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**Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT**

NO. 538 MAP

APPENDIX "A"

Statement of Qualifications of Leon A. Hansen, B.S.

Geochemist and Consultant

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- 1954: B.S. Physical Geology, University of Utah.
- 1963: M.S. Mineralogy, option Geochemistry;  
(graduation pending completion of writing  
thesis).
- 1950-1954: Part-time research in applied geochemistry  
for International Smelting and Refining  
Co. and The Anaconda Company, Utah.
- 1954-1963: Exploration geologist and geochemist, The  
Anaconda Company, Utah.
- 1963: Exploration geologist and geochemist, The  
Anaconda Company (Canada) Limited,  
Britannia, B.C.

APPENDIX "B"

STATEMENT OF COSTS OF THE SOIL SAMPLING SURVEY

Soil Sampling and Line Marking:

Labour	63 man days for eight men	\$1046.00	
Maintenance		<u>187.00</u>	\$1233.00
Soil Sample Analysis	618 samples @ \$1.00		618.00
Soil Sampling Supplies			40.00
Transportation			130.00
Mapping and Printing			50.00
Supervision			275.00
			<u>\$2346.00</u>

I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act".

Declared before me at the *City* )  
of *Vancouver* , in the )  
Province of British Columbia, this *24* )  
day of *January, 1964* , A.D.)

*Robert Mason*

*Shirley Gannotte*.....

**Sub-mining Recorder**

A Commissioner for taking Affidavits within British Columbia or a Notary Public in and for the Province of British Columbia

APPENDIX "B"

EVIDENCE OF EXPENDITURES INCURRED

Salaries and Wages:

<u>Name</u>	<u>Category</u>	<u>Rate</u>	<u>Dates Worked</u>	<u>Wages</u>	<u>Time</u>
R. Adamson	Geologist	\$825.00/mo.	Oct. 22 - Oct. 31, 1963	\$239.00	9 days
J. Roscoe	Sampler	\$550.00	Oct. 22 - Oct. 31, 1963	\$160.00	9 days
F. Foran	Sampler	\$495.00	Oct. 22 - Oct. 31, 1963	\$143.00	9 days
C. Mitchell	Sampler	\$440.00	Oct. 22 - Oct. 31, 1963	\$128.00	9 days
D. Nicholl	Sampler	\$440.00	Oct. 22 - Oct. 31, 1963	\$128.00	9 days
B. Watson	Sampler	\$410.00	Oct. 22 - Oct. 31, 1963	\$120.00	9 days
W. Allen	Cook	\$440.00	Oct. 22 - Oct. 31, 1963	\$128.00	9 days
				<u>\$1046.00</u>	<u>63 days</u>

I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act".

Declared before me at the *City* )  
of *Vancouver* , in the )  
Province of British Columbia, this *24* ) *Roderick Hoover*  
day of *January, 1964* , A.D.)

.....*Shirley Jermotte*.....  
*Shirley Jermotte*  
**Sub-mining Recorder**  
A Commissioner for taking Affidavits Within British Columbia or a Notary Public in and for the Province of British Columbia

JULIAN MINING COMPANY LIMITED

GEOCHEMICAL SURVEY

of the

BELL CLAIM GROUP

Introduction:

The BELL Claim Group comprises nineteen claims and one fraction, the BELL #20 Fr. Nineteen of these claims were staked by Eugene Smith in January, 1961, and were purchased by Julian Mining Company in June, 1963. BELL #20 Fr. was staked by Julian Mining Company in May, 1963 and recorded in June, 1963.

In 1961, a sensitive magnetometer survey was completed over this Group, which survey failed to define structure or contacts, between rock formations. Two drill holes drilled in 1962 indicated molybdenite occurs on BELL No. 1 mineral claim. Extensive molybdenite as float occurs on BELL Nos. 1, 2, 4 and 6 mineral claims.

A grid-type soil-sampling program was planned and samples were taken in October in an attempt to outline concentrations of molybdenum ions if present in the soil.

