

**ASSESSMENT REPORT**

on the

**CARIBOO GOLD PROPERTY  
KEITHLEY CREEK AREA, B.C.**

93A083, 93A073

52° 47' N Latitude

121° 29' W Longitude

for

**NOBLE METAL GROUP INCORPORATED**

1520 - 1100 Melville Street  
Vancouver, British Columbia  
V6E 4H6

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

2005

**RECEIVED**  
APR 21, 2005  
Gold Commissioner's Office  
VANCOUVER, B.C.

by

**W.G. TIMMINS, P.Eng.**

April 21, 2005

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## **INTRODUCTION**

A work program consisting of the preparation and construction of diamond drill sites on the Keithley Creek-Rabbit Creek geochemical grid was carried out during the month of September 2004 on the CAC 1, II and 3 mineral claims.

In addition, a program of rock sampling was carried out during which eleven rock samples were collected from the CAC 3 mineral claim and the J-1 mineral claim. Sample locations were recorded by GPS readings.

Three samples were then selected and analyzed by petrographic thin section study to determine the mineralogic composition of the limestone horizon exposed on the CAC 3 claim and the J-1 claim.

## **PROPERTY DESCRIPTION AND LOCATION**

The property is located approximately 21 kilometres north-northeast of the community of Likely, in the Cariboo Mining Division of British Columbia, Canada, NTS 93A083, 93A073 centred approximately at latitude 52°47'N, longitude 121°29'W.

The property consists of 20 four post located claims containing 388 units and 50 located two post claims for a total of 438 units. The claims are contiguous and cover an area of approximately 10,950 hectares.

A list of the claims, tenure numbers and expiry dates are tabulated as follows.

<u>TENURE NO.</u>	<u>CLAIM NAME</u>	<u>NO. UNITS</u>	<u>EXPIRY DATE</u>
204123	J 1	20	2007/10/12
302656	J 2	18	2006/07/16
204184	STU 1	12	2005/08/17
204185	DD 2	6	2005/08/17
204351	CASCA 1	8	2007/10/02
204352	CASCA 2	20	2005/10/02
204363	CASCA 3	16	2005/10/23
204364	CASCA 4	16	2005/10/23
410855	CASCA 5	20	2005/05/29
204756	CAC 1	20	2007/07/12
204757	CAC II	20	2007/07/12
205123	CAC 3	20	2007/07/12
205124	CAC 4	20	2007/04/16
205125	CAC 5	20	2007/04/16
349094	DD 3	12	2007/07/14
349095	DD 4	20	2007/07/19
349096	DD 5	20	2007/07/19
349097	DD 6	20	2007/07/17
349098	DD 7	1	2006/07/16
349099	DD 8	1	2006/07/16
349100	DD 9	1	2006/07/16
313489	NMG 1	1	2007/09/24
313490	NMG 2	1	2007/09/24
313491	NMG 3	1	2007/09/24
313492	NMG 4	1	2007/09/24
313493	NMG 5	1	2007/09/24
313494	NMG 6	1	2007/09/24
313495	NMG 7	1	2007/09/24
313496	NMG 8	1	2007/09/24
313497	NMG 9	1	2007/09/25
313498	NMG 10	1	2007/09/25
313499	NMG 11	1	2007/09/25
313500	NMG 12	1	2007/09/25
320311	NMG 13	1	2006/08/07
320312	NMG 14	1	2006/08/07
320313	NMG 15	1	2006/08/07
320314	NMG 16	1	2005/08/07
320315	NMG 17	1	2005/08/07
320316	NMG 18	1	2005/08/07
320317	NMG 19	1	2005/08/07
320318	NMG 20	1	2005/08/07
320319	NMG 21	1	2005/08/07

<u>TENURE NO.</u>	<u>CLAIM NAME</u>	<u>NO. UNITS</u>	<u>EXPIRY DATE</u>
320320	NMG 22	1	2005/08/07
320321	NMG 23	1	2005/08/08
320322	NMG 24	1	2005/08/08
320323	NMG 25	1	2005/08/08
320324	NMG 26	1	2005/08/08
320325	NMG 27	1	2005/08/08
320326	NMG 28	1	2005/08/08
320327	NMG 29	1	2005/08/09
320328	NMG 30	1	2005/08/09
320329	NMG 31	1	2006/08/09
320330	NMG 32	1	2006/08/09
320331	NMG 33	1	2006/08/09
320332	NMG 34	1	2005/08/09
320338	NMG 40	1	2005/08/10
410850	NMG 35	1	2005/05/27
410851	NMG 36	1	2005/05/27
410852	NMG 37	1	2005/05/27
410853	NMG 38	1	2005/05/27
410854	NMG 39	1	2005/05/28
410856	DOT 1	20	2005/05/29
410865	DOT 2	1	2005/05/27
410872	DOT 3	1	2005/05/27
410873	DOT 4	1	2005/05/27
410874	DOT 5	1	2005/05/27
410875	DOT 6	1	2005/05/27
410876	DOT 7	1	2005/05/27
410877	DOT 8	1	2005/05/27
412720	CAC 6	20	2005/07/23
412721	CAC 7	20	2005/07/25
412722	CAC 8	<u>20</u>	2005/07/24

**Total Number of Claims    438**

## **ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

The property is located in the Quesnel Highlands of Central British Columbia with elevations ranging from 1000 to 1500 metres above sea level.

