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GEOLOGICAL REPORT  
ROI 1-4, BAR 1-2  
REVERTED C.G. LOT 1462,2300,  
2301,2646,2847,2865,30245  
AND WARD 1-4  
GREENWOOD MINING DIVISION  
BRITISH COLUMBIA

By

R.E. Gale, PhD., P.Eng.  
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N.T.S. 82E/7W

49° 28' N, 118° 53' W

Work Paid For By Emjay Enterprises Ltd.

September 10, 1997

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

25,160<sup>1/2</sup>

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SUMMARY

During 1997 Emjay Enterprises Ltd. optioned the Ward claims of Phelps Dodge Corporation and funded exploration of the Ward, ROI, Dan and several reverted Crown Granted claims in the Triple Lakes area of British Columbia.

All of the claims in the area were thus combined for exploration purposes to unify exploration of the whole area and promote a better understanding of the geology and geophysical results to find new targets.

This report gives an updated version of the general geology of the area and includes mapping this year of some of the old showings and new sample results. A separate but related accompanying report by Peter Walcott and Associates describes the 16 line - kms of IP survey completed during July 1997 on the western half of the property.

Several areas of anomalous soil geochemistry for Au, As, Zn and Cu are noted and recommended for follow-up work including detailed soil geochemistry and backhoe trenching, especially where comparison with the IP data suggests the presence of anomalous amounts of sulphide mineralization.

Further geological work including location of and detailed mapping and sampling of old workings on the properties is also recommended in addition to the detailed soil geochemistry and backhoe trenching.

The Roi, Dan and Ward claims cover a very favorable area for exploration for both higher grade vein-type and low grade disseminated gold deposits and further exploration in the area is strongly recommended.

(1.0) LOCATION - TOPOGRAPHY

The Roidan group of 26 and Ward Group of 80 claims is located about 20 kms east of Beaverdell B.C. and is accessible by good gravel roads. The claims are in the Greenwood Mining Division, NTS 82E/7W. The claims occupy the plateau area bounded on the east by the Kettle River valley and on the west by the valley of Crouse Creek.

The area consists of relatively gentle rolling upland with fairly open woods which have been partly logged off. Elevations range from 4000 to 4700 feet. Water is fairly abundant nearby, principally in a body of water known as Triple Lakes.

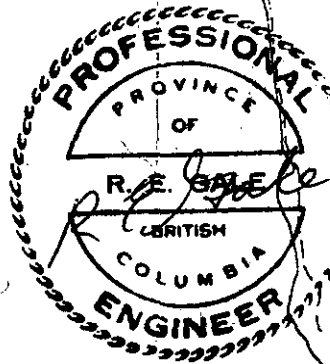
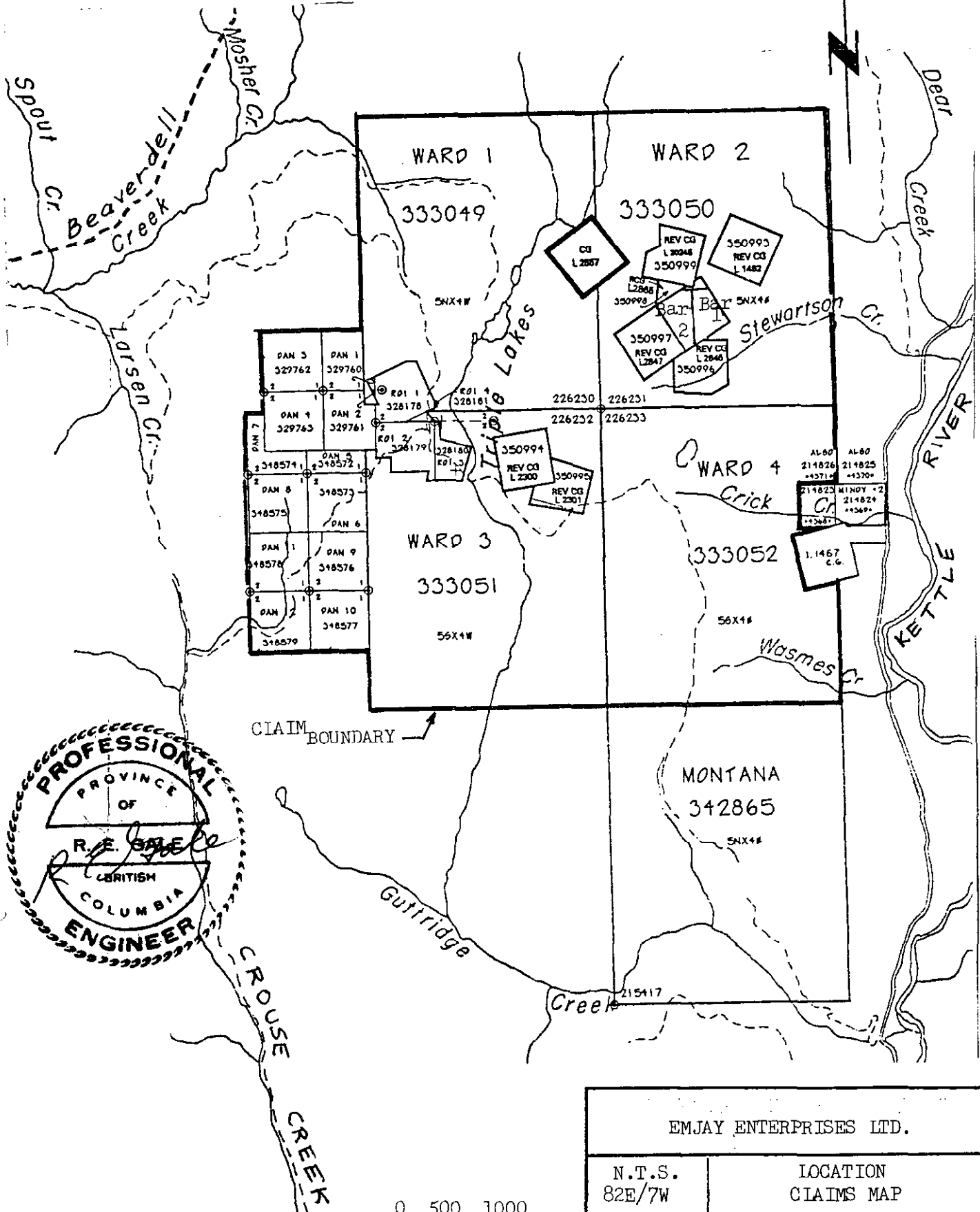
The location of the Roi-Dan and Ward groups of claims is shown in Figure 1.

(2.0) CLAIMS

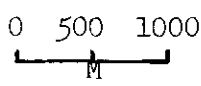
The owner of record of the Roi, Dan and reverted Crown Grant claims is R.E. Gale. The owner of record of the Ward 1-4 claims is Phelps Dodge Corporation of Canada Ltd.

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>TENURE NO.</u>	<u>ANNIVERSARY DATE *</u>
Roi 1-4	4	328178-81	July 18, 1999
Dan 1-4	4	329760-63	Aug. 9, 1999
Dan 5-12	8	348572-79	July 19, 1999
Bar 1,2	2	356866-67	June 26, 1999
Rev. C.G.s	7	350993-99	Sept. 30, 1999
Ward 1-4	80	333049-52	Dec. 8, 2000

\* With assessment credits received for the present geological and geophysical reports.



CLAIM BOUNDARY



R.E. GALE AND ASSOCIATES INC.

EMJAY ENTERPRISES LTD.			
N.T.S. 82E/7W		LOCATION CLAIMS MAP	
Scale 1 : 50,000	Date 09/97	Approved	File No. Figure 1

### (3.0) HISTORY

The Roidan and Ward groups of claims lie near the NW edge of the Horseshoe Mountain area which is the site of the old Barnato, Mogul and other old Crown Grants staked for gold in 1896-1898. Small gold shipments have been made to smelters from different claims over the years, including 5 tons from the OK-Ivanhoe in 1938, and 84.9 tons grading 1.58 opt Au from the Barnato claim also in 1938.

Since 1938 exploration has not been successful in finding any large mineable deposits in the area.

Following a small drill program on the Barnato claim in 1938 by Cominco, the next serious work in the area did not take place until 1965-66 when Amcana Gold Mines Ltd. also did some drilling on the Barnato claim. The results of the drilling have not been published.

In 1977 to 1991 Camnor Resources Ltd. did substantial work on several parts of the area including drilling 5 holes totalling 302.9 metres. Results are published on 4 percussion holes drilled in 1986. In 1992, working with Camnor, Teck Corporation carried out an examination and sampling program on the central part of the property.

In 1989 the Lucky Seven Group from Kelowna carried out a soil geochemistry program on what is now part of the Ward 4 claim area and were able to outline an interesting Au-As soil anomaly which was apparently not further tested.

In 1994 - 1995, Phelps Dodge Corporation of Canada Ltd. carried out a program of mapping, sampling, soil geochemistry, Induced Polarization survey and drilling of 3 diamond drill holes totalling 468.1 metres.

The present program of work began in May 1997 and was completed in mid July. Further work is contemplated as a result of the good results from the geological and geophysical work.

