1	<.5
19155	.1	.4	1.4	10	.6	1.9	.2	<.1	<.1	<.1	2.7	<.01	.1	<.5
19156	.1	2.6	1.0	5	.5	1.2	.1	<.1	<.1	<.1	2.0	<.01	<.1	<.5
19157	.1	.8	1.1	2	.1	1.9	<.1	<.1	<.1	<.1	1.3	.01	.1	<.5
19158	.1	.6	1.1	3	.5	1.4	<.1	.1	<.1	<.1	.7	.01	.1	<.5
19159	.1	1.3	2.8	6	2.0	1.7	<.1	.1	<.1	<.1	1.4	.02	.1	<.5
19160	<.1	.6	1.6	18	.5	1.7	.1	.1	<.1	<.1	2.8	.01	<.1	<.5
19161	<.1	.5	3.1	19	<.1	1.4	.1	<.1	<.1	<.1	2.6	.04	<.1	<.5
19162	.1	.8	4.2	16	1.3	2.8	.1	.1	<.1	<.1	3.4	.01	<.1	<.5
RE 19162	<.1	.9	4.5	18	.8	2.5	.1	.1	<.1	<.1	2.0	.01	<.1	<.5
RRE 19162	<.1	.8	4.8	19	1.0	3.5	.1	.1	<.1	.1	4.0	.02	<.1	<.5
19163	.7	3.9	6.3	15	3.4	5.5	.1	.5	<.1	.2	.5	.02	.1	<.5
19164	.8	5.3	2.9	55	2.6	3.1	<.1	.1	.3	.1	14.0	<.01	.1	<.5
19165	1.4	25.1	5.2	36	1.6	9.0	<.1	.3	.6	.2	32.8	<.01	.1	<.5
19166	.9	3.1	4.0	49	3.1	2.3	<.1	.1	<.1	<.1	8.3	<.01	.1	<.5
19167	.7	5.4	11.3	54	3.5	1.9	<.1	.1	.1	.1	6.9	<.01	<.1	<.5
STANDARD DS5	12.5	138.3	25.2	131	23.2	17.7	5.4	3.9	6.0	.3	42.0	.16	1.0	5.0

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.  
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.  
- SAMPLE TYPE: CORE R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 24 2003

DATE REPORT MAILED: Dec 9/03

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data *FAV*

APPENDIX 2: CONTINUED

A5

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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716



WHOLE ROCK ICP ANALYSIS



Commerce Resources Corp. File # A305808  
1450 - 789 W. Pender St., Vancouver BC V6C 1H2 Submitted by: Jody Dohrouge

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sc	LOI	TOT/C	TOT/S	SUM
	X	X	X	X	X	X	X	X	X	X	X	ppm	ppm	ppm	%	X	X	X
17327	87.24	2.64	4.00	.72	2.35	.03	.18	.11	1.76	.01	.003	22	<20	2	.8	.07	.02	99.84
STANDARD SO-17/CSB	61.67	13.72	5.85	2.35	4.69	4.19	1.41	.59	1.01	.53	.435	430	36	24	3.4	2.40	5.40	99.90

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.  
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)  
- SAMPLE TYPE: ROCK R150 60C

DATE RECEIVED: NOV 24 2003

DATE REPORT MAILED:

*Dec 9/03*

SIGNED BY.....

D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Date *12/9/03* Fr

APPENDIX 2: CONTINUED

A6

ACME ANALYTICAL LABORATORIES LTD.  
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE



Commerce Resources Corp. File # A305808 (a)  
1450 - 789 W. Pender St., Vancouver BC V6C 1R2 Submitted by: Jody Dehrouge

SAMPLE#	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
	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
17327	1.5	.3	4.1	3.3	4.0	4.7	<1	53.6	.2	2.7	5.1	42	1.6	121.1	20.5	16.6	29.2	3.26	14.5	3.1	1.00	3.85	.44	2.62	.46	1.17	.16	.93	.13
STANDARD SO-17	17.6	3.7	19.0	11.7	26.4	22.5	11	307.0	4.3	11.8	11.0	125	10.3	347.9	26.8	10.4	23.4	2.97	13.3	3.2	1.01	3.75	.70	4.29	.92	2.81	.42	2.86	.44

GROUP 4B - REE - 0.200 GM BY LIBO2 FUSION, ICP/MS FINISHED.  
- SAMPLE TYPE: ROCK R150 60C

DATE RECEIVED: NOV 24 2003

DATE REPORT MAILED: Dec 9/03

SIGNED BY: *CT* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Date: *9-11-03* FA

APPENDIX 2: CONTINUED

A7



ACME ANALYTICAL LABORATORIES LTD.  
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE



Commerce Resources Corp. File # A305808 (b)  
1450 - 789 W. Pender St., Vancouver BC V6C 1H2 Submitted by: Jody Dahrourge

