

49° 120° N.W.

Chataway Exploration Co Ltd

92H/15E GEOCHEMICAL REPORT

SKI AND DOO BLOCK OF MINERAL CLAIMS

Nicole Mining Division

17 Feb 67

S.W.Wright P.Eng.

9251

925

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In Pocket

Figure 1 Map of results. ~~##~~ /

GEOCHEMICAL REPORT

SKI and DOO BLOCK

The ADIT, CU and SKI

Groups of Mineral Claims

Aspen Grove: $48^{\circ} 45'$ $120^{\circ} 30'E$

by

S.W.Wright P.Eng.

Introduction:

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

Location & Access:

The property is located in the Nicola Mining Division some 6 miles NE of Aspen Grove, B.C. The southwest corner of the claims covers the junction of Quilchena and Pothole Creeks. Access is by logging road which joins a secondary road about 2 miles west of the claims and this in turn joins the Aspen Grove - Merritt Highway, 7 miles north of Aspen Grove.

The Property:

The area of the claims is mainly dry plateau country reaching over 3,500 feet in elevation southwest of Camp Lake. Quilchena Creek which lies within a steep valley at an elevation of 2,800 feet is on the west side of the claims.

The claim block consists of 107 claims as follows:

ADIT Group: SKI 1-22; 24, 29 & 30, 32, 35 & 86;
40 NCS 38, 90, 92 & 94.
ADIT #1 and Creek #1
CU 1 to 6 Frs.

CU Group: SKI 43 and 44; 47, 49 to 56, 87, 89,
40 NCS 91 and 93, 95 to 106, & 108.
CU 3 & 9 Frs.

SKI Group: SKI 23, 25 to 28, 31, 33 to 38, 39 to 42,
27 NCS 45 & 46, 48, 77 to 84.

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 area is underlain with Upper Triassic lava, tuff and minor sediments of the Nicola Group, which is intruded by Jurassic or Lower Cretaceous granites and acid dykes of the Coast Intrusive Group. Copper mineralization as bornite and chalcopyrite accompanied by molybdenite, pyrite and secondary azurite and malachite occurs in sheared and altered zones in the Nicola Group.

Property Geology:

Much of the property is covered by overburden of varying thickness, -8 ft in the drilling area. North of the NW corner of the area Tertiary volcanics are exposed. There is also an outcrop of granitic of the granodiorite range just north of the NE corner of the claim block. Down the centre of the area there appears to be a broken-up lava flow with boulders of vesicular and cavernous lava.

On SKI 91 and 92 bulldozing has exposed intensely conjugate fracturing of dioritic and tuffaceous rocks containing malachite, chalcopyrite, pyrite and minor molybdenite. These rocks are cut by late basaltic dykes.

On SKI 13,14,15 and 16 dozing uncovered greenstone rocks intruded by aplite dykes and containing chalcopyrite, malachite and pyrite.

Work Program:

The program was to carry out a geochemical survey which it was thought would indicate, where the depth of overburden would allow, the presence of copper and molybdenum - bearing shears or other structures.

1. Lines: Close attention was paid to the survey of two base lines which were controlled by chain and Brunton compass. These baselines were run North-South geographic. Lines were turned off the baselines at 800 foot intervals with some fill-in at 400 foot intervals.

2. Geochemistry: Samples were taken along the lines at 100 foot intervals. 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.

A total of 2106 soil samples were sent for copper determination to Technical Services Laboratories, Toronto and 271 soil samples for Molybdenum determination to their Vancouver Laboratories

Geochemical Survey:

The results of the survey are shown in contour form on the accompanying map.

Background values for copper are found to increase from approximately 25 p.p.m. in the southwest of the property to 46 p.p.m. in the north.

This may be related to approaching the granite intrusion to the north where minor chalcopyrite is known to occur associated with it. There is also the possibility that erratic glacial material with mineralization has been strewn out over a wide area. High values around lakes may be due to accumulation of copper brought in by drainage.

Significant anomalies have been found at the following locations:-

(I) Between claims SKI 91 and 92 a bulldozed trench showed chalcopyrite, malachite, azurite and pyrite in altered porphyry and skarn with E-W conjugate fractures. This area was subsequently investigated by induced polarization and resistivity survey, when a number of anomalies were found. One such anomaly, approximately coincident with the soil anomaly was later investigated by diamond drilling. Maximum soil copper value was found to be 1000 p.p.m.

