

93 A / 12 N.E.E

Chataway Exploration Co Ltd

52° 12' N.E.

GEOCHEMICAL SURVEY

JACOBIE GROUP OF MINERAL CLAIMS

Quesnel Mining Division

25 Jan. 67 by S.W. Wright, P. Eng.

885

8865

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In Pocket Figure 1 Map of results. ~~///~~ /

Geochemical Report

JACOBIE BLOCK

The JAC , COB & BIE

Groups of Mineral Claims

Jacobie Lake: 52° 121° SE

by

S. W. Wright, P. Eng.

Introduction:

This report has been prepared for submission as assessment work. It describes a geochemical survey carried out on the above mineral claims during the period 1 June 1966 to 15 August 1966.

Location & Access:

The property is located in the Quesnel Mining Division some 50 miles Northeastward from Williams Lake, B.C. The Southwest corner of the claim block covers Jacobie Lake.

Access is by gravelled highway which leaves the Cariboo highway at a point 9 miles south of Williams Lake, B.C., and continues Northeastward via the road to Likely, B.C. The turnoff for the two-mile dirt road to Jacobie Lake is approximately 4 miles past the junction with the Gavin Lake road, and 4 miles south of Morehead Lake.

The Property:

The property had not been previously staked. The nearest advanced exploration work in the area is that of Cariboo-Bell, the adjacent property Eastward. The area of the claims could be described as a rolling plateau with one large hill, named Jacobie Mountain located immediately East of Jacobie Lake. Precipitation in the area is heavy and forest cover could be described as a rain forest with large trees and tangled underbrush which includes abundant Devil's Club shrub.

The claim block consists of 105 claims as follows:

JAC Group: 40 Mcs - CHA 1-16; 17 - 24; CE 78, 80 and 81-94.

COB Group: 40 MCS-CHA 25 - 31, 33 - 36 & 38, CEA 41, 43, 45 - 52,
CE 41 & 42, 44, 53 - 60, 67 - 70, 73 - 75.

BIE Group: 25 MCS - CE 1 - 10, CHA 37, 39 & 40.
CE 13 - 22,
CE 25 & 26

The claims have been grouped for purposes of assessment work. The claims upon which the assessment work is to be recorded may be found under the heading "Assessment Work".

Regional Geology:

The regional geology has been well described by W.E. Cockfield and J.F. Walker of the staff of the Geological Survey of Canada, and no purpose will be served to repeat that information here.

Property Geology

Almost all of the property is covered with overburden of varying thickness. Outcrops are scarce although areas of the hill called Jacobie Mountain which lies between Jacobie and Bootjack Lakes, are covered by little other than decomposed organic matter to a depth of 2 feet. Of the 111 claims in the block outcrops were found on 2, i.e. on CEA 51 and CE 85. In the dozing of 66 trenches in the search for intrusives, 51 reached bedrock. Of these 42 exposed volcanics, 2 carbonates, and 7 exposed intrusives.

Boulders of volcanics carrying abundant secondary copper minerals were found on the surface and, while dozing, buried in the overburden. In three trenches, layers of secondary copper minerals were found lying on top of the bedrock.

Work Program:

After dozing out access roads, the program was to carry out a geochemical survey which it was thought would:

- (a) Indicate, where the depth of overburden would allow, the presence of copper-bearing shears or other structure.
- (b) Check all drainage patterns for copper which might give a clue to the source of such transported copper.

1. Lines: Close attention was paid to the cutting of a baseline which was controlled by chain and Brunton compass. The baseline was run East-West magnetic which nearly approaches the strike of the copper-bearing structure on the property of our Eastern neighbour, Cariboo-Bell. Line were turned off the baseline at 800-foot intervals with some fill-in at 400-foot intervals. These lines were chained and stationed to the boundaries of the property where possible.

2. Geochemistry: Samples were taken along the lines at 200-foot intervals with some 100-foot fillins where indicated. Mattock holes were dug and samples taken on the "B" horizon, placed in an envelope and marked with the grid position. Operators were made to appreciate the fact that we were dealing with parts per million and every precaution was taken to avoid accidental contamination of the samples. All samples were taken to the camp for analysis where they were first dried. The samples were then entered in a sample book by sample number and the grid position.