#### (4.0) REGIONAL GEOLOGY

##### (4.1) Rock Types

Figure 2 shows the Regional Geology of the area as taken from GSC Maps 15-1961 and 6-1957.

Unit 1, the oldest rocks in the area, are part of the Anarchist Group, believed to be of Carboniferous-Permian age. These are greywacke, greenstone, quartzite and limestone which are often strongly folded, faulted and metamorphosed to hornfels.

The Anarchist rocks are intruded by stocks of the Nelson Batholith ( 2 ) of Cretaceous age, principally granodiorite and quartz diorite.

Valhalla granitic intrusions ( 3 ), also probably of Cretaceous age, are younger than the Nelson intrusions.

Tertiary rocks of Unit 4 consist of sedimentary and volcanic rocks.









The Coryell intrusions ( 5 ) mainly syenite, are the youngest intrusive rocks and are of Tertiary age.

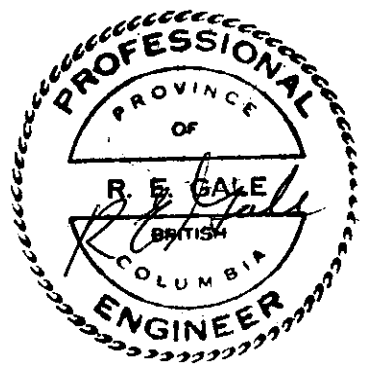
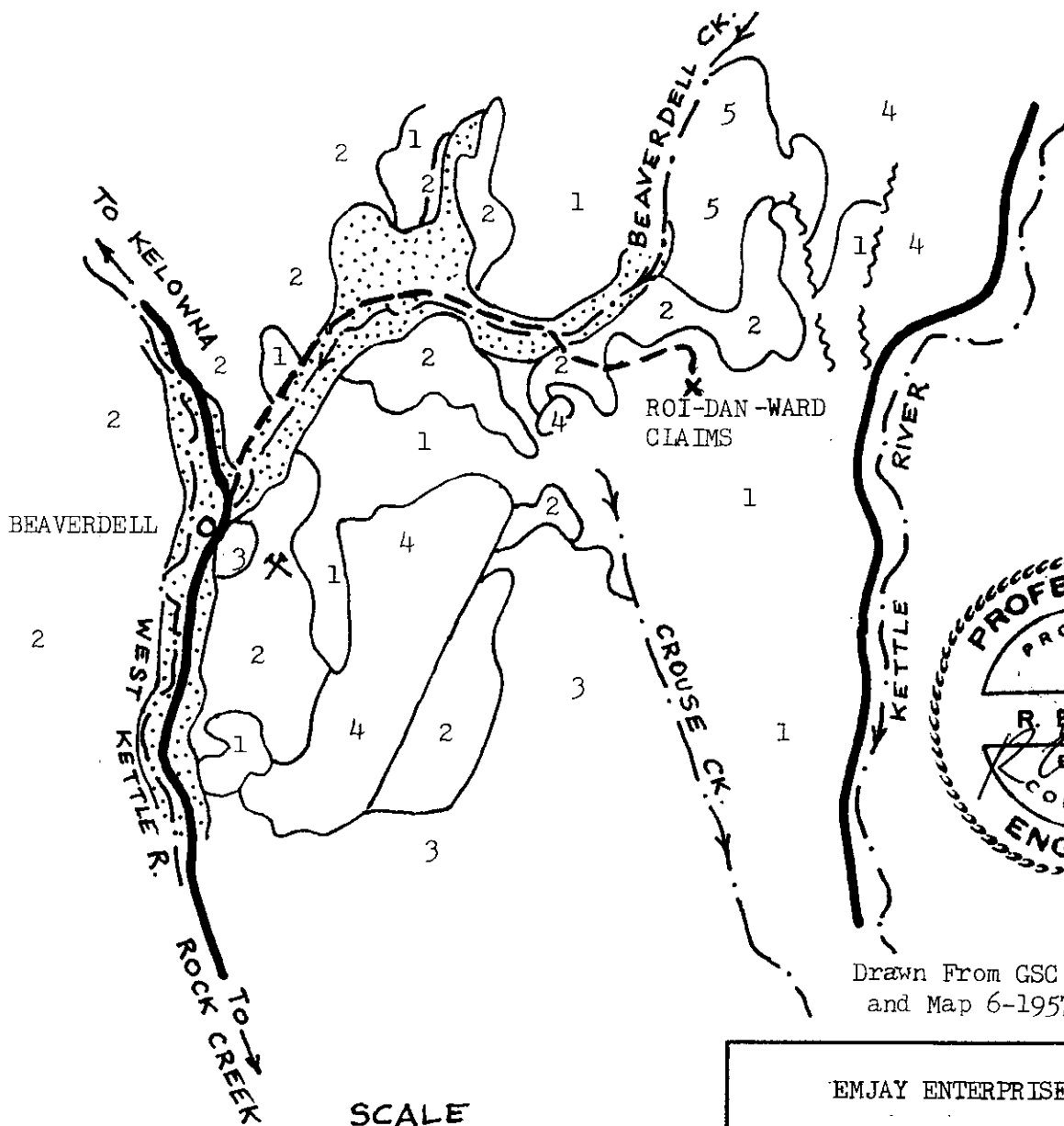
##### (4.2) Interpretation

The eastern side of the claims area in and along the Kettle River valley is bounded by northerly trending graben-type faults which have brought the Eocene-age sedimentary and volcanic rocks on the east into contact with the older rocks on the west.

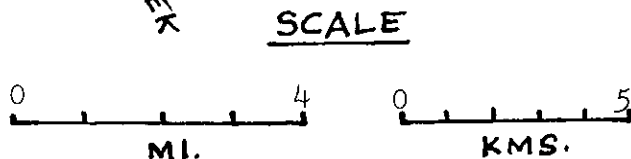
The Roi and Ward claims show similar geology to that of the Beaverdell area, the site of the Beaverdell silver mines. In both areas mineralization is associated with quartz and quartz-calcite-sulphide veins emplaced near contacts between middle Cretaceous Nelson intrusions and the Carboniferous-Permian Anarchist volcanic and sedimentary rocks. The veins at Beaverdell are silver-bearing while those on the Roi and Ward claims are gold-bearing.

LEGEND

-  REGENT Alluvium
-  5 PALEOCENE-EOCENE Coryell Intrusions - Syenite
-  4 PALEOCENE-EOCENE Congl. Ss. Shale Tuff
-  3 CRETACEOUS ? Valhalla Intrusions - Granite
-  2 CRETACEOUS ? Nelson Intrusions - Granodiorite, Quartz Diorite
-  1 PERMIAN ? Anarchist Gp. - Greenstone, Greywacke, Qtzt. Lms.
-  HIGHLAND BELL MINE
-  FAULT



Drawn From GSC Map 15-1961 and Map 6-1957



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EMJAY ENTERPRISES LTD.			
N.T.S. 82E /7W		REGIONAL GEOLOGY AND CLAIM LOCATIONS ROI-DAN-WARD CLAIMS	
Scale	Date 9/97	Approved	File No. Figure 2



#### (4.3) Regional Stream Sediment Anomalies

The Government regional stream sediment survey results are interesting in that they clearly show the anomalous nature of the claims area in relation to surrounding areas.

The results of interest are compiled below and the location of sediment samples is shown in Figure 3

Sample No.	Au-ppb	As-ppm	Sb-ppm	Zn-ppm	Pb-ppm	Cu-ppm
1231	2	2.5	0.3	60	11	32
1232	190	13.0	0.6	48	6	28
1233	36	83.3	1.6	57	9	178
1234	24	51.1	2.1	126	11	46
1244	2	6.3	0.4	91	12	15
1246	16	53.4	0.5	79	20	41
1247	36	64.5	1.0	250	14	126
9263	66	15.0	0.5	84	9	41
1248	10	20.0	0.8	340	13	66

These results demonstrate in samples 1232 and 1233 that the highest regional values for gold, arsenic and copper have their source in the claims area and point up the importance of exploration on these claims. High zinc and copper are also notable in samples 1234, 1247 and 1248, also pointing to the importance of exploration on the claims area on the west side draining into Crouse Creek.

