

**Geological Survey Branch  
Assessment Report Indexing System**



[ARIS11A]

**ARIS Summary Report**

Regional Geologist, Prince George

**Date Approved:** 2005.06.24

**Off Confidential:** 2005.11.08

**ASSESSMENT REPORT: 27642**

**Mining Division(s):** Cariboo

**Property Name:** Shear Gold

**Location:**  
NAD 27 Latitude: 52 52 15 Longitude: 121 24 20 UTM: 10 5858875 607323  
NAD 83 Latitude: 52 52 15 Longitude: 121 24 25 UTM: 10 5859091 607226  
NTS: 093A14W  
BCGS: 093A083

**Camp:** 038 Cariboo - Barkerville Camp

**Claim(s):** Shear Gold 12-13

**Operator(s):** Golden Cariboo Resources Ltd.

**Author(s):** Riddell, Janet M., Childs, John

**Report Year:** 2005

**No. of Pages:** 20 Pages

**Commodities Searched For:** Gold, Lead, Zinc

**General Work Categories:** GEOL

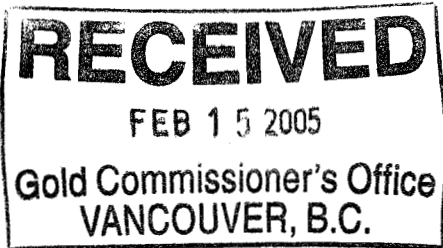
**Work Done:** Geological  
GEOL Geological (250.0 ha;)

**Keywords:** Paleozoic, Snowshoe Group, Greenstones, Quartzites, Galena, Pyrite

**Statement Nos.:** 3219809

**MINFILE Nos.:** 093A 099

**Related Reports:**



**GEOLOGICAL REPORT ON THE SHEAR GOLD 12 AND 13 CLAIMS  
Golden Cariboo Project, British Columbia**

NTS: 93A/14

Latitude: 52 52 00 N

Longitude: 121 24 50 E

Cariboo Mining Division

For  
Golden Cariboo Resources Ltd.  
1500 – 675 West Hastings Street  
Vancouver, British Columbia  
V6B 1N2

GEOLOGICAL SURVEY BRANCH  
A MINERAL REPORT

27,642

By:  
Janet Riddell, P. Geo.  
2396 Foot Street  
Prince George, B.C.  
V2N 2Y4

February 5, 2005

## **SUMMARY**

The Shear Gold Claims 12 and 13 form an isolated block comprising 7 units (1 and 6 units respectively) that lie at the southwestern tip of the Golden Cariboo land package controlled by Golden Cariboo Resources Limited. The claims are underlain by Paleozoic quartzites, siltites, and conglomerates of the Harvey's Ridge and Agnes successions of the Snowshoe group, within the Barkerville subterrane. The rocks host quartz veins mineralized with pyrite, galena and sphalerite. The claims were visited in September 2004 by John Childs of International Wayside Gold and John Bot, prospector, from Quesnel, B.C.

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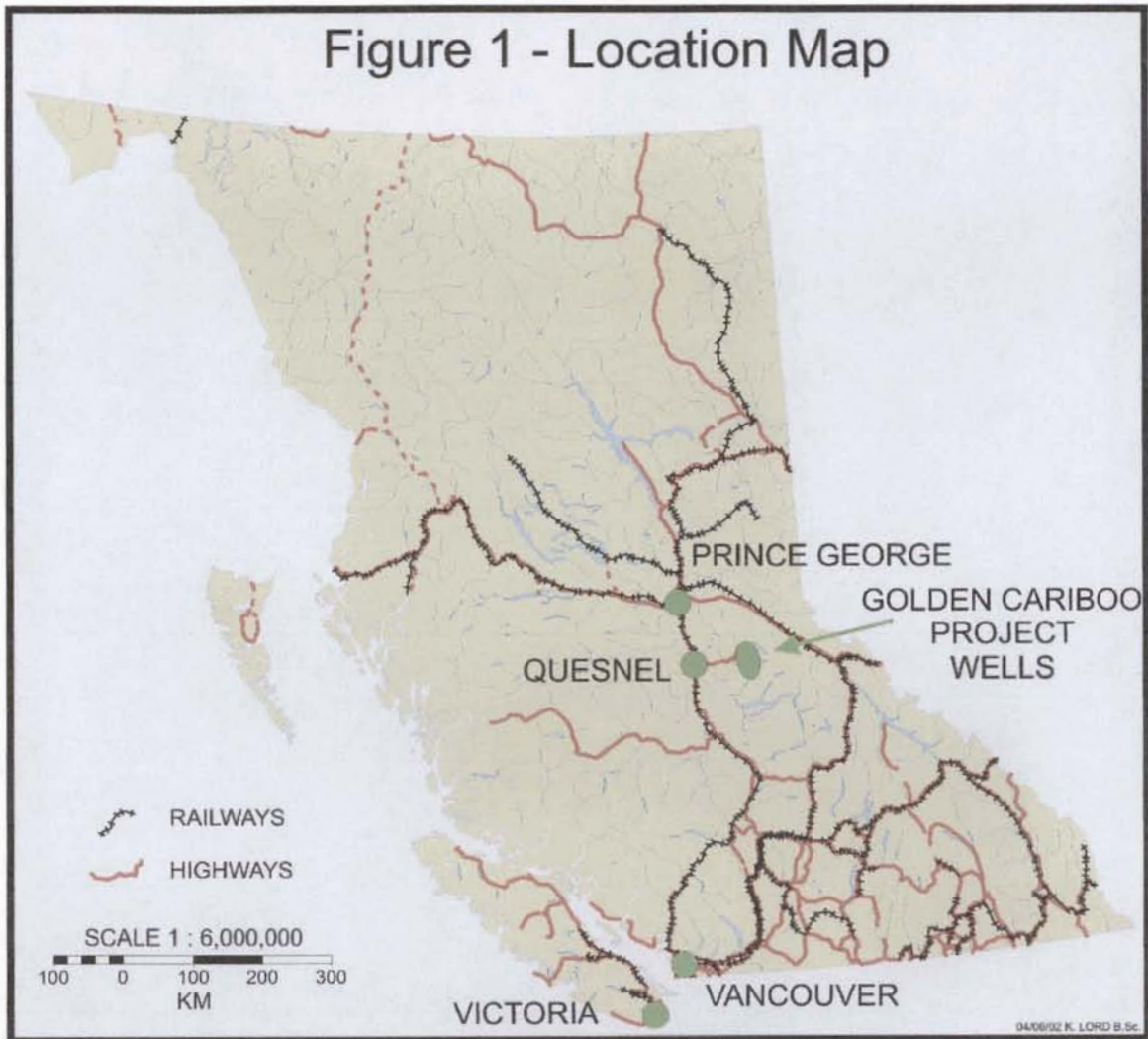
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Figure 1 - Location Map



