

515

CANADIAN EXPLORATION LIMITED

**GEOLOGICAL AND GEOCHEMICAL REPORT**  
**ON THE**  
**BINGO NOS. 1 - 10 AND 31 - 40 MINERAL CLAIMS**  
**FOR**  
**ENDAKO MINES LTD. (N.P.L.)**  
**FRANCOIS LAKE AREA 93 K/3 S.E .**  
**OMINECA MINING DIVISION, BRITISH COLUMBIA**

93K/3E

September 5, 1963

C. W. Ball  
C. E. Dunn  
R. E. Cribbs

TABLE OF CONTENTS

|                                      | <b>Page</b> |
|--------------------------------------|-------------|
| <b>SUMMARY</b>                       | 1           |
| <b>AGREEMENT</b>                     | 1           |
| <b>EXPLORATION AND DEVELOPMENT</b>   | 1           |
| Access and Control                   | 1           |
| Geology                              | 2           |
| Geochemical Sampling                 | 2           |
| As says                              | 2           |
| <b>GEOLOGICAL FINDINGS</b>           | 3           |
| <b>ASSAY RETURNS</b>                 | 3           |
| <b>EVALUATION</b>                    | 4           |
| <b>RECOMMENDATION</b>                | 4           |
| <br>                                 |             |
| <b>APPENDIX I STATEMENT OF COSTS</b> |             |

LIST OF ILLUSTRATIONS

- Map No. 1**    **Claim Map Bingo Nos. 1-10 and Nos. 31-40 Mineral Claims - Scale 1" = 1,000'**
- Map No. 2**    **Geological Sketch Map Bingo Nos. 1-10 and Nos. 31-40 Mineral Claims - Scale 1" = 1,000'**  
**Dated September 5, 1963 by C. W. Ball, P.Eng.**
- Map No. 3**    **Geochemical Map Bingo Nos. 1-10 and Nos. 31-40 Mineral Claims - Scale 1" = 1,000'**  
**Dated September 5, 1963 by R. E. Gibbs**

|                                      |           |
|--------------------------------------|-----------|
| Department of                        |           |
| <b>Mines and Petroleum Resources</b> |           |
| <b>ASSESSMENT REPORT</b>             |           |
| NO. ....                             | MAP ..... |
| 515                                  |           |

## SUMMARY

Geological traverses and geochemical soil sampling were conducted on the Bingo Nos. 1-10 and 31-40 Mineral Claims which border on the north shore of Francois Lake. Outcrops of normal red porphyritic granite have been mapped. Geochemical soil sampling has so far failed to reveal any anomalous readings. On the basis of the available geochemical results it is considered that the soil samples do not indicate any mineralization in the underlying granite bedrock. From the point of view of geological setting the Bingo ground is not regarded as favorable for molybdenum ore zones .

## AGREEMENT

The agreement dated "the 1st day of September, A.D. 1962" between Canadian Exploration Limited and Endako Mines Ltd. (N.P.L.) required Canex to carry out exploration and development work on the following Mineral Claims in the Omineca Mining Division:

| <u>Grouping</u> | <u>Name of Claim</u>   | <u>Record No.</u> | <u>Expiry Date</u> |
|-----------------|------------------------|-------------------|--------------------|
| Bingo No. 1     | Bingo Nos. 1-10 incl.  | 14216 -225 incl.  | Sept. 5, 1963      |
|                 | Bingo Nos. 31-40 incl. | 14246 -255 incl.  | Sept. 7, 1963      |

## EXPLORATION AND DEVELOPMENT

### 1. Access and Control

An east-west trending base line was cut by a D-8 cat.

One of the main objects of the base line was to serve as a control

line for the Bingo No. 1 Group of Mineral Claims in relation to geochemical surveys. The base line passes through Bingo No. 31 Mineral Claim.

2. Geology

Geological work was carried out on the Bingo No. 1 Group in June, July and August 1963, and the adjoining ground was also mapped geologically by Mr. C. W. Ball and his assistant Mr. Ed Rychkun.

3. Geochemical Sampling

A total of 116 soil samples were collected along north-south lines at 100 foot intervals. As shown on the attached map the geochemical lines are 1,000 feet apart. Samples were not taken in swampy areas where the humus layer was deeper than a foot or two.

4. As says

Assays are available for 116 samples collected in July. These were assayed for trace molybdenum content by University of British Columbia geochemistry laboratory. Results are colorometric using the ammonium thiocyanate method and acid extraction.

Samples collected in August will be analyzed in the near future at the Canex laboratory in Endako, at the Canex laboratory in Endako under the supervision of Mr. R.E. Cribbs.

