ENGINEERING AND GEOCHEMICAL REPORT

A Group  Claim Sheet 106-D-1  64°06'N, 134°15'W
B Group  Claim Sheet 106-D-1  64°05'N, 134°12'W
MK Group  Claim Sheet 105-M-15  63°43'N, 134°49'W
JAH Group  Claim Sheet 106-D-1  64°02'N, 134°11'W

MAYO DISTRICT
YUKON TERRITORY

BY

Wilfred K. Lee, P.Eng.

Work Performed September 7-20, 1966

This report has been examined by the Geological Evaluation Unit. Approved as to technical worth by:

[Signature]
Resident Geologist

Approved as to cost in the amount of $67,620.99 by:

[Signature]
Resident Mining Engineer

Accepted as representation work under Section 53(4) Yukon Quartz Mining Act.

[Signature]
Commissioner of Yukon
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INTRODUCTION

This report describes work carried out September 7-20, 1966, on the A, S, JAB and MK claim groups, situated in the Beaver River and Mayo Lake areas, Mayo District, Yukon Territory (Figure 1).

The claim groups are all owned solely by Arivaca Explorations Limited, (N.P.I.) with offices at 1111-736 Granville Street, Vancouver, British Columbia. The claims were located early in 1965 and were all recorded on February 26, 1965 (McIntyre - 1966).

The writer in his capacity as a geological engineer was instructed to complete as much exploration work as possible, which could be used as representation work for Certificates of Work. The writer recommended the following program:

1. Hand trenching in areas of known E.M. anomalies.
3. Aerial reconnaissance of the claim groups by helicopter to note geological formations and structures.
4. Sampling gossan zones found in the area.

Previous Work

The Geological Survey of Canada carried out geochemical surveys along streams and springs in the Beaver River and Mayo Lake Areas, S.G.O. Maps (Beaver River 24-1964, 25-1964) and Mayo Lake, 19-1964, 1941954). This work was of a reconnaissance nature and could only be used to note the high heavy metal content (mainly Cu, Pb, and Zn) in the water courses flowing in the area.
Electromagnetic surveys were carried out on the above claim groups in February, 1966. Several EM anomalies were outlined by C.R. Salmsen, P.Eng. The significance of the anomalies as related to geology and geochemistry is described by McIntyre, P.Eng. (1966).

**Methods of Investigation**

**Trenching**

Trenches were excavated using a copco drill and explosives. Most of the trenches are situated in areas of known EM anomalies. Where possible trenches were excavated along steep cliff faces to allow the maximum amount of rock to be removed in the shortest period of time. Rock samples were taken from the trenches and assayed for silver, lead and zinc.

Geochemical soil sample surveys were conducted using pace and compass traverses. Soil samples were taken on an average of one sample every 200 feet along traverse lines. The samples were analyzed by the Bio-Metals Corp. Ltd. (N.P.L.) Vancouver, B.C. Samples were furnace dried with sulphuric and nitric acid and then taken up in ammonium acetate solution. The solution is then run through an E.E.L. Atomic Absorption Spectrographic Photometer. The analyses are recorded as parts per million (ppm).

Rock samples were assayed for silver, lead and zinc by J.R. William and Son Ltd., Provincial Assayers, Vancouver, B.C.
PROPERTY DESCRIPTIONS

JAB Group

Geology

The JAB group is underlain by low grade metamorphic rocks consisting mainly of phyllites and argillites, that are commonly graphitic. Minor amounts of platy argillaceous quartzite and quartz-sericite schist also occur. These rocks are mapped by Green and Raddick (1961) as Post Devonian.

The metasedimentary rocks are intruded by small plugs of gabbro and diorite, mapped as Cretaceous, Green and Raddick (1961). The mafic intrusions are now schistose having undergone metamorphism and deformation similar to the surrounding country rock.

The rocks exhibit well developed foliation and strike N50°W to N70°W, and dip 50° to 80° N.E. The axis of small folds tend to strike S50°E and plunge 50° to 80°.

Numerous white quartz stringers and veins intrude the phyllites and quartzites. Most of the quartz veins tend to parallel the foliation and bedding planes of the country rock. Many of the veins are stained with rust, although no fresh sulphides were observed.