## 1.0 LOCATION AND ACCESS

The Shear Gold Claims 12 and 13 form an isolated block comprising 7 units (1 and 6 units respectively) that lie at the southwestern tip of the Golden Cariboo land package controlled by Golden Cariboo Resources Limited. The land package is in the Cariboo Mining District, and extends for 28 kilometres to the southeast from the town of Barkerville, approximately 65 kilometres east of Quesnel, British Columbia

The claims are reached from the 3100 Logging Road, which branches south from the Bowron Lake road just a few hundred metres from its start at Highway 26 (the Barkerville Highway) less than one kilometer north of Barkerville (Figure 2). The 3100 road is followed south for about 14.8 kilometres to the X road, which branches off to the right (east). The Yanks Peak Trail road branches from the X road at about kilometre 4. The Shear Gold 12 and 13 claims are transected by

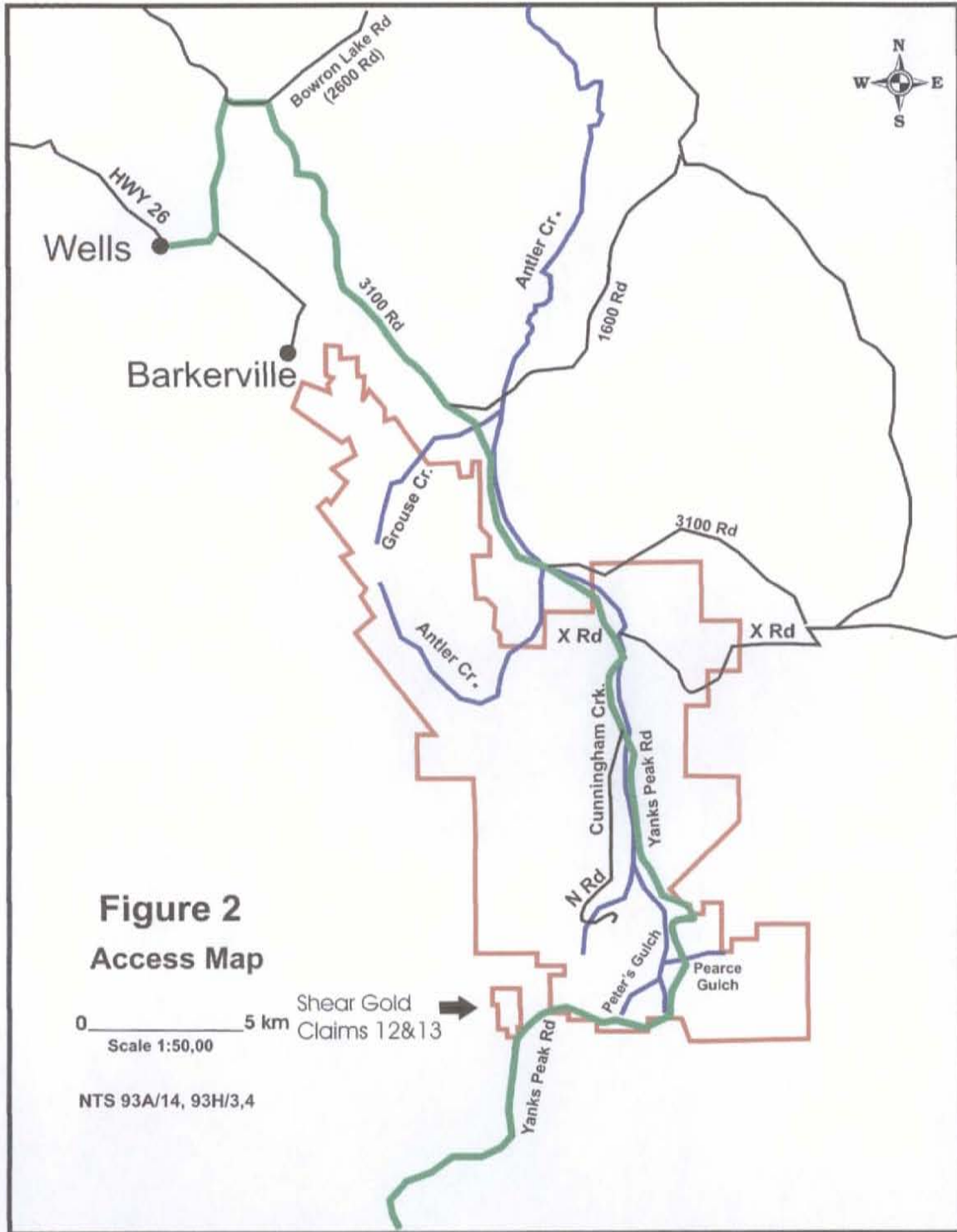
the Yanks Peak Road starting at approximately 16 kilometres past the bridge across Cunningham Creek. The Yanks Peak trail is a good 2-wheel-drive road until it reaches Penny (Copper) Creek, beyond which it is rutted and requires a 4 wheel-drive vehicle. The Yanks Peak trail is well used for recreational ATV vehicles in summer and snowmobiles in winter.