In lab procedure, operators were trained to avoid contamination of samples. Equipment and water were tested by running blanks. The samples were screened and a quarter-teaspoon of the screened soil was placed in a small test tube. Sufficient acetic acid - sodium acetate solution was then added to make a slurry which would just run in the test tube. The test tube and contents were then shaken 70 times. The wet soil was then dumped into a filter paper which had been folded to a sharp point which rested on a strip of rubianic acid test paper. The sample number has been previously been written on the test paper.

The amount of copper was then judged by comparing the blue spot obtained with prepared standard spots which represented 1, 2, 3, 4 and 5 hundred parts per million. Any result above 5 hundred parts per million is still marked 5.

This method was obtained from Professor H. V. Warren in 1957. The testing kit and supplies are now obtained from Eldridge Geophysical Sales Ltd., in Vancouver.

Geochemical Survey:

The results from the survey are shown on the accompanying map. Sample sites with result as a numeral 1, 2, 3, etc. are shown and which must be multiplied by 100 to give the parts per million copper in the soil. The figure "x" indicates less than 100 ppm and the figure "o" indicates that no sample was taken due to water, swamp or rock.

The results in general show a high background. It is now known by work done by several companies in this area that areas underlain by the tertiary volcanics will give a high background in copper. In fact, it is felt that underlying intrusives into the volcanics are reflected in the soil as a comparatively low background of copper. On a neighbouring property a ring of high soil test results around a dome of intrusive located low grade ore.

Two of the anomalies which were developed, the largest one CE 55 to 66, and the anomaly CE 9 & 10 have some resemblance to a circular structure. A granitic intrusive was found in the trenching on the former (#1), and, on the latter (#2) no dozing has been done so far. A granitic intrusive was found by dozing just north of #3 anomaly, and in #4 carbonate rock overlain by much rust and malachite. Other and smaller anomalies to be considered are #4, #5 and #6.

The area is considered to be worth further work and this is recommended to be in the form of a magnetometer survey plus dozing to guide an IP survey over selected areas.

From this survey it is concluded that anomalies #1 to #6 are worthy of further work.

Statement of Qualifications:

The field work was carried out by the following personnel in the employment of Chataway Exploration Co. Ltd. Experienced personnel were scarce but with a core of four experienced men, others were trained on the job.

- H. G. Mayson, Res Mgr. Previous experience. Full time on this work.
- A. P. Horne, Geochemical operator. Several years experience.
- J. Ellefson, Geochemical operator. Several years experience.
- S. W. Wright, P. Eng. Several years previous experience.
- W. Spooner, Previous soil testing experience.
- D. Boyes, Trained by Chataway.
- E. Hoover, mostly lab work. Trained on the job, by Chataway.
- A. E. Chadwick, worked as tail-end chainman for 5 days.
- R. S. Cotton, Some previous experience, trained by Chataway.
- H. MacDonald, some previous experience, trained by Chataway.
- L. MacDonald, worked as tail-end chainman for a few days.
- E. Wood, trained by Chataway.
- A. R. Blackburn, worked as tail-end chainman for a few days.
- J. Goetjen. Trained on the job by Chataway.
- A. W. Robertson, worked as tail-end chainman for a few days.
- G. L. Chartier, trained by Chataway.

Statement of Expenditures:

a) <u>Assaying & Testing, TSL</u>	\$ 114.75
b) <u>Sampling & Testing</u>	
Geochemical Operators: Salaries	4,898.40
Fringe Benefits: 18.2% of \$7,168.40	891.51
c) <u>Supervision</u>	
Salaries	2,270.00
Fringe Benefits: 18.2%	413.14
d) <u>Field Maintenance & Equipment</u>	
This includes 4 x 4 vehicle plus gas & oil	702.10
e) <u>Report Preparation</u>	
Salaries	130.00
Fringe Benefits 18.2%	23.66
	<u> </u>
Total	\$ <u>9,443.56</u>

Assessment Work

Assessment work to be applied as follows:-

Bie Group

CE 1 & 3, 5 to 8,
13 to 22, 25 & 26,
CHA 37, 39 & 40

One year's work to
applied to each of the
above claims.

