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## SUMMARY REPORT

ON

# Q.F. CLAIM GROUP

52° 40' N. Lat., 121° 40' W. Long.

CARIBOO MINING DIVISION, B.C.

for

KEWEENAW SYNDICATE - 1967

by

Albert F. Reeve, P.Eng.,

Cordilleran Engineering Limited

January, 1968

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# MAPS:

- Trench Plan showing geology and mineral occurrences Q.F. Claim Group.
  1" = 400"
- 2. Trench Plan showing soil sampling Q.F. Claim Group.  $1^n = 400^*$

## INTRODUCTION

This report has been prepared to finalize the results of work done on Q.F. Mineral Claim Group on behalf of Keweenaw Syndicate in 1967. A number of progress reports have been forwarded previously. Geological and geochemical plans are appended.

The Q.F. Group was acquired during the course of a regional prospecting programme in the Cariboo District of British Columbia in 1967.

The Keweenaw Syndicate group consists of:

Pacific Petroleums Ltd., Silver Standard Mines Ltd. Homestake Mineral Development Company

Cordilleran Engineering Limited (Project Managers)

McLeese Syndicate (Prospectors)

1.

## PROPERTY

		Annant
Claim Name	Record No.	Assessment <u>Anniversary</u>
QF #1 to #26	43571 to 43596	September 12, 1968
QF #28	43597	98 98 98
#30	98	88 88 86
#32	99	25 26 25
#34	43600	22 28 28
#36	01	59 9 <b>8 9</b> 8
#38	02	29 12 92
#40	03	22 24 28
#42	04	77 TB BR
#44	05	97 1F F9
* AXE #1 to #4	42409 to 42412	April 27, 1968
* MAUD #1 to #8	41269 to	February 28, 1968

\* <u>Note</u>: These 12 claims will be allowed to expire because they almost entirely overlap the QF Group.

41276

Sufficient assessment work has been done on the 35 QF claims to hold them until September, 1969.

## Registered Owners:

35 QF Claims - A.F. Reeve - FMC #58116 8 MAUD " ) Cordilleran Engineering Limited 4 AXE " ) F.M.C. #55570

## LOCATION AND ACCESS

The property is located about seven miles WNW of the Village of Likely, immediately SW of the junction of the Cariboo and Quesnel Rivers.

A road, passable by 4-wheel drive, extends two miles NW to the property from a point on the Hydraulic Likely road, 4 miles west of Likely.

## WORK COMPLETED TO DATE

- 1. Preliminary Prospecting, soil and stream sediment sampling.
- 2. Stripping about 7500 line feet of bulldozer cuts were made. Bedrock was exposed for a total distance of 2300'.
- 3. Detailed geochemical sampling -80 samples were taken from the "c" soil horizon along the dozer cuts and analyzed for copper and molybdenum.
- 4. The cuts were mapped in detail and prospected.

## RESULTS

## Geology

The QF Claim Group lies on a NW trending regional strike fault which cuts folded Mesozoic volcanic rocks. A number of felsic to intermediate plutons outcrop along the fault zone.

Stripping in an area 7,000° long x 2,000° wide on the SE part of the property indicates that it is underlain by the roof of an intrusive body which varies in composition from symple to quartz diorite. Three principal rock types were mapped -

- Intrusive rocks diorite, quartz diorite and syenite.
- Hybrid contact rocks, grading from green andesite to diorite, usually having accessory magnetite and pyrrhotite.
- 3. Fresh green augite andesite.

The above rocks are sheared and fractured in two major planes which trend NE and NW. This roof contact complex is enclosed in massive purplish colored basalt and andesite.

## RESULTS

Geology (cont'd.)

Very sparse copper mineralization was found at four locations in the trenches. Intrusive and hybrid rocks are mineralized with chalcopyrite, native copper and malachite.

<u>A gossan zone</u> occurs on claims 12 and 14 for about 1500' along a bulldozer cut. Rock exposures are very rusty in this area and fresh samples were difficult to obtain. The rock is silicified and heavily mineralized with pyrite and pyrrhotite.

Traces of chalcopyrite and native copper were found at one location.

## Geochemistry

Samples were taken along the lower parts of the cuts from the "c" soil horizon at 100° and 200° intervals. All samples were analyzed for copper and molybdenum.

A geochemical feature of interest occurs on claims 12 and 14 and coincides with the gossan described previously. A group of 11 anomalous copper values range from 230 to 2,000 ppm with 11 approximately coincident Mo. values of 4 to 48 ppm.