## **2.0 PHYSIOGRAPHY**

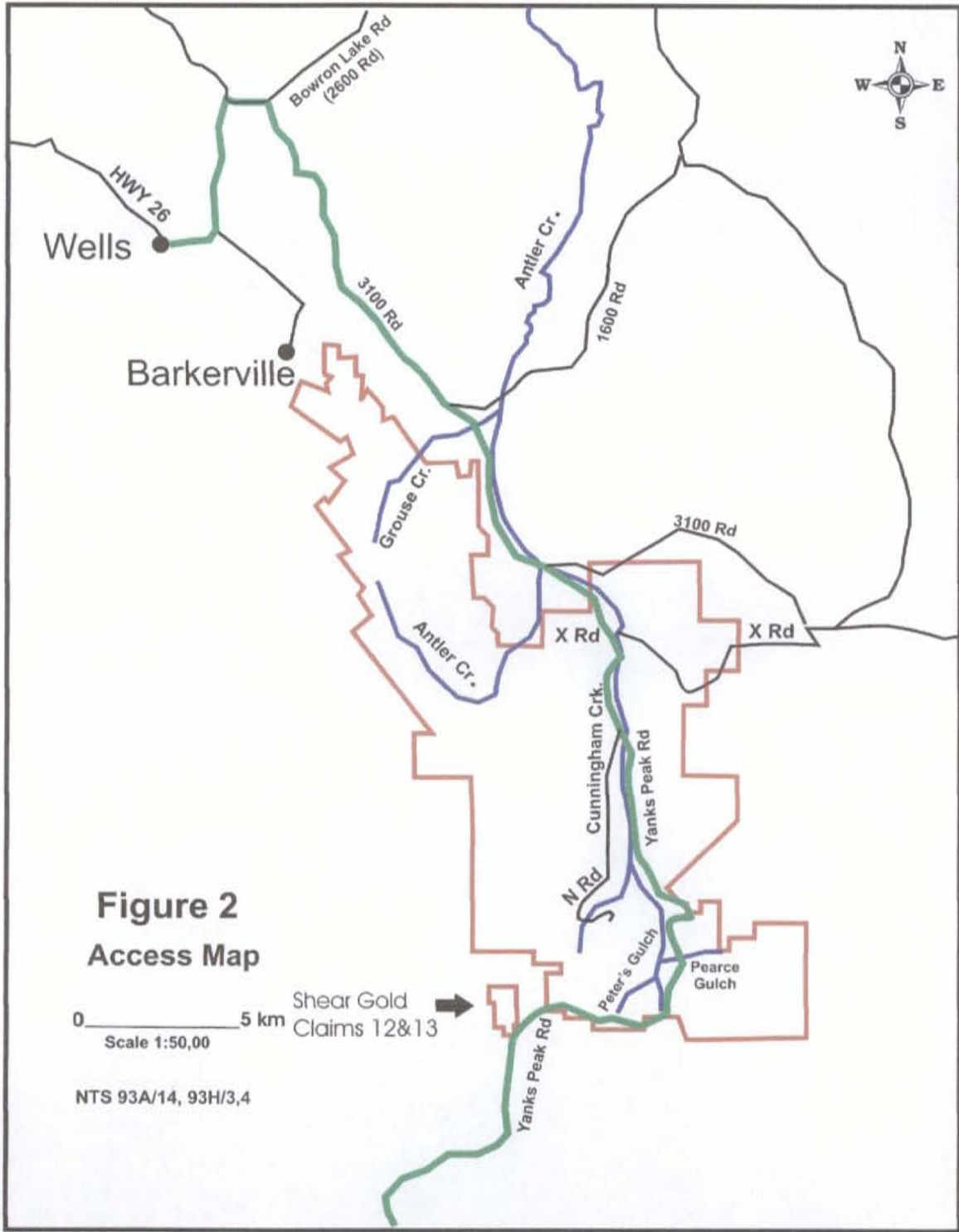
The Shear 12 and 13 claims lie in a subalpine plateau area above the northernmost headwaters of French Snowshoe Creek. The claims lie within the Quesnel Highland of the Interior Plateau as defined by Holland (1964). The elevation of the claims is 1675 to 1700 metres (5600 to 5700 feet). Vegetation is dominated by sparse small subalpine fir and alpine herb species.

