

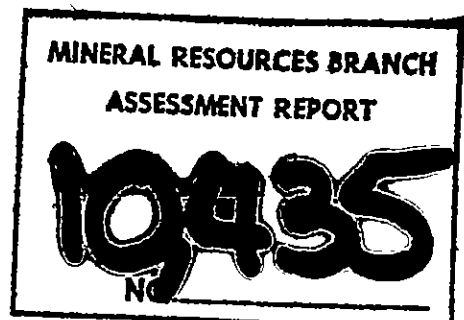
GEOLOGICAL REPORT ON
EBL-REM CLAIMS

East Barriere Lake, Kamloops M.D.
Latitude 51°19' N., Longitude 119°47' W; NTS 82M/5W

Report for-G.Moore
#707-1250 Comox Street
Vancouver, B.C.
V6E-1K8

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K.E.NORTHCOTE AND ASSOCIATES LTD.

May 16,1982



GEOLOGICAL REPORT EBL-REM CLAIM GROUP

INTRODUCTION

WORK DONE AND TERMS OF REFERENCE

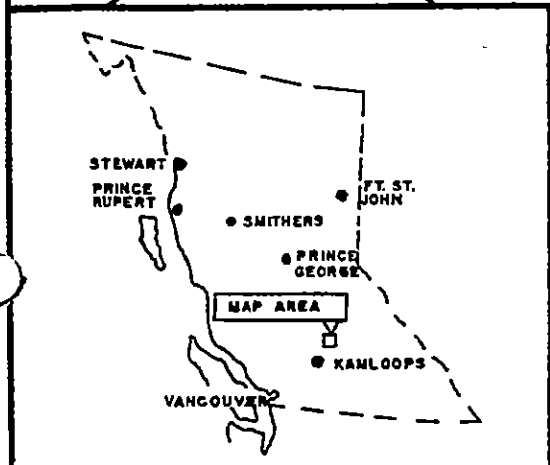
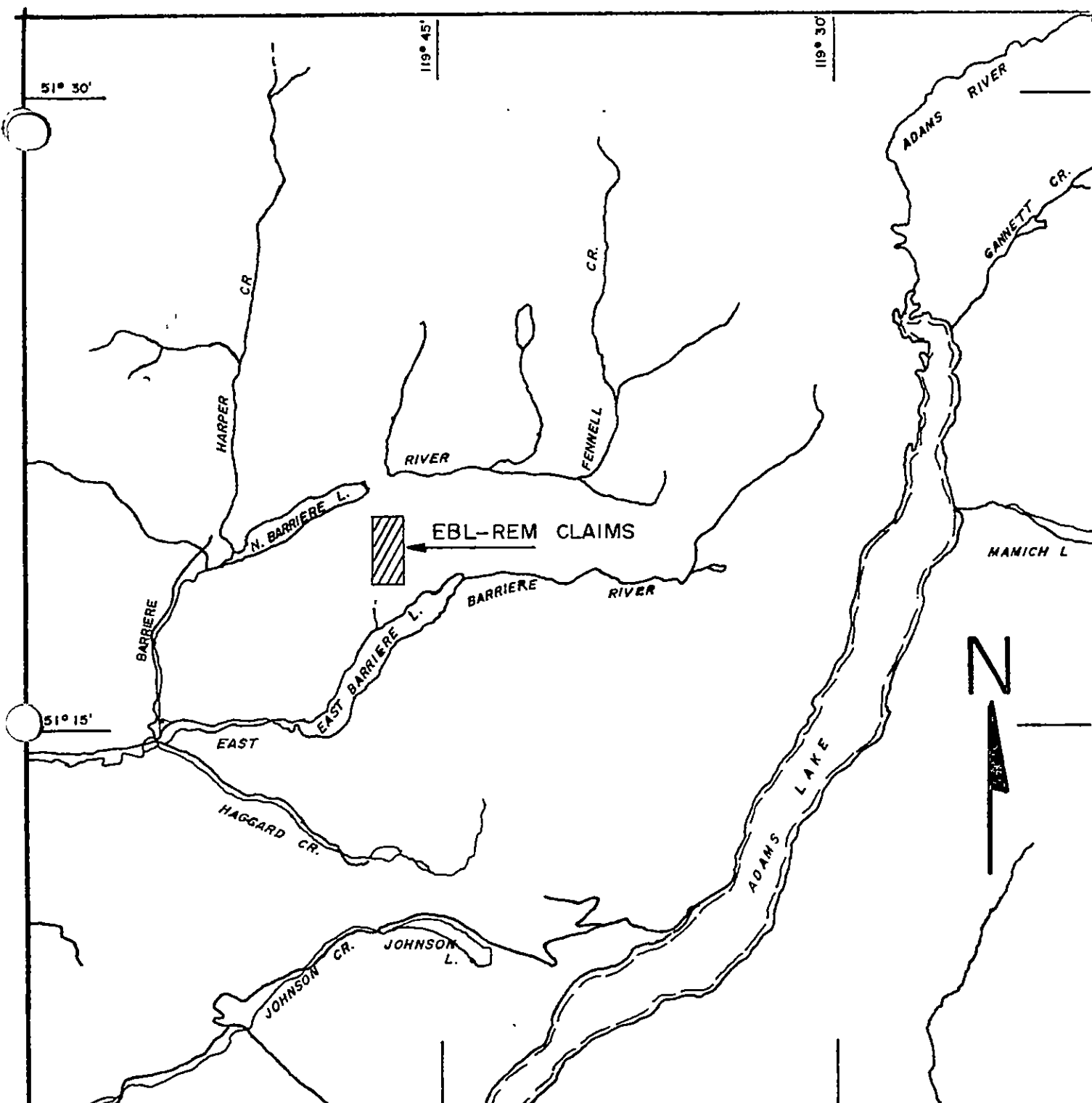
A petrographic examination of 17 thin sections and 9 polished thin sections was carried out in the period May 10 to 16, 1982. These sections are from selected segments of mineralized and unmineralized core from DDH 74-6 and from outcrops sampled and reported in Assessment Report #9203 filed in June 1981. In addition two days were spent by Messers J.Gourlay and G.Moore prospecting on the claims in September 1981. Samples 82-K-1 and 2, resulting from this work, were assayed and a petrographic polished thin section study made of each sample.