#### (5.0) GEOLOGY - ROI and WARD CLAIMS

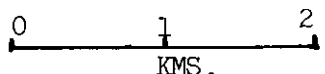
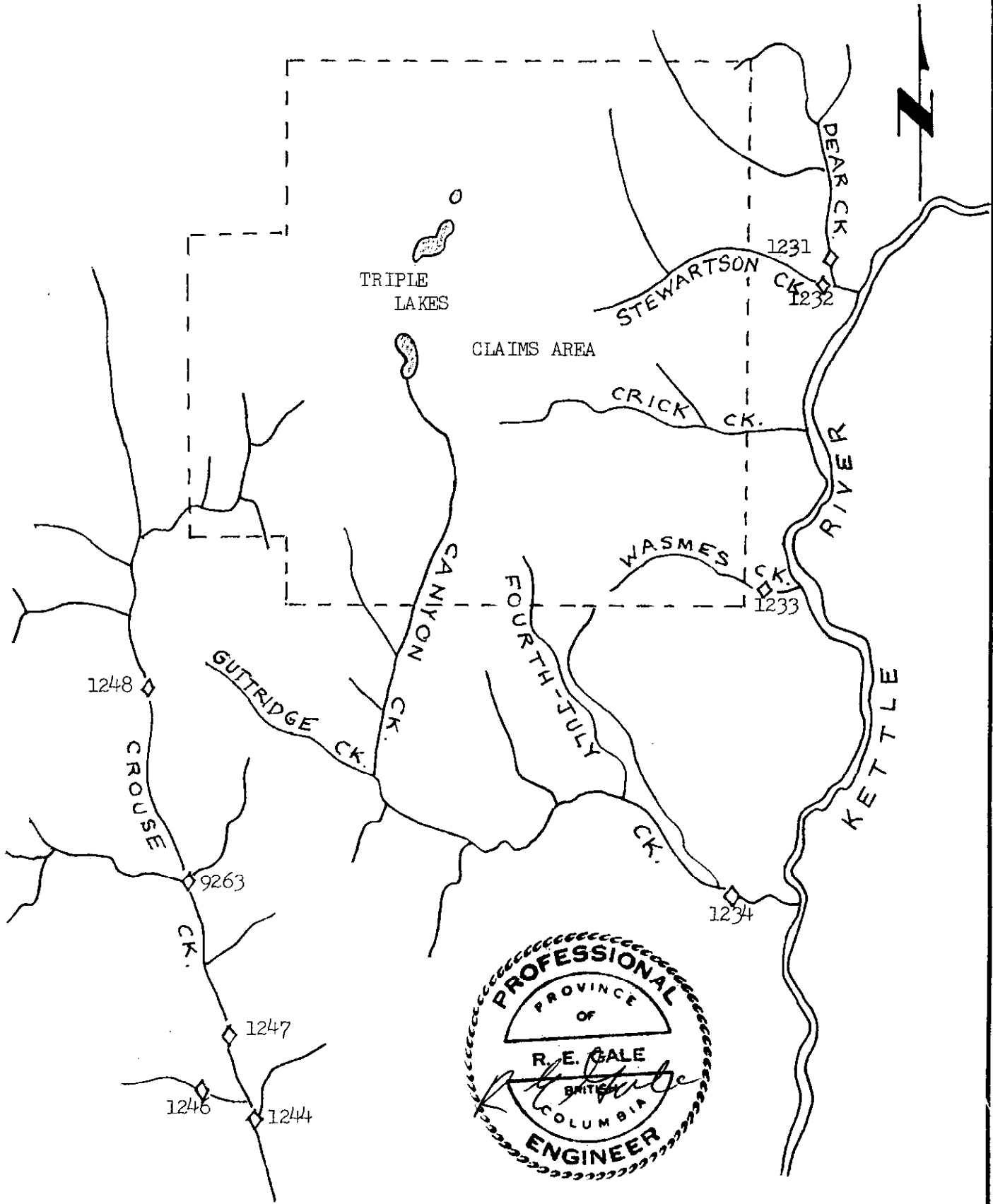
##### (5.1) Introduction

The Roi and Ward claims area is shown in Figure 4, which is partly derived and modified from work by Phelps Dodge Corporation.

Detailed geology in the OK-Ivanhoe, Boston and Crick Creek area is shown in Figures 5-7.

##### (5.2) General Geology

The claims area is located west of and bounded by an Eocene graben structure. The claims are mainly underlain by Carboniferous-Permian intermediate volcanic and sedimentary rocks intruded by middle Jurassic quartz diorite, diorite and granite and numerous younger andesitic dykes of probable Tertiary age. The northeastern edge of the property is within the Eocene graben and is underlain by Eocene Marron Formation rocks.



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N.T.S. 82E/7W		REGIONAL GEOCHEM.	
Scale 1 : 50,000	Date 9/97	Approved	File No. Figure 3

(5.3) Rock Types

(5.3-1) Anarchist Group - Carboniferous-Permian (CPsv)

The oldest rocks in the area consist of olive green cherty sediments, tuffs and conglomerates and quartzites interbedded with fine grained andesite tuff, porphyritic flow rocks and minor limestone.

(5.3-2) Hornblende Diorite (Cpi)

Hornblende diorite and quartz diorite intrusions and/or flow rocks which may be allied to but somewhat younger in age than the main part of the Anarchist rocks appear to grade into the older sedimentary and volcanic rocks in places and may be difficult to distinguish from the Anarchist rocks where they are recrystallized and altered. The dioritic rocks appear to be a good host for mineralization or are often associated with mineralized zones.

(5.3-3) Middle Jurassic Nelson Plutonic Rocks (mJi)

These rocks vary from medium to coarse grained equigranular hornblende-biotite granite and granodiorite. These rocks form a large stock of batholithic proportions at the northern end of the property along an east-west contact with the Anarchist rocks, with one or more projections to the south forming smaller stock-like masses in a north-south trending fault zone on the Roi claims.

(5.3-4) Tertiary Andesite Porphyry Dykes (Ta)

Dykes and sills of dark grey porphyritic andesite porphyry appear to be the youngest rocks in the area forming northerly to northeast trending intrusions several metres wide. In some cases these late intrusions are located near gold-mineralized zones and may be associated with the mineralizing event.

#### (5.4) Structural Geology

Figure 4 shows several inferred northerly trending faults which appear to be associated with some of the known mineralized vein occurrences such as the Ivanhoe, OK and Silver Dollar. These faults could be similar in age and structural control to those which control the location of the Highland Bell veins at Beavertell. Other veins such as the Boston and Barnato have a more east-west and northeast trend.

Crick Creek fault may be both pre and post mineral. In the northeast section of the property, the northerly trending faults bring Eocene age rocks in contact with the Carboniferous-Permian rocks so that the age of these faults is post-Eocene

#### (5.5) Alteration and Mineralization

Many of the veins at Triple Lakes occur close to contacts between intrusions and Anarchist rocks as is the case at Beavertell where most veins occur in the intrusive rocks close to the contact with Anarchist rocks.

Alteration of the Anarchist rocks close to intrusive contacts consists mainly of intense hornfelsing and/or silicification with addition of disseminated pyrite, chalcopyrite and sphalerite. Gold values appear to be associated mainly with pyrite, arsenopyrite and sphalerite in quartz-calcite veins, although there are also sections of quartzites with abundant pyrite which may or may not carry gold values. Some broad areas of silicification-pyritization carry anomalous amounts of Au, As and Zn in the 200-300 ppb Au range.

Alteration to a fine grained mixture of quartz, feldspar and clay minerals is seen near some intrusive contacts but the relationship of this type of alteration to sulphidization and gold values is not known at present.

#### (5.5-1) Main Gold Showings

At least eleven different old gold-bearing showings are known within the Triple Lakes area on the Roi and Ward claims and these showings are noted on Figure 4. The majority of the showings have yet to be located and re-sampled except for the Ivanhoe, OK and Boston.

### (1) Ivanhoe

A vein 0.3 to 1 metre wide is exposed in a north-south trending shear zone about 5 metres long in granodiorite. This is the site from which a 5 ton shipment of vein material was made in 1938 producing 3 ounces of gold.

A picked sample of mineralization from the vein, sample 25720 gave an assay of 10.3 g/t Au, > 10,000 ppm As and 50 ppm Bi.

A picked sample from a small dump of pyrite at the site, sample RS 4, gave an assay of 23.3 g/t Au, 64 ppm As and 216 ppm Bi.

### (2) OK Showing

A series of 3 pits along a north-south distance of 30-40 metres expose massive pyrrhotite mineralization along a shear zone in diorite. Low gold, zinc and copper values accompany the pyrrhotite.

Further data on the Ivanhoe and OK showings, now covered by the Roi claims, is included in the section on detailed geology, Figure 5.

### (3) Houston (Pan)

This showing is briefly described in Assessment Report No. 22396 as occurring in the southeast corner of the Pan 1 claim.

This location appears to lie close to what once was the SW border of the Houston C.G. claim and is now on the Ward 3 claim of Phelps Dodge.

Teck's sample 91-5B described as a grab from a rubbly breccia zone less than 3 feet wide, assayed 1.303 OPT Au, 0.17% As, 66 ppm Bi and 109 ppm Mo.

Approximately 100 metres north of 91-5B, Teck also sampled a small mineralized shear. A sample across 0.9 metres, sample 91-15 assayed 0.102 OPT Au, and a nearby dump of pyrite and pyrrhotite, sample 91-17 assayed 0.238 OPT Au.

The exact location of the above showings described in the Camnor report has not been found in the present work. A large area of strongly fractured dioritic intrusive rocks carrying some anomalous gold values does occur in this area and is described in more detail under the Boston showing, Figure 6.

### (4) Kingston

A picked sample from a dump of a tunnel at this location is noted in Assessment Report 20122 as assaying 0.226 opt Au. The showing has not yet been relocated in the present work.

(5) Boston

Picked samples of dump material from a shaft and tunnel dumps on this showing yielded values of 0.045 and 1.660 g/t Au.

The geology and sample results on this area as a result of new sampling are covered under the section on detailed geology, Figure 6.

(6) Mogul

Mineralization is pyrite, pyrrhotite and a little arsenopyrite in silicified quartz diorite in a zone a few inches to 2 feet wide. A sample taken in 1938 in the shaft across 28 inches assayed 1.68 OPT Au. Another small gold-bearing vein was traced on the surface for about 200 feet at a bearing of N 60 degrees east.