## **3.0 LEGAL DESCRIPTION**

The Shear Gold 12 and 13 claims covered by this report consist of 7 units owned 10% by Golden Cariboo Resources Limited of Vancouver, British Columbia. Detailed information about claims is listed in Appendix II.







#### 4.0 HISTORY

The ground controlled by Golden Cariboo Resources lies within the historic Cariboo gold mining district. It is southeast along strike from the source stratigraphy for the famous Williams Creek placer discoveries at Barkerville. The stratigraphy is also equivalent to the host rocks for the three lode gold mines at Wells (Cariboo Gold Quartz, Mosquito Creek, and Island Mountain) which make up the Cariboo Gold Camp.

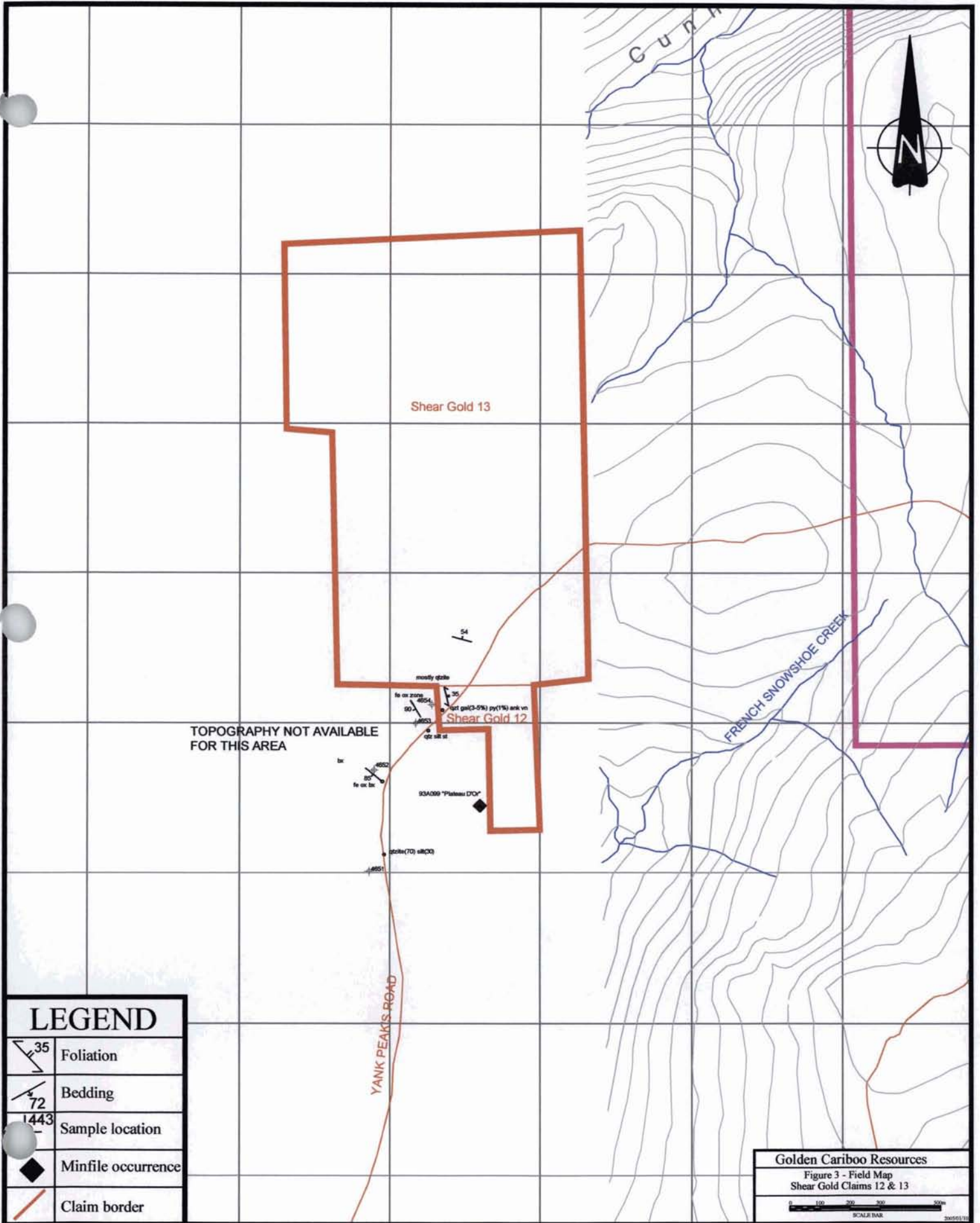
The Cariboo gold rush began in 1858 with the discovery of nugget gold in Keithley Creek, south of the Golden Cariboo land package (Kocsis, 1991). In the following years prospectors explored watersheds to the north, and found placer gold in many creeks from Keithley northwestward to Barkerville and beyond. French Snowshoe Creek was a minor placer producer, yielding 422 ounces of gold between 1874 and 1950.

