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ALLAN P. FAWLEY, PH.D., P.ENG.
CONSULTING MINING AND GEOLOGICAL ENGINEER

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1947 WEST KING EDWARD AVENUE
VANCOUVER 9. BRITISH COLUMBIA

PROGRESS REPORT AND RECOMMENDATIONS

for the

MENARD CREEK AND AIKEN LAKE PROPERTIES

Ominica Mining Division

of

NEW WELLINGTON MINES LIMITED (N.P.L.)

BRITISH COLUMBIA

by

Allan P. Fawley

Property Examined November 29 and 30, 1966
Report Written December 1966

MENARD CREEK AND AIKEN LAKE PROPERTIES
NEW WELLINGTON MINES LIMITED (N.P.L.)

INTRODUCTION

An active exploration program was undertaken by New Wellington Mines Limited during the 1966 field season on their Menard Creek property, and the program should be continued and expanded in 1967.

This report is based on Government reports and maps, on a study of air photographs of the area, on a recent geological report on the property by W. G. Stevenson (Consulting Geologist), on an induced polarization geophysical survey by Geofax Surveys Ltd. (October 1966), and on a personal examination of the Menard Creek property on November 29 and 30, 1966.

LOCATION AND ACCESS

New Wellington Mines have groups of claims at both Aiken Lake and at Menard Creek, both of which are in the Ominica Mining Division, British Columbia. The Menard Creek claim group is about thirty-five miles northwest of the Aiken Lake group.

The Aiken Lake property is on the northern side of Aiken Lake which is one hundred and twenty-five miles northeast of Smithers and one hundred and fifty miles N.N.W. of Fort St. James (see enclosed location map). Access to Aiken Lake is by air from Smithers or Fort

St. James, or by gravel road for one hundred and seventy-eight miles from Vanderhoof to Uslika Lake and from there to Aiken Lake by a "cat" trail which is passable by 4-wheel drive vehicles during dry periods.

The Menard Creek property covers an area about five miles long and one and one-half miles wide on the southwest side of the McConnell Range, and can be reached by "cat" trail from Aiken Lake or by air to Thorne Lake and then by seven miles of trail to the base camp in Moose Valley, or small planes can land during part of the year on a short runway beside the base camp. Supplies can be freighted by water from Fort St. James to Bulkley House for $40.00 per ton, and then flown the remaining seventy miles to the Menard Creek property.

The proposed route of the northerly extension of the Pacific Great Eastern Railroad would pass through the Bear Lake area and down the Mosque River which, at its closest point, would be approximately fifty miles to the west of the Menard Creek property.

Both groups of claims are in mountainous country; those near Aiken Lake are at an elevation of about 3,500 to 4,000 feet above sea level, while those at Menard Creek are mostly above 5,000 feet. Lakes in the area are covered by ice until about the end of May, but the lower valleys should be clear of snow a month earlier.

PROPERTIES

The Aiken Lake property consists of fourteen claims, of which ten are called the Silver C and four are called the Golden Jack while the Menard Creek property consists of a block of one hundred and one claims

which are named Marmot 1 to 101.

HISTORY

The Silver C and Golden Jack claims of the Aiken Lake property were formerly called the Jupiter and Polaris groups. They were staked for and explored by the Consolidated Mining and Smelting Company of Canada Limited who carried out extensive underground work and stripping. So far as known, no work has been done on the property since 1937.

Little is known about the history of the Menard Creek property but it is referred to by Dr. C. S. Lord (1948) in Memoir 251 of the Geological Survey of Canada, and in 1965 G. L. Holbrooke stated that "the property has been prospected in considerable detail but the only development consists of several shallow trenches across the main veins".

GENERAL GEOLOGY

Briefly, at the Aiken Lake property, Mississippian to Permian volcanic and sedimentary rocks are in fault contact with similar type rocks but of the Takla group which are of Triassic to Jurassic age, while at the Menard Creek property Triassic and Jurassic volcanic rocks, etc. are cut by granitic rocks of the Ominica intrusions. For more details see earlier reports by the writer or the report by W. G. Stevenson.

DESCRIPTION OF PROPERTIES

The Aiken Lake property is predominantly lead-zinc-silver, while the Menard Creek is predominantly a copper property with additional values in gold and silver.

Copper mineralization occurs at the Menard Creek property in the form of bornite, chalcocite and minor chalcopyrite both in steeply dipping shear zones and as disseminated aggregates in andesite porpyhyry. Very little pyrite is present. For further details see previous reports by the writer, by G. L. Holbrooke (1965), and by W. G. Stevenson (1966).