The petrographic study is in support of a planned re-examination and detailed description of existing core stored on the property a magnetometer survey of the claims area and an over all evaluation of the potential of EBL-REM claims during 1982. This work must be done prior to planned logging of the area which will obliterate the present grid, claim lines and increase vulnerability of stored core to vandalism.

LOCATION AND ACCESS

The EBL and REM claims are located on the north side of the east end of East Barriere Lake, latitude 51°19'N., longitude 119°47'W., NTS 82M/5W. The property is 30 km northeast of Barriere and is accessible by 4 wheel drive logging-mining access road leading from Barriere to East Barriere Lake road. See Figure 1.

14-20



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INDEX MAP
 EBL - REM CLAIM GROUP
 EAST BARRIERE LAKE B.C.

KAMLOOPS, MD 82 M/5W

FIGURE 1 SCALE: 1 : 250,000

DR. BY: R. F. JUNE 22, 1981

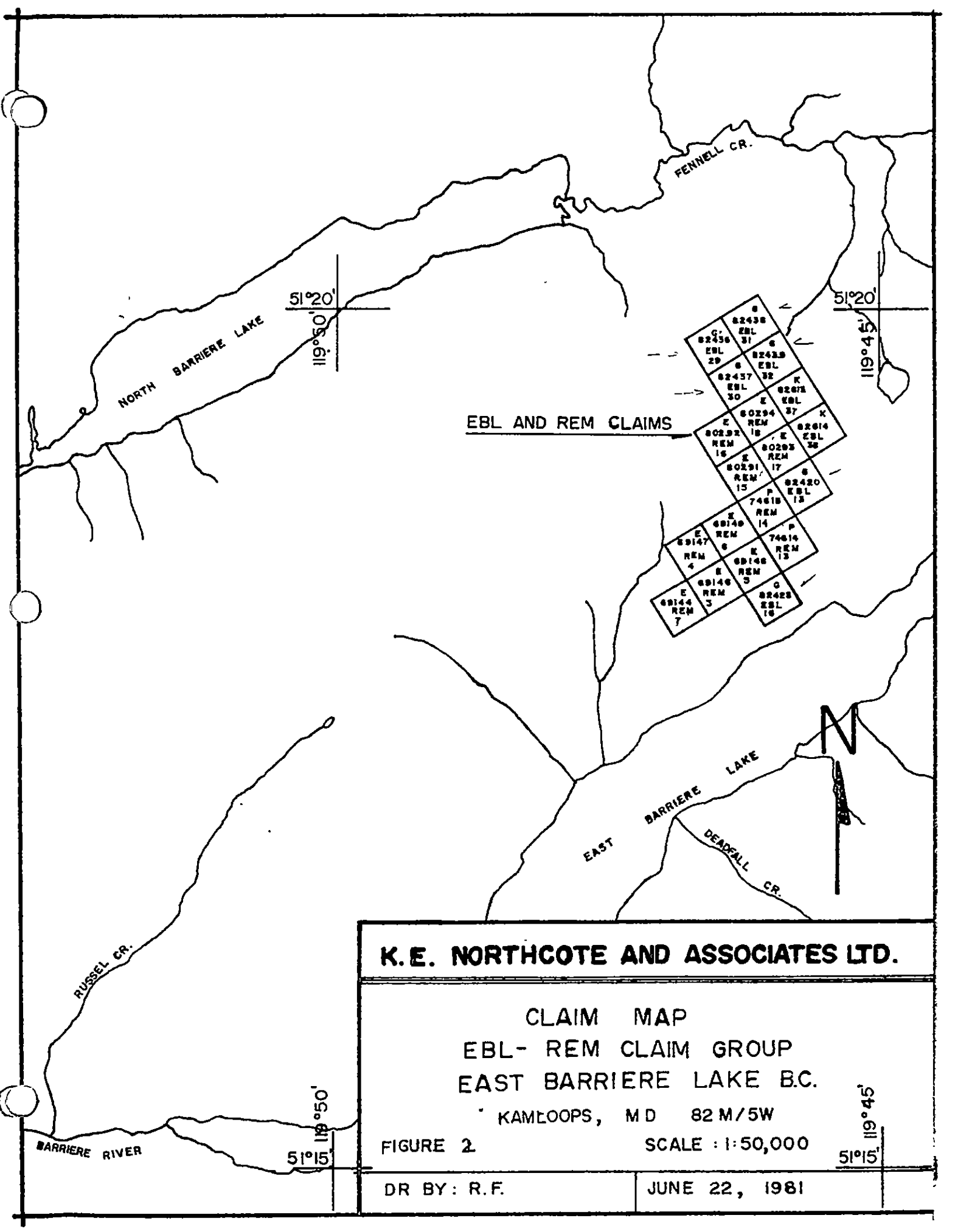
CLAIMS STATUS

The EBL-REM claim group consists of 19 two post claims shown on Figure 2 and listed in Table 1.

TABLE 1
EBL-REM CLAIM GROUP

<u>Claim Name</u>	<u>Registration Number</u>	<u>Expiry Date</u>
REM #1	69144	May 16, 1983
3	69146	May 16, 1983
4	69147	May 16, 1983
5	69148	May 16, 1983
6	69149	May 16, 1983
15	80291*	May 23, 1982
16	80292*	May 23, 1982
17	80293*	May 23, 1982
18	80294*	May 23, 1982
13	74614	Nov. 14, 1982
14	74615	Nov. 14, 1982
EBL 13	82420 *	June 25, 1982
16	82423 *	June 25, 1982
29	82436 *	June 25, 1982
30	82437	June 25, 1982
31	82438	June 25, 1982
32	82439	June 25, 1982
37	82613	Aug. 1, 1982
38	82614	Aug. 1, 1982

* Assessment work of this report to be applied to claims in order of expiry dates.



EBL AND REM CLAIMS

K. E. NORTHCOTE AND ASSOCIATES LTD.

CLAIM MAP
 EBL- REM CLAIM GROUP
 EAST BARRIERE LAKE B.C.