Prior to the 1930s, lode gold mining activities were mainly restricted to limited staking and sampling of quartz veins as prospectors searched for the bedrock source of the placer gold (Sutherland Brown, 1957).

Bedrock exploration on a larger scale started in the 1930s. Gold mining activity in the region was spurred by an increase in the price of gold in 1932 and the Cariboo Gold Quartz mine at Wells went into production in 1933. Production began in 1937 at the Cariboo Hudson mine (Holland, 1954), located at the southern end of the Golden Cariboo land package on Pearce Gulch.

The Shear Gold 12 and 13 claims are located on a subalpine ridge about 2.5 kilometres northeast of Yanks Peak, above the headwaters of French Snowshoe Creek. The claim block covers the Plateau D'Or occurrences (MINFILE 093A 099) in a galena and pyrite-bearing quartz vein system. The occurrences are described by Holland (1954). The area was explored by Suncor Incorporated Resources Group from 1981 to 1984 (Safton, 1984). Suncor's program included grid soil and geophysical surveys and geological mapping. Part of the area now covered by the Shear Gold 12 and 13 claims was then enclosed in the Astride claim in the Yanks Peak claim group.

The discovery of the Bonanza Ledge prospect near Wells in 2000 sparked a staking rush over the entire area underlain by correlative Barkerville sub-terrane stratigraphy. Most of this ground south of Barkerville, from Conklin Gulch to the Cariboo Hudson property, is currently controlled by Golden Cariboo Resources. The Shear Gold 12 and 13 claims lie at the southwestern tip of this land package.



LEGEND	
	Foliation
	Bedding
	Sample location
	Minfile occurrence
	Claim border

Golden Cariboo Resources  
 Figure 3 - Field Map  
 Shear Gold Claims 12 & 13  
 0 100 200 300 500m  
 SCALE BAR

## **5.0 2004 FIELD WORK**

The Shear Gold 12 and 13 claims were visited September 9, 2004 by John Childs of International Wayside Gold and John Bot, prospector, from Quesnel B.C. They took structural geological measurements and collected four rock samples for analysis. This work was an orientation traverse to get a preliminary idea of the setting and type of mineralization present on the Shear claims.

## **6.0 GEOLOGY**

### **6.1 Regional**

The Shear Gold 12 and 13 claims are underlain by metamorphosed and structurally complex Proterozoic to Paleozoic continentally derived sedimentary rocks of the Barkerville subterrane as defined by Struik (1988). The subterrane comprises metamorphosed quartzites, phyllitic argillites, siltites and schists with lesser carbonate and mafic volcanic rocks and associated metatuffs.

### **6.2 Property**

The claim block straddles a northwest-striking, east-dipping anticline that forms part of a parasitic fold on the east limb of the Lightning Creek anticlinorium. The mapping of Holland (1954) indicates that the anticline is cored by black silty quartzite, argillaceous schist and limestone, which he correlated with the Midas formation. The fold core is enclosed in rocks mapped as quartzite and conglomerate of the Snowshoe formation. Struik (1988) assigns these rocks to the Harvey's Ridge and Agnes successions respectively. {A concise history of stratigraphic nomenclature in this belt is provided by Schiarizza and Ferri (2003)}

Hematite rich clay alteration zones up to 20 feet wide were recognized in phyllite, siltite, and fine grained quartzite. This alteration is along faults that strike northwest and dip steeply. The alteration zones are weakly to moderately silicified and cm-scale quartz veins have been disrupted by later faulting.