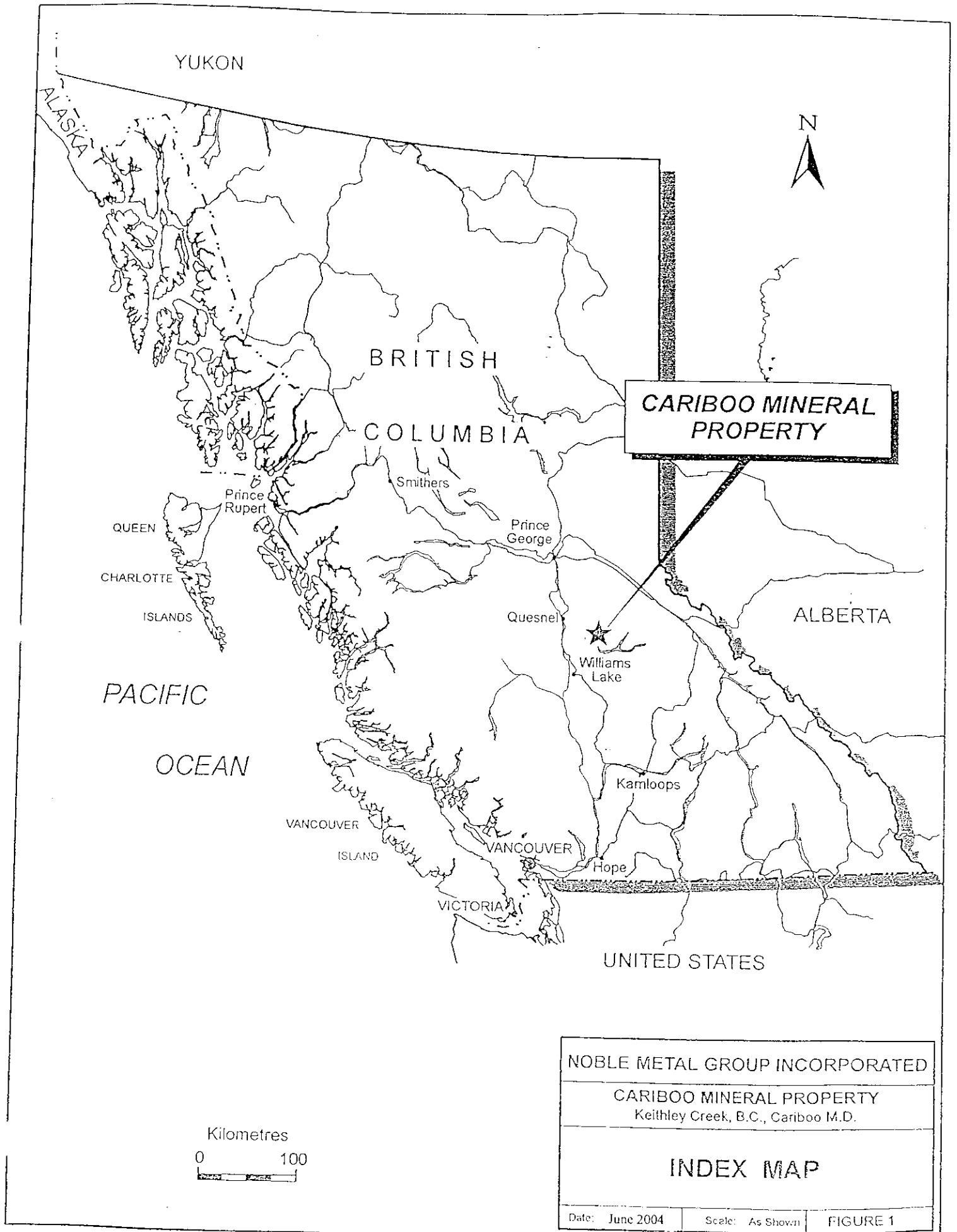
Topography varies from steep along Keithley Creek and Snowshoe Creek to moderate and gentle at higher elevations.

Keithley Creek which flows in a southeasterly direction through the centre of the property has many creeks flowing into it such as Donaldson, Honest John, Rabbit, Snowshoe and Weaver Creeks.