Gossan zones found in the metasedimentary rocks are badly oxidized and leached. Thin lenses of pyrite and pyrrhotite occur along shear planes in the country rock. Many of the gossan zones coincide with known EM anomalies.

Trenching

Sixteen trenches involving 226.3 cu. yds. of rock were excavated. Most of these trenches were located along cliff faces to help facilitate the removal of rock.

The number of trenches and the amount of rock excavated are listed on the following page.
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<td></td>
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<tr>
<td></td>
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**Geochemical Surveys**

Numerous geochemical surveys have been conducted in the Galena-Keno Hill area, Yukon, by officers of the geological survey of Canada. Geochemical investigations of heavy metal content, of streams and springs, in the Galena Hill - Mount Naldene area, Yukon Territory, were carried out by Boyle et al. (1956). Chemical results of this survey show that zinc is the principal heavy metal in the stream water detected by the dithizone reaction. The concentration of lead and copper in all stream water is too low to be detected by routine methods. Boyle et al. (1956), conclude that the high dispersion of zinc is due to the high solubility of its sulphate, and that zinc is a good indicator element for tracing, mineralization by hydrogeochemical prospecting methods. They also conclude that the relative
immobility and limited dispersion of lead make this element
an ideal indicator in geochemical soil sample surveys.

A lead content of 25 ppm is considered background for
soil sample analyses taken from the JAB, A, B and MK groups.
This figure was chosen after studying a cumulative distri-
bution curve for lead in stream and spring sediment in the
Kane Hill area, Gleeson et al. (1964).

A zinc content of 100 ppm was chosen as background for
the JAB, A, B and MK groups. This value was arbitrarily
chosen by the writer. No cumulative distribution curve for
zinc is available for comparison.

Seventy-six soil samples were obtained from claims
JAB-4, 5, 6, 7, 8, 9, 10, 11, 12, 17, 19, 27, 22, 23, 24,
33, 35, 53 and 54. The samples were analyzed for lead,
zinc and silver, and are designated J-1 thru J-76 on the
enclosed geochemical analyses report.

The chemical results are not anomalous in silver or
lead, but do appear to be anomalous in zinc. However, an
increase in the content of silver and lead is required if
these high zinc values are to be of economic significance.
A summary of the results are plotted on Figure 2A.

Assay Results

Twenty rock samples were assayed for silver, lead and
zinc. The samples whose locations are plotted on Figure
2A, do not contain economic amounts of the metals tested.

A & Group

Geology

Approximately 3% outcrop occurs on the A Group. The
area is uncertain mainly by graphic phyllites. The struc-
tural trend is similar to that of the JAB Group and the
calcareous schistus N55W and dips steeply to the N.E.
Gabbroic intrusions are exposed below the phylrite along
the creek.
Geochemical Survey
The A Group was examined September 16, 1966. A helicopter was used for transportation and aerial reconnaissance work.

18 soil samples were collected and analyzed. No results of economic significance were obtained. The chemical results are plotted on Figure - 3A.

A Group
Geology
Rock types and structural trends are similar to those found on the JAB and A groups. Some outcrops of conglomerate and gabbro are exposed along the creek bed.

Three medium sized gossan zones were found and sampled. Two of these zones were indicated by EM anomalies.

Rock samples BS-1 to BS-4 were collected and assayed for silver, lead and zinc.

Geochemistry
Twelve soil samples were collected while examining the B group on September 17, 1966. The sample locations are shown on Figure - 3A. The chemical results that range from 21 to 653 ppm zinc, trace to 30 ppm lead, and nil ppm silver are plotted on Figure -.

High zinc values associated with moderate lead values could be anomalous and may indicate a mineralized zone of economic value, more exploration work is needed to confirm or refute this suggestion.

The Chemical results are plotted on Figure - 3A.

NK Group
Geology
The rocks underlying the NK group are mapped as Pre-Cambrian quartzites, graphitic phyllites and schists.

These rocks are intruded by Paleozoic plugs and sills of diorite and gabbro. Foliation and bedding strike east-west and dip 40° to the south. Bostock, (1941),...
Geological Survey

The property was examined on September 18, 1966. Fourteen soil samples were collected. The sample locations and chemical results are plotted on Figure - 4A.

No anomalous geochemical values were obtained for the samples analyzed.