KAMLOOPS, MD 82 M/5W

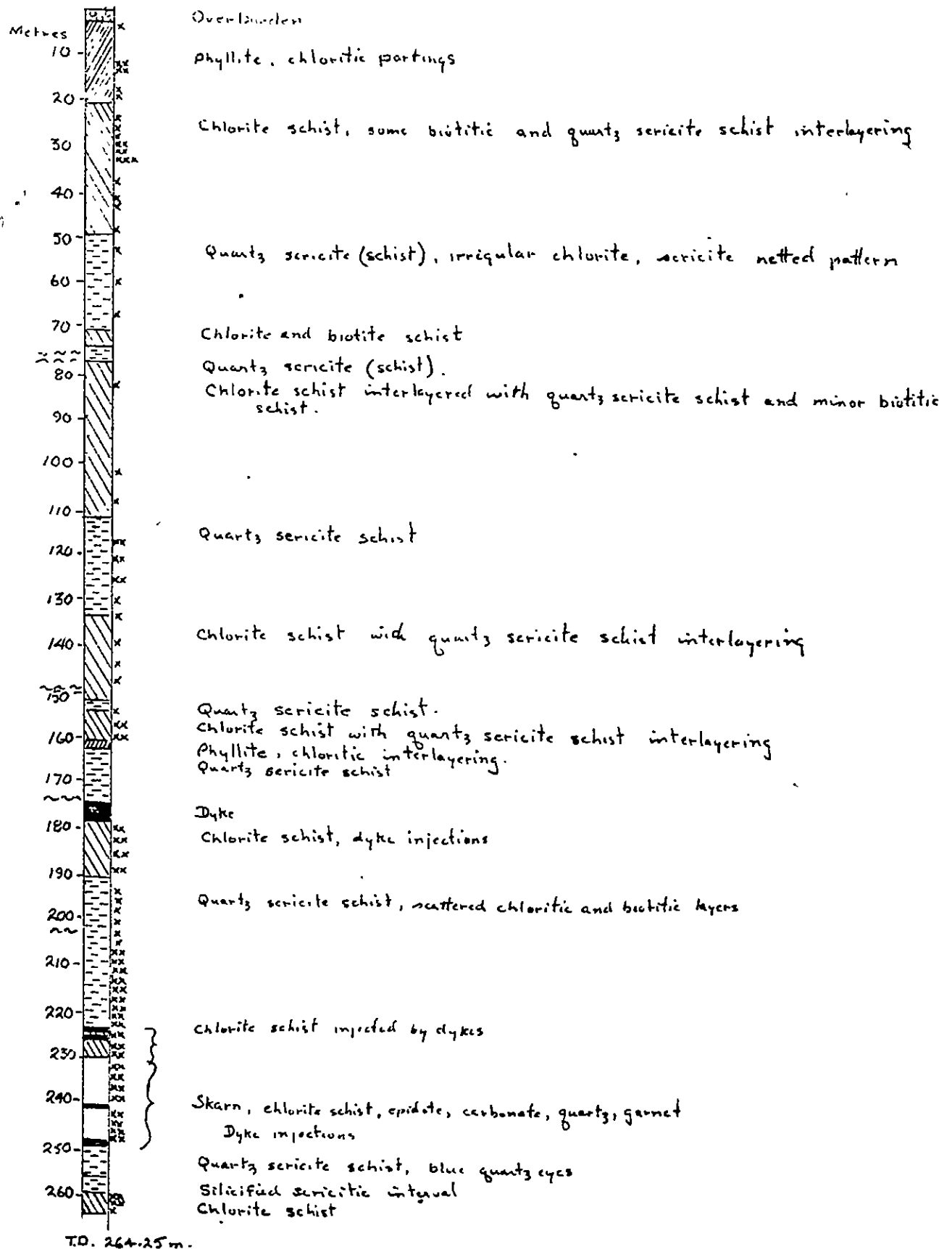
FIGURE 2

SCALE : 1:50,000

DR BY: R.F.

JUNE 22, 1981

EBL-REM CLAIMS DDH 74-6



x Weak Copper mineralization
xx Moderate " "
xxx Strong " "

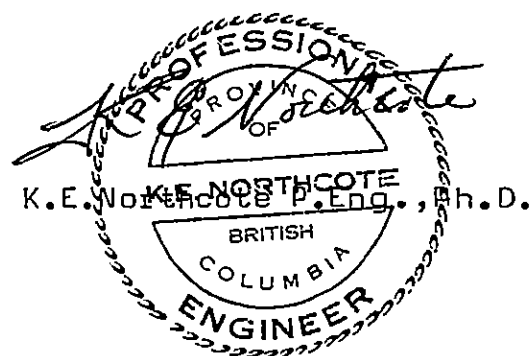
K.E. Northcote
June 22, 1981

GEOLOGY

The reader is referred to Assessment Report #9203 filed in June, 1981 for discussion of regional and property geology and for visual core descriptions of DDH 74-6. Petrographic descriptions of thin sections and polished thin sections from core DDH 74-6 and 81-BL-1, 2 and 3; and 82 K 1 and 2 form Appendix A of this report and locations relative to existing claims are given on Figures 3 & 4.

ASSAY RESULTS

Assay results from 82K-1 form Appendix B and the sample location is indicated on Figure 3.



REFERENCES

McMillan, W.J., 1980, CC Prospect, Chu Chua Mountain, MEMPR Geological Fieldwork, 1979, Paper 1980-1, p 37-48.

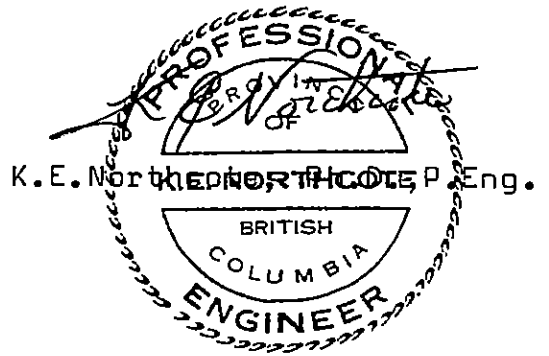
Preto, V.A. 1980, Barriere Lakes-Adams Plateau Area, MEMPR Geological Fieldwork, 1979, Paper 1980-1, p 28-36.

1981, Barriere Lakes- Adams Plateau Area, MEMPR Geological Fieldwork, 1980, Paper 1981-1, p 15-23.