## SUMMARY AND CONCLUSIONS

The QF group of 35 mineral claims, located about 7 miles WNW of Likely, B.C., was staked on behalf of Keweenaw Syndicate in September 1967, on the basis of a geochemical copper anomaly indicated by reconnaissance soil and stream sediment sampling. Twelve adjacent and overlapping claims were acquired in November 1967 for an outright purchase price of \$600.

In November 1967, stripping, detailed geochemical sampling and mapping were carried out on the property at a cost of approximately \$3,000.00. This work was confined to the SE half of the property where the geochemical results appeared to be most encouraging.

- Very sparse copper mineralization was found in rubble and bedrock at 4 locations in an area 5000<sup>†</sup> x 2000<sup>†</sup>.
- This mineralization is associated with the roof of an intermediate intrusive body which cuts andesitic and basaltic volcanic rocks.
- 3. The QF claims lie on a regional fault structure along which a number of felsic to intermediate plutons have been emplaced. These intrusives are generally similar to those found on the Cariboo Belle property at Boot-Jack Mountain.

# SUMMARY AND CONCLUSIONS (contid.)

4. On claims #12 and 14 a gossan zone was cut by the bulldozer. A small amount of native copper and chalcopyrite was found in this area. A group of soil samples taken along the trench in the gossan produced anomalous copper and molybdenum values.

It was not possible to obtain a fresh rock sample.

