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616 CREDIT FONCIER BLDG.
850 WEST HASTINGS STREET
VANCOUVER 1, B.C.

606

REPORT
on the
GEOCHEMICAL SURVEY
of the
EZRA CLAIMS
for
NEW INDIAN MINES LIMITED
VANANDA EXPLORATIONS LIMITED
HIGHLAND VALLEY
ASMUCROFT, B.C.

December, 1964.

F.J. Hensworth, P.Eng.,
Consulting Mining Engineer.

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Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. <u>606</u>	MAP

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INTRODUCTION

A geochemical survey was carried out on the Ezra group of twenty mineral claims, in the Highland Valley, during the 1964 field season. The work was done for and jointly financed by New Indian Mines Limited and Vananda Explorations Limited, 661 Hornby Street, Vancouver 1, B.C.

Geochemistry or soil testing was done as part of an exploration program, aimed at finding bodies of copper mineralisation. Soil samples were tested for copper by the rubeanic acid method in a field laboratory.

This report on the soil testing survey, and the accompanying map, are submitted in compliance with the Mineral Act, claiming geochemical work for assessment purposes on the group of claims outlined in the text of the report.

LOCATION AND PROPERTY

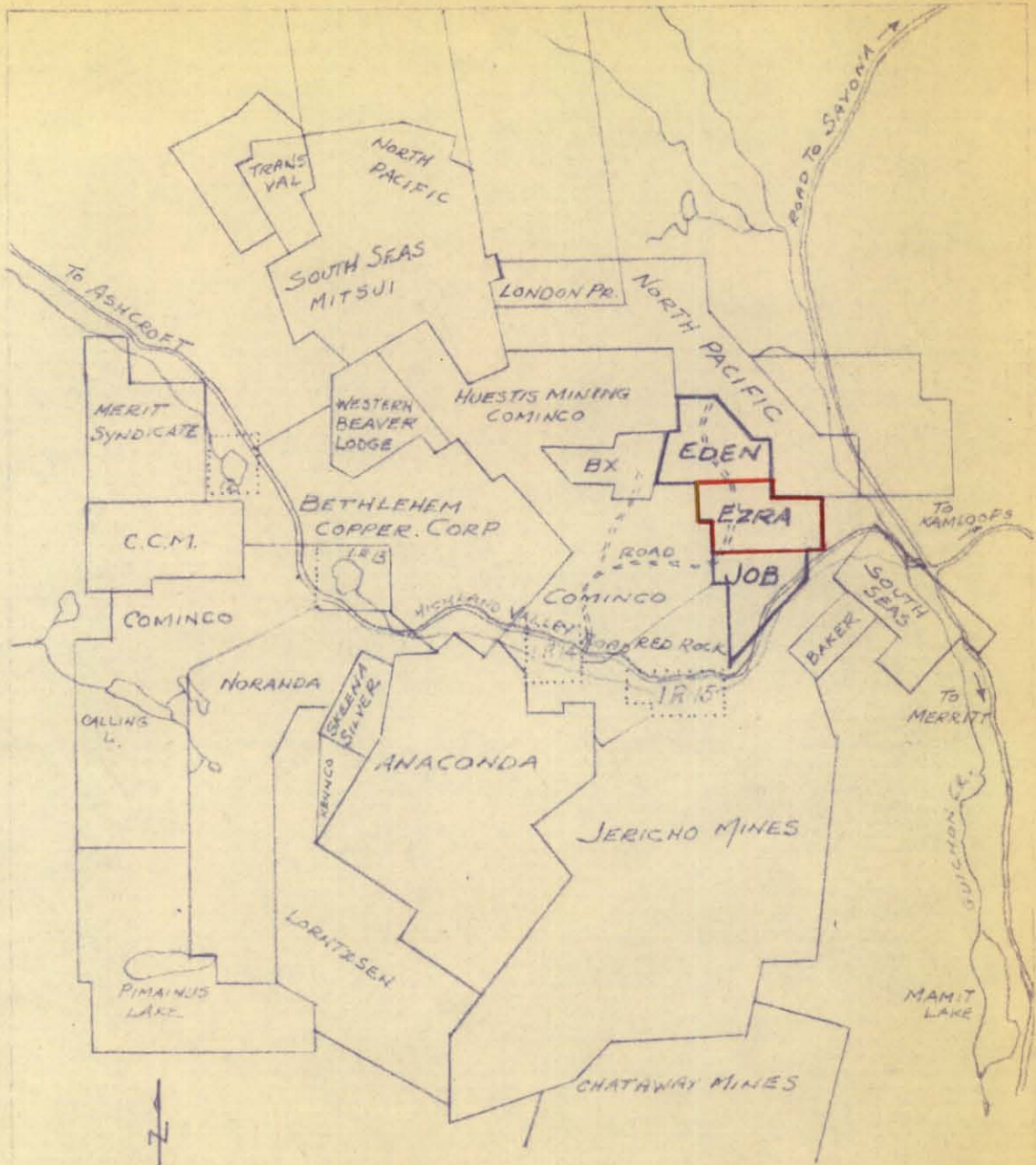
The Ezra group of twenty claims is situated in the Highland Valley, Kamloops Mining Division, 35 miles by road southeast of Ashcroft, B.C. The geographical position is Latitude N 50°38', Longitude W 120°58'. The location of the group and its relation to other holdings in the area is shown on the property map accompanying this report.

