

# CORPORATION FALCONBRIDGE COPPER

826862

MEMORANDUM

DATE: January 14, 1985

À  
TO: A. J. Davidson

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DE  
FROM: D. Lefebure

SUJET  
SUBJECT: Property Evaluation - Hart Lake Property NTS 92L/5,6

*File*

Exploration Target: Cu - Ag - Au vein

Location: - 13 km southwest of Port Alice, northwest Vancouver Island  
- helicopter access, logging roads reach to with 5km of property  
- NTS 92L/5,6

Previous Work: Riocanex (1962-1964) - geological mapping, soil and silt sampling, SP and magnetometer surveys  
- diamond drilling  
Esso (1970-1972) - ?  
Brinco (1983-1984) - geological mapping, soil and rock sampling, magnetometer surveys  
- 1600' (?) of diamond drilling

Regional Geology: An inlier of Triassic Karmutsen Formation basalts is bounded to the west and east by Triassic Parson Bay Formation calcareous siltstones and limestones and northeast - trending faults to the north and south. Andesites and rhyodacites of the Jurassic Bonanza Group are the most abundant layered rocks in the area. Several small Jurassic Island intrusions cut the conformable sequence.

Property Geology: The Hart Lake property geology is poorly described, in part because of the lack of outcrop. Two showings

mapped by Brinco are in altered basalts and andesites (Karmutsen Formation).

Mineralization: Wilf Showing - lenses of magnetite with patchy chalcopyrite in epidotized basalt  
 - low-grade Cu (<1%) and Ag (<1 oz/T) over broad widths (approx. 30 m.)  
 Iron Cop Showing - shear zone with chalcopyrite, pyrite, quartz plus/minus calcite in chloritized basalt  
 - grades of 6% Cu, 0.12 oz/T Au and 1 oz/T Ag over widths of 0.3 to 2.5m.  
 Cobalt-Ag Showing - ?

Ownership: Jim McDonald  
 office: 201 - 744 W. Hastings  
 Langridge, Vancouver  
 685-9867  
 home: 687-6125

Mineral Rights: - 236 units in 15 claims  
 - total area 16,250 acres

| <u>Colonial Group</u> |          |       | <u>Power Group</u> |         |       | <u>Nasparti Group</u> |          |       |
|-----------------------|----------|-------|--------------------|---------|-------|-----------------------|----------|-------|
| Name                  | Number   | Units | Name               | Number  | Units | Name                  | Number   | Units |
| Reg 1                 | 1637(12) | 20    | London 2           | 1852(9) | 20    | London 1              | 1850(9)  | 20    |
| Reg 2                 | 1638(12) | 20    | Spanish            | 1851(9) | 20    | Bozo 3                | 1876(10) | 20    |
| Reg 3                 | 1639(12) | 12    | Voodoo             | 1853(9) | 12    | Bozo 4                | 1877(10) | 20    |
| Bev                   | 1758(6)  | 4     | Kyuquot            | 1854(9) | 20    | Bozo 5                | 1878(10) | 18    |
| Patch                 | 2259(6)  | 10    |                    |         |       |                       |          |       |
| Bozo 1                | 1595(11) | 8     |                    |         |       |                       |          |       |
| Bozo 2                | 1596(11) | 12    |                    |         |       |                       |          |       |
|                       |          | —     |                    |         | —     |                       |          | —     |
|                       |          | 86    |                    |         | 72    |                       |          | 78    |

Recommendations: No further follow-up. There is more information available (core, logs, reports) which was not reviewed.