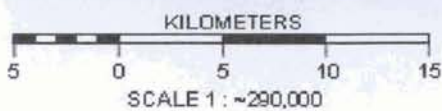
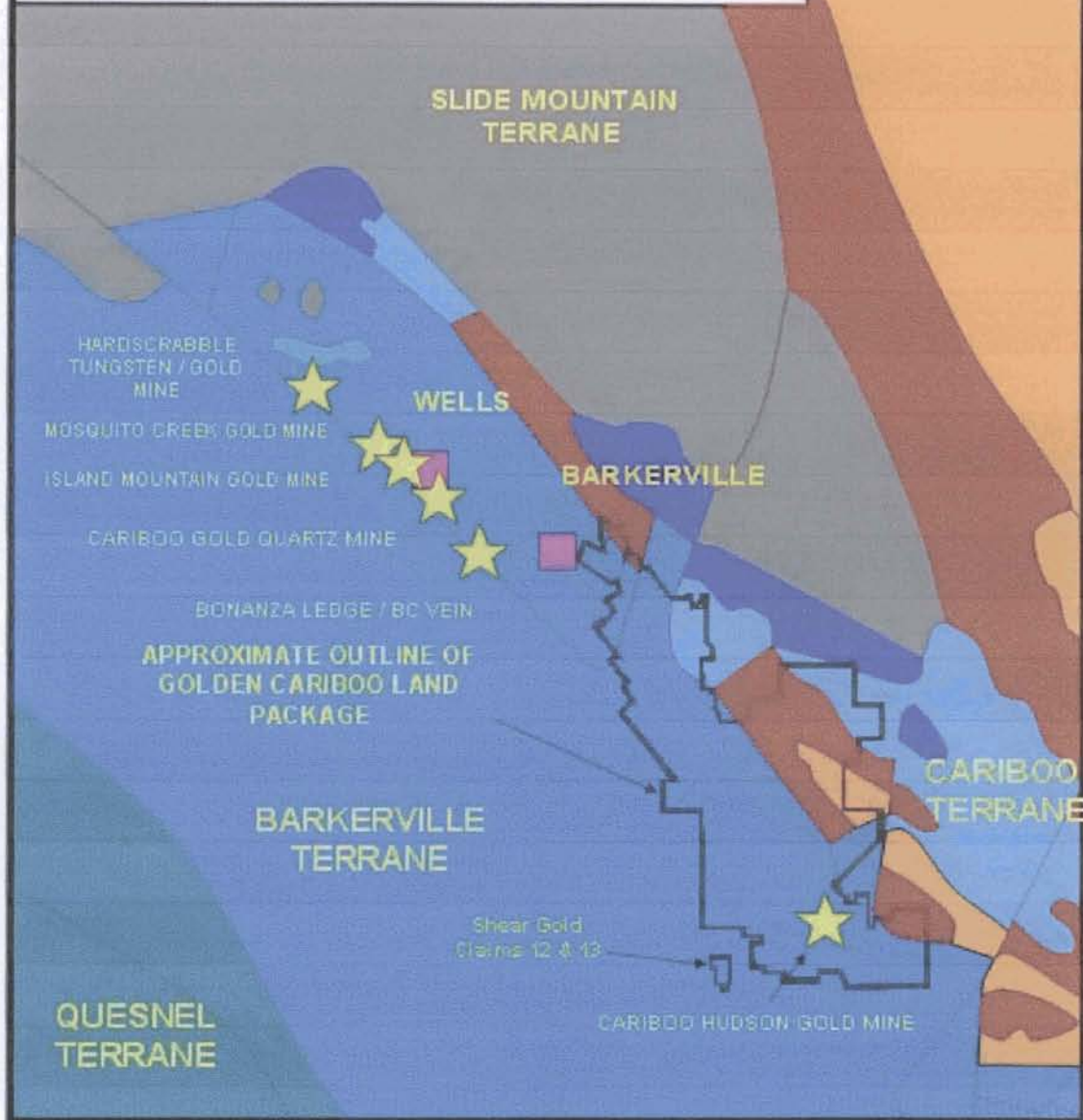
### **6.2 Mineralization**

Quartz veins of two types were recognized. The first and most common type are white quartz veins developed principally in quartzites. These have associated muscovite and appear to be barren of sulfides.

The second type of quartz veins consists of white to clear quartz breccias emplaced along fault zones and these have locally abundant clots of coarse grained galena, pyrite, and lesser sphalerite that comprise up to 10% of the vein. Some of these veins are explored by shallow exploration pits. Samples from these veins and fault zones contained up to 130 ppb gold, 3.4 ppm silver, 5482 ppm lead, and 3591 ppm zinc. Exposures of these veins in the areas visited is poor. They appear to strike northwest and dip steeply.

# GOLDEN CARIBOO PROJECT REGIONAL GEOLOGY

FIGURE 4



05/01/2002  
K. J. Land & Son

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

Additional sampling and mapping of the quartz veins and fault zones is recommended during the 2005 field season. The entire property should be mapped and sampled to determine the extent and tenor of both the mineralized quartz veins and the hematite-clay-quartz alteration in fault zones.

