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Gold Commissioner's Office  
VANCOUVER, B.C.

**BEN PROPERTY**

(Ben 1 – 6 Claims)

Owned and Operated by Bernard H. Kahlert

Assessment Report on  
Prospecting, Sampling and Petrographic Study

Latitude 52 40' N Longitude 122 04' W

NTS 93 B / 9E

CARIBOO MINING DIVISION  
British Columbia

Author: B.H. Kahlert, P. Eng.  
Consultant: Earth Resource Surveys Inc.

West Vancouver, BC  
June 23, 2005

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT  
27812

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## BEN PROPERTY

### I INTRODUCTION

The Ben 1 – 6, one unit claims are owned by B.H. Kahlert of 1195 Sutton Place, West Vancouver. The claims cover a gold prospect identified by previous workers in the mid 1980's. This report covers rock sampling for geochemical and petrographic studies of 10 rock specimens from the Ben property. The work was carried out from April – June 2005 at a cost of \$ 2270.62

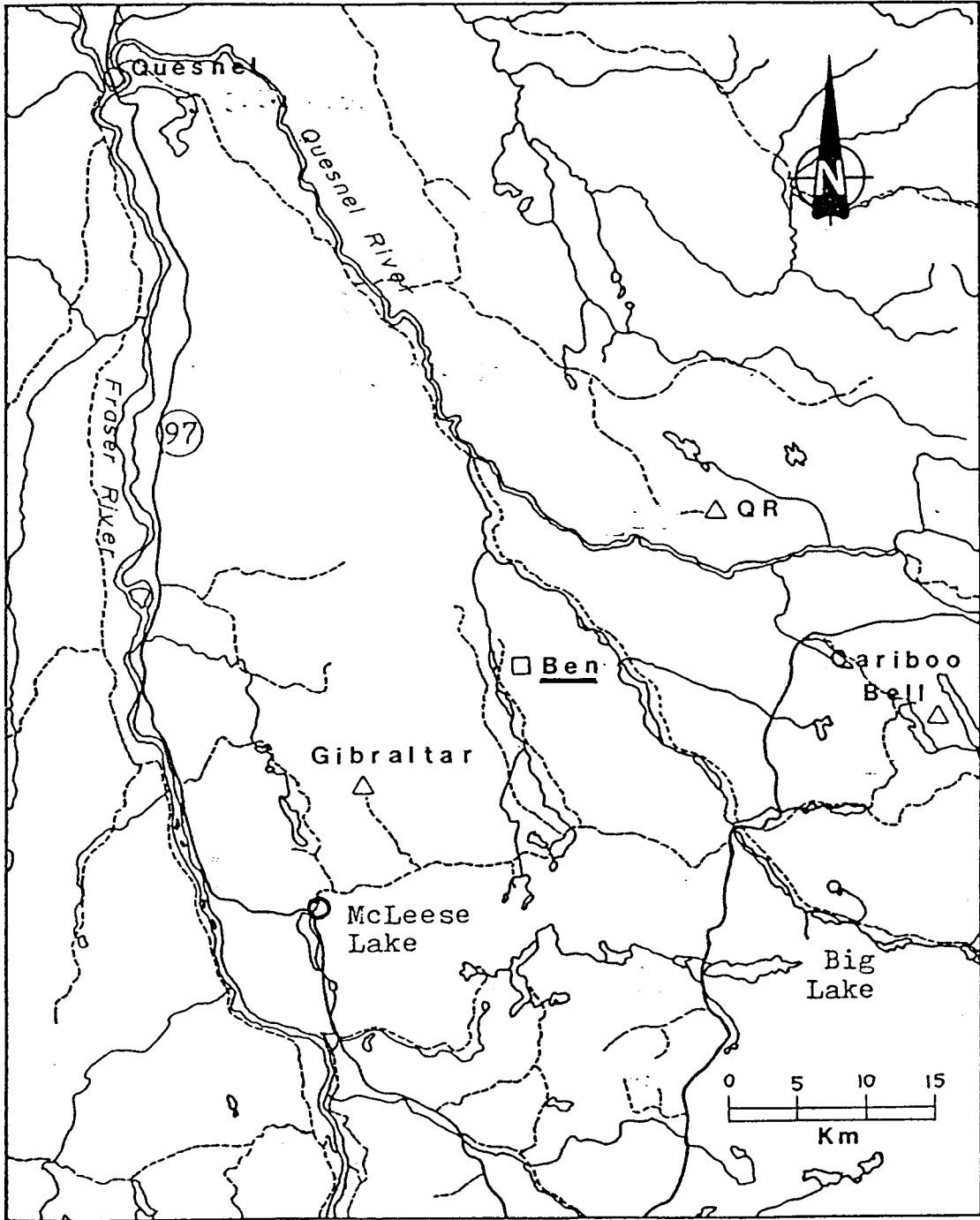
### II LOCATION AND ACCESS

The Ben 1 – 6 claims are located 50 km north of Williams Lake, 10 km east of Gibraltar porphyry copper mine. The claims are situated on NTS Map Sheet 93 B / 9E. Access is via the gravel road leading east from McLeese Lake on Highway 97 towards the town of Likely. At Km 22 from Mcleese, a good gravel road north along the Beedy Creek valley leads to the area of interest. A 4 km logging/ranch access track to the east leads to the western edge of the Ben claims. (See Location Map, over)

### III PROPERTY DESCRIPTION

Claim Name	Record No.	Units
Ben 1	410292	1
Ben 2	410293	1
Ben 3	410294	1
