REPORT
ON
SOIL GEOCHEMICAL SURVEY

ATTYCELLEY NO. 2 GROUP
(Attycelley Mineral Claims No. 7-10)

Situated 7 miles east of north end of Thutade Lake,
Omineca Mining Division
British Columbia

57°06'N; 126°43'W

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3694 MAP

By
S.C. Gower
R.W. Stevenson, P. Eng.
August 30, 1971

March 7, 1972
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1" = 500'
# LIST OF CLAIMS AND DISTRIBUTION OF WORK

**Artycelley No. 2 Group**

<table>
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<tr>
<th>Claim No.</th>
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<th>Soil Geochem. Work Ea. Claim</th>
<th>Years Applied</th>
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**Total**: $527.50  
Years Applied: 5
INTRODUCTION

The mineral property discussed in this report is situated about 7 miles east of the north end of Thutade Lake, B.C. The exploration work on these consisted of a soil geochemical survey. All work is being applied on claims having a record date of August 13.

The work was done under the immediate supervision of S.C. Gower and the general supervision of R.W. Stevenson, P. Eng. The work was done on August 30, 1971.
LOCATION AND ACCESS

The property is situated at Latitude 57°06'N, Longitude 126°43'W between 5000' to 6000' a.s.l. The survey area is situated 7 miles east of the north end of Thutade Lake on a mountain ridge.

Access to the property is by fixed-wing aircraft from Smithers to Thutade Lake, a distance of 165 miles, and by trail or helicopter from there. Local travel on the property is hampered by steep topography. Thus helicopter setout on the property was useful in minimizing unproductive travel time from the valley to the sampling area.
SOIL GEOCHEMICAL SURVEY

Soil Survey Field Work

Control lines were established by chain and compass survey and sample sites were marked by surveyors flagging.

The direction of the soil line is southeast. Samples were taken at 50' or 100' spacings. The locations of the sample sites are shown on Plate No. 1. Soil samples were taken from the top of the "B" horizon.

The samples were collected by digging a small hole with a mattock. By this means it was possible to see where the top of the "B" horizon was. The soil sample was then taken by hand from the material caught in the elbow of the mattock.

A note was made of the location, the sample number, the depth to the top of the "B" horizon, the direction of drainage and the type of vegetation.

Packaging

The samples were placed in 9" x 4" brown paper envelopes on which the sample numbers had been marked. These were closed with a triangular triple fold. (The bags are not anomalous in trace metals).

Sample Preparation

The samples were shipped to Kennco's laboratory in North Vancouver, where they were oven-dried at 80°C and sieved through an 80-mesh stainless steel screen. (These sieves do not show noticeable wear even after several thousand samples have been sifted). The minus 80-mesh fraction was collected for all the analyses involved.
Analysis

The samples were analysed in the North Vancouver laboratory of Kennco Explorations, (Western) Limited, under the supervision of H. Goddard, laboratory manager. Total extraction from a weighed sample is achieved by digestion with concentrated nitric acid and 70% perchloric acid. Determination of the Cu, Mo, Pb, Zn, Ag, Co, Ni content is made by aspiration in a Techtron AA5 Atomic Absorption Spectrophotometer. To determine the gold content, a weighed sample is digested in aqua regia, filtered, and the gold removed by solvent-solvent extraction in an organic solvent, MIBK (methyl-isobutyl-ketone). This is aspirated in the Techtron AA5. To determine the Hg content a weighed sample is digested in warm H₂SO₄ and HNO₃, treated with hydrogen peroxide and KMnO₄ then diluted with hydroxylamine sulphate and sodium chloride solutions. Stannous sulphate reagent is added immediately before the mercury concentrations are measured in a Techtron AA5.

Interpretation

Galena, sphalerite and chalcopyrite mineralization in quartz veins has been discovered in the east half of the claim area. The purpose of the soil survey was to search under shallow drift cover on the west side of the claim areas for anomalous concentrations of Pb, Zn, and Cu which might be the surface expression of drift covered mineralized veins. Depth of overburden in the survey area is estimated to be between 2' and 10', and the "B" soil horizon is well developed. Previous sampling had shown that anomalous concentration of metals were present in soil adjacent to known showings. Mercury in soil was analyzed in the expectation that mercury vapor emanating from a vein, or its localizing structure would produce a halo which would indicate trenching targets in areas of deeper overburden.

On the basis of anomalous concentrations of Ag, Cu, Pb, Hg, and Zn in the survey area it appears that a vein or veins underlie drift cover in the vicinity of 6+00 to 14+00. This area
should be trenched and any veins exposed should be sampled. Mercury anomalies at 1+00 and 18+00 indicate the presence of either structures or veins covered by deeper overburden. These anomalies should be followed-up by either deep soil sampling or trenching.

Vancouver, B.C.
March 7, 1972

S.C. Gower
R.W. Stevenson, P. Eng.
STATEMENT OF COSTS INCURRED

The costs incurred on assessment work on the Attycelley No. 2 group of mineral claims were as follows:

Analysis of 37 soil samples for Cu, Mo, Pb, Zn, Ag, Au, Co, Ni

$203.50

Hg

$74.00

Wages & Board

S.C. Gower Aug. 30, 1971 $35.00 + $15.00 $50.00

R. Lopaschuk Aug. 30, 1971 $17.00 + $15.00 $32.00

C. Archibald Aug. 30, 1971 $16.00 + $15.00 $31.00

Helicopter set-out on the property 0:30 hrs @ $175/hr $87.00

Drafting & Typing $50.00

Total .. $527.50

Declared before me at the City of Vancouver, in the Province of British Columbia, this 22 day of June 1972, A.D.

[Signature]

A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia,
Sub-Mining Recorder

[Signature]
KENNCO EXPLORATIONS (WESTERN) LIMITED

Attycelley Claims

Cassiar Reconnaissance Omineco M. D., B.C.
Soil Geochemical Survey
Molybdenum in Soil

All Metal Values in PPM

DRAWN BY J. G. L. DATE 7/3/72 SCALE 1" = 500'
TRACED BY DATE
REVISIONS P.N.S.Y.
Claim Outline

Anomalous

Weekly Anomalous

KENMCO EXPLORATIONS (WESTERN) LIMITED

Attycelley Claims

Cassiar Reconnaissance
Omineca M. D., B. C.
Soil Geochemical Survey
Lead in Soil

DATA BY S. C. G.

DRAWN BY J. Q. L. DATE 7/3/72 SCALE 1" = 500'

TRACED BY DATE

REVISIONS P.N.S.Y.

Fill No.
Claim Outline

Anomalous

Weakly Anomalous

KENNCO EXPLORATIONS (WESTERN) LIMITED

Attycelley Claims

Cassiar Reconnaissance

Omneco M.D., B.C.

Soil Geochemical Survey

Nickel in Soil

Data by S.C.G.  N 7 1944 - E  FL NO  9

Drawn by: J. G. L. DATE 7/3/72 SCALE: 1" = 500'

Traced by: DATE

Revisions P.N.S.Y. FILE NO