### GEOLOGICAL FINDINGS

The granite mapped on the Bingo Claims is very similar to the normal red porphyritic granite typical of the Endako Mines Stella molybdenum area. It consists of a medium textured rock (red porphyritic granite) with phenocrysts of pink felspar generally sub-hedral, colourless plagioclase, quartz to the extent of about 20 percent and biotite partly as clusters and showing minor alteration to chlorite. In places the quartz forms sub-micrographic intergrowths with the felspar. Rare hematite stains were noted.

In addition to the normal joints as shown on the attached geological sketch map, the granite is characterized by a fine foliation striking 300 degrees and vertical. Thin aplite dykes up to 3 feet wide were observed and commonly strike as follows :  $040^{\circ}/80^{\circ}$ N. W.,  $350^{\circ}/70^{\circ}$ E.,  $290^{\circ}/60^{\circ}$ N.,  $015^{\circ}/-90^{\circ}$ .

No showings of molybdenite are known to occur on the Bingo Claims and it is considered that the ground is not favorable for the occurrence of commercial molybdenite ore.

### ASSAY RETURNS

The stream sediment and water from one of the streams draining the northern edge of this area was slightly anomalous in molybdenum. The molybdenum in the water may have originated from known mineralization two miles up the slope to the northwest and could

have been transported to its present position through underground water channels. The geochemical interpretation will therefore have to await the completion of the analysis of the soil samples from the western and northern parts of the Group.

The soil samples taken on the eastern half of the Group average about 1 ppm molybdenum which is similar to soils over un-mineralized granites.

#### EVALUATION

On the basis of widely spaced granite outcrops and geochemical assay results the area of the Bingo No. 1 Group is not considered favorable for ore. Slightly anomalous geochemical analyses in the northern sector were obtained from stream sediment and water samples. However, this is regarded as most probably due to migration from the known area of mineralization at Stella molybdenum showings two miles up slope to the northwest.

#### RECOMMENDATION

The area of Bingo No. 1 Group is underlain by granite which shows no signs of molybdenum mineralization. Favorable structure and rock alteration cannot be recognized. It is therefore recommended that the option be dropped.

Vancouver, B. C .  
September 5, 1963  
/mg

*Clive W. Ball P. Eng.*

**CANADIAN EXPLORATION LIMITED**

700 BURRARD BUILDING

VANCOUVER 5. B. C. CANADA

**This is to state that Mr. R. E. Cribbs is a graduate Geological Engineer of the University of Michigan and is fully qualified as a geochemist, having been engaged in such work during the past five years.**

*Clive W. Ball P. Eng.*  
**Clive W. Ball, P.Eng.**

**Vancouver, B.C.  
September 5, 1963**

In the Matter of

I, W. D. McDermott

of 700 Burrard Building, Vancouver, B.C.

in the Province of British Columbia, do solemnly declare that the following expenditures have been incurred by Canadian Exploration Limited in carrying out geological and geochemical work on the Bingo No. 1 Group of Mineral Claims (Bingo 1-10 and Bingo 31-40):

|   |                    |
|---|--------------------|
| 1. <u>Bulldozer Work</u>                      |                    |
| Cutting base line with a D-8 cat -            |                    |
| July 11 - 4 hrs.                              |                    |
| 13 - 8 hrs.                                   |                    |
| 15 - 4 hrs.                                   |                    |
| 16 - 9 hrs.                                   |                    |
| 17 - 12 hrs.                                  |                    |
| 19 - 8 hrs.                                   | 45 hrs. @ \$18/hr. |
|   | \$ 810.00          |
| Surveyors and cat swamper - 6 days @ \$60/day | 360.00             |
| Bulldozer supervision - 4 days @ \$20/day     | 80.00              |
| 2. <u>Geological Mapping</u>                  |                    |
| 5 man days @ \$40/day                         | 200.00             |
| Dates of geological field work -              |                    |
| June 5, 6 and August 2                        |                    |
| 3. <u>Geochemical Survey</u>                  |                    |
| Soil sampling - 10 man days @ \$30/day        | 300.00             |
| Supervision - 2 man days @ \$50/day           | 100.00             |
| Plus 50% overhead and general supervision     | 200.00             |
| Vehicle rental - 4 days @ \$10/day            | 40.00              |
| Assays of 116 samples by UBC @ \$1.00         | 116.00             |
|   | <hr/>              |
| TOTAL   | \$2,206.00         |
|   | <hr/>              |

And 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."