Ben 4	410295	1
Ben 5	410296	1
Ben 6	410297	1

All Ben claims are owned by B.H. Kahlert and are in good standing until April 2008.



Location map of Ben property.  
Scale: 1:500,000.

The claims are situated near the western edge of the Fraser Plateau overlooking the Beedy Creek valley. Relief on the claims is less than 100 metres. Glacial overburden is extensive but thin, generally only 1 – 10 metres. Several creeks cut shallow gullies up to 30 metres deep where some bedrock may be exposed.

#### V GEOLOGICAL SETTING

The Ben Claims are underlain mainly by Cache Creek Group limestones, argillite and chert. Mafic volcanic augite porphyry flows are exposed in the western portion of the claims. It is unsure whether these mafics belong to the Cache Creek Group or the Triassic Takla Group. A small granodiorite body is recognized by previous work.

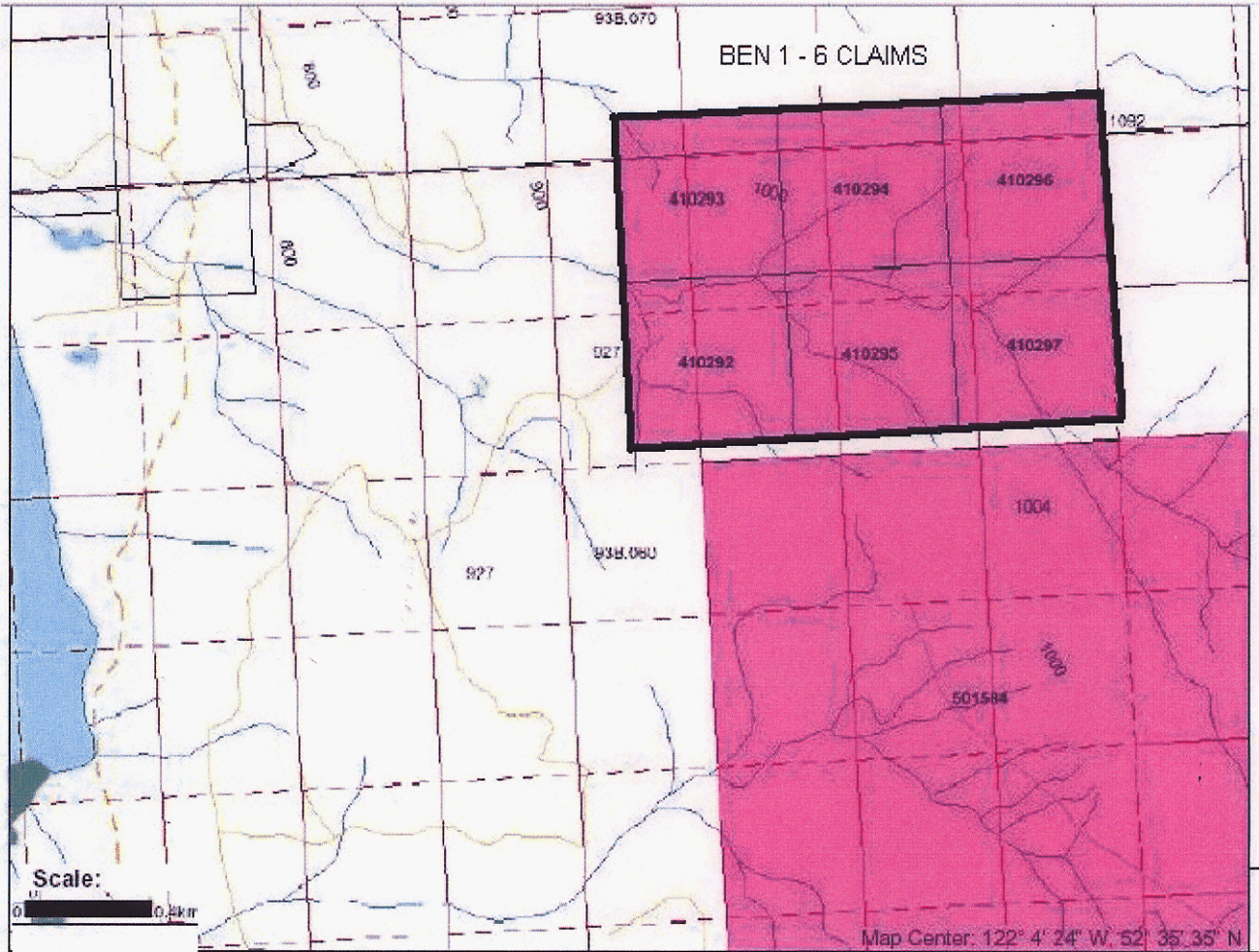
The most significant prospect on the property is the Main Zone located about 500 metres east of the western Ben claim boundary. The Ben Main Zone is an eighty metre wide, highly silicified-carbonated zone exposed only in a shallow gully of North Ben Creek. In the center of the Zone is a brecciated, silicified quartz vein or quartz breccia “ledge” surrounded by silicified and carbonatized country rock. Multiple phases of silicification have been identified and abundant vugs indicate a high level emplacement. The silica rich ground mass also contains abundant fine grained pyrite with occasional grains of arsenopyrite. Carbonate minerals, consisting of up to 25 percent magnesite with lesser dolomite are intergrown with the fine grained silica.