## APPENDIX I References

- Holland, S.S. (1954): Geology of the Yanks Peak – Roundtop Mountain Area, Cariboo District, British Columbia; *B.C. Department of Mines Bulletin* No. 34, 102 pages.
- MINFILE, B.C. (2005): Ministry of Energy and Mines website  
[www.em.gov.bc.ca/cf/minfile](http://www.em.gov.bc.ca/cf/minfile)
- Safton, David L. (1984): 1984 Explorations Activities, Cariboo Gold Project, Yanks Peak Area, August-September 1982, *B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report* 13663.
- Schiarizza, Paul and Ferri, Fil (2003): Barkerville Terrane, Cariboo Lake to Wells: A New Look at Stratigraphy, Structure and Regional Correlations of the Snowshoe Group; *BC Ministry of Energy and Mines, Geological Fieldwork* 2002, pages 77-96.
- Struik, L.C. (1988): Structural geology of the Cariboo Gold Mining District, East-Central British Columbia; *Geological Survey of Canada, Memoir* 421, 100 pages.

### APPENDIX III Geochemical procedures and results

#### Geochemical procedures

Rock samples were collected, tagged in the field, and placed in heavy weight plastic sample bags. They were shipped to EcoTech Laboratories in Kamloops, B.C. for multi-element ICP analysis.

Rock samples were 2 stage crushed to minus 10 mesh and pulverized to minus 140 mesh, rolled and homogenized. A 0.5 gram samples were digested with 3 ml of a 3:1:2 (HCl: HNO<sub>3</sub>:H<sub>2</sub>O) for 90 minutes at 95 degrees Celsius. Samples were diluted to 10 ml with water, and analyzed on a Jarrell Ash ICP unit. Quality control samples (repeats and standards) were run, and are included with Certificates of Analysis.

#### Sample descriptions

Tag #	UTM coordinates	Description
4651	606932E 5858505N	Representative grab sample in roadway of quartz veinlets with minor black oxide coatings, vein system about 5' wide in grey <sup>70</sup> quartzite <sup>30</sup> siltstone and minor graphitic argillite
4652	606948E 5858843N	In road, breccia zone exposed for about 20', oriented 303/85 SW, representative sample, FeOx cemented breccia, some black argillite frags, mostly quartzite frags, minor quartz veins, about 50% hematite and limonite zone, sampled zone at about 7' thick
4653	607086E 5858999N	Representative sample of 7' wide FeOx rich band crossing road, carbonate, limonite, hematite, in altered FeOx stained weakly silicified siltstone and fine gr quartzite, alteration zone orientation 330/90
4654	607153E 5859061N	Grab sample from small prospect pit, white quartz vein breccia, frags of quartzite, 15-20% rusty red weathering matrix with fg galena (up to 5mm) 3-5%, py <1%, ankerite, foliation in micaceous quartzite 345/35NE



Phone: 250-573-5700  
Fax : 250-573-4557

No. of samples received: 14  
Sample type: Rock  
Project: Cariboo Hudson  
Shipment: Not Indicated  
Samples Submitted by: John Childs/  
Brad Davies

Values in ppm unless otherwise reported

*Not on GC ground*

*Cariboo Hudson*  
*Shearbulk*

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
2	JC 164968	15	0.3	0.53	5	40	<5	0.94	<1	15	140	27	3.44	<10	0.39	636	6	0.01	31	510	160	<5	<20	32	<0.01	<10	9	<10	<1	47
3	BD 4638	15	0.2	0.46	<5	45	5	1.01	<1	8	151	13	2.18	10	0.18	365	3	0.02	20	260	154	<5	<20	23	<0.01	<10	5	<10	<1	35
4	BD 4641	5	0.2	0.06	<5	45	10	>10	<1	7	36	3	5.93	<10	5.66	1901	3	0.01	9	270	12	<5	<20	718	<0.01	<10	9	<10	<1	46
5	BD 4642	5	0.3	0.39	<5	50	10	>10	<1	23	32	23	6.85	<10	5.18	2113	4	0.03	9	540	36	<5	<20	390	<0.01	<10	56	<10	<1	80
6	BD 4644	5	0.4	0.03	<5	<5	<5	>10	<1	4	39	2	1.80	<10	0.76	549	2	0.01	8	310	6	<5	<20	1083	<0.01	<10	5	<10	33	14
7	BD 4634	5	0.2	0.16	<5	35	<5	3.09	<1	5	153	7	1.72	10	0.34	520	2	0.02	9	180	32	<5	<20	149	<0.01	<10	2	<10	8	26
8	BD 4635	5	<0.2	0.20	<5	35	<5	1.01	<1	10	161	18	2.63	10	0.32	588	2	0.02	19	260	22	<5	<20	50	<0.01	<10	4	<10	<1	46
9	BD 4648	5	0.4	0.02	<5	<5	<5	>10	<1	3	44	3	2.23	<10	0.67	1108	2	<0.01	5	160	22	<5	<20	1179	<0.01	<10	4	<10	22	12
10	BD 4650	10	1.3	0.25	<5	40	15	>10	<1	13	83	17	4.96	<10	3.09	1641	2	0.02	14	300	84	<5	<20	587	<0.01	<10	16	<10	3	535
11	JC 4651	130	0.3	0.06	45	10	<5	0.03	<1	<1	230	3	0.34	<10	0.01	45	2	<0.01	5	<10	6	<5	<20	4	<0.01	<10	<1	<10	<1	4
12	JC 4652	15	<0.2	0.38	20	75	5	0.02	<1	13	119	60	>10	<10	<0.01	84	29	<0.01	49	1420	28	<5	<20	6	<0.01	<10	11	<10	<1	445
13	JC 4653	5	0.2	0.57	<5	140	10	0.01	<1	20	74	85	>10	<10	0.04	96	11	0.01	83	490	6	<5	<20	3	<0.01	<10	45	<10	<1	591
14	JC 4654	5	3.4	0.07	<5	20	<5	3.21	45	8	161	4	2.42	<10	0.85	1633	3	0.02	14	280	5482	<5	<20	129	<0.01	<10	4	<10	<1	3591