STATEMENT OF QUALIFICATIONS

I K.E.Northcote, of K.E.Northcote and Associates Ltd. do hereby state that:

- (1) I have been performing as a professional geologist for a period of approximately 25 years for various petroleum exploration companies, mining exploration and consulting companies, and federal and provincial agencies.
- (2) I obtained a Ph.D. in geology from U.B.C. in 1968 and qualified for registration with the B.C. Association of Professional Engineers in 1967.
- (3) The assessment work reported herein is a result of my personal examination of surface exposures and drill core on the EBL-REM property.
- (4) I expect to obtain an interest in the EBL-REM property during 1982.



APPENDIX A
PETROGRAPHIC STUDY OF THIN SECTIONS AND
POLISHED THIN SECTIONS

EBL-REM
CLAIMS

PETROGRAPHIC DESCRIPTIONS
THIN SECTIONS

DDH 74-6-42

Rock Name

Quartz vein; mineralized by chalcopyrite and pyrite

Macroscopic

Quartz vein containing irregular masses of chlorite and carbonate mineralized by irregular blebs of chalcopyrite and pyrite. Non magnetic

Microscopic

Major veins

Quartz 80%

Secondary veins

Carbonate 10%

Sericite/muscovite < 5%

Chlorite < 5%

Opaques 1% coarse euhedral to anhedral;
chalcopyrite and pyrite.

Accessory minerals

Apatite trace

Epidote < 1%

Texture

Major quartz vein, large anhedral; cut by smaller veinlets of carbonate, sericite, chlorite with minor epidote and traces of apatite. Sulphides are associated with the secondary veinlets in the main quartz vein.

DDH 74-6-69

Rock Name

Chlorite (quartz) schist

Macroscopic

Foliated chlorite schist with scattered lensoidal layers of slightly coarser quartz and diffuse lensoidal partings richer in biotite. Pyrite blebs

aggregates of grains and minor chalcopyrite in plane of foliation and associated with coarser lensoids. Weakly magnetic indicating some magnetite
Stained slab; no evidence of K-spar alteration

Microscopic

Minerals

Chlorite	75%	
Quartz	15%	
Biotite	< 5%	
Epidote	5%	disseminated throughout matrix
Carbonate	5%	
Opaque	> 5%	

random disseminated irregular very fine grains; scattered sub-hedral coarser grains associated with quartz-carbonate lensoids. Mainly pyrite, traces of chalcopyrite; weakly magnetic indicating magnetite.

Texture

The rock is strongly foliated, schistose with diffuse partings of quartz, carbonate and lensoids of coarser quartz-carbonate-epidote. Opaques, mainly pyrite, lesser magnetite and traces of chalcopyrite are disseminated throughout the matrix and are associated with lensoids.

DDH 74-6-140

Rock Name

Chloritic quartz diorite dyke

Macroscopic

Weakly foliated granitic textured fine to medium grained quartz diorite. Some quartz veining evident. Non magnetic. Weakly disseminated pyrite. Stained slab shows no evidence of K-spar staining

Microscopic

Phenocrysts

Plagioclase	An ₃₀	subhedral/anedral
Quartz		anhedral

Groundmass

Quartz	20%	
Plagioclase	65%	- dusting of argillic alteration, sericite, carbonate, chlorite
Chlorite	15%	- diffuse irregular net-like stringers
Muscovite/sericite	< 10%	
Carbonate	.5%	irregular masses associated with chlorite

Opaque <1% pyrite euhedral to subhedral
Zircon? trace

Texture

Porphyritic with medium grained subhedral to euhedral plagioclase in a very fine grained plagioclase and quartz-rich matrix. Very uneven distribution of chloritic mafic and muscovite/sericite forming diffuse irregular net-like stringers. Irregular shaped very fine randomly disseminated opaques are disseminated throughout matrix and are associated with mafic minerals. Incipient quartz, carbonate, chlorite, sericite-muscovite veinlets.

DDH 74-6-158

Rock Name

Porphyroblastic carbonate chlorite schist

Macroscopic

Green chloritic schist with abundant medium-grained carbonate porphyroblasts. Disseminated black flecks, non magnetic. Disseminated pyrite. Stained slab- no evidence of K-spar staining

Microscopic

Matrix

Chlorite 70%
Quartz <10%
Biotite <5%

Carbonate

Opaque <5%

pyrite & non magnetic (?)

Porphyroblasts

Carbonate 20%

Opaque

Texture

Foliated chlorite with disseminated quartz, carbonate biotite and very fine irregular opaque grains. Quartz occurs as diffuse stringers and lensoids of small grains. Medium grained subhedral porphyroblasts of carbonate are disseminated throughout the matrix. Cut by quartz carbonate veinlet parallel to foliation

DDH 74-6-242

Rock Name

Chlorite schist

Macroscopic

Green chlorite schist with quartz rich partings and lensoids in plane of foliation. Disseminated and scattered blebs of pyrite and chalcopyrite

and scattered coarse euhedral pyrite crystals and aggregates of crystals. Non magnetic. Stained slab-no evidence of K-spar.

Microscopic

Minerals

Chlorite	50%	
Quartz	35%	
Plagioclase (?)	< 10%	
Biotite	< 2%	
Carbonate	10%	
Epidote	< 1%	
Opaque	< 5%	pyrite, chalcopyrite

Texture

Foliated chlorite with lensoidal partings of quartz and very minor plagioclase (?). Lensoids and veinlets of quartz and carbonate. Very minor disseminated epidote. Opaque minerals, randomly disseminated fine grained.

DDH 74-6-275

Rock Name

Chlorite (biotite, quartz, carbonate) schist

Macroscopic

Laminated chlorite, biotite, quartz, carbonate schist cut by carbonate veinlets. Disseminated fine blebs of pyrite and chalcopyrite; few scattered coarser euhedral pyrite crystals. Non magnetic. Stained slab- no evidence of K-spar staining

Microscopic

Minerals

Chlorite	
Biotite	
Quartz	
Carbonate	
Opaque	pyrite, chalcopyrite, (?)

Texture

Foliated schistose chloritic groundmass with disseminations and diffuse partings and lensoids of quartz, carbonate interlayered with biotite-chlorite rich layers and quartz-carbonate rich layers and lensoids. Quartz-carbonate veinlets

cutting across foliation. Opaque minerals randomly disseminated throughout matrix and in lensoids and veinlets.