The area receives significant precipitation throughout the year occurring from both rain and snow. Accumulations of snow may reach three metres or more during the winter months. Temperatures can vary from -25°C in winter to +30° in summer.

The natural vegetation is predominantly coniferous forest consisting of spruce, balsam, firs and cedar. Large portions of the property have been logged by clear cutting and most of these areas have been replanted. Many of the replanted areas contain second growth trees ranging from three to ten metres in height.

Access to the property is provided by an all-weather logging road to Keithley Creek from the community of Likely, B.C. From the old settlement of Keithley Creek on Cariboo Lake a logging road on the east side of Keithley Creek leads to the property. A network of logging and skid roads provide good access to all areas of the mineral claims.



**CARIBOO MINERAL PROPERTY**

NOBLE METAL GROUP INCORPORATED

CARIBOO MINERAL PROPERTY  
Keithley Creek, B.C., Cariboo M.D.

**INDEX MAP**

Date: June 2004      Scale: As Shown      FIGURE 1

## **PROPERTY GEOLOGY**

The mineral claims are underlain by rocks of the Ramos succession of which interbedded quartzite and phyllite are the most abundant. The age of the Ramos succession is believed to be Hadrynian.

The quartzite is olive grey on fresh surfaces, is poorly sorted and generally medium to coarse grained. The quartz clasts are predominantly glass clear and grey with minor blue. The quartzite is usually micaceous with some sections being weakly calcareous. Sericite, epidote, muscovite, chlorite and biotite occur along the foliations.

The phyllite varies from olive grey to black with chlorite and accessory pyrite, and pyrrhotite. There is often rhythmic banding within the phyllite and contacts between the quartzite and phyllite are usually sharp.

The main structure in the area is the Keithley Creek Thrust Fault that runs from Shoal's Bay on Quesnel Lake northwest up Keithley Creek and along the lower portion of Rabbit Creek carrying on to the northwest across Fontaine Creek.

The Keithley Creek-Rabbit Creek geochemical grid area is underlain by the Ramos Succession of phyllite, schist, calc-silicate rocks and limestone or calcareous quartzite. The rocks southwest of the Keithley Thrust Fault have been subjected to at least two generations of folding. Quartz veining and nodules have been observed in the outcrops.