WORK UNDERTAKEN IN 1966

Most of the equipment (including two D6 Caterpillar bulldozers, Mercedes-Benz Unimog, trailers, welding equipment, etc. etc.) which were purchased from Columbia Placers Ltd., was moved to the Menard Creek property. Several temporary camps were set up and a base camp location was finally chosen in Moose Valley where a small landing strip was built. Access roads and trails were constructed, trenching was carried out on the claims, a geological examination was made by W. G. Stevenson, and an induced polarization geophysical survey was carried out by Geofax Surveys Ltd. which "revealed four Primary Zones (anomalies) and three Secondary Zones".

CONCLUSIONS AND RECOMMENDATIONS

Copper mineralization is widespread on the Menard Creek property and there is a possibility of finding a large (porphyry type) copper deposit on the claims.

Time did not permit an exploration program on the Aiken Lake property this season. Work should continue to be concentrated on the Menard Creek property but some exploration work, mainly trenching and/or hydraulicking, should be done on the Aiken Lake property in 1967.

Detailed recommendations are as follows:

1. Fly a small advance party to the Menard Creek property in the spring to erect extra buildings at the base camp in Moose Valley; to build a small tent camp at the top of the tree line near the main copper showing on the McConnell Range; for maintenance and repair work on the machinery which includes two Caterpillar D6 bulldozers, compressor, 4-wheel drive Unimog, diesel generators, hydraulic pumps, portable electric welder, drills, etc.; and to construct a second, and longer, airstrip near the base camp (the present airstrip is only 1,800 feet long).

2. When the camps and runways have been completed and the machinery is in good repair, start bulldozer trenching on the west side of the claims group.

3. Fly in a geologist and the remainder of the crew about June 1st. The crew should now consist of the exploration manager (Mr. W. D. Savage), geologist, two "cat" men (one to be a mechanic and welder), cook, and spare man ("jack of all trades").

4. As snow conditions permit, carry out reconnaissance geological

and geochemical (soil sampling) surveys and a detailed prospecting program over the entire group of claims.

5. Complete a detailed geological, geochemical and magnetometer survey over any claims where geochemical anomalies are found during the reconnaissance survey or where copper sulphides or other mineralization is found.

6. Survey and geologically map all bulldozer work on a scale of 1 inch to 50 feet, and carefully channel sample all zones where copper or other metallic mineralization is noted. Take large samples and later quarter them for shipping.

7. Arrange for an induced polarization geophysical crew to arrive on the property about August 1st to continue the induced polarization survey started in the 1966 field season to determine the full size of the anomalies that were found, and to carry out induced polarization surveys over any geochemical anomalies discovered, over mineralized zones located by prospecting or exposed by bulldozer trenching, and over favourable geological locations.

8. Drill any induced polarization anomalies that are discovered of possible economic size.

ESTIMATED EXPLORATION EXPENSES

A budget of $113,000.00 should be available to carry out the program recommended in the previous section.

Details are as follows:

Cost of men (including wages, board, etc.) for six months, approximately	$ 28,000.00
Flying charges, approximately (Charges for an amphibious "Goose" aeroplane making one trip a week is $1,700.00 per month)	10,000.00
Fuel and repair parts for the bulldozers and other equipmont, estimated at	5,000.00
Administration, assays, engineering fees and contingencies, about	10,000.00
Induced polarization surveys, about	10,000.00
Diamond drilling, 4,000 feet at $12.50 per foot	50,000.00
TOTAL	$113,000.00

Respectfully submitted,

Allan P. Fawley, B.A.Sc.
M.Sc., Ph.D., P.Eng.

Consulting Mining and Geological Engineer

Vancouver, B.C.

December 19, 1966.

CERTIFICATE

I, ALLAN PRIEST FAWLEY, of the City of Vancouver, in the Province of British Columbia, HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer and Geologist, and my address is 1947 West King Edward Avenue, Vancouver 9, B.C.

2. THAT I am a graduate of the University of British Columbia with the degree of B.A.Sc. (1937) in Mining Engineering, of Queen's University with the degree of M.Sc. (1946) in Geology, and of the University of California with the degree of Ph.D. (1948) in Geology.

3. THAT I am a registered Professional Engineer in the Province of British Columbia and in the Yukon Territory, and also a member of the Society of Economic Geologists, of the Canadian Institute of Mining and Metallurgy, and of the Geochemical Society.

4. THAT I have practised my profession as a geologist for more than twenty years.

5. THAT I have no direct interest or indirect interest, nor do I expect to have any interest in New Wellington Mines Ltd. or in the Aiken Lake or Menard Creek properties.

6. THAT I have no direct or indirect interest in any company acquiring control or intending to acquire control of New Wellington Mines Ltd. or of the Aiken Lake or Menard Creek properties.

7. THAT this report on New Wellington Mines Ltd. is based on my personal examination of their Menard Creek property on November 29 and 30, 1966.

DATED this 19th day of December, 1966.

Allan P. Fawley, Ph.D., P.Eng.
Consulting Mining and Geological Engineer