Description:

The BELL Group consists of the following adjoining claims: BELL Nos. 1 to 19 inclusive and BELL #20 Fraction. The Group is located a mile and a half north of Francois Lake and approximately five miles S.SE. of Endako, B. C.

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Bedrock is masked on the north half of the Claim Group; test holes drilled on BELL No. 2 indicate there is 50 feet or more of cover. On the south half, bedrock is exposed at intervals and it is estimated the cover is, on the average, less than 10 feet. Pine, spruce, balsam occur as second-growth, and willow and alder occur in the more recently logged areas.

Geology:

Topley granodiorites are the only rocks known on these claims. Rhyolite dikes and aplite dikes are suspected from float evidence.

Reason for the Survey:

The survey was conducted in an attempt to locate concentrations of molybdenum ions where investigation of the sub-surface could be concentrated.

Details of the Survey:

The north claim centre-line was cleared and designated a base-line. Grid survey lines were cut north-south using chain and compass and were marked at intervals of 200 feet. The grid-line interval was 600 feet. A sample of the soil was taken from the A-2 zone at intervals of 400 feet on the grid-lines and at offset distances of 200 feet at the mid-point on the grid-lines. Where possible, the sample was taken from the base of the largest coniferous tree. The zone of origin of the sample, distance from surface, specie of tree and diameter were recorded.

As the grid survey proceeded, east and west the lines were chained to

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insure parallelism of lines and corrections were made. Where survey lines intersected claim lines, the claim posts were tied in to the survey.

Seven hundred and ten samples were taken from the claim group. Six hundred and eighteen samples were analysed for molybdenum.

Method of determining Molybdenum Content:

A sample was taken from the A-2 zone if available or from the A-1 or A-0 zones.

A standard weight of dried soil sample was screened to sub mesh to the inch. The sample was then given a hot acid digestion from which a standard acid solution was allowed to cool and settle until clear.

A standard aliquot of sample solution was then combined with thiocyanate, etc. to form a colored complex and the parts per million of molybdenum were determined spectrophotometrically by measuring the transmittancy of the colored complex. Parts per million were determined from a graphic comparison of similarly prepared standards.

Results of the Soil Sampling Survey:

Soil-sampling surveys, completed prior to this survey in this area have indicated that twenty parts per million (ppm) of molybdenum is anomolous, and concentrations down to ten ppm. are significant in any area where, locally, molybdenum ions occur in concentrations of twenty ppm. or greater.


A map on a scale of 200 feet to the inch is enclosed showing the location and value in ppm. of molybdenum with reference to the location lines of the claims and their claim posts.

Two major and one minor anomolous areas resulted from the survey. A long, narrow anomoly follows the south boundary of BELL No. 1. BELL No. 3 and BELL No. 5 have an indicated length of 3000 to 4000 feet and a width varying from 300 to 600 feet. A ring-shaped anomolous area occurs on BELL No. 2 and BELL No. 4; it's long axis is approximately 2500 feet. A minor anomoly occurs in the south-east corner of BELL No. 10.

The two major anomolous areas warrant an examination of the bedrock. The minor anomolous area warrants more detailed soil sampling.