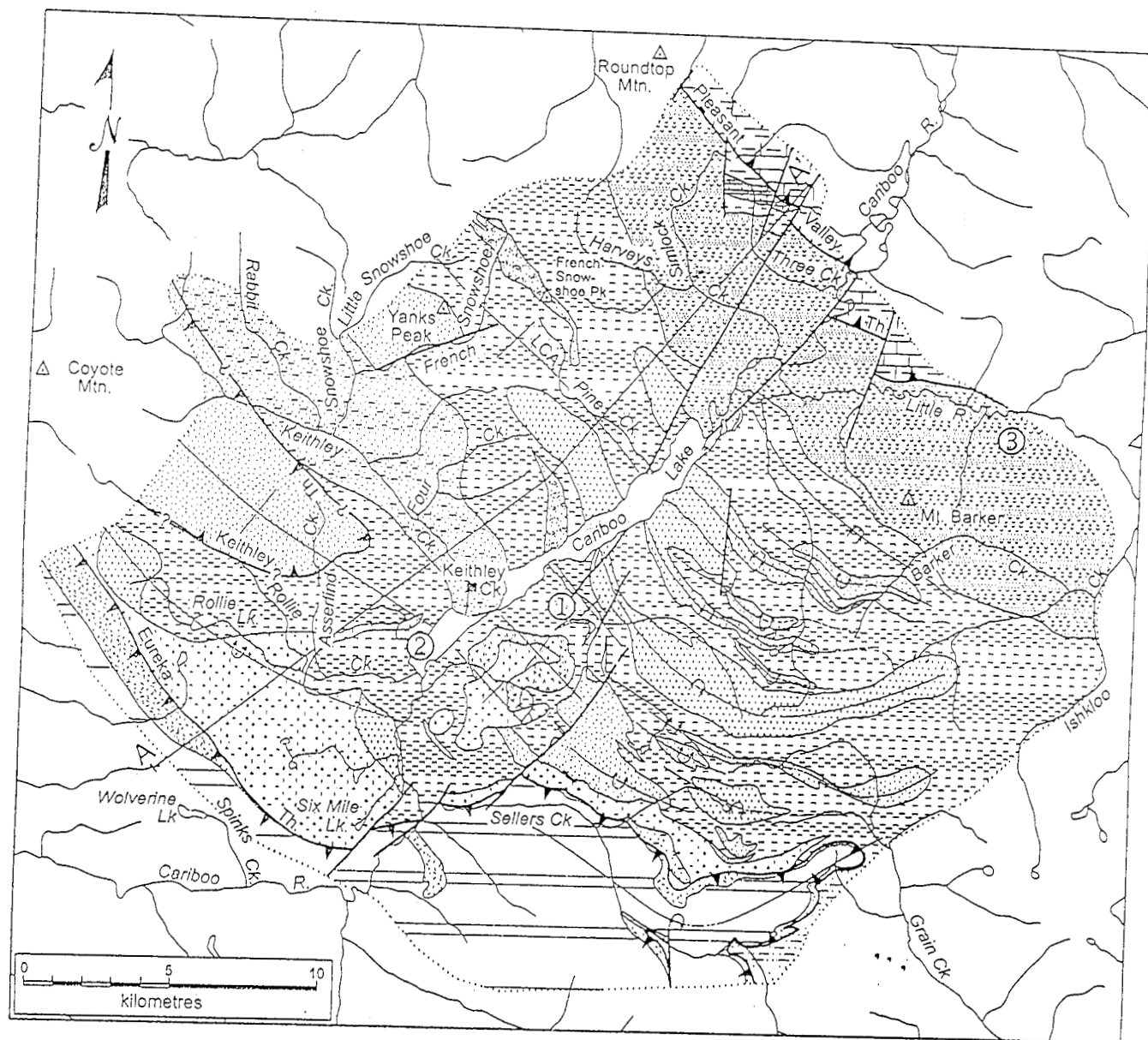


Figure 3

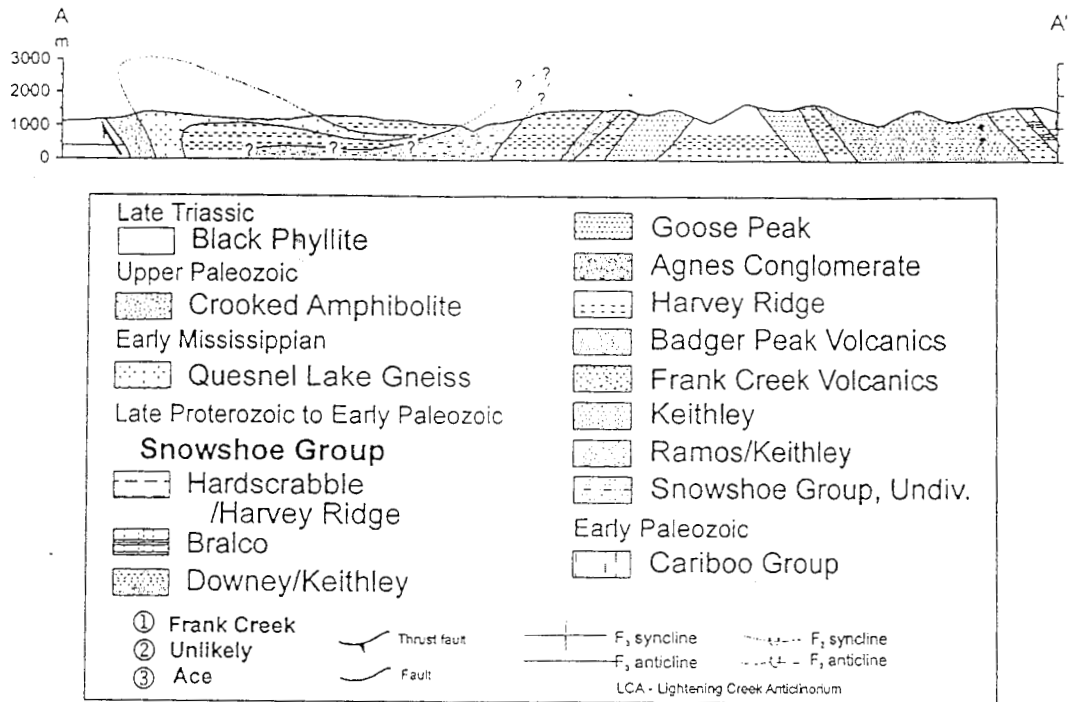


Figure 3. (a) Simplified preliminary geologic map of the Cariboo Lake area. (b) Simplified structural cross-section.

## **WORK PROGRAM AND RESULTS**

In addition to the preparation and construction of six diamond drill sites utilizing a D8N Caterpillar tractor during September of 2004, the gold-copper-chromium-nickel geochemical soil anomalies revealed by the 2003 soil sampling survey carried out by the company, were examined and eleven rock samples were collected from a limestone horizon on the CAC 3 claim at the summit of the Keithley-Rabbit Creek grid as well as from rock exposures underlying the placer workings on the J-1 claim. Sample locations were defined by GPS co-ordinates.

The summit of the Keithley-Rabbit Creek grid is situated on the crest of an anticlinal fold structure and the rocks underlying the placer workings occur on the limb of a synclinal fold. Rock samples were collected from limestone strata at both locations to determine the mineral composition.