CE 9 & 10

Two year's work to
be applied to each
of the above claims

COB Group

CHA 25 to 31,
33 to 36 & 38
CE 41 to 44, 53 to 56,
67 & 68, 73 & 74
CEA 41, 43, 45, 46, 48
51 & 52.

One year's work to
be applied to each of
the above claims.

CE 60, CEA 47, 49 & 50.

Two year's work to
be applied to each
of the above claims.

Jac Group

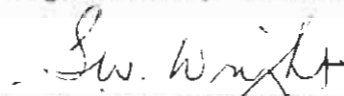
CHA 1 to 18, 20,
22 to 24
CE 78, 80 to 82.

One year's work to
be applied to each
of the above claims.

CHA 19 & 21

Two year's work to be
applied to each of the
above claims.

Respectfully submitted,


S. W. Wright, P. Eng.,
Chataway Exploration Co Ltd

SWW/s
25 Jan. 67

In the Matter of

Assessment work on the Jacobie Block
of Mineral Claims:
The Jac, Cob, and Bie Groups.

TO WIT:

I, Sydney W. Wright, of 2236 Bellevue Ave.,

West Vancouver

in the Province of British Columbia

do solemnly declare the following persons were employed on field work:

D. Boyes, Geochem operator,	Jul 1 to Aug 15/66,	45 days	\$ 455.00	\$ 375.00/mon.
E. Hoover,	June 16 - Aug 15/66	50 "	588.33	"
W. Spooner	Jul 15 - Aug 15/66	31 "	443.33	"
A. E. Chadwick "	Aug 4 - Aug 15/66	12 "	140.00	"
R. S. Cotton "	July 28 - Aug 15/66	19 "	233.33	"
A. P. Horne "	June 1 - Aug 15/66	76 "	1050.00	525.00/mon
J. Ellefson "	June 1 - June 30/66	30 "	375.00	375.00
H. MacDonald "	June 15 - July 15/66	31 "	409.15	400.00
L. MacDonald "	June 15 - June 18/66	4 "	43.34	350.00
E. Wood "	June 1 - July 9/66	54 "	523.68	400.00
A.R. Blackburn "	June 16 - June 20/66	5 "	46.67	375.00
J. Goetjen "	June 15 - Aug 1/66	47 "	237.54	375.00
A.W. Robertson "	June 16 - June 20/66	5 "	46.67	375.00
G.L. Chartier "	Jul 5 - Aug 8/66	34 "	206.27	375.00
H.G. Mayson Manager	June 1 - Aug 15/66	76 "	1320.00	660.00
S.W. Wright P. Eng.	June 1 - Aug 15/66	50% of	950.00	750.00

Persons employed in the preparation of this report are:

S.W. Wright, P. Eng.	T.B. Smart MSc. - Salaries:	130.00
	Total Salaries	7,168.40
	Fringe Benefits 18.2%	1,328.31
	Field Maintenance & Eqpt.	702.10
	Assaying TSL Labs	114.75
	Total Expenditures	\$ 9,443.56

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 *Vancouver*
in the
Province of British Columbia, this *27th*
day of *January*
A.D., 1967