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	As ppm	Cd ppm	Sb ppm	Bi ppm	Ag ppm	Au ppb	Hg ppm	Tl ppm	Se ppm
17327	.5	2.0	1.1	8	3.9	1.1	<.1	<.1	<.1	<.1	<.5	.01	<.1	<.5
STANDARD DS5	12.2	135.8	25.2	132	23.1	18.4	5.2	3.5	5.7	.3	42.0	.16	1.0	4.9

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.  
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.  
- SAMPLE TYPE: ROCK R150 60C

DATE RECEIVED: NOV 24 2003

DATE REPORT MAILED:

*Dec 9/03*

SIGNED BY.....

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data *FA*

APPENDIX 2: CONTINUED

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## APPENDIX 3A:

## LITHOLOGICAL LOG FOR DRILLHOLE DDH-1

<b>Company:</b> Commerce Resources Corp. <b>Project:</b> AuByrd <b>Claim:</b> AuByrd 2		<b>Date Started:</b> <b>Date Finished:</b> <b>Logged By:</b> B. Gonek			
<b>Hole No.:</b> DDH-1 <b>Core Size:</b> NQ <b>Depth:</b> 107.94		<b>Bearing:</b> 0.0° <b>Inclination:</b> 90° <b>Co-ordinates (UTM NAD 27)</b> <b>Easting (m)</b> 679515 <b>Northing (m)</b> 5446040			
From (m)	To (m)	Description	Sample From (m)	To (m)	Length (m)
0.00	47.40	Overburden: Sharp contact with bedrock, somewhat lithofied clay			
47.40	60.88	<p><b>Limestone:</b> grey green with zones of buff vuggy Dolomite; Lower portion of zone is solution brecciated limestone with clast of up to 2 cm in size, Sparsely distributed fossils in lower portions of zone, lower 2.8 meters are marked by rusty blebs up to 0.5cm scattered throughout this zone</p> <p>49.12: Brecciation limestone/dolostone begins, angular clasts up to 2 cm in size            50.60: Buff brown, dolomitic zone ~20°ACA at bottom and ~80°ACA at top, ~21cm in length along core</p>			
51.19	53.28	<b>Dolostone:</b> buff brown, remnant breccia clasts as above, increased vugs toward bottom of zone terminates at 40°ACA			
53.28	54.62	<b>Limestone:</b> brecciated, as above			
54.62	56.11	<b>Limestone:</b> grey-green, some fossils colonial coral			
56.11	58.00	<b>Packstone,</b> grey, silty zones, calcite crystals filling vugs			
58.00	60.05	<b>Dolostone:</b> vuggy brown sparry calcite veinlets, rusty blebs scattered throughout zone,			
60.05	60.88	<p><b>Brecciated limestone</b></p> <p>Fracturing            48.30: 50°ACA            52.12: 90°ACA            52.62: 80°ACA            53.30: 40°ACA            54.83: 80°ACA            56.00: 50°ACA            57.16: 40°ACA            58.95: 80°ACA            60.27: 40°ACA</p>			

## APPENDIX 3A:

## CONTINUED

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)
60.88	66.05	<p><b>Limestone:</b> dark grey brown; wispy calcite veinlets: brecciated limestone clasts surrounded by spar; bottom of zone is marked by buff colored, round clasts that are elongated at 20° - 30° ACA</p> <p>60.88 - 61.92: mottled dark gery/brown wispy calcite veins 61.92 - 64.68: brecciated limestone, calcite around angular clasts 3-4cm 64.68 - 66.00: buff interclast material, increased roundness of clasts, elongation of clasts ~20°-30° ACA at 64.84 to 66.00m, sporatic vuggyness along zone.</p> <p>Fractures 62.00m - 40°ACA 63.65m - 50°ACA 64.26m - 64°ACA 64.70m - 83°ACA</p>				
66.05	66.43	<p><b>Limestone:</b> color change to dark grey green</p> <p>66.05 colour change from grey clasts with buff interstitial material to dark grey-green 66.43 contact with fault 50° ACA, black wispy material 66.43 - 66.87: cataclastic texture, dark-grey, alignment of clasts with fault plane, calcite veining not offset</p>	19151	66.00	66.43	0.43
66.43	80.29	<p><b>Limestone:</b> dark grey with a cataclastic texture from 66.43m - 66.87m, clasts are aligned with fault plane, Calcite veining showing no offsetting ( post faulting), zones of carbonate quartz veining through middle section of fault;</p> <p>67.00 - 67.54: dark-brown fault gouge 67.54 - 69.12: Clasts of dark-brown-black material (no reaction to HCl), pinkish calcite blebs, calcite veins, light-brown/buff clay material throughout zone 68.62, 68.75: Large Calcite/ qtz vein 69.12 - 80.29: rubbly black mateiral, with brownish muddy zones, poor recovery 75.00 - 76.18: calcite /quartz? Veins, largest 5 cm in length 77.35 - 80.29 fissile black material (shale), 4 veins with clasts of shale incorporated</p>	19152 19153 19154 19155 19156 19157 19158	66.43 67.93 69.00 72.00 74.00 76.00 78.00	67.93 69.00 72.00 74.00 76.00 78.00 80.00	1.50 1.07 3.00 2.00 2.00 2.00 2.00
80.29	87.94	<p><b>Limy-Dolostone:</b> soft, unconsolidated for the most part, brown grey; wispy calcite veins present in consolidated vuggy section (81.35m)</p>	19159 19160 19161 19162	80.00 82.00 84.00 86.00	82.00 84.00 86.00 87.94	2.00 2.00 2.00 1.94
87.94	92.79	<p><b>Mudstone:</b> medium grey; sparse crinoid stems; fractures filled with dark grey clay material; fractures displaced wispy calcite veinlets; mid zone medium grey styalitic limestone with calcite filled vugs; increasing solution breccia present; vug fill becomes a mix of sparry calcite and a buff clay;</p>				