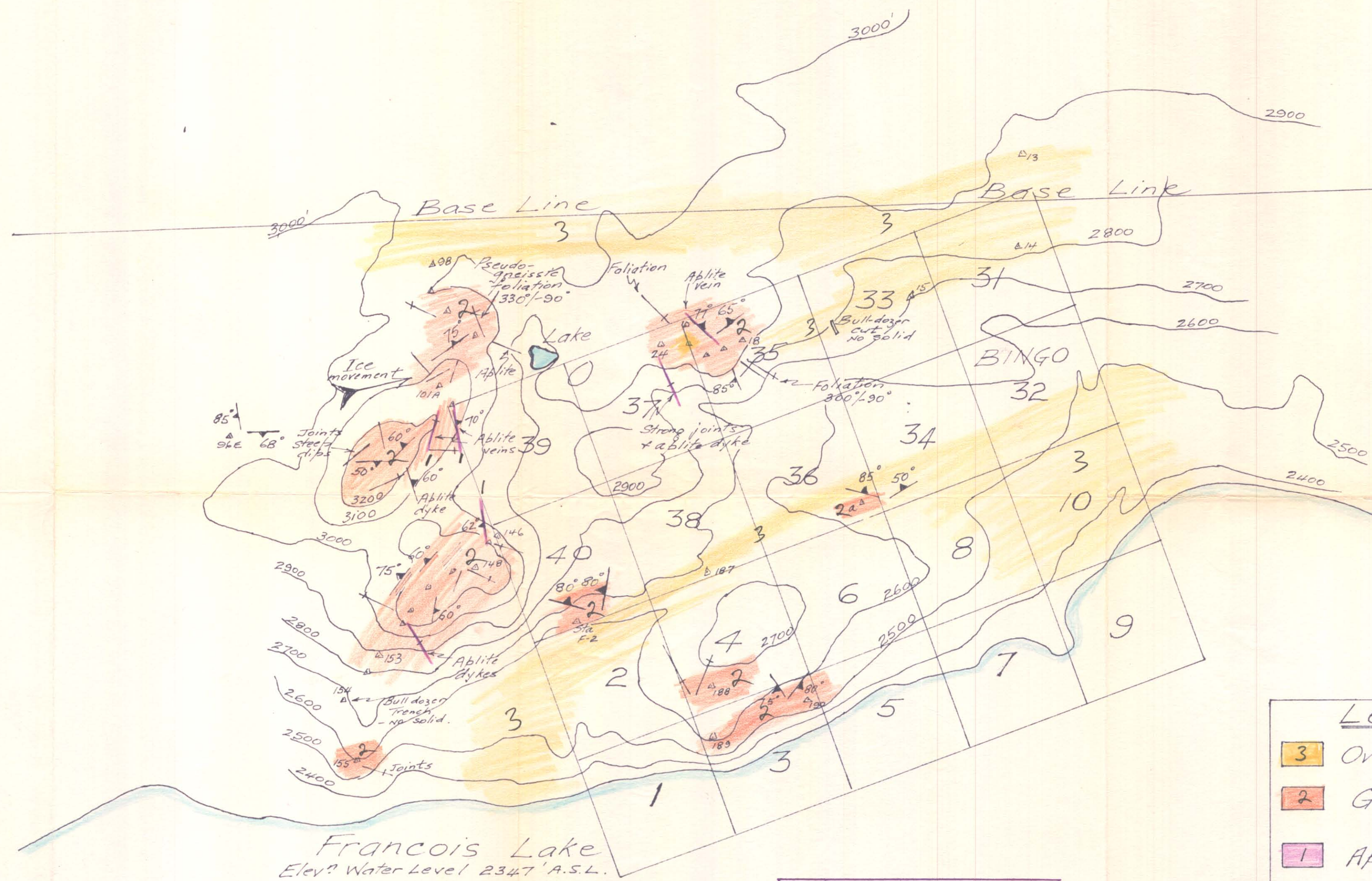
Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 5th  
day of September, 1963, A.D.

*W. D. McDermott*

*Shirley J. Annette*  
Sub-mining Recorder ~~Commissioner~~  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.



TRUE NORTH



515

Report 515

Legend:

- 3 Overburden
- 2 Granite
- 1 Aplite dykes
- 75° Strike and dip of Joints
- 3109 Contours (Elevations in feet above sea-level)

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 515 MAP 2

To accompany Geological and Geophysical report by C.W. Ball P.Eng and R.E. Cribbs on the Bingo No. 1 Group, Francois Lake, Omineca M.D., dated Sept. 5, 1963.

|              |                    |                                  |                           |
|--------------|--------------------|----------------------------------|---------------------------|
| DRAWN C.W.B. | SCALE 1" = 1000'   | CRAIGMONT MINES LIMITED (N.P.L.) | CANADIAN EXPLORATION LTD. |
| TRACED       | DATE Sept. 5, 1963 | ENDAKO MINES LIMITED.            | Claire W. Ball P. Eng.    |
| APPROVED     |                    | BINGO No. 1-10 & 31-40 M.C's     | FILE NO.                  |

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