(7) Silver Dollar

Reinecke in GSC Memoir 79 notes that a shaft has been sunk on the Silver Dollar claim in a 5 foot wide shear zone in Wallace (Anarchist) rocks near a granitic dyke. The shear zone strikes north and dips vertically. A dump near the workings is said to have mineralized material, pyrite, pyrrhotite and arsenopyrite assaying \$16.40 in gold and 6 ounces of silver per ton.

(8) Barnato

The principal zone is an irregular narrow fissure which strikes north 35 degrees east and dips 70 degrees southeast for a length of about 300 feet. At the southern end of the zone, the vein was said to be about 12 feet wide in quartz diorite. Arsenopyrite, pyrrhotite, pyrite, sphalerite, chalcopyrite and galena are all present in the mineralization, which in part is localized along the contact between intrusive and andesitic volcanic rocks.

Assessment report 22396 notes that in 1938 2 cars of hand sorted ore totalling 84.9 tons were shipped to the Tacoma smelter and showed a grade of 1.58 OPT Au and 10.17% As.

(9) Mame

BCMM report 1938, page D21 describes 3 east-west trending zones of silicification in quartz diorite a few inches to several feet wide which carries disseminated pyrite and pyrrhotite. Dump samples graded 0.52 to 1.68 opt Au. A chip sample across 4 feet assayed 0.22 opt Au.

## (10) Hackla

The mineralized zone in quartz diorite is 3-4 feet wide trending NE and is cut off by a dyke. According to BCMM., 1938 material on the dump assayed 0.24 and 0.38 opt Au.

Another zone 1-2 feet wide trending east has a shaft sunk on it and shows similar grade material.

## (11) Kaffir King

No description has been found for the showing on this claim which is located about 200 metres southeast of the Barnato claim however Assessment Report 22936 notes that 2 samples from here, No. BM 7 and BM 8 assayed 5252 ppb Au, 8726 ppm As and 2245 ppb Au and 4491 ppm As respectively. No description of samples is given in the report.

## (12) Highland Mary

Associated with a zone of porphyry dykes is a 1-2 foot wide zone of arsenopyrite veins trending NE which can be traced along strike for 60-70 feet. A sample across 8 inches of arsenopyrite, pyrrhotite and pyrite assayed 0.5 opt Au, according to BCMM 1938.

Showings 6 through 12 have not been relocated during the present survey. These showings should be relocated, mapped and sampled in order to relate them to the recently completed geochemical and IP surveys.

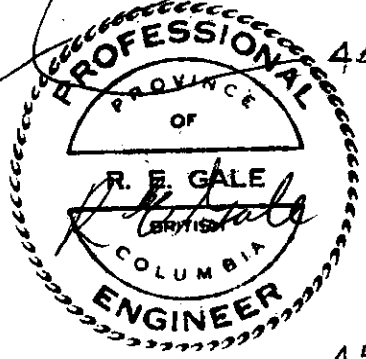
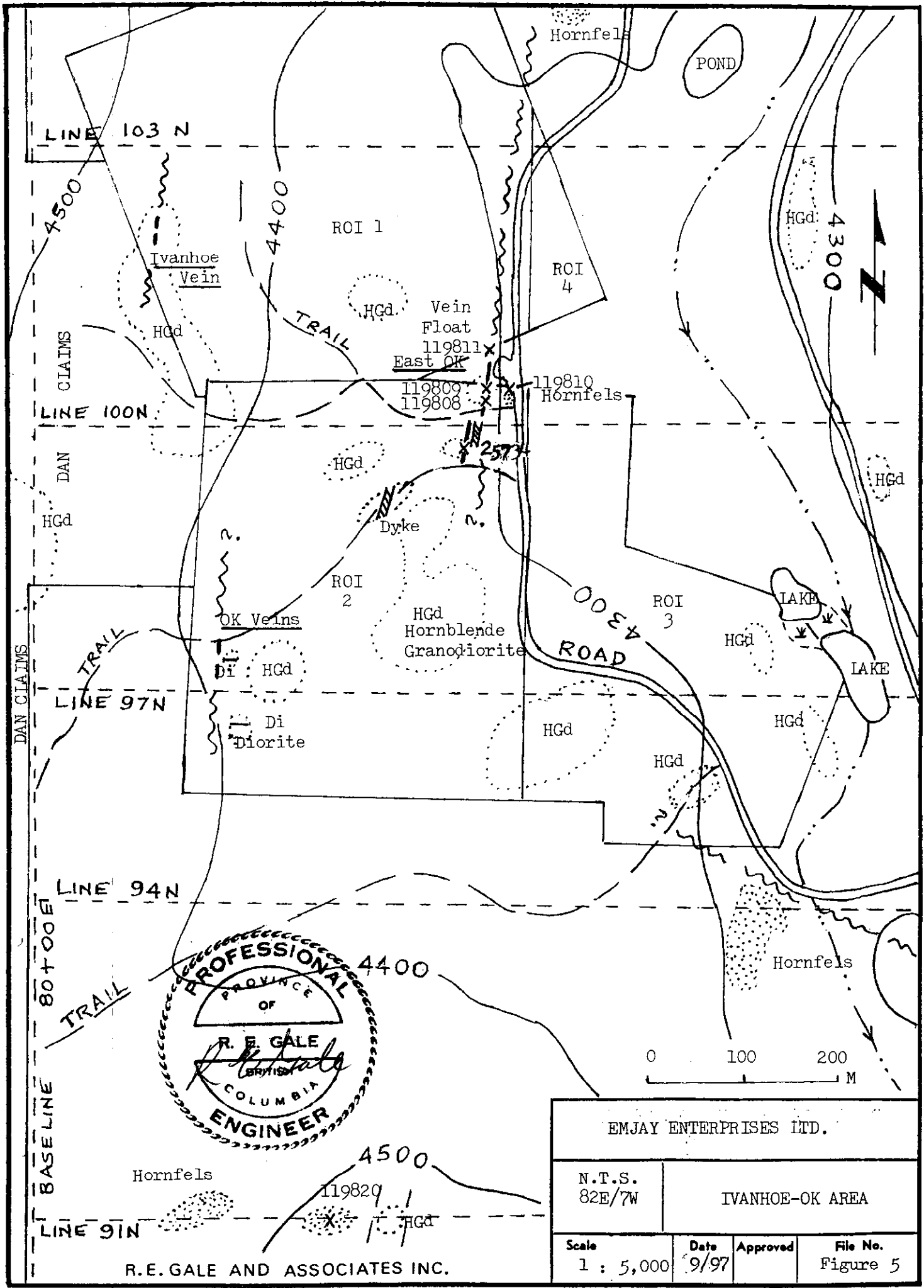
(5.5-2) DETAILED GEOLOGY(1) Ivanhoe - OK Area

The geology and new sample results in the Ivanhoe - OK area is shown in Figure 5.

The major rock type in the area is hornblende-biotite granodiorite of middle Cretaceous age which is in fault contact with strongly pyritized hornfels of the Anarchist Group, probably originally quartzite.

At least 2 north-south shear zones which are partly replaced by quartz-sulphide mineralization cut through the centre of the area. The Ivanhoe showing located near the NW corner is exposed as a 0.5 metre wide quartz-chalcopyrite-pyrite-galena vein carrying gold values up to 0.75 opt Au, as determined in earlier work. It may extend with offset to the OK showing about 900 metres south which consists of 3 pits along a 30 metre length of sheared diorite showing 1-2 metre pods of steep dipping pyrrhotite carrying low gold values of 60-305 ppb Au.

The East OK showings consist of 2 areas of pits along a NNE trend about 70-80 metres long. The south pit dump was grab sampled in 1995, sample 25734, which assayed 2320 ppb Au,



EMJAY ENTERPRISES LTD.			
N.T.S. 82E/7W		IVANHOE-OK AREA	
Scale 1 : 5,000	Date 9/97	Approved	File No. Figure 5

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The north pit, about 60 metres NNE was dump sampled, a grab sample 119808 showing 3.11 g/t Au.

Other samples taken in the area and shown on Figure 5 are described below:

Sample No.	Description	g/t Au	ppm As	ppm Zn	ppm Pb
119809	Dump Quartz Vein	0.2 g/t	66	14	2
119810	Pyritized hf.	<0.005g/t	<2	40	4
119811	Qtz.vein float	<0.005g/t	2	16	<2
119820	White clay alt w/ ox. pyrite	0.005g/t	26	284	104

Sample 119820 is taken from old pits on outcrop on Line 91N at the south end of the area shown in Figure 5. The sample was taken about 25 metres west of an outcrop of highly altered dyke. The altered zone may be the southward continuation of the fault zones seen on the Roi claims and the very high Pb and Zn values suggest that this is a zone deserving trenching and sampling beneath the oxidized zone.