DDH 74-6-293

Rock Name

Feldspathic schistose metavolcanic

Macroscopic

Layered schist, feldspathic, chlorite and carbonate-rich layers. Coarse aggregates of euhedral to subhedral pyrite; finer disseminated opaques randomly disseminated throughout matrix. Stained slab- no evidence of K-spar

Microscopic

Layers

Plagioclase-large percentage of fine ground-mass of plagioclase-rich layers

Quartz - in groundmass and as lensoids of aggregates of grains

Carbonate

Biotite

Chlorite- forms large percentage of chlorite-rich layers

Sericite

Epidote

Opaque

Texture

Layered schist, mineralogy of each layer similar but layers are a result of different relative concentrations of these minerals. Hence plagioclase-rich, chlorite-rich layers. Carbonate-rich layers may represent veins in plane of foliation. Fine opaque minerals have random distribution. Coarse euhedral pyrite in carbonate-quartz sericite segregations.

DDH 74-6-340

Rock Name

Chlorite, amphibole schist

Macroscopic

Laminated, chloritic amphibole, quartz, carbonate schist cut by quartz carbonate veinlets

Microscopic

Minerals		
Amphibole	60%	
Chlorite	20%	(?)
Biotite	< 5%	
Quartz	< 10%	
Carbonate	< 5%	
Apatite	< 1%	
Opaque	< 5%	

Texture

Schistose foliated, lensoidal amphibole, chloritic with diffuse partings and lensoids of quartz and carbonate. Opaque occurs as randomly disseminated irregular grains or aggregates of grains strung out in plane of foliation.

DDH 74-6-408

Rock Name

Schist

Macroscopic

Layered chloritic feldspathic schist, with scattered irregular carbonate (quartz) lensoids, partings and veinlets. Coarse aggregates of euhedral to subhedral pyrite, finer disseminations and minute stringers of pyrite and pyrrhotite. Weakly magnetic locally.

Stained slab- no evidence of K-spar stain

Microscopic

Layers

Plagioclase predominates in these layers

Quartz lensoids and partings

Chlorite

Carbonate layers and veins; cross foliation
veins youngest

Sericite

Epidote

Opaque - euhedral/subhedral coarse grains;
fine irregular grains random distribution

Texture

Layered schist, mineralogy of each layer similar but layers are result of different relative concentrations of these minerals. Hence plagioclase-rich, chlorite-rich and carbonate-rich layers. The carbonate-rich layers may represent veins in plane

of foliation similar to the carbonate-rich veins which cross foliation. Fine opaque minerals random distribution. Coarse euhedral pyrite in quartz-carbonate sericite segregations.

DDH 74-6-425

Rock Name

Schistose feldspathic metavolcanic

Macroscopic

Layered schistose feldspathic metavolcanic comprised of alternately feldspar or mafic rich layers. Carbonate lensoids in plane of foliation. Pyrite fine to medium grained also concentrated in zones. Stained slab shows no evidence of stained K-spar.

Microscopic

- Plagioclase; 50% feldspathic matrix, clear unaltered anhedral grains, random disseminated grains showing multiple twinning.
- Quartz 15% forming diffuse lensoids of slightly coarser grains
- Biotite 15% tendency to form layers of higher biotite concentration
- Chlorite < 5%
- Carbonate 15% forms bands or veins in plane of foliation
- Apatite Tr
- Opaque < 5%

Texture

Fine grained foliated groundmass of plagioclase with disseminated biotite and minor chlorite. Mafic minerals concentrated in layers to form biotite-rich layers and partings. Carbonate forms veins in plane of foliation and with quartz grains as diffuse lensoids. Pyrite occurs as random disseminated coarser euhedral crystals and abundant fine grains concentrated in enriched layers.

DDH 74-6-500

Rock Name

Feldspar-quartz-chlorite schist (sheared porphyritic quartz diorite).

Macroscopic

Schistose fine grained rock of porphyritic quartz diorite composition. Feldspathic and quartz rich matrix foliated by discontinuous chloritic partings. Stained slab shows no evidence of stained K-spar.

Microscopic

Groundmass

Plagioclase	40%	
Quartz	30%	
Chlorite	15%	
Biotite	5%	
Sericite	Tr	
Apatite (?)	Tr	
Carbonate	< 5%	
Opaque	< 1%	pyrite

Phenocrysts

Plagioclase <10% slight sericitic, carbonate alteration
 Quartz <5% euhedral and irregular rounded shaped grains

Texture

Strong foliation diffuse chlorite partings with minor associated biotite and sericite. Quartz aggregates of grains form diffuse segregations in plane of foliation. Opaques fine grained disseminated and aggregates of fine grains in foliation plane.

DDH 74-6-573

Rock Name

Rhyolitic crystal (lithic) tuff/breccia

Macroscopic

Randomly disseminated altered crystals and volcanic fragments in a very fine light coloured feldspathic tuffaceous (?) matrix. Chloritic and carbonate alteration evident. Stained slab indicates some K-spar stain around the margins of some fragments

Microscopic

Matrix

Plagioclase
Quartz

Fragments (crystals and lithic fragments)

Plagioclase
Quartz
Biotite Tr chloritic

Alteration

Carbonate
Chlorite
Sericite
Argillic-alteration of some feldspar fragments
Opagues 1%, pyrite, fine disseminated; few
coarser anhedral irregularly disseminated
grains.

Texture

Randomly disseminated altered crystal and lithic
fragments in a strongly altered fine feldspathic
tuffaceous weakly foliated matrix

DDH 74-6-615

Rock Name

Quartz sericite schist

Macroscopic

Foliated, sericitic foliation surfaces; layered by
lensoidal alternating concentrations of quartz
and sericite. Conspicuous bluish and clear lens-
shaped quartz augen. Non magnetic fine pyrite
disseminated in planes of foliation
Stained slab No evidence of K-spar staining

Microscopic

Quartz 60% forms very fine grained groundmass
and coarse quartz augen.

Sericite 35%
Chlorite < 5%
Biotite < 5%

Accessory Minerals

Epidote very minor
Carbonate Trace
Biotite Trace
Opagues < 1% fine irregular random disseminated
grains

Texture

Foliated schistose, fine quartz groundmass foliated by discontinuous, irregular sericite partings with accessory minerals. Mafic minerals, sericite and biotite form scattered enriched layers. Randomly disseminated coarse quartz augen. Very fine irregular grains and aggregates of opaque grains in plane of foliation. Very minor cross cutting by quartz-carbonate veinlets.