Assaying in 2005 of 10 rock chip samples indicates anomalous gold values ranging from 40 to 127 ppb Au accompanied by highly anomalous arsenic and antimony, typical of trace elements associated with epigenetic gold deposits. Arsenic values up to 981 ppm As and antimony up to 163 ppm Sb are similar in range to rocks proximal to the rich Sleeper deposit in Nevada and the Castle Mtn. deposit of Southeast California.

At the margins of the silicified zone, abundant chrome mica (mariposite) is noted, while assaying indicates high background nickel values of up to 1116 ppm Ni. This, associated with high magnesium concentration, indicates an association with a deep seated ultramafic suite of rocks. In this regard, the prospect has similarities to the recently mined, high grade Golden Bear deposit, the Bralorne B.C. camp which produced 4 million ounces gold and the Motherlode camp of central California.

Structurally, the property appears to be cut by a north-south trending splay of the extensive Pinchi Fault. Other brecciated, silicified exposures on the property are also anomalous in gold, arsenic and antimony, indicating an extensive zone. A flat, easterly dipping mylonitized zone forming the eastern boundary of the silicified zone may be an overthrust forming an impervious capping to the mineralized zone prior to erosion.

Other strong arsenic-antimony-gold anomalies on the Ben claims which have not yet been examined indicate further potential on this property.



CLAIM MAP  
Ben 1 – 6 Claims  
B.H. Kahlert

## VI RESULTS OF PREVIOUS WORK

3.

Work on the property in the 1980's by Amoco Minerals and later Circle Resources outlined several silt gold anomalies associated with high trace elements - arsenic, antimony and mercury. Geological mapping located a wide silicified zone with abundant fuchsite carrying anomalous gold and trace elements. These metals are associated with a three stage, quartz breccia and silicification event which includes chalcedony – clearly an epigenetic association. Circle Resources planned to drill this zone, however the drill contractor had no dozer, so set up 300 meter west of the target and drilled 2 short, vertical holes. Even so, anomalous gold values were encountered in altered volcanics.

## VII SUMMARY OF 2005 WORK PROGRAM

In April of 2005, a two person prospecting crew collected rock samples and specimen for assay and petrographic description. Rocks were given a field description, with chips placed into bags for assaying and specimen from the same location marked for petrographic examination. A variety of samples were taken from available out-crop over the extent of the property. Sample locations, Numbered B01 – 05 to B11 – 05 are shown on the Sample Location Map (over). A summary of the prospecting trip and sampling programs is provided in Appendix I

Assaying for gold and 30 element ICP was completed by Assayers Canada Laboratory of 8282 Sherbrook St., Vancouver. Results are shown in Appendix II. Petrographic description, preceded by a hand specimen description, was undertaken by ERSI (Earth Resource Survey Inc.), K.V. Campbell Ph.D., P.Geo., Principal. Sample preparation was made by Van Pet Services. Petrographic descriptions are detailed in App. III.

It should be noted that sample B 10 – 05 was named #10 A in the petrographic report while sample B 11 – 05 was named 10 B. Sample B – 01 – 05 was lost in transit.