Petrological thin section analyses of six samples combined by the petrographic laboratory revealed a pervasive overprinting of sphene in altered limestones, characterized by the development of tremolite-actinolite needles, altered by chlorite. Pyrite is disseminated and replaces calcite in the formation indicating the potential for the occurrence of replacement-type gold deposits.

Actinolite and chlorite are responsible for the green colour observed in the rock samples.

Pyrite and hematite occur as disseminations both interstitial and as replacements of calcite.

## **CONCLUSIONS**

These findings indicate the potential for the occurrence of sulphide-gold replacement deposits and potential for the development of gem quality titanite (sphene) and possible concentrations of titanium, a lightweight heat-resistant metal, within the limestone strata.

The occurrence of this type of high temperature mineralization detected in both areas along with the geological data gathered to date supports the fact that hydrothermal events have taken place on the property creating the fluids necessary for the formation of limestone replacement deposits.

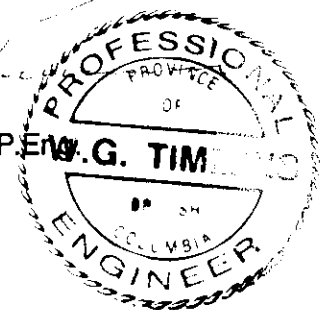
## **RECOMMENDATIONS**

It is recommended that Noble Metal Group Incorporated proceed with a diamond drilling program to test the soil geochemical gold-copper-nickel-chromium anomalies and to further test the titanium potential.

Respectfully submitted,



W.G. Timmins, P.Eng.



April 21, 2005

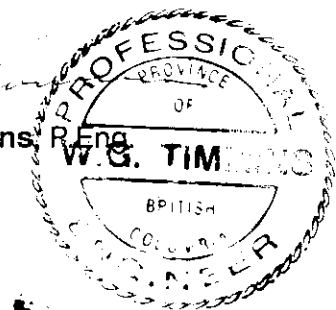
## STATEMENT OF QUALIFICATIONS

I, William G. Timmins, of the City of Vancouver, in the Province of British Columbia, do hereby certify that:

1. I am a consulting geologist, with offices at 1016 - 470 Granville Street, Vancouver, B.C. V6C 1V5.
2. I have been practising my profession since 1965, having been engaged in the evaluation, exploration and development of mineral properties throughout Canada, the United States, Latin and South America, Australia and New Zealand.
3. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario (1956) and attended Michigan Technological University 1962-1965, Geology and was licensed by the Professional Engineers Association of B.C. (geological discipline) in 1969.
4. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined by NI 43-101) and past relevant work experience, I fulfil the requirements to be a "qualified person" for the purposes of NI 43-101.
5. This report titled "Assessment Report on the Cariboo Gold Property" dated April 21, 2005, is based on published and private reports, maps and data provided by Noble Metal Group Incorporated and in the public domain, analyses by Vancouver GeoTech Labs, and numerous visits to the property. The author has reviewed relevant data prepared by reputable qualified persons and is responsible for his own geological analysis, conclusions and recommended exploration program.

April 21, 2005

*W.G. Timmins*  
W.G. Timmins, P.Eng.



## **REFERENCES**

- B.C. Ministry of Energy & Mines (2002): Preliminary Geology of the Cariboo Lake Area, Central B.C., Geological Field Work 2001, Paper 2002-1.
- Struik, L.C. (1988): Structural Geology of the Cariboo Gold Mining District, East-Central B.C., Geological Survey of Canada, Memoir 421.
- Timmins, W.G. (2004): Report on the Geochemical Soil Survey and Stream Sediment Survey, Cariboo Mining Division, B.C. for Noble Metal Group Incorporated, June 22, 2004.

GOVERNMENT FINANCIAL MANAGEMENT  
2010-2011

27,003

Appendix 1

STATEMENT OF EXPENDITURES

**WGT CONSULTANTS LTD.**

1016 - 470 Granville Street  
Vancouver, B.C. V6C 1V5  
Canada  
Tel: 604-317-8161

To: Noble Metal Group Incorporated  
1321 - 1100 Melville Street  
Vancouver, B.C.  
V6C 1V5

February 8, 2005

Re: **CARIBOO MINERAL PROPERTY**

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**EXPENSES #00G**

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**EXPENSES:**

Re: Thin Section Analyses  
Invoice received February 7, 2005

**TOTAL EXPENSES**

**\$ 580.90**

**GEOLOGICAL SURVEY BRANCH**  
ASSESSMENT PROJECT

**27,803**



# **NOBLE METAL GROUP INCORPORATED**

1016 - 470 Granville Street  
Vancouver, B.C. V6C 1V5  
Canada  
Tel: 604-317-8161