DDH 74-6-623

Rock Name

Layered chlorite quartz schist

Macroscopic

Layered to foliated very fine-grained schist composed of discontinuous layers of chlorite, biotite or quartz. Non magnetic, Disseminated pyrite grains and aggregates of grains in plane of foliation.

Stained slab-no evidence of K-spar staining

Microscopic

Minerals

Plagioclase - anhedral unaltered, generally finer grained in matrix

Quartz - lensoids of aggregates of grains and diffuse veins or layers.

Chlorite

Biotite

Carbonate

Opaque - fine granular, random disseminated

Texture

Foliated, layering by quartz-rich, biotite-rich, carbonate-rich, chlorite-rich layers. Chlorite veinlet cuts across plane of foliation. Opaque minerals fine irregular grains and clusters of grains in mafic-rich layers. Few scattered coarse euhedral pyrite crystals.

DDH 74-6-700

Rock Name

Quartz-sericite-schist.

Macroscopic

Schistose, very fine grained quartz-sericite-rich layers or partings. Aggregates of fine pyrite grains in foliation plane.

Stained slab-No evidence of K-spar staining

Microscopic

Groundmass
 Quartz 60%
 Sericite 35%
 Accessories
 Carbonate < 10%
 Chlorite < 5%
 Opaques < 1% irregular, random distribution

Texture

Fine grained quartz groundmass foliated by discontinuous irregular layers and partings of sericite associated with accessory chlorite and carbonate. Discontinuous carbonate and quartz veinlets crossing plane of foliation. Opaque grains

DDH 74-6-832

Rock Name

Quartz-sericite schist

Macroscopic

Quartz sericite schist, weakly layered by discontinuous irregular darker patches in a very light groundmass. Diffuse, discontinuous carbonate veins or lensoids in plane of and cutting across foliation. Non Magnetic, Very minor pyritic grains associated with darker patches
 Stained slab- no evidence of K-spar stain

Microscopic

Minerals
 Quartz 50%
 Sericite 25%
 Biotite < 10% some material attributed to biotite
 may be rusty stain
 Plagioclase < 15%
 Lensoids
 Quartz coarse grains with fine aggregates
 Sericite
 Accessory Minerals
 Carbonate < 5% disseminated in rock matrix
 and as veins parallel to and cutting
 across plane of foliation.
 Epidote -trace

Texture

Foliated to layered. Groundmass chiefly quartz, minor plagioclase. Foliation shown by wispy layers or partings of sericite and lesser biotite. Randomly disseminated coarse quartz augen. Irregular carbonate veins in plane of and crossing foliation.

DDH 74-6-838

Rock Name

Metarhyolite (crystal tuff?)

Macroscopic

Crystals or crystal fragments of plagioclase, quartz and orthoclase in a fine feldspathic groundmass. Non magnetic
Stained slab-shows 20% K-feldspar stain as coarse crystal fragments and in fine-grained groundmass.

Microscopic

Groundmass

Plagioclase	30%
Orthoclase ?	< 20%
Quartz	20%
Sericite	15%
Carbonate	10%
Epidote	< 5%
Biotite	< 5% shredded, chlorite alteration

Crystal Fragments

Plagioclase	- carbonate, chlorite, sericite alteration
Orthoclase	- microcline
Biotite	
Opakes-	≈ 1% fine irregular shaped grains, few scattered euhedral grains

Texture

Fine granular feldspathic groundmass with quartz. Superimposed sericite, carbonate, epidote alteration. Scattered clusters of sericite grains giving the rock a weak foliation. Scattered coarse crystal fragments of plagioclase, quartz and microcline. Randomly distributed fine irregular shaped opaque grains; few scattered euhedral grains.

POLISHED THIN SECTIONS

Polished Thin Section DDH 74-6-63

Rock Name

Layered Schist

Macroscopic

Layered plagioclase-chlorite-biotite; quartz-chlorite; schist showing traces of disseminated chalcopyrite and pyrite
Stained slab shows no evidence of K-spar staining

Microscopic

Minerals

Plagioclase	60%
Chlorite	30%
Biotite	10%
Quartz	75%
Chlorite	20%
Biotite	< 5%
Plagioclase	< 5%
Epidote	Tr
Opaque	<< 1%

Texture

Rock is foliated; comprised of plagioclase, chlorite, biotite and quartz, chlorite, biotite-rich layers. Scattered grains of sulphides occur in all layers.

Reflected light

Pyrite	Tr
Chalcopyrite	<< 1% very fine irregular grains randomly disseminated in rock matrix
Pyrrhotite	Tr

Polished Thin Section DDH 74-6-109

Rock Name

Actinolite skarn mineralized by sulphides

Macroscopic

Massive pyrrhotite mineralization in actinolite skarn; disseminated blebs of chalcopyrite. Stained slab-no evidence of K feldspar

Microscopic

Opaque	60%	massive, constitutes most of the section
Actinolite	30%	
Quartz	5%	
Carbonate	<5%	
Biotite		
Sericite		

Reflected light

Pyrrhotite > 95% of opaques
 Chalcopyrite << 1% of opaques
 Pyrite Tr
 Hematite << 1% medium grey, hard, anisotropic,
 weak internal reflection

Texture

Massive pyrrhotite containing irregular masses of silicates, netted mass remnants of silicates and abundant small irregular silicate grains. Random disseminated irregular chalcopyrite grains. Trace subhedral to euhedral pyrite. Scattered elongate hematite grains.