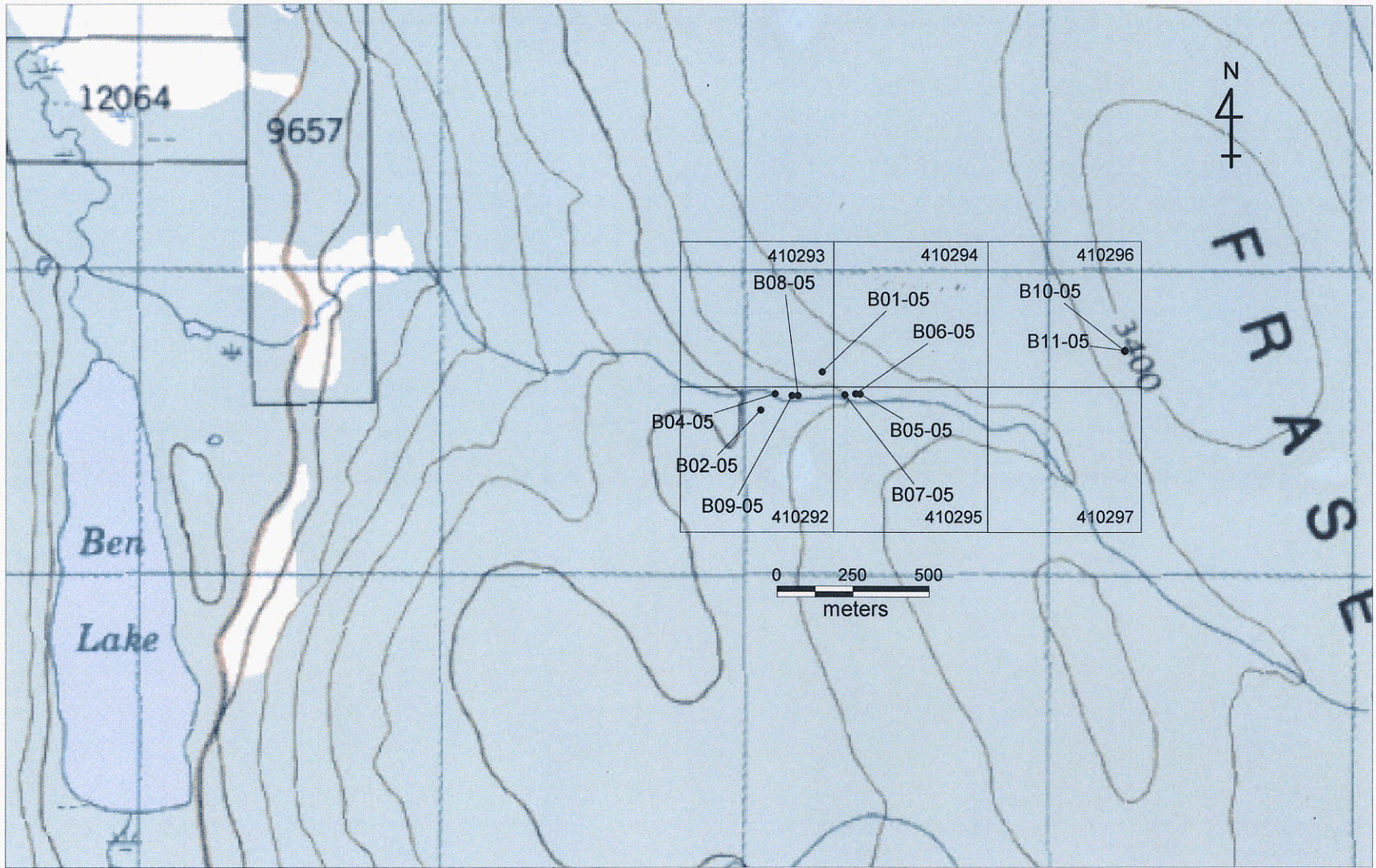
## VIII PETROGRAPHIC STUDY

Two rock suites consisting of andesite and carbonate were petrographically examined from the Ben Claims. Virtually all were highly altered and brecciated. Andesite was present mainly as brecciated andesite and silicified andesite. Carbonate was present as quartz magnesite breccia and brecciated silicified magnesite. The suite includes ample evidence of extreme deformation, magnesium metasomatism (both as groundmass and stringers) and widespread silicification

## IX GEOCHEMICAL RESULTS

Assay results for gold and the 30 element ICP geochemical results show some important metallogenic associations. Anomalous gold values are associated with elevated to high arsenic and antimony values signalling a strong epigenetic gold association. The presence of consistently anomalous chrome – nickel values, often with very high magnesium, show likely metasomatism from an ultramafic source.