## **STATEMENT OF EXPENDITURES FOR ASSESSMENT WORK**

### **STATEMENT OF WORK PERFORMED September 2004**

#### **CAC 1 and CAC 3 MINERAL CLAIMS**

Construction of drill sites

D8N Caterpillar Tractor with Ripper	
1st day - 5 hrs cat work	
2nd day - 4 hrs cat work	
9 hrs @ \$200/hr	\$ 1,800
4x4 Truck - 2 days	100
Geologist - 2 days	800
Assistant - 2 days	400
Accommodation & Board - 3 men x 2 days	600
	<hr/>
Subtotal	3,700
Travel & Transportation @ 20%	740
	<hr/>
Total	<u>\$ 4,440</u>

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

27,903

# NOBLE METAL GROUP INCORPORATED

1016 - 470 Granville Street  
Vancouver, B.C. V6C 1V5  
Canada  
Tel: 604-317-8161

## STATEMENT OF EXPENDITURES FOR ASSESSMENT WORK

### STATEMENT OF WORK PERFORMED September 5th to 20th, 2004

#### CAC 1, CAC 3, J-1 CLAIMS

GPS readings of drill sites  
Collection of rock samples for thin section analysis  
Cost of analysis

Geologist - 5 days @ \$400/day	\$ 2,000
Assistant - 5 days @ \$200/day	1,400
4x4 Truck - 5 days @ \$50/day	250
Accommodation & Board - 5 days @ \$100 x 2 men	,000
Cost of Thin Section Analysis	<u>580</u>
Subtotal	5,179
Travel & Transportation @ 20%	<u>1,036</u>
Total	<u>\$ 6,215</u>

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

27

MINERALOGICAL SURVEY BRANCH  
CANADIAN STONE

27,203

Appendix 2

PETROGRAPHIC REPORT

**Vancouver GeoTech Labs**  
**#3 - 44 East 11<sup>th</sup> Ave., Vancouver, B.C.**  
**Phone: 604-812-7070, Fax: 604-677-5983**  
**PETROGRAPHIC REPORT**

Invoice GEO04015

Report For B. Timmins

Samples: X-1, G-Bloom 3-4, TR 3-4 (Total 3) Polished Thinsections

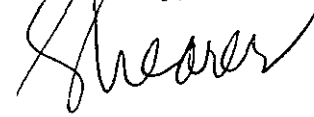
Note: Detail field relationship descriptions were not included with sample submission and Vancouver GeoTech Labs personnel were not involved in sample collection.

Summary: All three specimens are variably altered Limestones. Each specimen is characterized by the development of Tremolite-Actinolite needles and a pervasive overprinting of sphene. In two of the samples, G-Bloom and TR 3-4, much of the tremolite-actinolite has been altered by chlorite. The actinolite and chlorite formation account for the green colour observed in the hand specimens. The sphene content would suggest anomalous titanium levels. Pyrite and hematite co-exist together in G-Bloom and X-1.

Future studies would benefit from staining the off-cuts with Alezarin Red S to quantify calcite chemistry.

If you have any questions regarding the attached petrographic descriptions or would like other specific lines of inquiry addressed, please call me at 604-970-6402 or E-mail [jo@HomeGoldResourcesLtd.com](mailto:jo@HomeGoldResourcesLtd.com). Photographs are pending.

Yours truly,



J.T. (Jo) Shearer, M.Sc., P.Geo.

GEOLOGICAL SURVEY OF CANADA  
 BRANCH  
 27-800  
 27-800

**Vancouver GeoTech Labs**  
**#3 – 44 East 11<sup>th</sup> Ave., Vancouver, B.C.**  
 Phone: 604-812-7070, Fax: 604-677-5983  
**-- PETROGRAPHIC DESCRIPTION --**

FOR: B. Timmins

SPECIMEN NUMBER: G-Bloom 3-4

HANDSPECIMEN DESCRIPTION:

Slightly rusty weathering, buff-brown staining, abundant carbonate (calcite), mainly medium to fine crystalline 0.2mm and finer crystals, minor crystals up to 0.7mm, light and dark grey alternating thin layers to laminated, lighter grey layers 1 to 3mm wide, darker layers slightly thicker 2mm to 4mm wide, cross-cut by whitish light grey banded sparry veinlet 2mm wide at 55° to lamination orientation, numerous pits or small cavities on sawn surface <1mm in length, disseminated pinhead sized pyrite throughout, greenish tinge of probable calc-silicates in central part of specimen off cut and around coarser cross-cutting veinlet, trace of pyrite lenses on weathered surface, non fluorescent, non magnetic.

HANDSPECIMEN NAME: Thin Bedded to Laminated Minor Calc-Silicate Altered Grey Limestone

THINSECTION EXAMINATION:

ESTIMATED MODE:

Calcite	70%
Cavities	10%
Sphene	6%
Opagues:	
a) Non Reflecting, dark organics	3%
b) Reflecting Opagues - Pyrrhotite	Trace
- Pyrite	1%
- Hematite	Trace
Chlorite	6%
Tremolite-Actinolite	4%

Pyrite lenses elongated to dominate elongation of calcite grains.

