

021800

PROPERTY NAME: Lexington

NTS: 82 E/2

OWNER: Grenoble Energy Ltd.
1015-470 Granville St.
Vancouver, B.C.
phone: 669-3349
(as of 1981)

Lat: 49° 01'
Long: 118° 37'

CLAIMS: Because of the complex claim status and the out of date records in Vancouver, details of the claims have not been investigated at this time. A previous report (Homenuke, 1975) lists 23 crown grants and mineral leases and 47 mineral claims and fractions in the Lexington property.

LOCATION AND ACCESS: The Lexington property is located about 10 kilometres southeast of Greenwood, just north of the Canada-USA border. Access to the property is via a good gravel road which leaves Highway 3 about 3 kilometres south of Greenwood.

SUMMARY OF FIELD VISIT: There is a considerable amount of literature available on the Lexington property (ie. Church, 1970; Church, 1986; Homenuke, 1975). A brief review of this data and a short field examination suggests that the property has good potential to host a small to moderate sized porphyry copper-gold deposit.

The property is primarily underlain by a quartz-feldspar porphyry intrusion of Cretaceous age which has intruded the Knob Hill gneisses and schists. A major Tertiary fault, the McCarren Creek Fault, trends northwest through the property. Wide zones of serpentinite occur along the fault. A number of Tertiary diorite dykes cut the above rocks.

The old workings on the property followed quartz veins within and adjacent to the serpentinite. Production has mainly been from the

City of Paris mine which has a recorded production of 1,926 tonnes of ore yielding 27 kg Au, 139 kg Ag, 60 tonnes Cu and minor Pb and Zn. Most of this production was in 1900. Recently, exploration has been directed to porphyry-type copper-gold mineralization in the quartz-porphyry intrusion. This work has included a substantial amount of both percussion and diamond drilling, as well as 380 feet on underground drifting. Reserves on the property vary with the source from:

900,000 tons at 0.171 oz/t Au, 1.19% Cu (containing a zone of 175,000 tons at 0.46 oz/t Au, 2.41% Cu)
(Grenoble Report)

313,527 tonnes at 5.44 g/t Au, 1.96% Cu and
110,000 tonnes at 1.99 g/t Au, 0.92% Cu
(Church, 1986)

Information, including longitudinal and cross sections, is attached which could be used to confirm tonnage and grade calculations. A brief visit was made to the property. No samples were collected for analysis, but the general geology was confirmed.

RECOMMENDATIONS: The Lexington property is an advanced stage porphyry copper-gold property with good potential to host an economic sized deposit. I feel that contact should be made with the owners to determine the status of the property and to obtain up to date drill information.

REFERENCES:

Church, B.N., 1986. Geological Setting and Mineralization in the Mount Attwood - Phoenix Area of the Greenwood Mining Camp. BCDM Paper 1986-2.

Church, B.N., 1970. Lexington in GEM 1970, p. 413-425.

Homenuke, A.M., 1975. Compilation Report on the Greenwood Gold-Copper Property (Lexington Option) for Aalenian Resources Ltd.