Ben 1-6 Claims  
 B.H.Kahlert  
 2005 Sample Location Map

## X CONCLUSIONS

4.

The combined geochemical and petrographic studies show favourable characteristics for epigenetic gold mineralization. These features can be combined with other local features classic for an epigenetic gold setting. Abundant vuggy quartz veins and open spaces indicate a high level of emplacement. Fuchsite associated with the carbonate forms a listwanite at the edges of the strongest brecciation. Multiple stages of quartz veining indicates repetitive mineralizing activity. The location proximal to a splay of the extensive Pinchi fault provides a large conduit for deep seated volatiles.

## XI RECOMMENDATIONS

A program of trenching along strike to the north and south of the Ben main zone is recommended to allow sampling and geological mapping to determine a direction to stronger alteration and gold mineralization. If this work provides a target, several deep holes should be drilled to test for stronger gold mineralization at depth.

B.H. KAHLERT, P.ENG.

APPENDIX

I

## BEN CLAIMS 1-6

### ROCK SAMPLING PROCEEDINGS, APRIL 2005

April 7 - Drove to property through western access. McDougall Rd. had good muddy driving, but the forestry access road at km 13 was covered with deep snow preventing access. Attempted to access the property from another forestry road, turn off at approximately km 12, which led us to within 2 km to the South.

April 8 - Accessed claims via eastern side of property, prospected along claim line of Ben 3, 4, 5, and 6 failed to see outcrop. Ben 1 and 2, has numerous outcrops, along either side of the creek. We collected 9 samples ( 7 in outcrop and 2 from concentrated rubble or float ) 500m between claim post 1 and 2 of BEN 1 and 2. Collected 2 samples from forest service access road on the north side of Ben 5 ( see sample description ).

## BEN CLAIMS 1-6

### DIRECTIONS

April 2005

From Hwy 97, just North of 150 Mile House, turn right on the Likely Rd. follow this for 5 km, then turn left. Drive 43.5 km, turn left onto the Beaver Lake Rd (gravel). Follow the Beaver Lake Road for 13.5 Km, turn right onto forest service road 8300 (first road east of McDougal Rd.).

Follow Rd. 8300, 15 km, take the next left up a small hill (next left past forest service marker 8315). Park, approx .4 km up the road, walk west to reach the claims along Ben Creek.

The east boundary post, Ben 5/6, is 200 meters from the road, approx. 50 meters from the edge of the clear cut. The middle boundary line is blazed and flagged, and goes through the creek. Coordinates for the center of the property are (NAD 83, UTM 10; 563 500 E, 5827800N).

## BEN CLAIMS 1-6

### SAMPLE DESCRIPTION - APRIL 2005

- B-01-05** - North side of creek volcanic breccia.
  - Greenish with black and white specks.
  - Sample location: 563158 E, 5827867 N.
  
- B-02-05** - Outcrop in creek/canyon.
  - Grabbed from 4 locations within 50 m radius.
  - Sample location: 562956 E, 5827742 N.
  
- B-03-05** - Sample location: 50 m south of B- 2.
  
- B-04-05** - Outcrop in creek silicious.
  - Rusty partly vuggy.
  - Sample location: 563003 E, 5827795 N.
  
- B-05-05** - Very silicious.
  - Sample location: 20 m, west of B- 4
  
- B-06-05** - Sample location: 15 m west of B- 5
  
- B-07-05** - Sample location: 50 m west of B- 5
  
- B-08-05** - Vuggy quartz with oxidized nodules
  - Grayish matrix, float 25 m west of creek.
  - Sample location: 563079 E, 5827789 N.
  
- B-09-05** - Possibly outcrop.
  - Sample location: 25 meters west of B- 8.
  
- B-10-05** - Mariposite and quartzite layers.
  - Taken from road cut along east end of property.
  - Sample location: 564154 E, 5827935 N.
  
- B-11-05** - Dark Schist.
  - Sample location: Taken same place as B- 10.