CONCLUSIONS

Most of the geochemical soil samples analyzed in this report are not anomalous. They suggest that the high geochemical values obtained from surveys conducted by the Geological Survey of Canada (Rackla River maps 24-1964, 25-1964), are due to a high zinc content in the soils.

Higher contents of silver and lead are required before these chemical results can be considered as indicating mineral deposits of economic significance.

The relatively high zinc and lead values from samples taken from the B Group and some of the samples taken from the JAB Group could be anomalous. However, more work will be required to test the significance of these results.
REFERENCES

1) Bostock, H.S. (1941) - Geol. Map, Mayo, Yukon Territory
   Geol. Sur. Can. Map 820A
2) Boyle, R.W., Illsley, C.T. and Green, R.N. (1955) - A
   Geochemical Investigation of the Heavy Metal Content
   of the Streams in the Keno Hill - Galena Hill Area,
   Yukon Territory.
   - Geol. Sur. Can. paper 54-18
3) Boyle, R.W. (1957) - The Geology and Geochemistry of
   the silver-lead-zinc deposits of Galena Hill, Yukon
   Territory.
   - Geol. Sur. Can. paper 57-1
4) Boyle, R.W. (1965) - Geology, Geochemistry and origin
   of the Lead-Zinc-Silver Deposits of the Keno Hill -
   Galena Hill Area, Yukon Territory.
5) Gleeson, C.F. et al (1964) - Heavy Metal Content of
   Stream and Spring Waters, Rackla River, Yukon Territory
6) Gleeson C.F. (1964)- Heavy Metal Content of Stream and
   Spring Sediments, Rackla River, Yukon Territory, Geol.
7) Gleeson C.F. (1966) - Lead content of Stream and Spring
   Can Map 45-1965.
8) Green, L.H. and Raddick J.A. (1962) - Dawson, Larsen Creek,
   Paper 62-7
   Can. Paper 55-12
    Explorations Ltd. (N.P.L.)
    JAB groups for Arivaca Explorations Ltd. (N.P.L.)
CERTIFICATE OF QUALIFICATIONS

I, W.K. Lee, P.Eng., hereby declare that:

1) I hold a Degree of B.Sc. in Geological Engineering, Queen's University, 1962, Kingston, Ontario, and have just completed graduate studies leading to a Masters Degree in Geology, University of Washington, Seattle, Washington, U.S.A.

2) I am a registered member in good standing of the Association of Professional Engineers of Ontario.

3) I have had mining exploration experience in Quebec, Ontario, and the Northwest Territories in Canada, and in the State of Washington, U.S.A.

4) I have personally examined all of the claim groups referred to in this report during September, 1966.

Signed:

Wilfred K. Lee

Wilfred K. Lee, P.Eng.
APPENDIX

List of Personnel

1207 – 1450 Chestnut Street,
Vancouver, B.C.

E.H. Scott, Prospector.
Room 1111 – 736 Granville Street,
Vancouver 2, B.C.

A.A. Wize, Rock Driller and Powder Man.
Room 1111 – 736 Granville Street,
Vancouver 2, B.C.

Peter Lucas, Labourer.
Mayo, Yukon Territory.

P. Armand, Pilot
Klondike Helicopter, Whitehorse, Yukon Territory.

W.G. Leslie, Pilot.
Klondike Helicopter, Whitehorse, Yukon Territory.
## ADDENDUM

### Statement of Expenditures

**Schedule - 1**

1. **Klondike Helicopters Invoice - Sept. 26/65**
   - 29.35 hours flying time
   - Helicopter Maintenance
   - **Total**
   - $3,801.75
   - $282.30
   - **$4,084.05**

2. **Arivaca Explorations Ltd.**
   - Room
   - Telephone
   - Air Transportation (C.P.A.) Three men
   - Vancouver to Mayo
   - Camp Supplies
   - Geochemical Analysis
   - Assay Analysis
   - Wages: Geologist
   - Prospector
   - Driller and Powder Man
   - Labourer
   - **$3,800.00**
   - **$2,800.00**
   - **$4,600.00**

**Schedule - 2**

Helicopter survey time pro-rated on the basis of hours flown by groups:

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<tr>
<td>B</td>
<td>15%</td>
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<td>C</td>
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<td>D &amp; E Group</td>
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**Total**

- **$4,854.95**
Schedule - 3
All costs other than Schedule - 2 prorated on basis of number of claims.