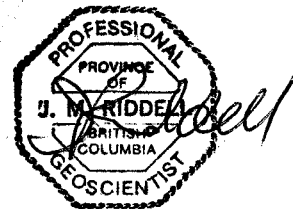
*not part of this report*  
*this report*

**QC DATA:**

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1	JC 164967	>1000	>30	0.11	680	50	30	0.59	15	40	161	8	7.73	<10	0.30	1547	<1	<0.01	39	110	>10000	20	<20	20	<0.01	<10	3	<10	<1	71
<b>Repeat:</b>																														
1	JC 164967	>1000	>30	0.09	545	45	15	0.64	12	33	121	6	6.56	<10	0.33	1473	3	<0.01	35	90	>10000	25	<20	23	<0.01	<10	2	<10	<1	74
<b>Standard:</b>																														
GEO '04		135	1.6	1.46	50	150	<5	1.33	<1	17	56	85	3.04	<10	0.80	561	1	0.02	27	660	22	<5	<20	57	0.07	<10	60	<10	10	74

**APPENDIX IV**  
**Statement of Expenditures**

<b>Geological consulting</b>		
John Childs	1 day @ \$605	\$605.00
John Bot	1 day @ \$200	\$200.00
	<b>Total geological consulting</b>	<b>\$805.00</b>
<b>Geochemical analyses</b>		
	4 rocks, multi element ICP	<b>\$90.27</b>
<b>Shipping</b>		
		<b>\$15.00</b>
<b>Equipment rental</b>		
Trucks	1 day @ \$50.00	\$50.00
Fuel		\$20.00
<b>Meals</b>	2 man-days @ \$30.00	\$ 60.00
<b>Accommodation</b>	1 days @ \$60.00	\$ 60.00
<b>Assessment Report</b>	2.5 days @ \$375.00	\$937.50
<b>Drafting and figures</b>	0.3 day @ \$200	<u>\$ 60.00</u>
<b>GRAND TOTAL</b>		<b>\$2097.77</b>
<b>Total amount applied for assessment</b>		<b>\$780.00</b>



**APPENDIX V**  
**STATEMENTS OF QUALIFICATION**

## Statement of Qualification

I, Janet Marian Riddell, do hereby certify that:

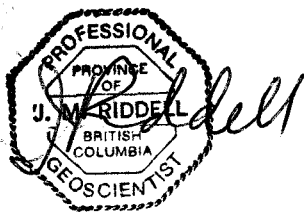
I am a geologist with over 20 years experience in the field of earth science in the Canadian Cordillera.

I hold a B.Sc. in geology from the University of British Columbia, Vancouver, BC (1984) and a M.Sc. in geology from the University of Montana, Missoula, Montana (1992).

I am a registered Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia, and I have maintained my membership in good standing since registration in 1993.

This report is based on fieldwork conducted by John Childs and John Bot on Shear Gold claims 12 and 13 on September 9, 2004. Sections 5, 6 & 7 were written by John Childs, and reviewed by me.

I have no financial interest in the Shear Gold property, which is the subject of this report.



Janet Riddell, P. Geo.  
Prince George, BC  
February 5, 2005

## Statement of Qualification

I, John F. Childs, do hereby certify that:

I am a geologist with over 30 years experience in the field of metals and industrial minerals exploration, property evaluation, exploration management, and mine geology in the Americas and Europe.

I hold a B.Sc. in geology from Syracuse University, Syracuse, N.Y. (1966); a M.Sc. from the University of British Columbia, Vancouver, B.C. (1969); and a Ph.D. from the University of California, Santa Cruz, California (1982).

I am a Registered Geologist in the states of California, Arizona, and Idaho and have maintained my registration in good standing since becoming registered in these states.

I have no financial interest in the Shear Gold property, which is the subject of the report.



Dr. John F. Childs, Registered Geologist  
109 Sourdough Ridge Road  
Bozeman, MT 59715  
February 5, 2005