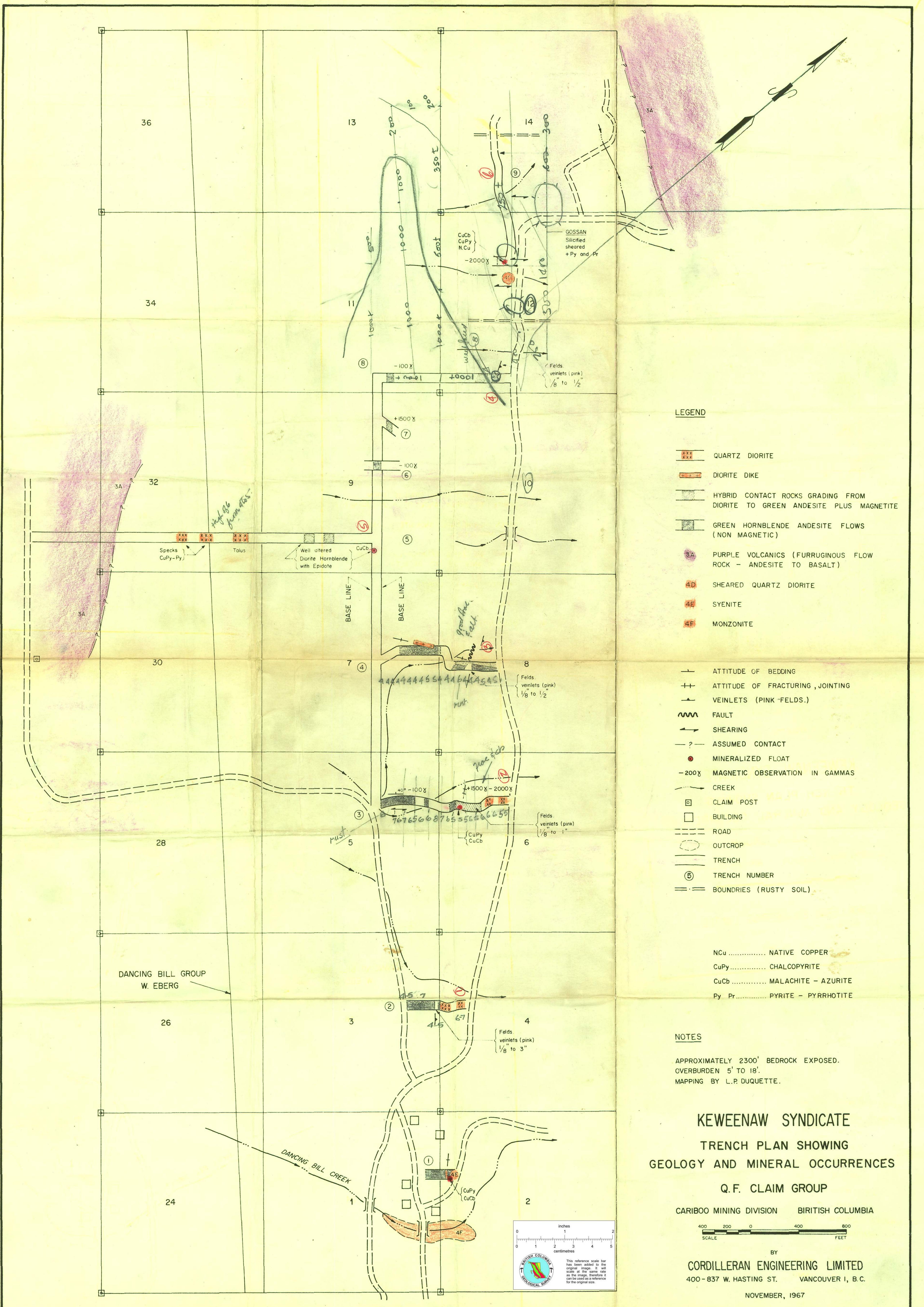
## RECOMMENDATIONS

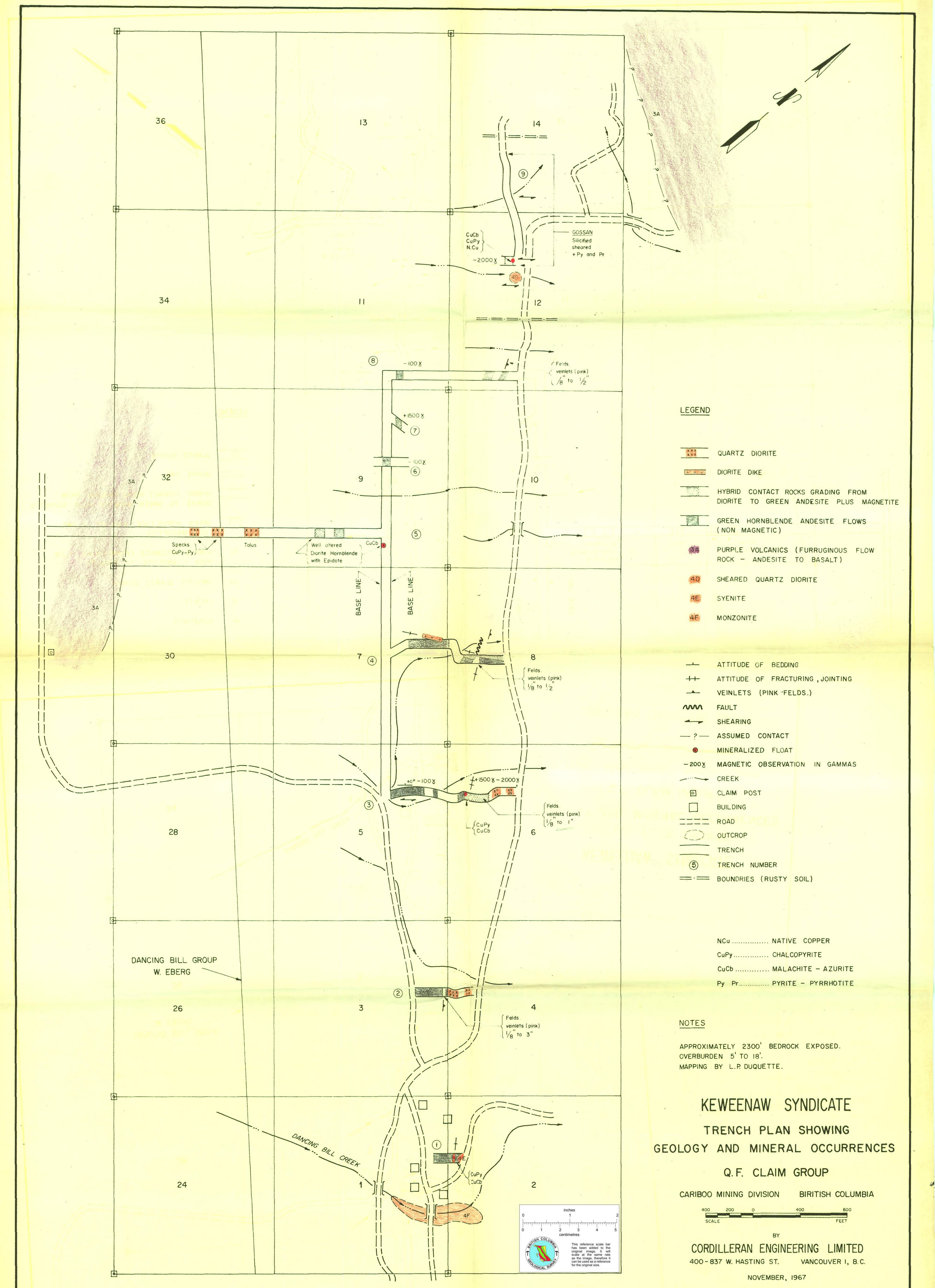
It is suggested that a limited amount of follow-up work be done to investigate the gossan on claims QF 14 and QF 12. This would consist of rock trenching and sampling and some additional stripping contingent upon the results of sampling.