## APPENDIX 3A:

## CONTINUED

From (m)	To (m)	Description	Sample	From (m)	To (m)	Length (m)
87.94	90.63	Fault plane, impossible to orientate (mush), highly fractured, fractures clay filled, dark-grey, fractures displace wispy calcite veinlets				
90.63	91.85	<b>Limestone:</b> medium-grey, stylolites, vuggy calcite fill, increased breccia (solution) at 91.85m				
92.35	92.79	<b>Limestone:</b> green-grey: colour, buff grey clay infiling of calcite lined vugs				
92.79	95.32	<b>Lime mudstone:</b> dark grey; mix of solution breccia zones and finely bedded limestone; fine beds and clasts offset; beds are near vertical (27° ACA); microfaults offset calcite veinlets and clasts				
95.32	96.66	<b>Limestone:</b> rubbly dark grey; sparse veining				
96.66	97.77	<b>Limestone:</b> grey green; vuggy; wispy calcite veinlets				
97.77	97.94	<b>Clay:</b> rusty brown; reacts well with acid; small square clasts throughout zone				
97.94	100.65	<b>Limestone:</b> recrystallized grey; bands of none HCl reacting clay ; zones of original texture present ( solution breccia )				
100.65	101.64	<b>Limestone:</b> remnant solution breccia texture; disseminated pyrite				
101.64		<b>Intrusion contact</b> with host Limestone; grey clay alteration with K spar crystals, pyrite				
101.64	102.53	<b>Trachytic syenite:</b> red-grey; zoned Kspar crystals; clay altered, pyrite	19163	101.00	102.00	1.00
			19164	102.00	102.56	0.56
102.53	103.86	<b>Brecciated Intrusive,</b> grey-pink; clay altered; calcite veining; large clast of pyrite crystals; marked increase in pyrite content both in the calcite veining and as disseminated pyrite  103.14: large pyrite clast ~2.5cm	19165	102.56	103.86	1.30
103.86	106.27	<b>Syenite:</b> red-grey; small zones of intensive clay alteration  104.69 - 104.78: no visible mineralization	19166	103.86	106.00	2.14
106.27	106.47	<b>Syenite;</b> grey, clay altered, weakly magnetic	19167	106.00	107.94	1.94
106.47	107.94	<b>Trachytic Syenite;</b> unaltered; red-grey with abundant kspar and possible plagioclase; no pyrite present; strongly magnetic				
107.94	EOH	<b>Intrusion:</b> clay altered; undistinguishable due to intensive alteration				

## APPENDIX 3B: GEOTECHNICAL LOG FOR DRILLHOLE DDH-1

Drill Hole: DDH-1  
 Logged By: B. Gonek

From (m)	To (m)	Length of Interval	RQD	Number of Fractures	Percent Recovery	Rock Type
47.40	50.00	2.60	1.20	16.00		Limestone
50.00	55.22	5.22	1.74	52.00		Limestone / Dolostone
55.22	60.88	5.66	1.86	45.00		Limestone / Dolostone
60.88	65.95	5.07	1.59	35.00		Limestone
65.95	74.06	8.11	0.47	100+		Rubble Fault Zone
74.06	81.29	7.23	0.65	100+		Rubble Fault Zone
81.29	86.79	5.50	0.00	100+		Mush
86.79	92.35	5.56	0.68	100+		Limestone
92.35	97.64	5.29	1.14	49.00		Limestone
97.64	102.33	4.69	0.00	100+		Intrusion
102.33	108.14	5.81	0.00	mush		Intrusion