Sphene occurs as very high relief granular massive lenses and patches often surrounding or interstitial to larger calcite crystals. The sphene is dark in colour and accounts partly for the darker grey layers together with dark organics and finer grained calcite grains. Tiny sphene grains are also developed throughout along the twin lamellae of calcite crystals giving a slight ragged appearance.

Quartz is mainly found as small 0.1mm sub-rounded grains reflecting an original detrital component.

Minor late stage felted chlorite masses were observed replacing sphene tremolite-actinolite and calcite. This chlorite and tremolite-actinolite is what gives the overall green colouration in this specimen.

Green tremolite (actinolite) forms relatively long narrow needle-like crystals up to 0.4mm in length. Much of the tremolite-actinolite has been replaced by chlorite

Pyrite grains are relatively small up to 0.15mm across, generally ragged texture with numerous very small gangue inclusions. Pyrite commonly is interstitial to calcite grains but sometimes replaces calcite.

Hematite occurs as small grains due to oxidation of minute pyrite.

ROCK NAME: Chloritized Actinolite and Sphene Altered Limestone

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1/5/2010

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**Vancouver GeoTech Labs**  
**#3 – 44 East 11<sup>th</sup> Ave., Vancouver, B.C.**  
**Phone: 604-812-7070, Fax: 604-677-5983**  
**-- PETROGRAPHIC DESCRIPTION --**

FOR: B. Timmins

SPECIMEN NUMBER: X-1

HANDSPECIMEN DESCRIPTION:

Finely laminated laminations 0.5 to 6mm wide, alternating light and dark grey layers, abundant carbonate (calcite), medium to fine crystalline, minor rusty staining on one end of off cut, slightly greenish layer associated with irregular white to buff sparry lenses, non fluorescent, sparry lenses cross-cutting layering, abundant small <1mm cavities, minor disseminate tiny anhedral grains of pyrite, traces of pyrrhotite?, elongated calcite crystals common.

HANDSPECIMEN NAME: Minor Calc-Silicate Altered, Laminated Limestone

THINSECTION EXAMINATION:

ESTIMATED MODE:

Calcite	76%
Tremolite	4%
Quartz	1%
Cavities	5%
Opagues: dark organics	2%
Opagues: Reflecting Sulfides - Pyrite	1%
Hematite	1%
Sphene	10%
Chlorite	Trace

Calcite crystals are commonly elongated, Needle-like tremolite crystals 0.25mm long are very elongated aligned parallel to bedding direction. (Climo amphibole: tremolite-actinolite, green ferriferous tremolite is called actinolite, faintly pleochroic), Tremolite-actinolite forms the bulk (with sphene) of the darker greenish lenses and layers. Tremolite-actinolite occurs as long and narrow crystals commonly replaced to a degree by sphene. Anhedral sphene associated with some pyrite lenses and as narrow layers of sphene parallel to layering. Minor brecciation with mainly fine grained calcite replacing coarser grained host rock, Sphene locally abundant in darker layers

Coarse crystalline calcite typically has numerous very tiny sphene inclusions developed along the twin lamellae.

Quartz appears to be secondary as small discontinuous lenses.

Hematite is not associated with pyrite and may be primary

ROCK NAME: Actinolite and Sphene Altered Limestone

**Vancouver GeoTech Labs**  
**#3 – 44 East 11<sup>th</sup> Ave., Vancouver, B.C.**  
 Phone: 604-812-7070, Fax: 604-677-5983  
**-- PETROGRAPHIC DESCRIPTION --**

FOR: B. Timmins

SPECIMEN NUMBER: TR 3-4

HANDSPECIMEN DESCRIPTION:

Alternating light grey and dark grey laminations, soft, medium to fine crystalline, abundant carbonate, layers 0.5 to 4mm wide, one side of section off cut has a greenish tinge, green colour appears to be replacing laminations as soft, nodular lenses, minor disseminated pyrite, non fluorescent, non magnetic, abundant small <1mm cavities, many coarser calcite crystals are elongated

HANDSPECIMEN NAME: Minor Calc-Silicate Altered Laminated Limestone

THINSECTION EXAMINATION:

ESTIMATED MODE:

Calcite	60%
Quartz	10%
Cavities	5%
Sphene	14%
Chlorite	5%
Tremolite-Actinolite	5%
Opagues - Organics	
- Reflecting Sulfides - Pyrite	1%

Very abundant calcite, calcite grains commonly have tiny sphene development along the twin lamellae giving an overall ragged appearance.

Quartz has undulatory extinction, some quartz grains are partly replaced by Calcite around the grain boundaries.