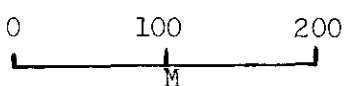
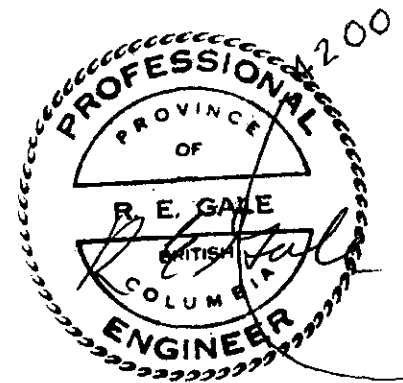
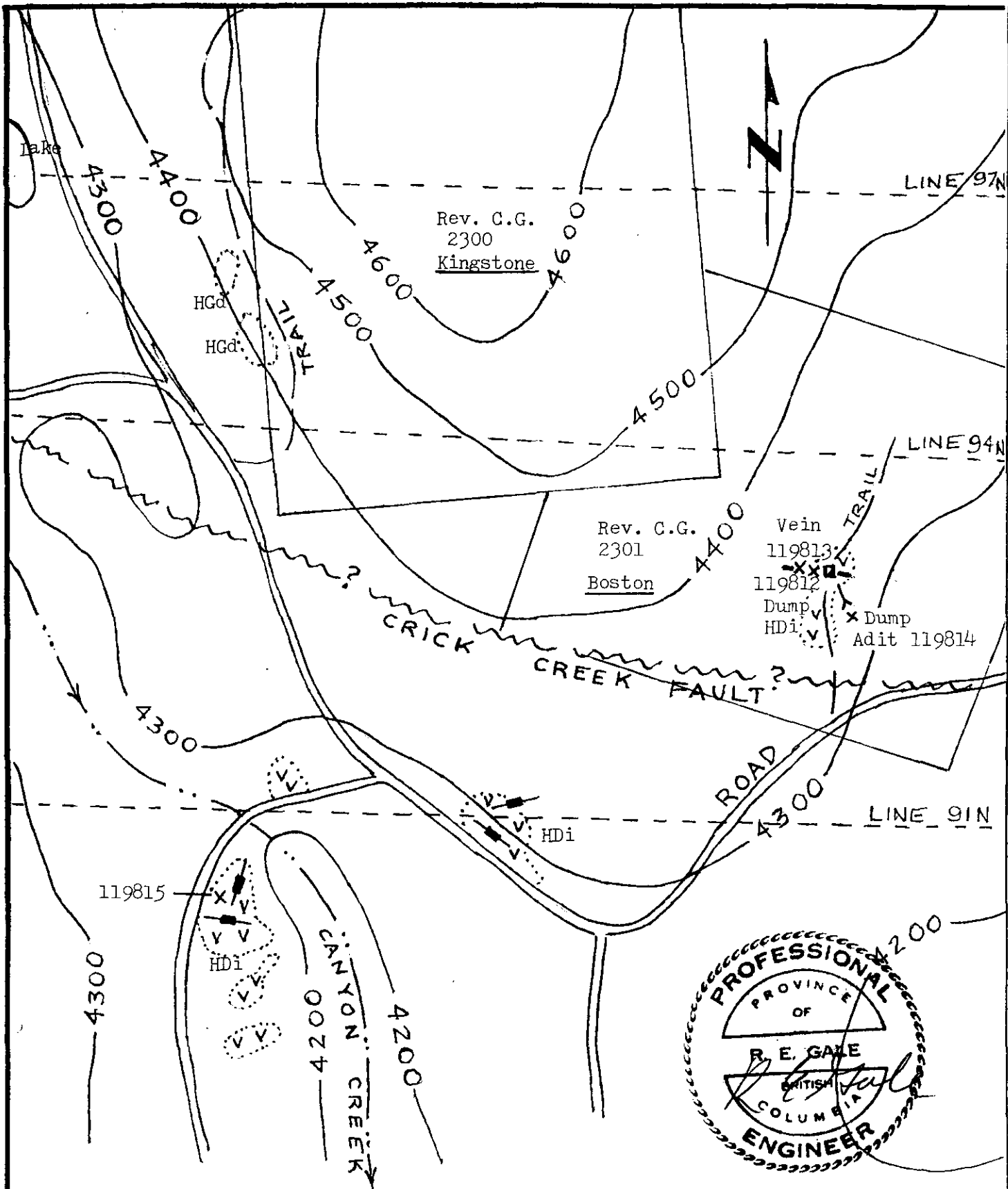
## (2) Boston Area

The Boston area is shown in Figure 6. It probably includes part of the Houston showing described in Camnor Resources Assessment Report No. 22396.

The Boston workings include a shaft, open cut and NW-trending adit located about 40 metres SE of the shaft which appear to explore an east-west trending quartz vein about 0.3 metres wide.

The host rock for mineralization here is pyritized hornblende diorite which appears to form sills interlayered with thin beds of dense green chert. The chert appears to be barren in this area. Samples taken were as follows

Sample No.	Description	g/t Au	ppm As	ppm Zn	ppm Pb
119812	Dump-Diorite w/py.	0.045	<2	10	<2
119813	Select vein-dump	1.660	16	6	2
119814	Adit dump-select	0.165	6	26	2
119815	Pyritized, oxidized Diorite(Houston area)	0.145	34	8	<2



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N.T.S. 82E/7W		BOSTON AREA	
Scale 1 ; 5,000	Date 9/97	Approved	File No. Figure 6

Sample 119815 was taken over a 25x25 metre area of strongly fractured and oxidized diorite which is located on or near what was the old Houston Crown Granted claim. The area of better gold values described by Camnor in Assessment Report 22396 is probably in this area but recent dozer work appears to have concealed the locations of the old showings described in the Camnor report.

The intrusive rocks in the area of Figure 6 are all pyritized diorite interlayered with volcanic and sedimentary rocks of the Anarchist Group. The dioritic rocks appear to be anomalous in gold values where they are fractured and pyritized.

Strongly fractured zones with heavy concentrations of pyrite may exist within the area of Figure 6 and could contain better gold values than found at present. If covered areas here show anomalous IP chargeability they could be a favorable target area for a large low grade zone of gold mineralization amenable to open pit mining.

### (3) Crick Creek Area

Figure 7 shows the Crick Creek area which is an area of strong east-west shearing and faulting of possible pre and post mineral age.

This area is also of interest because of the anomalous gold values obtained in Phelps Dodge diamond drill hole 95-3 and the significant gold value they obtained in the outcrop in the drill area. Phelps Dodge outcrop sample number 49483 ran 1890 ppb Au and in the drill hole from 55-65 m, 10 metres averaged 354 ppb Au. Another section from 78-86 m, 8 metres averaged 461 ppb Au.

A sample of the pyritized quartzite outcrop directly west of the drillsite, sample 25760 showed little gold while a sample near an east-west shear zone south of drill hole, 25759, did show anomalous gold. A picked sample of a narrow east-west sulphide vein exposure, sample 119817 also showed an interesting gold value but another east-west quartz vein sample, 119816 was barren of gold values. Sample results are as follows:

Sample No.	Description	g/t Au	ppm As	ppm Zn	ppm Pb
25759	Pyritized qtzt.	0.150	190	22	<2
25760	Pyritized qtzt.	0.010	6	28	<2
119816	0.3M Qtz. vein	<0.005	<2	44	2
119817	Picked vein-float	1.485	2580	48	14

Further investigation of the new mineralization found at sample site 119817 is warranted. The wide zones of anomalous gold values in DDH 95-03 may be associated with a particular rock type which should be identified and mapped out in further surface work.

Rev. C.G. 2646

119816

Qtzt

119817

Qtzt

4500 LINE 100N

4400

4300

4200

4100

4000

4000

4000

3900

LINE 97N

Rev. C.G. 2301

LINE 94N

Qtzt

25760

Qtzt

PD DDH 95-03

PD Sample 49483

ROAD

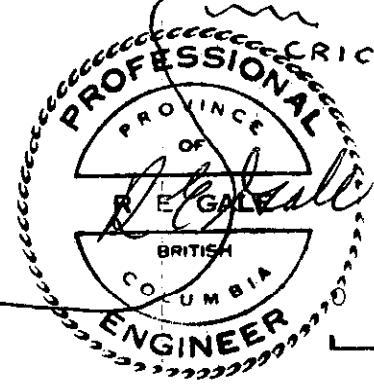
Qtzt

CRICK CREEK

CRICK CREEK FAULT

Qtzt

25759



100 200

Metres

R.E. GALE AND ASSOCIATES INC.

EMJAY ENTERPRISES LTD.

N.T.S. 82E/7W

CRICK CREEK AREA

Scale	Date	Approved	File No.
1 : 5,000	9/97		Figure 7

**(6.0) SOIL AND ROCK GEOCHEMISTRY**

Approximately 80% of the property was covered by broad-spaced soil geochemistry by Phelps Dodge on east-west lines at 150 to 300 metre intervals. Numerous rock geochemical samples were also taken of sulphide-bearing rocks. The results of this work are summarized in Assessment Report 23,835 by Phelps Dodge Corporation.

Arsenic values in soils range from 2 ppm to 1385 ppm with a median value of 13 ppm. Au values range from 3 ppb to over 600 ppb and values greater than 25 ppb appear to be of interest for purposes of follow-up work.

Contouring of the soil geochemical values for gold and arsenic appear to show predominantly northeasterly trends in the eastern half of the property and northerly trends in the western half. These trends are probably related to the prominent structural contacts between intrusives and Anarchist rocks in the east and the inferred northerly trending faults with related mineralization in the west.