Respectfully submitted,

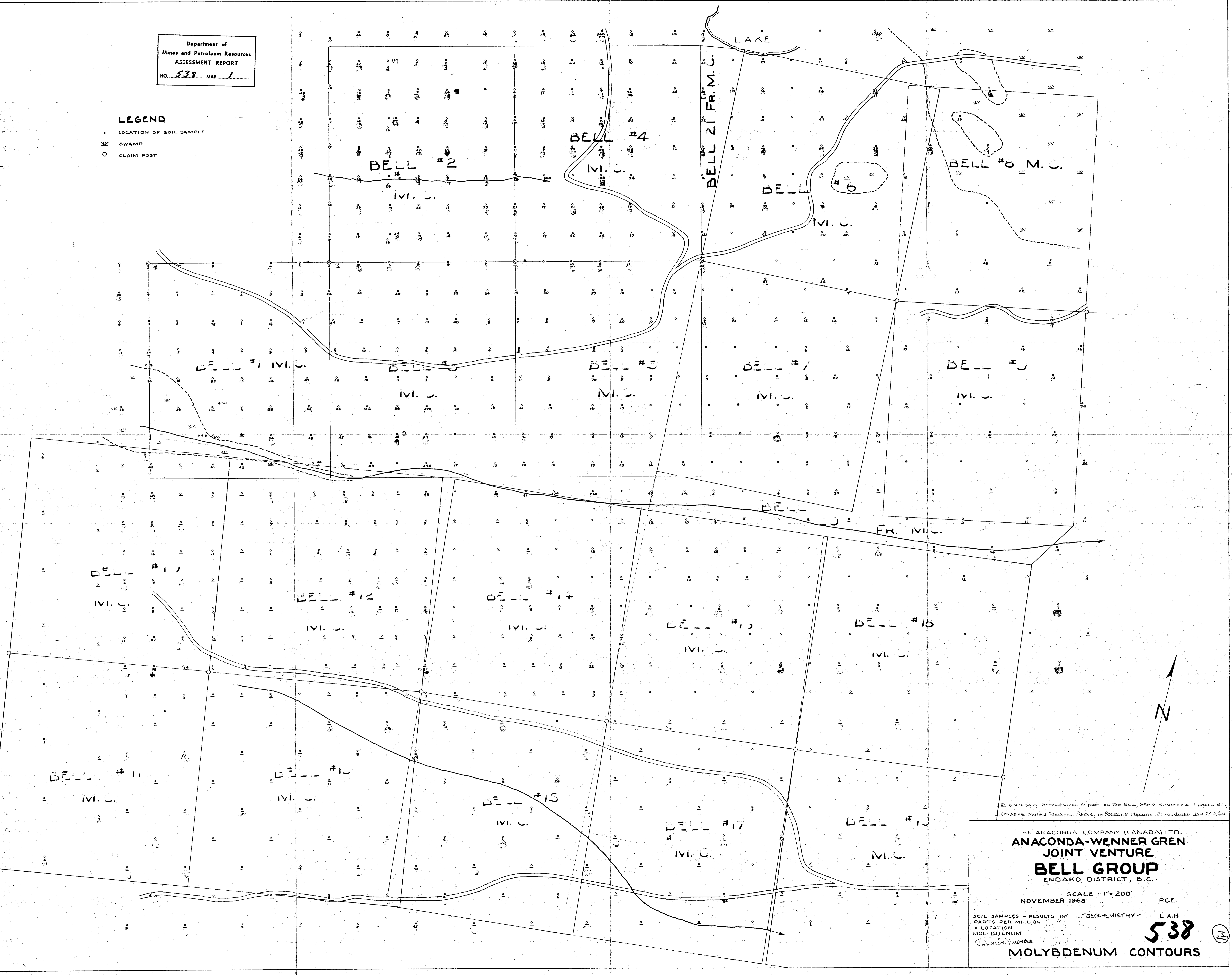
January 24, 1964.

  
Roderick Macrae, P.Eng.



**LEGEND**

- LOCATION OF SOIL SAMPLE
- ≡ SWAMP
- CLAIM POST



TO ACCOMPANY GEOCHEMICAL REPORT ON THE BELL GROUP, SITUATED AT ENDAKO B.C.,  
ONTARIO MINING DIVISION. REPORT BY ROBERT K. MACRAE, P. ENG. DATED JAN 24/1964

THE ANACONDA COMPANY (CANADA) LTD.  
ANACONDA-WENNER GREN  
JOINT VENTURE  
**BELL GROUP**  
ENDAKO DISTRICT, B.C.

SCALE: 1" = 200'  
NOVEMBER 1963 P.C.E.

SOIL SAMPLES - RESULTS IN GEOCHEMISTRY L.A.H.  
PARTS PER MILLION.  
• LOCATION  
MOLYBDENUM  
L.A.H.

**538**

**MOLYBDENUM CONTOURS**