**APPENDIX**

**II**



REC'D/RECEIVED  
27 -04- 2005

Assayers Canada  
8282 Sherbrooke St.  
Vancouver, B.C.  
V5X 4R6  
Tel: (604) 327-3436  
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

5V-0210-RG1

Company: **Commander Resources Ltd.**  
Project:  
Attn: **Bernard Kahlert**

Apr-21-05

We *hereby certify* the following geochemical analysis of 11 rock samples submitted Apr-15-05

Sample Name	Au PPB
B-02-05	7
B-03-05	5
B-04-05	55
B-05-05	127
B-06-05	10
B-07A-05	46
B-07B-05	60
B-08-05	2
B-09-05	2
B-10-05	4
B-11-05	6

Certified by \_\_\_\_\_



MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
B-02-05	<0.2	2.45	<5	332	<0.5	<5	2.08	<1	23	102	24	4.30	0.03	1.62	672	<2	0.05	32	494	<2	6	10	<10	25	0.21	147	<10	15	63	6
B-03-05	<0.2	2.21	<5	154	<0.5	<5	1.39	<1	17	69	23	4.59	0.08	1.31	706	<2	0.09	14	602	<2	<5	9	<10	8	0.17	117	<10	12	72	4
B-04-05	<0.2	0.06	652	251	<0.5	<5	4.83	<1	51	312	35	4.52	0.03	>15.00	768	<2	0.03	685	71	<2	70	6	<10	357	<0.01	24	<10	<1	11	19
B-05-05	<0.2	0.03	981	57	<0.5	<5	1.39	<1	77	549	45	4.77	0.02	>15.00	729	<2	0.01	1116	42	3	67	7	<10	109	<0.01	24	<10	<1	14	4
B-06-05	<0.2	0.44	234	161	<0.5	<5	4.88	<1	52	281	51	5.87	0.11	6.66	1065	<2	0.01	518	398	4	163	14	<10	168	<0.01	87	<10	8	69	6
B-07A-05	<0.2	0.20	23	390	<0.5	<5	9.19	<1	7	85	28	3.48	0.09	4.12	753	<2	0.02	38	830	<2	21	5	<10	200	<0.01	28	<10	4	32	2
B-07B-05	<0.2	0.49	91	186	<0.5	<5	4.71	<1	30	60	86	7.21	0.19	2.55	1251	<2	0.03	100	835	<2	59	20	<10	133	<0.01	73	<10	10	91	5
B-08-05	<0.2	0.05	<5	25	<0.5	<5	0.05	<1	2	140	7	0.28	0.02	0.03	43	<2	<0.01	9	20	<2	<5	<1	<10	1	<0.01	3	<10	<1	5	1
B-09-05	<0.2	4.96	<5	419	<0.5	<5	4.47	<1	52	222	57	5.08	0.17	5.35	1095	<2	0.02	144	75	<2	<5	25	<10	38	0.03	93	<10	3	46	5
B-10-05	<0.2	0.48	132	81	<0.5	<5	3.83	<1	50	402	26	4.41	0.06	11.67	905	<2	<0.01	799	144	<2	17	9	<10	282	<0.01	54	<10	4	24	3
B-11-05	<0.2	0.09	<5	58	<0.5	<5	0.28	<1	101	342	4	5.47	<0.01	11.05	478	<2	<0.01	776	38	3	8	6	<10	20	<0.01	20	<10	<1	16	3

A .5 gm sample is digested with 5 ml 3:1 HCl/HNO3 at 95c for 2 hours and diluted to 25ml with D.I.H2O.





8282 Sherbrooke Street  
Vancouver, B.C  
Canada V5X 4R  
Tel: 604 327-343  
Fax: 604 327-3423

**Procedure Summary:**

Gold (Au) Geochemical Analysis

**Element(s) Analyzed:**

Gold (Au)

**Procedure:**

The samples are fluxed, silver is added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved with aqua regia solution, diluted to volume and mixed.

These resulting solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 2 standard deviations of its known or the whole set is re-assayed.

A minimum of 10% of all assays are rechecked, then reported in parts per billion (ppb).

Detection Limit: 1ppb



8282 Sherbrooke Street  
Vancouver, B.C  
Canada V5X 4R  
Tel: 604 327-343  
Fax: 604 327-3423

**Procedure Summary:**

30 Element Aqua Regia Leach ICP-AES

**Elements Analyzed:**

Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sn, Sr, Th, Ti, U, W, Zn

**Procedure:**

0.500 grams of the sample pulp is digested for 2 hours at 95°C with a 3:1 HCl:HNO<sub>3</sub> mixture. After cooling, the sample is diluted to 25mL with deionized water.

The solutions are analyzed by Inductively Coupled Plasma-Atomic Emission Spectra using standard operating conditions.

Detection limit and analytical range are element specific.