Particulars of the claims covered by the survey are as follows:-

<u>Name</u>	<u>Tag No.</u>	<u>Record No.</u>
EZRA No. 1	508900	45901
EZRA No. 2	508901	45902
EZRA No. 3	508902	45903
EZRA No. 4	508903	45904
EZRA No. 5	508904	45905
EZRA No. 6	508905	45906
EZRA No. 7	508906	45907
EZRA No. 8	508907	45908
EZRA No. 9	508908	45909
EZRA No. 10	508909	45910
EZRA No. 11	508910	45911
EZRA No. 12	508911	45912
EZRA No. 13	508912	45913
EZRA No. 14	508913	45914
EZRA No. 15	508914	45915
EZRA No. 16	508915	45916
EZRA No. 17	508916	45917
EZRA No. 18	508917	45918
EZRA No. 19	508918	45919
EZRA No. 20	508919	45920

The claims were staked by D.R. Foster on April 14, 1964, and recorded on April 24, 1964.

The Ezra claims are bounded on the north by the Eden group, and on the south by the Job group, which are also being explored by New Indian Mines and Vananda Explorations. On the northeast, North Pacific Mines are developing interesting copper showings; on the west, the Huestis Mining ground is under option to Cominco.



HIGHLAND VALLEY
PROPERTY MAP

SHOWING LOCATION OF JOB, EZRA, EDEN GROUPS
VANANDA EXPLORATIONS LTD
NEW INDIAN MINES LTD

DEC. 1964

TO ACCOMPANY REPORT OF F.J. HEMSWORTH.

F.J. Hemsworth

GENERAL DESCRIPTION

The Highland Valley is a southeast-trending valley, having an elevation of between four and five thousand feet above sea level.

Ezra No. 20 on the southeast boundary of the group adjoins the Highland Valley road and Witches Brook. The drainage from Witches Brook is easterly into Guichon creek. Access to the north and central portions of the Ezra claims is by a new road constructed this summer. The new road is a continuation from the BA mine road from a point two miles north of the Highland Valley road.

The property lies on the north side of the valley. The ground rises gradually and the hillside is covered with a moderate growth of pine and fir. Swampy areas are common. Except on the ridges the ground is covered by glacial drift. The depth of overburden on most of the surface areas makes the determination of geological structure difficult.

GEOLOGY

The few outcrops on the Ezra property are granitic rocks of the Guichon Batholith of Jurassic Age.

The only evidence of copper mineralization was in several small pieces of granite float showing specks and blebs of malachite. These were found on the new road near the boundary between Ezra No. 5 and Ezra No. 6 claims.

GEOCHEMICAL SURVEY

Survey of Grid

The location lines of the claims, which run in an easterly direction, were surveyed by Brunton compass and chain, and used as baselines. Stations were marked at 300-foot intervals along the baselines. From these stations lines were run north and south to the claim boundaries. Soil samples were taken at 100-foot intervals along these north-south sidelines. The grid thus formed had 300-100 foot intervals as shown on the geochemical plan. In addition a survey was made of the road and its relation to the claim boundaries.

Soil Sampling Method

The field crew consisted of two men. At the sample intervals, (100 feet), a shallow hole was dug with a garden trowel. The hole was deep enough to get below the surface humus. The soil samples were taken at a depth of about six inches (A-3 horizon). About 200 grams of soil was placed in a small plastic bag, labelled, rolled up, and secured with an elastic band. Samples were carried back to camp in a small pack-sack.

Analyses

The spot tests for copper were made on a crude table at the tent camp. A $\frac{1}{4}$ teaspoon of soil was placed in a test tube with acetic acid extracting solution, mixed well, and filtered onto a strip of rubeanic acid paper. A blue spot indicated the presence of copper, the intensity of the blue color being proportionate to the amount of copper present. The results were compared with a set of standards prepared at the University of British Columbia, and the parts per million of copper estimated. The results are shown on the geochemical plan, in the report envelope.

Interpretation of the Results


Of a total of 1,714 samples tested, 1,592 showed 0.4 or less parts per million of copper; 72 had 1 part per million; 39 had 2 parts per million; 8 had 4 parts per million; and only 3 had 10 parts per million.