L. Lee
October, 1989

Geology of Lexington Area

Tertiary

- 11-13 Marron fm
- 10 Kettle River fm

Triassic

- 7-9 Brooklyn Group

Permian - Carb

- 3-6 Atwood Group

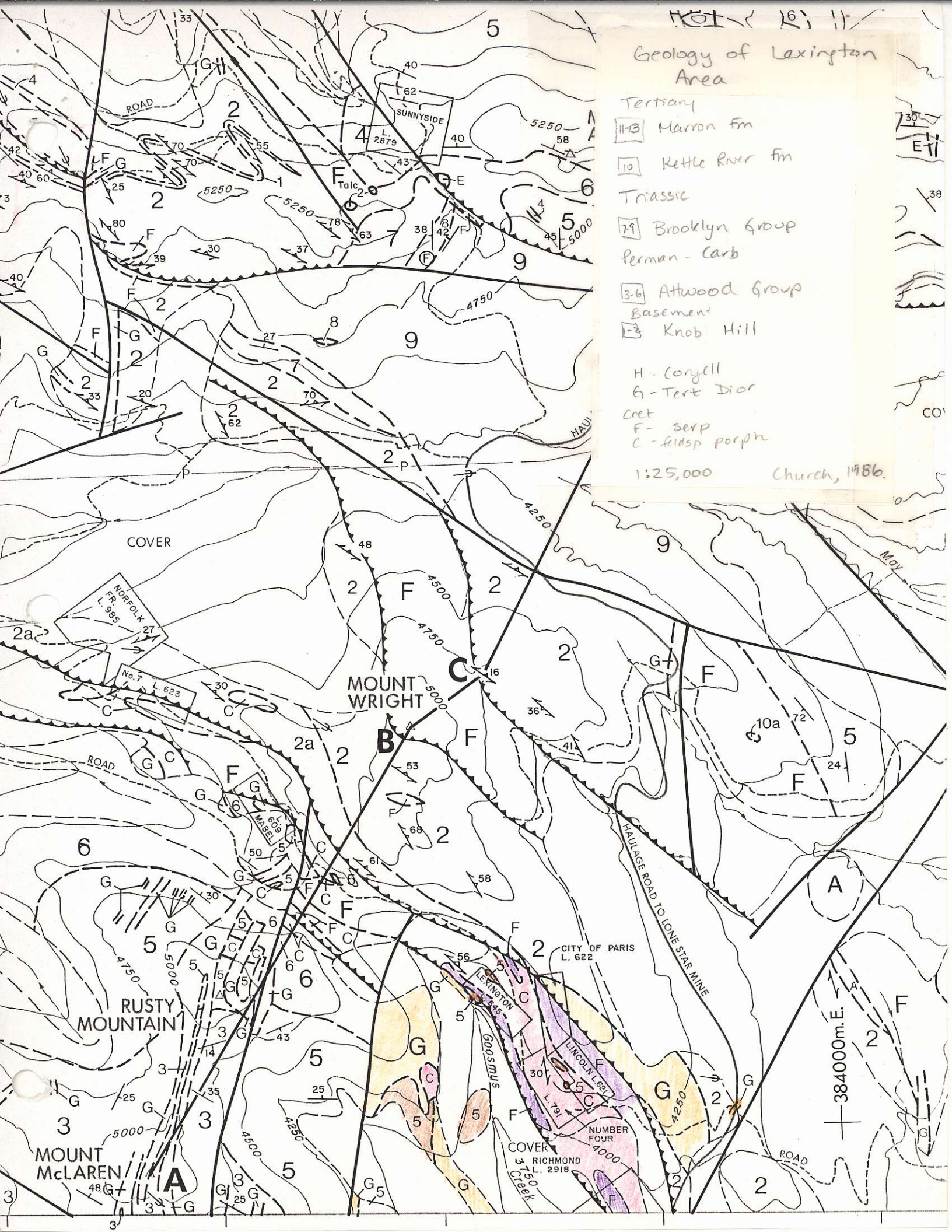
Basement

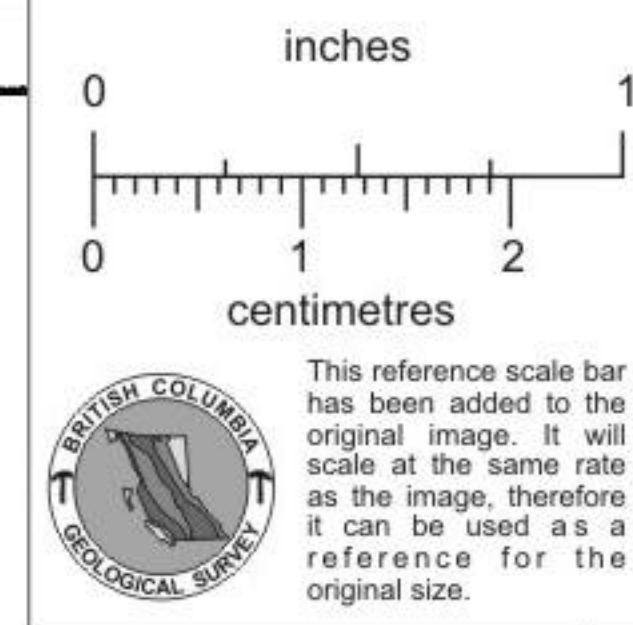
- 2 Knob Hill

- H - Congell
- G - Tert Dior
- Cret
- F - serp
- C - feldsp porph

1:25,000

Church, 1986.





GEOLOGY OF THE CITY OF PARIS AND LEXINGTON MINES

B.N. CHURCH (1970)
FIGURE 9

- TERTIARY INTRUSIONS, BIOTITE MESOCRATIC DIORITE / MELANOCRATIC DIORITE
- SERPENTINE
- QUARTZ PORPHYRY / PYRITIC SELVAGE PHASE
- ANDESITIC AND DACITIC VOLCANIC ROCK

SYMBOLS

- BED ROCK EXPOSURE
- SCHISTOSITY
- CLEAVAGES AND JOINTS
- GEOLOGICAL CONTACT
- TOPOGRAPHICAL CONTOURS
- PORTAL UNDERGROUND WORKINGS
- TRENCH
- BUILDING, OCCUPIED UNOCCUPIED
- DUMP
- PIT
- SHAFT
- ROAD
- PY** PYRITE
- CHPY** CHALCOPYRITE
- MAL** MALACHITE
- CLAIM POST