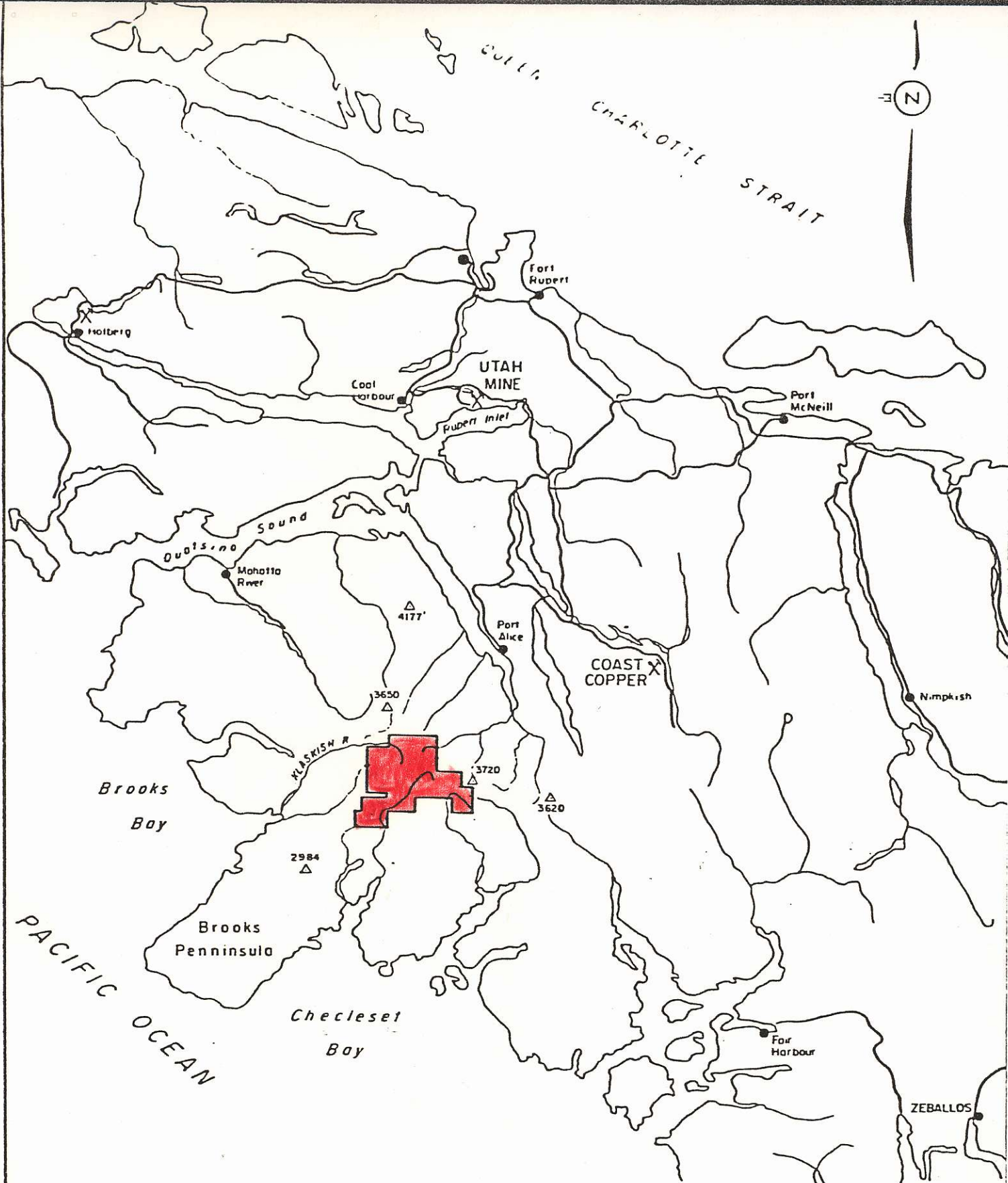
Reports:

1. Rio Tinto Canadian Exploration Limited 1964. Hart Lake Project, Vancouver Island, British Columbia - Report on 1963 Operations 23 p. (maps missing in copy available).
2. Sellmer, H. W. 1964. A report on the Iron-Cop Claims, Vancouver Island, B.C., U.B.C. B. Sc. thesis, 35 p.
3. Epp, W. R. 1984. Hart Lake Project, Phase 1 Exploration Report, Brinco Mining Limited report 35 p.



D. V. Lefebure

DVL/ik



|                                   |              |
|-----------------------------------|--------------|
| <b>Brinco</b><br>MINING LIMITED   |              |
| HART LAKE PROJECT<br>LOCATION MAP |              |
| DRAWN                             | FIGURE 1     |
| SCALE. 1" = 500,000               | DATE Aug./84 |



GEOLOGY OF HART LAKE  
PROPERTY, NW VANCOUVER IS.

IJB - Bonanza  
URPB - Pargon Bay  
muRK - Karmutsen

1:250,000