A maximum allowance of \$2500 is suggested for this work.

Respectfully submitted, CORDILLERAN ENGINEERING LIMITED

A. F. Reeve



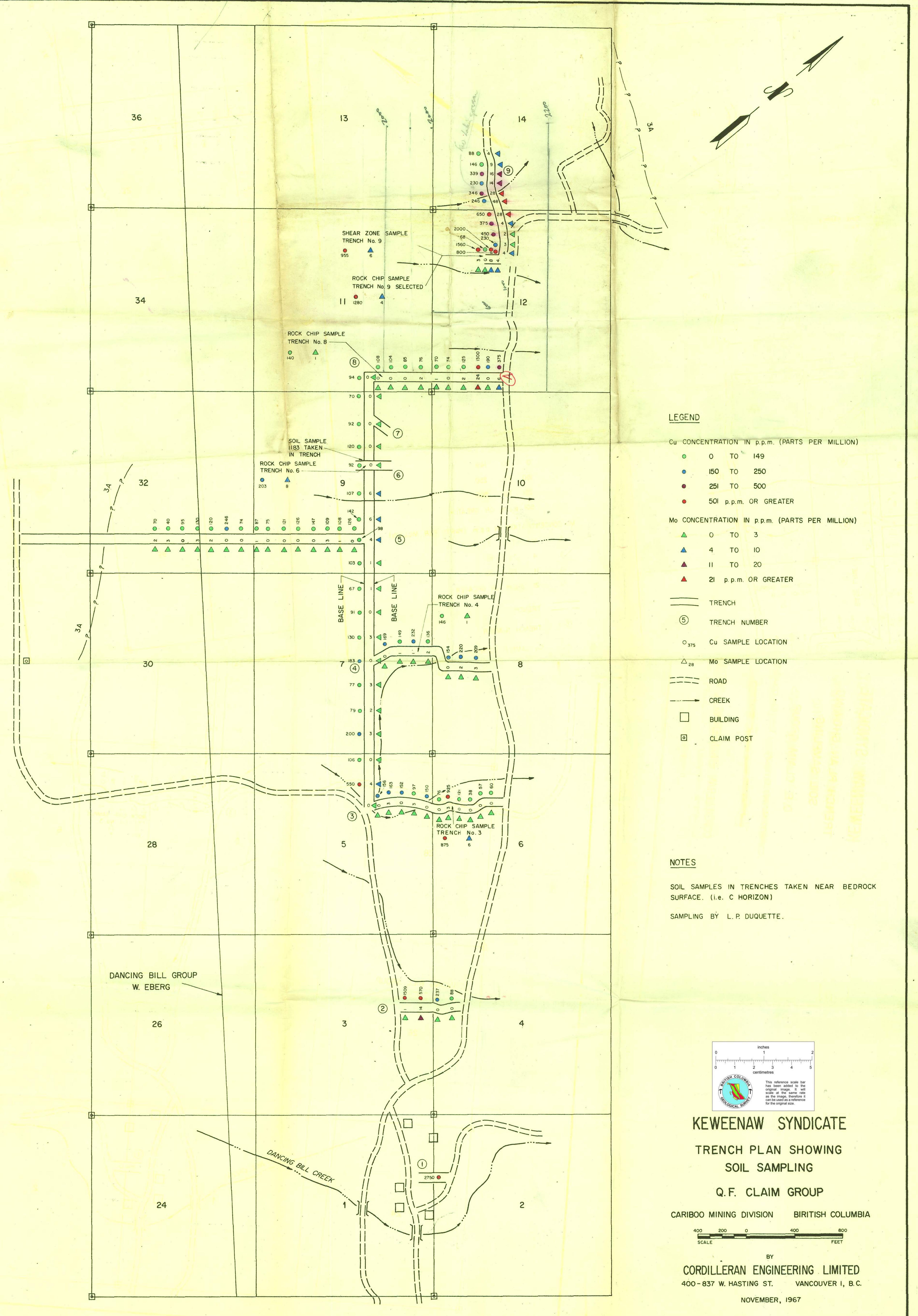


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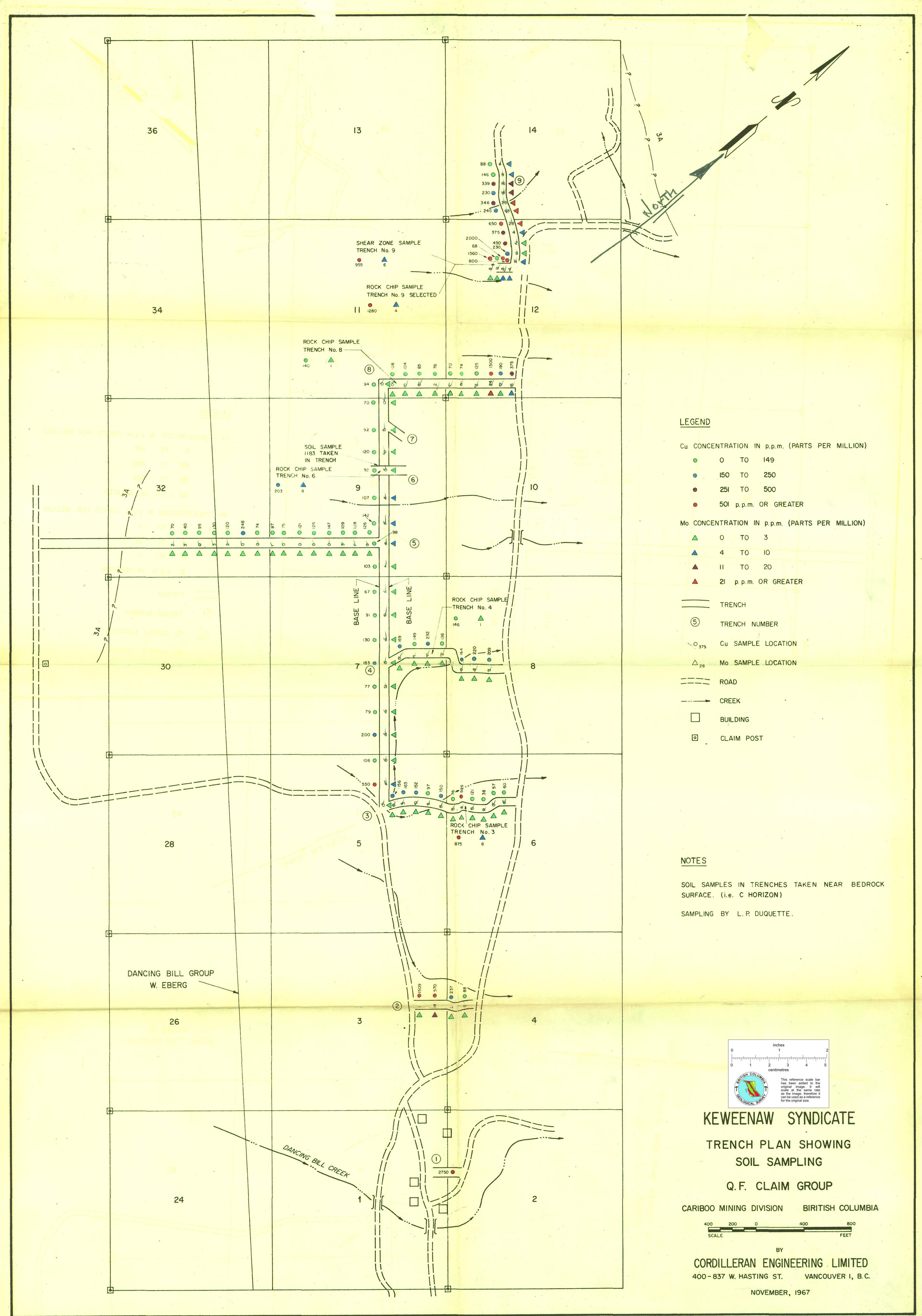
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