On Figure 4 the most interesting areas of anomalous gold-arsenic and zinc in soils which are deserving of followup detailed geochemical soil sampling and possibly backhoe trenching are noted along the soil lines sampled by Phelps Dodge. These proposed trench areas become even more significant if there are associated IP chargeability anomalies, a point which is the subject of the separate IP report.

A total of 11 areas warranting detailed geochemistry and possibly trenching are noted on Figure 4. A description of each of these areas is as follows:

**(1) Line 100N - 8300 to 8400 E**

Three pits along a 10 metre long north-south trend show a 0.3 - 1 metre wide quartz vein in granodiorite just west of a contact with strongly pyritized hornfels. A sample 119808 from the dump assayed 3.11 g/t Au. while another sample 5 metres north of the first, 119809 assayed 0.2 g/t Au. A related vein exposure about 80 metres southwest of the first pit, sample 25734, taken in 1995 from a dump here assayed 2320 PPB Au. Trenching is required here to explore the vein continuity and expose its full width.

**(2) Line 94N - 8150 to 8300 E**

This is a covered area with one soil sample showing 94 ppb Au, 7 ppm As and 53 ppm Zn and another sample 5 ppb Au, 38 ppm As and 305 ppm Zn. The area lies south along an inferred fault trend from a series of 3 pits 25 to 100 metres north showing massive pyrrhotite mineralization with anomalous Au, 60 to 305 ppb Au, and Cu, 307 to 855 ppm Cu. This area should be trenched to expose the structure for sampling.

(3) Line 91N - 8300 to 8800 E

This is a partly covered area centred on a large dyke surrounded by altered-pyritized rock. A soil sample at 8300E shows 2 ppb Au, 18 ppm As and 230 ppm Zn. Samples at 8650 to 8800 E showed 77 to 220 ppb Au, 19 to 26 ppm As and 68 to 103 ppm Zn. A grab sample of oxidized white clay-altered rock at 8325E (sample 119820) in an area of very old pits assayed 0.005 g/t Au, 26 ppm As, 284 ppm Zn and 104 ppm Pb. This area requires detailed soil sampling and trenching to expose the total extent of the altered and mineralized zone.

(4) Line 109N - 10,950 to 11,200 E

This area lies NE of the Barnato showings area and south of the Highland Mary showings at the possible intersection of 2 favorable mineralized trends. At 10,950E the soil values are 100 ppb Au, 5 ppm As and 98 ppm Zn. This area requires detailed soil sampling and possibly trenching.

(5) 10,725N - 10,800 E

At this point about 125 metres southwest of point (4) described above, a rock sample of coarse quartz vein material collected by Phelps Dodge assayed 4840 ppb Au, 4834 ppm As, 831 ppm Zn and 2795 ppm Cu. Detailed soil sampling should be done here as part of the sampling around point (4). Trenching may also be warranted here.

(6) Line 103N - 9850 to 10,400 E

At this point there is a broad distinct Zn,As,Cu geochemical anomaly with one Au value of 24 ppb Au. Zn assays are 86 to 535 ppm, As 13 to 84 ppm and Cu 17 to 88 ppm. This area requires a detailed soil geochemical survey.

(7) Line 103N - 10,650 to 10,750 E

This area lies on trend to the southwest of the Barnato showing. Two samples assayed 38 and 130 ppb Au. Detailed soil sampling and possibly trenching are required here.

(8) Line 97N - 10,000 to 10,200 E

This area shows Au values from 19 to 160 ppb Au, As values from 23 to 72 ppm and Zn values from 58 to 125 ppm. It should be sampled in detail on a small grid and possibly trenched.

(9) Line 97N - 10,700 to 10,950 E

The soils in this area shows Au values from 39 to 960 ppb Au, As values from 84 to 905 ppm As and Zn values from 64 to 115 ppm Zn.

Rock samples taken by Phelps Dodge of quartz vein material in oxidized diorite near 9500 to 9600 N, 10,750 E showed values of 83 to 281 ppb Au, 18 to 39 ppm As and 23 to 311 ppm Cu.

The surrounding area should be soil sampled on a close grid and the area should be trenched with a backhoe.

(10) Line 85N - 11,500 to 11,900 E

This area lies to the southwest of the Maybe and Trapper claims from which shipments totalling 80 tons of mineralization were made in 1938 grading approximately 0.76 opt Au, 0.96 opt Ag, 0.15 % Cu, 0.45 % Zn, 1.90 % As and 37% Si. (BCMM 1938, page D23).

Soil values along THE 85N line here show variable low gold and arsenic values with spot highs at 11,500 E, 61 ppb Au, 27 ppm As and at 11,900 E, 410 ppb Au, 503 ppm As, 88 ppm Zn, 550 ppm Cu and 1.5 ppm Ag. This area should be soil sampled in detail and the highest Au-As-Zn-Cu-Ag areas trenched.

(11) Line 82N - 9900 to 10,050 and 10,250E

Soil values here show 27 to 83 ppb Au, 128 to 325 ppm As and 43 to 90 ppm Zn. A picked sample of mineralization, (P.D.sample 48928) taken from a small pit at 8025N - 9810E, about 200 metres SW of area (11) assayed 99999 ppm As and 38,700 ppb Au.

A picked sample from another pit at 8350N - 9850E, about 250 metres NW of area (11) (P.D.sample 49608) assayed 36,919 ppb Au, 73,512 ppm As, 13.1 ppm Ag, 104 ppm Pb, 587 ppm Sb and 36 ppm Bi. Both the pits sampled by Phelps Dodge may lie along the same structure.

In the report by Mitchell, 1989, Assessment report 19,157, a gold-arsenic anomaly 50-100 metres wide is described which extends NW and SW of line 82N near 10,250E for about 70 metres in both directions. Anomalous soil values for gold range from 50 to over 1000 ppb.

On Mitchell's 0N line at stations 4+80 to 5+60 W, the following soil values are noted:

	Au ppb	Au g/t	As ppm
4+80W	25	.025	98
5+00W	90	.090	392
5+20W	515	.515	401
5+40W	>1000	1.150(0.034 Opt)	990
5+60W	60	.060	189

The Phelps Dodge and Mitchell gold anomalies are partly coincident. Both these anomalous areas near line 82N should be soil sampled in detail and trenched with a backhoe.

(7.0) PHELPS DODGE DRILL HOLE RESULTS

All 3 diamond drill holes drilled by Phelps Dodge in 1995 showed significant sections of anomalous gold values with a 1 metre-wide section in 95-2 assaying 0.16 opt Au. The significant results are as follows:

DDH 95-1

Depth Metres	Interval Metres	Average ppb Au
10 - 14	4	279
35 - 36	1	402
132 - 135	3	476
141 - 152	11	226

DDH 95-2

Depth Metres	Interval Metres	Average ppb Au
27 - 29	2	281
64 - 65	1	5389 (approx. 0.16 opt Au)
127 -129	2	831 (approx 0.025 opt Au)
152 -153	1	244

DDH 95-3

56 - 59	3	886 (approx 0.027 opt Au)
78 - 82	4	767 (approx 0.023 opt Au)
92 - 93	1	326

The average grade of the interval from 55 - 86 metres, 31 metres in 95-3 is 241 ppb Au.

Small peices of core were taken for check assays from DH 95-2 to determine how uniform the gold values might be..

A sample from 56.9 metres, sample 119818 assayed <0.005 opt Au compared with 14 ppb Au in the P.D. sample for the whole interval, 56 - 57 metres.

A sample at 127.2 metres, sample 119819 assayed 0.500 g/t (500 ppb Au) compared to 1135 ppb Au in the P.D. sample for the whole interval 127 - 128 metres.

These check sample results suggest that the gold values are fairly uniform over the individual one metre widths sampled by Phelps Dodge and that their results are reliable.



(8.0) DEKALB DRILL RESULTS

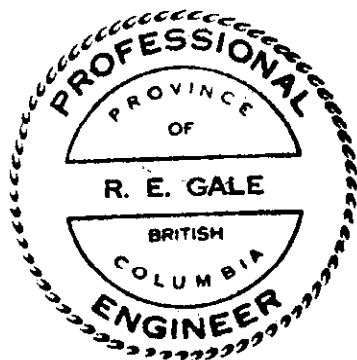
The report by Mitchell, 1989, suggests that Dekalb Corporation drilled two holes DK-1 and DK-2 at the locations shown on Figure 4 in 1971. Mitchell also states, page 4, that one of the holes (DK-2) intersected approximately 0.5 opt Au. over an interval of 2.5 feet. There is no published confirmation of this information so that it must be treated with caution, but it may be worth investigating further.

(9.0) CONCLUSIONS AND RECOMMENDATIONS

The Roi and Ward claims cover an area which is very favorable for exploration both for higher grade vein and low grade disseminated gold deposits. Anomalous gold and arsenic values in the Anarchist Group rocks are widespread and have been tested by drilling in only very small areas.

After comparison with the IP results to confirm the most favorable areas of high chargeability the areas showing the best anomalous soil values in conjunction with areas of high chargeability from the IP survey should be covered by detailed soil surveys followed by backhoe trenching where soil cover appears to be shallow. At least 12 areas deserving further work are noted in this report as marked on Figure 4.