CCRMP

ISO 9001:2000  
Registered

PTP-MAL

Accredited by  
Standards Council of Canada :  
proficiency testing provider for  
specific mineral analysis parameters

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**Proficiency Testing Program for Mineral Analysis Laboratories**

# **Certificate of Laboratory Proficiency**

**Assayers Canada**  
Vancouver, British Columbia

has been assessed "Satisfactory" in both cycles of test samples in

**2003**

for:	Gold	Silver	Copper
	Zinc	Platinum	Palladium

\* method independent

according to the criteria for laboratory proficiency established by the  
Task Accreditation Sub-Committee Working Group for Mineral Analysis  
Laboratories of the Standards Council of Canada.Clinton W. Smith

PTP-MAL Coordinator

March 31, 2004

Date



Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

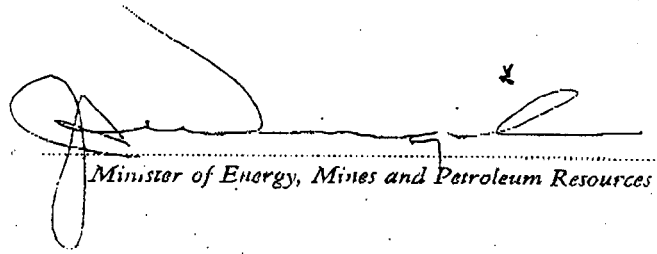
## Certificate of Efficiency

*This is to certify that*

*Albert P.M. Hung*

*has qualified for efficiency in the practice of assaying and sampling, pursuant to the provisions of the Ministry of Energy, Mines and Petroleum Resources Act, and is privileged to practise as a licensed assayer in the Province of British Columbia.*

*Dated at the City of Victoria, in the Province of British Columbia, this* *Twenty-fourth*  
*day of* *May*, *1991*

  
Minister of Energy, Mines and Petroleum Resources



Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

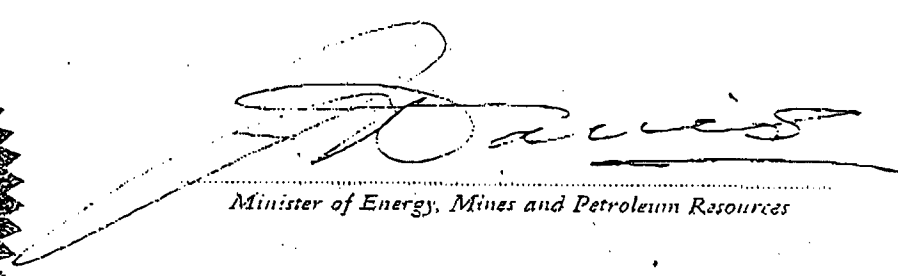
## Certificate of Efficiency

*This is to certify that*

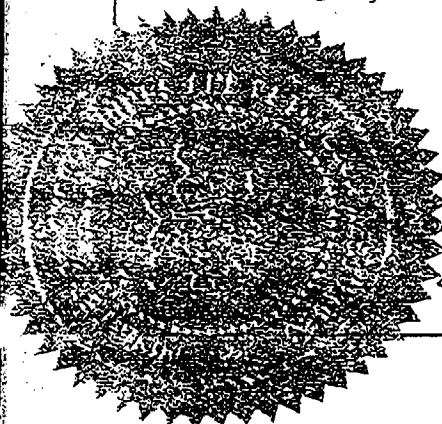
*Satpaul Singh Gill*

*has qualified for efficiency in the practice of assaying and sampling, pursuant to the provisions of the Ministry of Energy, Mines and Petroleum Resources Act, and is privileged to practise as a licensed assayer in the Province of British Columbia.*

*Dated at the City of Victoria, in the Province of British Columbia, this* Third  
*day of* August, 1989.