Pyrite forms small ragged grains averaging 0.05mm with a few minor lenses up to 0.15mm and larger. All the pyrite grains contain numerous gangue inclusions. No hematite observed. Chlorite occurs as low birefringent "sheaves" in contrast to the felted chlorite in G-Bloom 3-4. Tremolite-Actinolite is observed as long narrow crystals which have been replaced by chlorite.

ROCK NAME: Chloritized Actinolite & Sphene Altered Limestone

2103

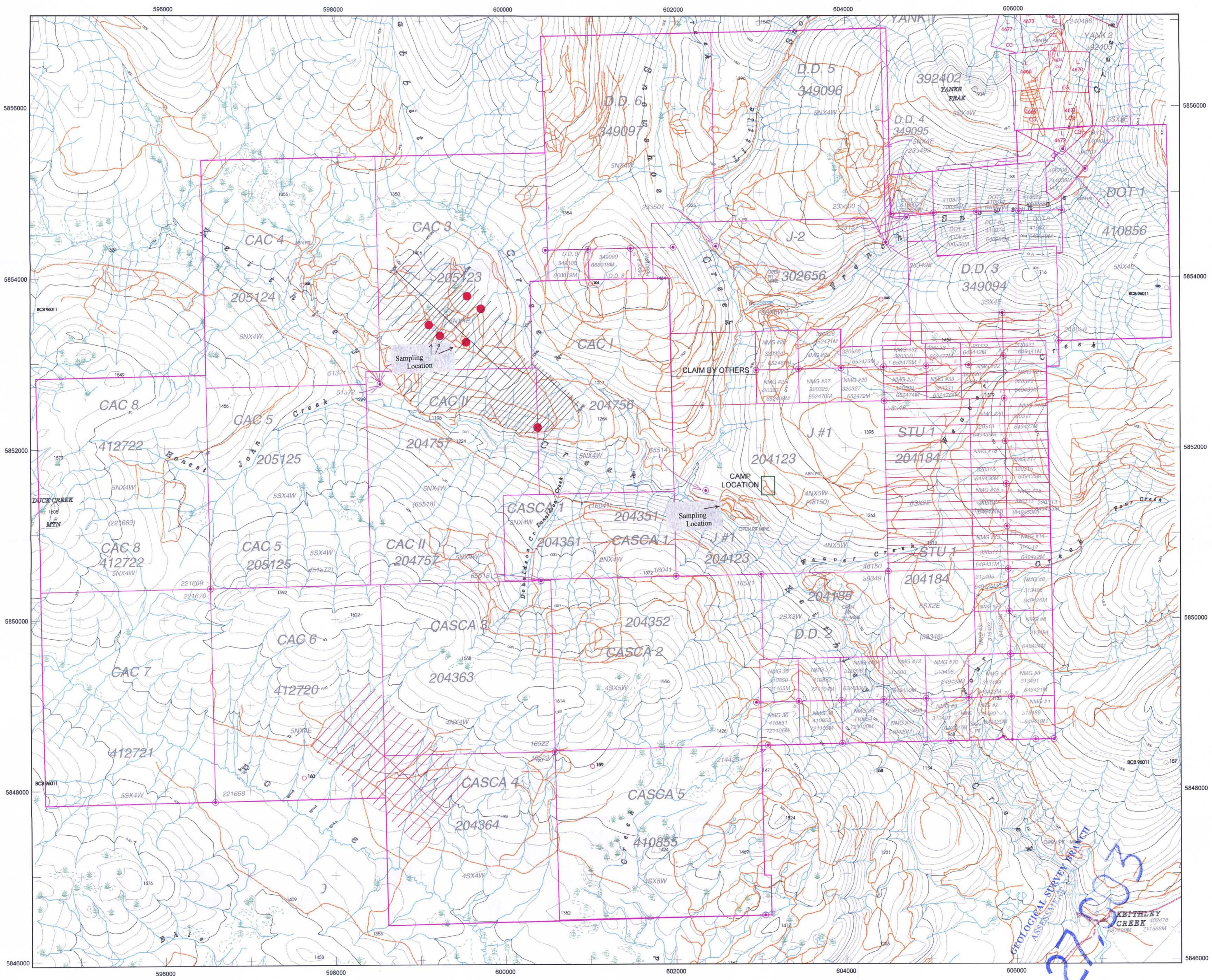


ECOLOGICAL SURVEY BRANCH  
FIELD REPORT

27,803

Appendix 3

CLAIM MAP WITH DRILL SITES



- Legend**
- Creeks and Streams
  - Roads
  - Index Contours
  - Intermediate Contours
  - Claim Boundary
  - Marsh
  - Proposed Diamond Drill Hole Location
  - Existing Grid
  - Proposed Grid



**Noble Metal Group Incorporated**

Proposed Drill Sites, Geochemical and Geophysical Grid Areas  
Existing Geochemical Grid

February 28, 2005