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<td>B Group</td>
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Total: $4,464.64

Schedule - 4
Total expenditures by groups.

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Schedule - 5
Total expenditures distributed in Schedule - 4 according to applications for certificates of work.

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<td>Marked JAB V @ 7%</td>
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Total: $8,548.69

This is affirmed A declaration in the affidavits of Fred. K. LEE sworn before me at VANCOUVER this 14th day of JANUARY 1967.

A Commissioner for taking Affidavits within British Columbia.
SUPPORTING DOCUMENTS
Folio ____

September 27, 1966

1 ARIVACA EXPLORATIONS LTD. 

IN ACCOUNT WITH ALLAN WISE

Terms

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P.O. Dated: Sept 27/66
Cheq # 1/5

Willard K. Lee
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M ARIVACA EXPLORATIONS LIMITED

In account with: Mr. Fred Scott

Terms: ______________________
Folio __________ _______  __________

**M** ARIVACA EXPLORATIONS LTD.

____________

IN ACCOUNT WITH ________ FORD SCOTT ________

Terms __________

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Ref. B.O. Telephone Co.

IN ACCOUNT WITH: Inland Cooper Ltd.

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December 16, 1960

Invoice no. 150

INVOICE

To: Arivaco Explorations
1114-730 Granville Street
VANCOUVER, B.C.

Professional services in connection with Geo-chemical results:

Project 519

Bio Metals reference no. A3417 - 3479

Analysis for - Pb, Zn, Ag

64 samples @ $ 1.95  $ 124.80

Drying & sieving

61 samples @ $ 0.20  $ 12.20

Crushing & pulverizing

3 samples @ $ 0.60  $ 1.80

Total  $ 138.80

DUE ON RECEIPT.

[Signature]
SOLD TO: Arvusco Explorations
Room 1111, 736 Granville Street, VANCOUVER, B.C.

26th September, 1966.

ACCOUNTS DUE WHEN RENDERED
CUSTOMER'S ORDER NUMBER

SHIP VIA
DATE SHIPPED

CP-NW
CP-ALL

PAYABLE AT PAR CALGARY

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TOTAL INVOICE $4,984.00

PILOTS: R. Conant, F. Armand

RE: Charter of Bell 47G3 and Hiller 12S helicopters as per authorized Daily Flight Reports 4912, 4816, 4818, 4820, 4822, 3791 attached.

FLYING: Sept 9th, 12, 15, 16, 17, 18, 19, 1966.

KALGARY 277-8526

WHITE HORSE 658-2212
INVOICE

To: Arivaca Exploration
1111-736 Granville Street
VANCOUVER, B.C.

November 29, 1966
Invoice no. 139

Project 519

Professional services in connection with Geo-chemical Analysis results:

Bio Metals reference no. - A2575-2609
A2611-2638
- Ag, Zn, Pb
- all wet

3 metal samples
63 samples @ $1.95
$122.85

Drying & sieving
63 samples @ $0.20
12.60

Bio Metals reference no. A2639-2645
- Ag, Zn, Pb
- Rock

3 metal samples
7 samples @ $1.95
13.65

Crushing & pulverising
7 samples @ $0.90
4.20

Total $153.30

DUE ON RECEIPT

[Signature]
Canadian Pacific Air Lines, Limited
Passenger, Express and Air Mail Services

Issuing Office: Vancouver, BC

Date: Dec 23, 1944

Received from American Exploration
for Three Hundred and Twenty Dollars

For The Flight from Missoula, Montana, to Los Angeles

Canadian Pacific Air Lines, Limited

Per T. Leedham

Printed in Canada

FSR 1901
Figure 20
Geophysical Survey
JAB Claim Group
Mayo District
Yukon Territory

Al (Pb) (%): Soil Sample Location
(N): Nil ppm
(T): Trace
(R): Rock Sample
Approximate Scale 1" = 830'

Drawn: R. A. Wise
Date: W. L. Lee
January 1967
Geochemical Survey
A" and B" Claim Groups
Beaver River Area
Mayo Mining District
Yukon Territory

Approximate Scale 1"=1000'
A-2 Soil Sample Location
(N)= Ni (ppm)
(B) = Bsk
(T) = Trace
Data: W. Locke
DHG Map Unit January 1967