*Minister of Energy, Mines and Petroleum Resources*



APPENDIX

III

**Petrographic Description, BEN Claims, Cariboo Mining Division, B.C.**

Sample	Handspecimen	Thin Section	Rock Name
2	medium greenish grey aphanitic groundmass with fine white feldspar (?) segregations to 5mm diameter, criss-crossed with fine, narrow stringers 1-2mm width of quartz (?). Groundmass also includes dark green, irregular shaped segregations of chlorite to a few mm diameter.	highly altered andesite with pyroxene phenocrysts and fine feldspar grains set in a fine grained groundmass of quartz, chlorite and carbonate crosscut by stringers of chlorite with abundant iron oxides and carbonate. Groundmass is highly fractured and brecciated.	silicified, chlorite and carbonate altered andesite
3	reddish brown weathering, greenish brown aphanitic groundmass with white feldspar (?) and dark green chlorite segregations to 2mm diameter. Groundmass is silicified.	highly altered andesite, similar to B-2 but with more abundant, coarser grained chlorite and ~10% clear, anhedral fine grained quartz. Abundant zoned plagioclase phenocrysts. The quartz is later than the altered volcanic groundmass	silicified, chlorite-altered andesite
4	orange red weathering, light grey with emerald green flecks, aphanitic, silicified groundmass which is finely brecciated	~10-15% fine magnetite. Highly brecciated and fractured groundmass of primarily magnesite (>75%) with minor quartz. What the original rock was is difficult to say, as now it is just a jumble of fragmented, brecciated magnesite and fine grained silica.	silicified, brecciated volcanic (?).
5	orange red weathering, silicified, oxidized, brecciated aphanitic groundmass, cut by stringers of orange-white feldspar (?).	highly altered, almost opaque fragmented groundmass of andesite (?) cut by veinlets of calcite, magnesite and later stringers of fine quartz	silicified, brecciated andesite
6	mottled dark grey weathering, fine laminated reddish brown to dark grey mylonitic breccia with segregations of orange-white feldspar (?) set in black to dark grey aphanitic groundmass.	strongly foliated (tectonized), finely laminated groundmass with two generalized components; clear chlorite-quartz-carbonate and dark reddish-brown, almost opaque iron oxides, carbonate and very fine grained phyllosilicates.	fault zone mylonitized breccia
7	rusty grey weathering, thinly layered, white to grey silicified groundmass cut by set of cream (pale yellow) stringers of later silica +/- feldspar (?). The silicified, layered groundmass appears brecciated, its layering the result of tectonism.	very fine grained, brecciated, laminated chert (?) of very fine grained quartz cross-cut by at least two generations of quartz stringers; on nearly perpendicular to bedding laminations the other at a high angle to laminations. Also cross-cut by quartz-carbonate veinlets to 3 and 4mm width.	<u>silicified, brecciated chert</u>
8	rusty weathering, light grey, cryptocrystalline silica with very fine silica lining vugs, crosscut by vuggy, white quartz stringer.	groundmass of very fine grained to cryptocrystalline quartz with no readily discernable fabric. Crosscut by numerous fine quartz stringers with no apparent preferred orientation.	silicified chert (?) breccia
9	olive green weathering, chloritized, partly silicified brecciated volcanic with contorted laminations to 5mm thickness of dark chlorite (?) and argillaceous material. Crosscut by 1cm feldspar and quartz veinlet	highly carbonatized, iron oxidized, and clay altered andesitic (?) groundmass with crosscutting stringers of plagioclase with minor quartz.	silicified, altered volcanic



Sample	Handspecimen	Thin Section	Rock Name
10	orange brown weathering, orange brown, brecciated, aphanitic groundmass with irregular shaped, light grey silica concentrations to 5mm diameter and abundant bright emerald green blebs and stringers. Crosscut by a set of orange brown weathering stringers (feldspar, quartz ?) to 1mm thickness. Includes a 1cm thick crosscutting quartz stringer with a slickensided surface.	quartz – magnesite rock with groundmass of very fine grained quartz pervaded by medium to coarse grained magnesite and opaques. Carbonate-rich portion includes green phyllosilicate. Crosscut by stringers of coarse grained carbonate. 10B has much more magnesite than 10A and the green phyllosilicate is better developed, with concentrations of the latter around and proximal to a dark reddish-brown opaque mineral (hematite ?). The green phyllosilicate (fuschite, Cr-muscovite) mineral appears to have been introduced during the magnesium metasomatism event.	magnesite – quartz rock

Summary:

The rock suite from this area includes:

- andesite, brecciated andesite, silicified andesite
- quartz magnesite breccia, brecciated silicified magnesite

The suite includes ample evidence for extreme deformation, magnesium metasomatism (both in groundmass and in stringers) and widespread silicification.

K.V. Campbell, Ph.D., P. Geo  
 ERSi Earth Resource Surveys Inc.  
 Tel: (250) 620-3341 Fax: (250) 620-3371  
 Email: mail@ersi.ca Web: www.ersi.ca

APPENDIX IV

Statement of Expenditure

Ben 1 – 6 Claims

April – June 2005

Salaries

W. Kahlert, Prospector	1.5 days @ 250	375.00
S. Morey, Assistant	1.5 days @ 125.	<u>187.50</u>
		\$562.50

Travel Expenses	224.83
Assays	241.29
Petrographic Study	642.00
Report preparation	525.00
Typing	<u>75.00</u>

TOTAL EXPENDITURES	\$2270.62
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## APPENDIX V

### Statement of Qualifications, B.H. Kahlert, P.Eng.

1966	Graduated UBC, B.Sc., Geology
1971	Attained P.Eng. Status, British Columbia
1966 – 1985	20 years Experience as Field Geologist and Exploration manager in Canada, USA and Australia.
1985 – Present	Consulting Geologist to various junior and senior Exploration Companies in Canada, USA, China, Greenland and Latin America.

Practise of Exploration has been continuous for over 35 years.