Further mapping and sampling of sulphide-rich outcrops and old showings is warranted to give better information on the controls of gold mineralization especially where these old showings are also related to the new anomalous geochemistry - chargeability zones.



*R. E. Gale*  
 R.E. Gale, PhD., P.Eng.  
 September 10, 1997

(10.0) REFERENCES

- Fox, Peter E., 1994 - Assessment Report 23,835
- Fox, Peter E., 1995 - Assessment Report 24,307
- Gale, R.E., 1995 - Assessment Report 23,969
- Gewargis, W.A., 1986 - Assessment Report 14,952
- MacLeod, J.W., 1980 - Assessment Report 8703
- Mitchell, D.C., 1989 - Assessment Report 19,157
- Visagie, D., 1990 - Assessment Report 20,122
- Visagie, D., 1992 - Assessment Report 22,396
- Vulimiri, M.R. 1989 - Assessment Report 19,524

(11.0) COST STATEMENT

Field days - R.E. Gale - 8 days @ \$400 per day.....	\$3200.00
Accommodation and Meals.....	533.52
Truck Rental - 8 days @ \$50.00 per day.....	400.00
Fuel and oil.....	148.08
Miscellaneous Expenses.....	162.65
Assays.....	271.38
Report - 3 days @ \$400 per day.....	1200.00
GST on \$4400 x 7%.....	308.00
	-----
Total	\$6223.63

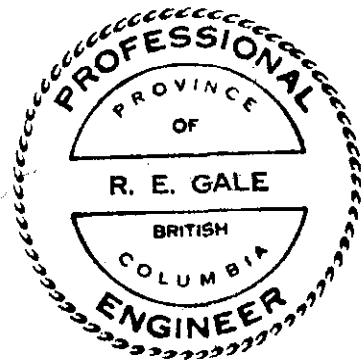
Of the total amount of \$6223.63, \$1904.54 is apportioned to the ROI 1-4 (328178-81) and Dan 1-12 (329760-63 and 348572-79) claims (16 units-Roidan Group).

The amount of \$4319.09 is apportioned to 7 reverted Crown Granted claims, (350993-99) the Bar 1-2 (356866-67) and Ward 1-4 claims (333049-52) ( 89 units-Ward Group).

CERTIFICATE

I, Robert E. Gale do hereby certify that:

- (1) I am a consulting geologist with R.E. Gale and Associates Inc. with my office at 107 - 2274 Folkestone Way, West Vancouver, B.C.
- (2) I graduated from Stanford University with a PhD. in Geology in 1965.
- (3) I have been practising my profession as a geologist for forty two years.
- (4) I have been a member in good standing with the Association of Professional Engineers and Geoscientists of B.C. since 1966.
- (5) This report is based on my personal examination of the ROI and WARD groups of claims on several days in May, June and July, 1997 and a review of data on the area.
- (6) I am the recorded owner of the ROI 1-4, Dan 1-12, Bar 1-2 and 7 reverted Crown Granted claims in the area.



*R E Gale*

R.E. Gale, PhD., P.Eng.  
Sept. 10, 1997

APPENDIX



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GALE, R. E.

107 - 2274 FOLKESTONE WAY  
 WEST VANCOUVER, BC  
 V7S 2X7

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 08-AUG-95  
 Invoice No. : I9523513  
 P.O. Number :  
 Account : CNF

Project :  
 Comments:

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25731	205 226	25	0.2	1.49	52	40	< 0.5	< 2	1.61	< 0.5	16	122	72	3.76	< 10	< 1	0.11	< 10	0.57	645
25732	205 226	< 5	< 0.2	2.55	< 2	80	< 0.5	< 2	1.36	< 0.5	14	69	49	4.91	< 10	< 1	0.17	< 10	1.85	690
25733	205 226	30	1.4	0.90	< 2	10	< 0.5	< 2	2.46	< 0.5	21	77	667	12.15	< 10	< 1	0.07	< 10	0.32	540
25734	205 226	2320	0.4	0.57	48	20	< 0.5	28	0.20	< 0.5	1	248	103	2.65	< 10	< 1	0.08	< 10	0.23	75
25735	205 226	10	< 0.2	1.99	< 2	10	< 0.5	< 2	1.36	< 0.5	44	94	193	5.95	< 10	2	0.06	< 10	1.06	255

11 12 00



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25732	205	226	1	0.11	16	980	2	< 2	15	48	0.18	< 10	< 10	169	< 10	86
25733	205	226	215	0.02	29	870	< 2	< 2	1	70	0.09	< 10	< 10	34	< 10	34
25734	205	226	3	0.04	2	260	< 2	< 2	2	18	0.07	< 10	< 10	25	< 10	6
25735	205	226	11	0.10	68	630	< 2	< 2	2	56	0.22	< 10	< 10	64	< 10	28

*Handwritten signature or initials*



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Page Number :1-A  
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<b>CERTIFICATE OF ANALYSIS</b>	<b>A9627919</b>
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SAMPLE	PREP		Au g/t	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
119802	205	226	< 0.005	< 0.2	0.58	< 2	120	< 0.5	< 2	0.19	< 0.5	20	278	2	2.79	< 10	< 1	0.33	10	0.42	130
119803	205	226	< 0.005	< 0.2	1.15	8	130	< 0.5	< 2	2.74	< 0.5	7	83	15	1.92	< 10	< 1	0.18	10	1.89	475
119804	205	226	< 0.005	< 0.2	0.99	2	100	< 0.5	< 2	11.60	< 0.5	5	77	7	1.58	< 10	< 1	0.20	< 10	1.28	425
119805	205	226	< 0.005	< 0.2	0.68	2	20	< 0.5	< 2	3.05	< 0.5	3	149	6	2.12	< 10	< 1	0.12	< 10	1.44	440
119806	205	226	< 0.005	< 0.2	0.12	< 2	70	< 0.5	< 2	>15.00	< 0.5	< 1	3	1	0.20	< 10	1	0.01	< 10	0.82	60
119807	205	226	< 0.005	< 0.2	0.30	< 2	30	< 0.5	< 2	9.19	< 0.5	4	41	5	1.58	< 10	1	0.04	< 10	6.65	750
119808	205	226	3.11	0.6	0.54	4	30	< 0.5	92	0.26	< 0.5	3	235	46	3.67	< 10	< 1	0.06	< 10	0.20	80





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Comments: ATTN: R.E. GALE

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119803	205	226	1	< 0.01	12	330	10	< 2	1	22	< 0.01	< 10	< 10	8	< 10	30
119804	205	226	< 1	0.01	8	490	2	< 2	< 1	61	< 0.01	< 10	< 10	6	< 10	12
119805	205	226	1	< 0.01	7	150	4	2	1	32	< 0.01	< 10	< 10	4	< 10	10
119806	205	226	< 1	< 0.01	1	90	4	< 2	< 1	95	< 0.01	< 10	< 10	< 1	10	< 2
119807	205	226	< 1	< 0.01	6	170	10	< 2	1	28	< 0.01	< 10	< 10	3	< 10	12
119808	205	226	4	0.02	4	240	< 2	< 2	1	13	0.04	< 10	< 10	22	< 10	4



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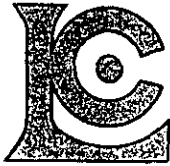
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A9725092

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25759	205 226	0.150	< 0.2	1.41	190	50	< 0.5	< 2	0.42	< 0.5	10	42	199	3.31	< 10	< 1	0.31	< 10	0.94	215
25760	205 226	0.010	< 0.2	2.75	6	130	< 0.5	< 2	1.12	< 0.5	10	47	41	4.12	< 10	< 1	0.44	< 10	1.10	435
119809M	205 226	0.200	0.2	1.14	66	30	< 0.5	< 2	0.57	< 0.5	4	80	202	3.60	< 10	1	0.10	< 10	0.59	250
119810M	205 226	< 0.005	< 0.2	1.41	< 2	50	< 0.5	< 2	1.07	< 0.5	19	46	148	4.17	< 10	< 1	0.04	< 10	1.02	605
119811M	205 226	< 0.005	0.2	0.83	2	30	< 0.5	< 2	0.65	< 0.5	31	64	204	3.88	< 10	< 1	0.03	< 10	0.37	190
119812M	205 226	0.045	< 0.2	1.46	< 2	40	< 0.5	< 2	0.64	< 0.5	4	57	81	3.01	< 10	< 1	0.12	< 10	0.75	180
119813M	205 226	1.660	0.2	0.64	16	20	< 0.5	14	0.20	< 0.5	1	178	18	1.12	< 10	1	0.10	< 10	0.31	75
119814M	205 226	0.165	< 0.2	1.58	6	10	< 0.5	< 2	1.55	< 0.5	9	97	179	5.98	< 10	< 1	0.06	< 10	0.81	565



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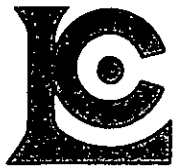
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Invoice No. : 19725092  
P.O. Number :  
Account : CNF

## CERTIFICATE OF ANALYSIS

A9725092

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
25759	205	226	1	0.04	3	880	< 2	< 2	7	25	0.06	< 10	< 10	60	< 10	22
25760	205	226	2	0.14	5	980	< 2	2	6	91	0.11	< 10	< 10	76	< 10	28
119809M	205	226	1	0.04	3	580	2	< 2	5	16	0.05	< 10	< 10	50	< 10	14
119810M	205	226	3	0.04	22	980	4	< 2	7	58	0.11	< 10	< 10	100	< 10	40
119811M	205	226	5	0.03	30	670	< 2	< 2	2	36	0.09	< 10	< 10	29	< 10	16
119812M	205	226	1	0.06	1	820	< 2	< 2	5	33	0.10	< 10	< 10	56	< 10	10
119813M	205	226	1	0.03	3	370	2	< 2	3	15	0.04	< 10	< 10	27	< 10	6
119814M	205	226	17	0.05	14	690	2	2	7	64	0.13	< 10	< 10	88	< 10	26



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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To: GALE, R. E.