A. H. Khatam
A Commissioner for taking affidavits for British Columbia.

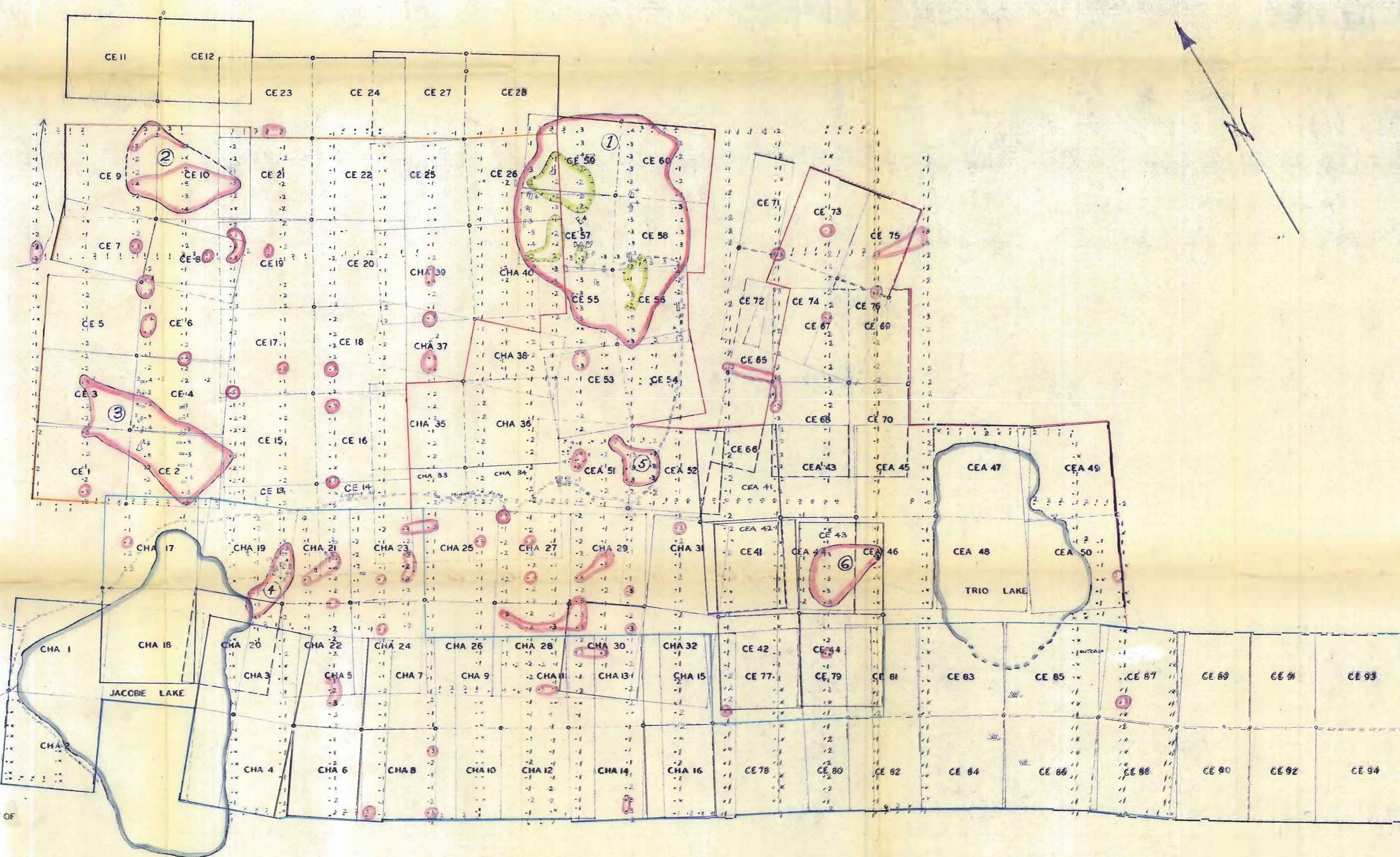
S.W. Wright

DATED

19

IN THE MATTER OF

Statutory Declaration



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 885 MAP # 1

TO BE ATTACHED TO REPORT OF
JACOBIE BLOCK OF CLAIMS

CHATAWAY EXPLORATION Co LTD
JACOBIE GROUP—CARIBOO DISTRICT
GEOCHEMICAL SURVEY
SCALE 1" = 800' DRAWN BY T.B.S.
DATE JAN. 23 1967

Soil Anomalies (No. 1000 p.p.m.)
Streams
Swamp
Trenches
Background value
No sample taken (rock, swamp, etc.)
Leaves within soil anomalies
2000 p.p.m. Copper

Checked
B. Williams

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