All results of 2 parts per million or higher have been colored on the plan. Results were disappointing as only isolated highs were found, and there was no pattern of anomalous values which could be contoured rationally. The results were patchy with only a few isolated highs showing up. Haloes or anomalous conditions, which might reflect or suggest the presence of large orebodies, were not evident.

The considerable depth of overburden, on most of the claims, mitigates against any positive conclusions. However, the possibility of any large bodies of copper mineralization in the underlying rock appears remote.

Respectfully submitted,

December, 1964.


F.J. Hensworth, P.Eng.,
Consulting Mining Engineer.

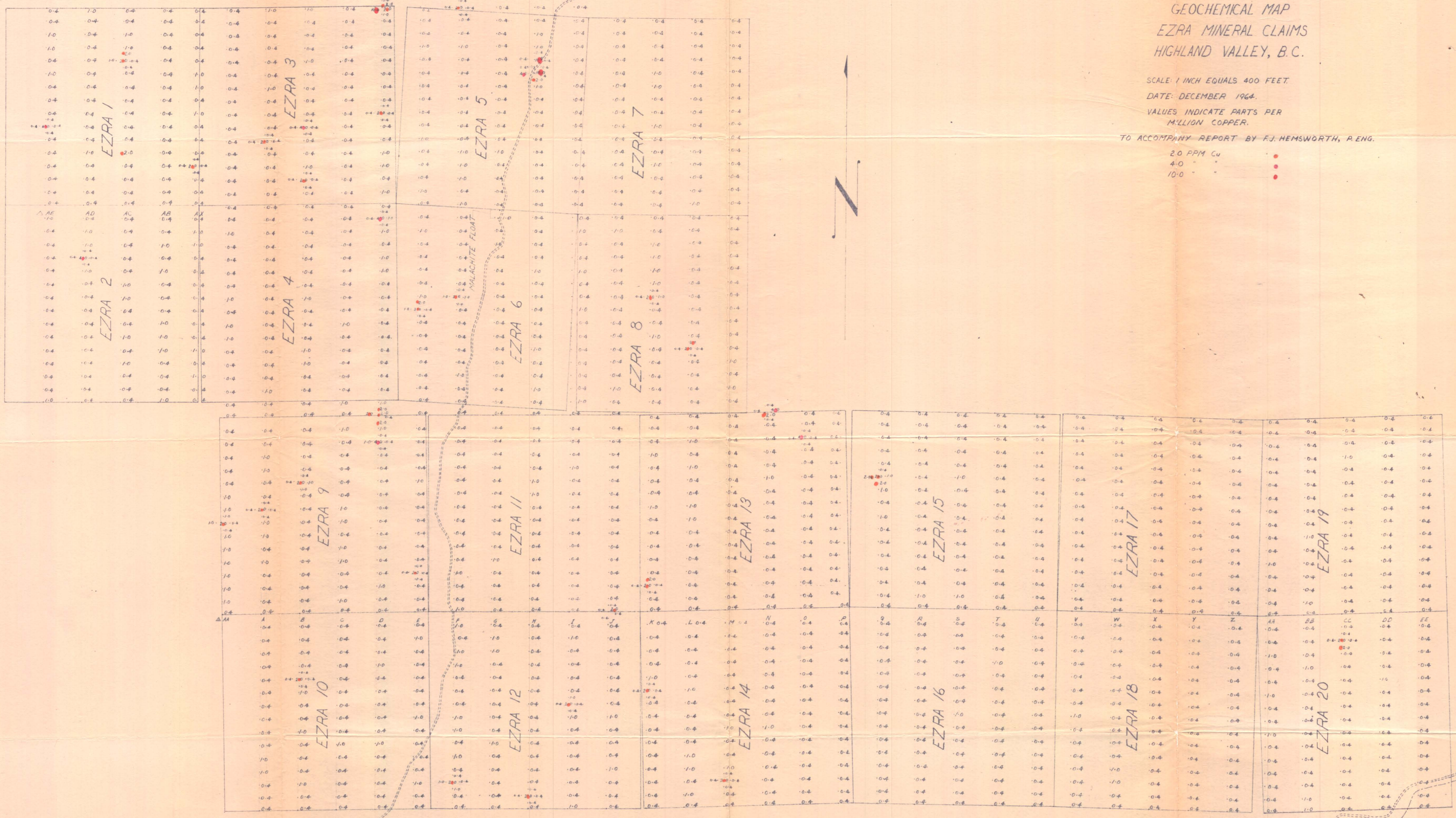
GEOCHEMICAL MAP
EZRA MINERAL CLAIMS
HIGHLAND VALLEY, B.C.

SCALE: 1 INCH EQUALS 400 FEET.
DATE: DECEMBER 1964.

VALUES INDICATE PARTS PER
MILLION COPPER.

TO ACCOMPANY REPORT BY F.J. HEMSWORTH, P. ENG.

2.0 PPM Cu ●
4.0 " ●
10.0 " ●



606