107 - 2274 FOLKESTONE WAY  
 WEST VANCOUVER, BC  
 V7S 2X7

Project :

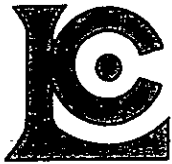
Comments: ATTN: R.E. GALE

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 29-JUL-97  
 Invoice No. : I9733352  
 P.O. Number :  
 Account : CNF

## CERTIFICATE OF ANALYSIS

A9733352

SAMPLE	PREP CODE		Au g/t	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA	ppm	FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
119815M	205	226	0.145	0.2	1.01	34	10	< 0.5	< 2	0.53	< 0.5	9	25	126	3.06	< 10	< 1	0.07	< 10	0.31	100
119816M	205	226	< 0.005	< 0.2	1.32	< 2	90	< 0.5	< 2	0.33	< 0.5	11	75	146	3.03	< 10	< 1	0.37	< 10	1.13	310
119817M	205	226	1.485	1.4	2.84	2580	10	0.5	4	0.27	< 0.5	41	78	638	14.00	< 10	< 1	0.39	< 10	1.60	290
119818M	205	226	< 0.005	0.2	1.91	6	30	< 0.5	< 2	0.93	< 0.5	13	60	364	4.64	< 10	< 1	0.09	< 10	1.30	315
119819M	205	226	0.500	0.8	2.80	94	30	< 0.5	4	1.21	7.0	24	113	335	7.88	< 10	1	0.16	< 10	0.95	540



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Project :  
Comments: ATTN: R.E. GALE

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 29-JUL-97  
Invoice No. : I9733352  
P.O. Number :  
Account : CNF

## CERTIFICATE OF ANALYSIS

A9733352

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
119815M	205 226	17	0.08	2	1000	< 2	< 2	2	42	0.09	< 10	< 10	38	< 10	8
119816M	205 226	9	0.04	22	560	2	< 2	7	18	0.14	< 10	< 10	77	< 10	44
119817M	205 226	53	0.03	39	830	14	< 2	6	47	0.05	< 10	< 10	63	< 10	48
119818M	205 226	< 1	0.04	4	730	4	< 2	5	46	0.10	< 10	< 10	71	< 10	62
119819M	205 226	< 1	0.11	5	570	14	4	4	95	0.02	< 10	< 10	46	< 10	632



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Project :

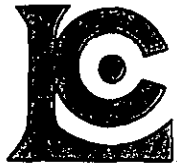
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Page Number : 1-A  
Total Pages : 1  
Certificate Date: 06-AUG-97  
Invoice No. : 19734560  
P.O. Number :  
Account : CNF

## CERTIFICATE OF ANALYSIS

A9734560

SAMPLE	PREP CODE		Au g/t	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
			FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
119820	205	226	0.005	0.2	1.55	26	80	< 0.5	< 2	0.83	0.5	8	109	75	1.61	< 10	< 1	0.15	< 10	0.48	280



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V7S 2X7

Project :  
Comments: ATTN: R.E. GALE

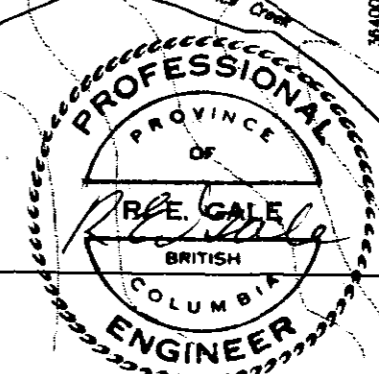
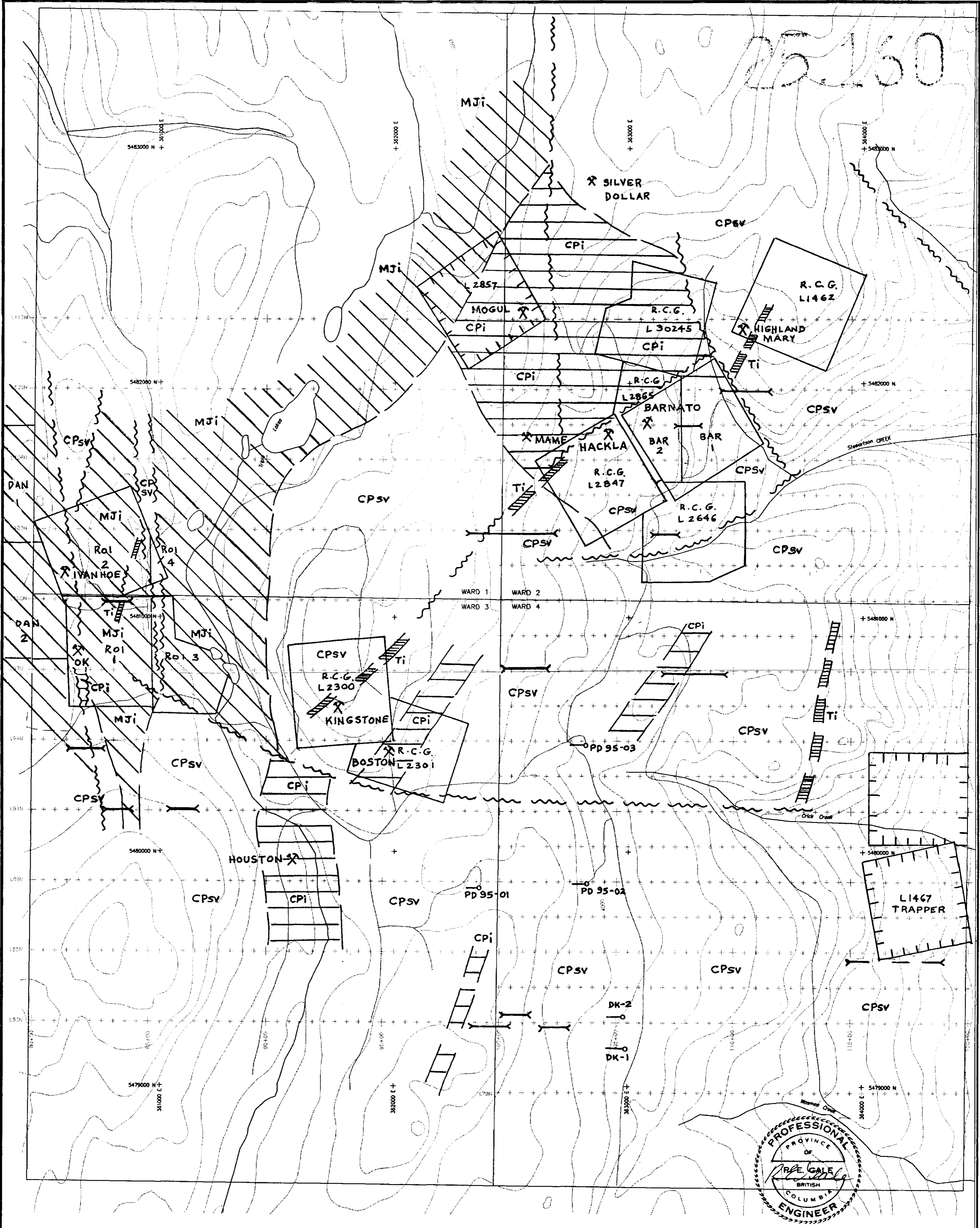
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Total Pages : 1  
Certificate Date: 06-AUG-97  
Invoice No. : I9734560  
P.O. Number :  
Account : CNF

## CERTIFICATE OF ANALYSIS

A9734560

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
119820	205	226	< 1	0.09	24	570	104	< 2	3	85	0.14	< 10	< 10	37	< 10	284

25160



	ANARCHIST GROUP CARBONIFEROUS-PERMIAN SEDIMENTS-VOLCANICS		TERTIARY ANDESITE PORPHYRY DYKES		CLAIM NOT INCLUDED IN PROPERTY
	DIORITE - FLOWS - INTRUSIONS		POSSIBLE FAULT		DIAMOND DRILLHOLE
	MIDDLE JURASSIC NELSON INTRUSIONS		INFERRED CONTACT		PROPOSED GEOCHEM SAMPLE SITE

R.E. GALE AND ASSOCIATES INC.

EMJAY ENTERPRISES LTD.				
PRELIMINARY GEOLOGY				
SCALE	DATE	BY	NTS. NO.	FIGURE
1:10,000	9/97		82E/7	4