Polished Thin Section 74-6-782

Rock Name

Skarn

Macroscopic

Randomly disseminated pyrrhotite, pyrite, chalcopyrite and magnetite in a actinolite epidote skarn. Stained slab-no evidence of K-spar stain

Microscopic

Gangue Minerals
 Actinolite
 Epidote
 Carbonate
 Opaques ≈ 5%

Reflected light

Opaques ≈ 5%
 Magnetite 3% scattered euhedral crystals
 Pyrrhotite < 2% irregular massive
 Chalcopyrite << 1%

Polished Thin Section DDH 74-6-858

Rock Name

Skarn

Macroscopic

Massive sulphides in skarn minerals. Mainly pyrrhotite and pyrite forming the sulphide ground-mass. Isolated irregular masses and euhedral crystals of pyrite. Scattered blebs and finer irregular

grains of chalcopyrite associated with other sulphides or isolated in gangue.
Stained slab no evidence of K-spar stain

Microscopic

Gangue Minerals $\approx 65\%$
Amphibole - actinolite (?)
Quartz
Biotite
Carbonate
Epidote
Opagues $\approx 35\%$

Reflected light

Opaque minerals $\approx 35\%$
Pyrrhotite 20%
Pyrite < 10%
Magnetite < 5% Scattered euhedral crystals
Chalcopyrite 1 to 2% masses
Metallic minerals form very irregular masses

Polished Thin Section 81-BL-1

Rock Name

Skarn- mineralized with sulphides

Macroscopic

Pyrrhotite and pyrite in masses with minor chalcopyrite in skarn composed of actinolite, quartz epidote carbonate and quartz
Stained slab no evidence of K-spar stain

Microscopic

Quartz
Actinolite
Carbonate
Epidote
Opagues $\approx 50\%$

Reflected light

Pyrrhotite
Pyrite
Chalcopyrite
Hematite in vein

Texture

Pyrrhotite occurs as very irregular masses and and networks with pyrite pseudomorphous after

marcasite (?) botryoidal texture replacing pyrrhotite.
Chalcopyrite, very minor amounts as irregular
blebs.

Polished Thin Section 81-BL-2

Rock Name

Skarn sulphide mineralization

Macroscopic

Irregular masses of sulphide mineralization in
skarn.
Stained slab no evidence of K-spar stain.

Microscopic

Gangue
Epidote
Actinolite
Opaque

Reflected light

Pyrrhotite massive
Chalcopyrite randomly disseminated irregular blebs
Magnetite randomly disseminated euhedral to sub-
hedral crystals.
Pyrite botryoidal structure pseudomorphic after
marcasite
Hematite in fractures

Texture

A "sea" of pyrrhotite with irregular "islands"
of chalcopyrite, magnetite and irregular masses
and sieve texture replacement remnants of silicates.
The pyrrhotite shows concentric patches of alteration
commonly associated with minute silicate fragments
or incipient fractures.

Polished Thin Section 81-BL-3

Rock Name

Skarn with sulphide mineralization

Macroscopic

Randomly disseminated pyrite, pyrrhotite and magnetite
with minor chalcopyrite in amphibole, chlorite,
garnet, carbonate skarn.
Stained slab - no evidence of K-spar stain

Microscopic

Gangue Minerals
 Actinolite
 Quartz irregular grains, permeations
 Carbonate
 Chlorite
 Garnet
 Epidote

Reflected light

Opaque Minerals
 Magnetite random disseminated irregular masses and subhedral to euhedral grains
 Pyrrhotite isolated irregular grains or associated with magnetite
 Pyrite rims pyrrhotite grains
 Chalcopyrite anhedral irregular grains isolated or associated with the other sulphides.

Polished Thin Section 82-K-1

Rock Name

Altered Quartz Diorite (?)

Macroscopic

The rock has a fine grained foliated crystalline granitic appearance with superimposed patchy alteration. Non magnetic
 Stained slab no evidence of K-spar stain

Microscopic

Plagioclase	50%
Quartz	5%
Chlorite	10%
Sericite/muscovite	10%
Biotite	Tr
Carbonate	10%
Epidote	10%
Opagues	≈ 5%

Reflected light

Hematite 3% bioxial light grey irregular grains
 Magnetite <1%
 Pyrrhotite <1%
 Chalcopyrite ≈ 2%

Texture

Opaque minerals are disseminated throughout the gangue as irregular grains and aggregates of grains.

Polished Thin Section 82-K-2

Rock Name

Altered Quartz Diorite (?)

Macroscopic

The rock has a fine grained foliated crystalline granitic appearance with superimposed patchy alteration. Non magnetic. Stained slab no evidence of K-spar staining.

Microscopic

Plagioclase	50%
Quartz	< 5%
Chlorite	< 20%
Sericite/Muscovite	10%
Carbonate	10%
Epidote	5%
Opagues	≈ 5%

Opagues

Pyrite	≈ 3%
Chalcopyrite	≈ 2%
Hematite	Tr in fractures in pyrite

Texture

Randomly disseminated euhedral to subhedral pyrite crystals and aggregates of crystals strung out in interrupted veinlets. Chalcopyrite occurs as irregular grains and aggregates of grains

APPENDIX B

ASSAY RESULTS

EBL - REM CLAIMS

To:

Mr. George Moore

707 - 1250 Comox St.,

Vancouver, B.C.

V6E - 1K8

Attention:



CAN TEST LTD.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 3246E-6

Date Sept. 23, 1981

We hereby Certify that the following are the results of assays made by us upon submitted ore samples.

Sample Identification	GOLD	SILVER	Copper	Lead	Zinc	Nickel		
	Ounces Per Ton	Ounces Per Ton	Percent Cu	Percent Pb	Percent Zn	Percent Ni	Percent	Percent
02 K-1. 1 ore <i>K.P.V.</i>	0.10	0.08	0.70	0.08	0.07	0.02		

Note: Pulps retained three months.

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED

Form No. 13-C

CAN TEST LTD.

Provincial Assayer

K.E. NORTHCOTE AND ASSOCIATES LTD.

- Geological, Mineral Exploration and Mineral Land Use Consultants -

2346 ASHTON ROAD, R.R. 1, AGASSIZ, B.C. V0M 1A0 TELEPHONE (604) 796-2068

K.E. NORTHCOTE, Ph.D., P.ENG.

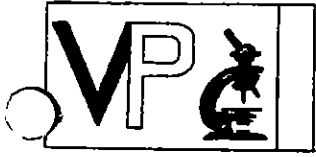
STATEMENT OF COSTS

EBL-REM CLAIMS

MAY, 1982

Examination of 27 thin sections and polished thin sections @ \$35.00 each.....	\$945.00
Preparation of report (estimated) typing and reproduction charges.....	\$200.00
Preparation of Thin & Polished Sections...	\$265.00
Assay.....	\$ 35.00
Total	\$1445.00





Vancouver Petrographics Ltd.

8887 NASH STREET — P.O. BOX 39 — FORT LANGLEY, B.C. V0X 1J0
Telephone (604) 888-1323

INVOICE 3269

FOR

Customer Order No. _____

Customer Charge Code _____

Ordered By: Ken Northcote

K.E. Northcote & Associates Ltd
2346 Ashton Road
Agassiz, B.C.

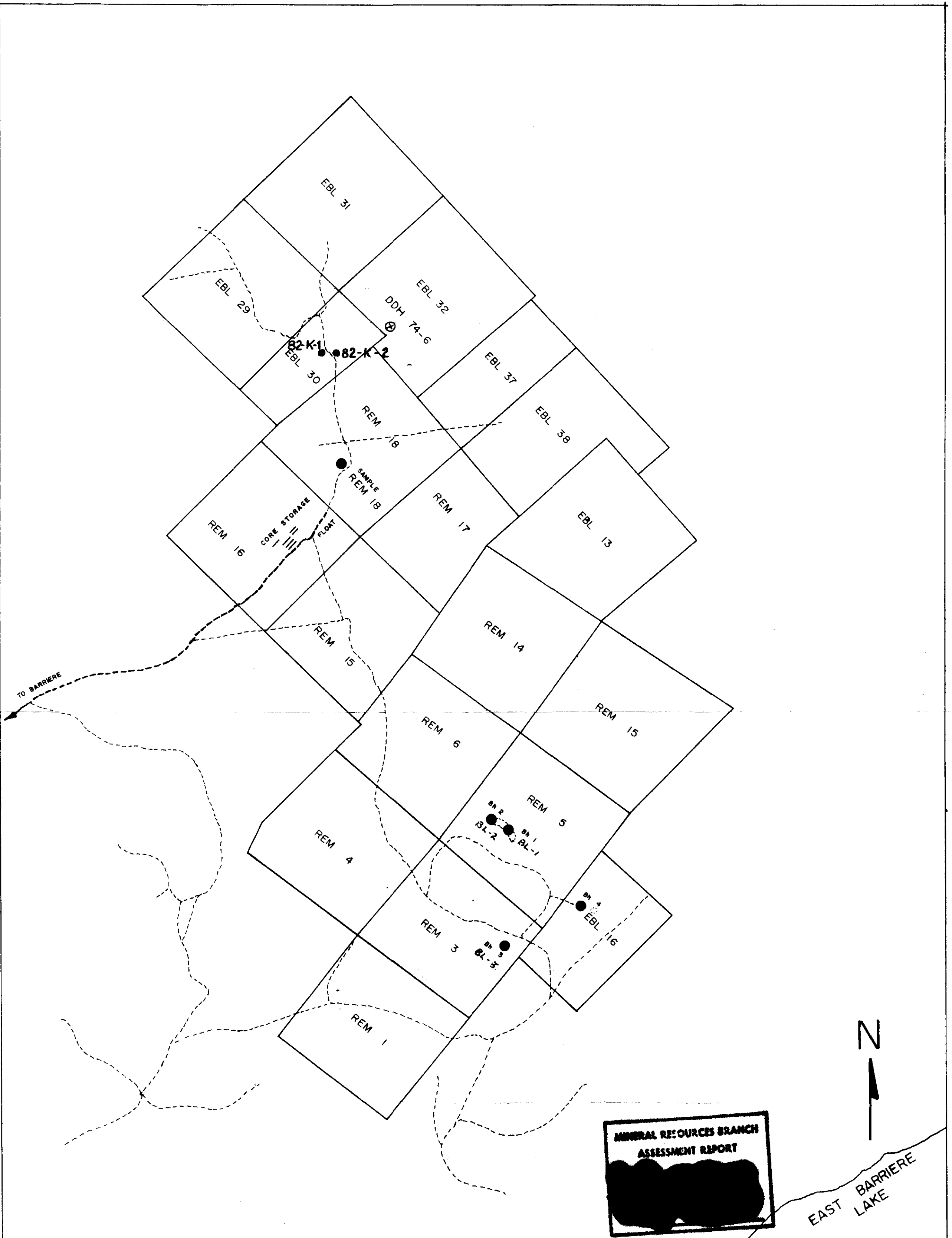
QUANTITY	DESCRIPTION	COST
17	THIN SECTIONS @ \$6.00 ea	\$102.00
9	POLISHED THIN SECTIONS @ \$16.00 ea.	144.00
	POLISHED ORE MOUNTS	
26	GROUND & LABELLED THIN SECTION REJECT SLICES 75¢ ea.	19.50
	POLISHED MINERAL GRAIN MOUNTS	
	MINERAL GRAIN THIN SECTIONS	
	MINERAL GRAIN POLISHED THIN SECTIONS	
	THIN SECTION K-SPAR STAINS	
	ROCK K-SPAR STAINS	
	CERAMIC PULVERIZER PLATES LAPPED	
	PETROGRAPHIC REPORT	
	FED. TAX	
	PROV. TAX	
	SHIPPING	
	TOTAL	\$265.50

Receiving Date April 28, 1982

Shipping Date May 3, 1982

Via Greyhound bus lines-collect

PACKING SLIP



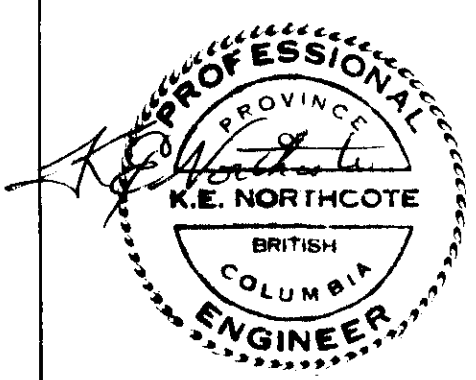
**MINERAL RESOURCES BRANCH
ASSESSMENT REPORT**

**EAST BARRIERE
LAKE**

K. E. NORTHCOTE AND ASSOCIATES LTD.

EBL REM CLAIMS
 LOCATION OF SAMPLES: Bh 1, 2, 3, 4, REM 18
 AND DDH 74-6.
 EAST BARRIERE LAKE B.C. KAMLOOPS M.C.

FIGURE 3
 DR. BY: R.F. 82 M / SW
 JUNE 22, 1981 SCALE: 1" to 800'



800 ft.

Base Map from J.S. Thompson P. Eng.