(II) On claims SKI 13, 14, 15 and 16 and CM 2 fraction, a bulldozed exposure showed the presence of chalcopyrite and pyrite in greenstone rocks cut by aplite dykes. Maximum soil copper value 115 p.p.m.

(III) On SKI 97 near Quilchena Creek. Maximum soil copper value 115 p.p.m.

(IV) On SKI 29, 30, 31, 32 and 34 which is possibly due to soil accumulation from drainage. Maximum soil copper value 88 p.p.m.

(V) On SKI 19, 21 and 23. Maximum soil copper value 75 p.p.m.

(VI) SKI 11. Maximum soil copper value 85 p.p.m.

Assays for Molybdenum were made on a group of soil samples from the south part of the property. In all these, the tests gave less than 0.5 p.p.m.

Recommendations:

Several sources of information regarding the geology of the property are of considerable use in guiding further exploration work. These are as follows:-

1. Information from the Geological Survey of Canada, Memoir 243 which indicates a possible belt of copper mineralization extending into the southwest corner of the property between ADIT No. 1 fractional claim and the Quilchena - pothole Creek junction.
2. A belt of mineralization with a N 15° W. strike indicated by a line of copper occurrences which extends from the south end of Missezule Lake, about 12 miles south of the property to the vicinity of ADIT No. 1 fractional claim. Drilling is at present being carried out just to the west of SKI 8 on the adjoining property within this general line of strike.

The possible area of intersection of these two belts would merit further investigation and this has in part been done in the

form of an induced polarization survey and resistivity survey during 1966 which covered soil anomaly I. This survey showed three areas where anomalies extend beyond the borders of the surveyed areas. A further extension of the I.P. survey to delineate the partially outlined anomalies is being considered.

Statement of Qualifications:

The field work was carried out by the following personnel in the employment of Chataway Exploration Co Ltd.

A.P. Horne	-	Geochemical operator, several years experience
H. Krause	"	"
J. Ellefson	"	"
G Fraser	"	"
A.C. Hodgson	"	"

The work was constantly under my supervision.

Statement of Expenditures:

(a) Assaying & sampling-TSL Toronto	2,779.31
(b) Geochemical Operators: salaries	5,419.17
Fringe benefits 18.2%	986.29
(c) Supervision:	
Salaries	3,375.00
Fringe benefits	610.88
(d) Field Maintenance & Equipment	702.10
Rental of 4 x 4 vehicle plus oil & gas	
(e) Report & Preparation	
Salaries	464.10
Fringe benefits	64.87

Total	\$14,421.32
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Assessment Work

Assessment work to be applied as follows:

ADIT Group

SKI 1-12, 19-22, 24
29, 30, 32, 85 & 86
88, 90, 92, 94.
ADIT #1, Creek #1
CU #3, 4, 5, 6 Frs.

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

SKI 13 to 18
CU #1 Fr & #2 Fr.

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

CU Group

SKI 43 & 44, 47,
49 to 66, 87
89, 91, 93,
95 & 96, 100
CU #8 Fr & #9 Fr.

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

SKI 97 to 99
101 to 106
& 108.

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

SKI Group

SKI 77 to 86


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

SKI 23, 25 to 28
SKI 31, 33 to 42
SKI 45 & 46, & 48.

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

Respectfully submitted

SWW/s


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

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.

In the Matter of

To WIT:

Assessment Work on the SKI & D00 Block of Mineral Claims:
The ADIT, CU, and SKI Groups

I, SYDNEY W. WRIGHT of 2236 Bellevue Avenue,
of WEST VANCOUVER

in the Province of British Columbia, do solemnly declare that the following persons were employed on field work:

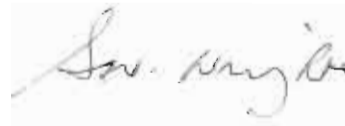
A.P. Horne - Geochemical Operator	- 15 Mar. to 15 June/66, 93 days	\$1800	\$600/mo.
H. Krause - "	" - 15 Mar. to 15 June/66, 93 days	\$1562.50	\$525/mo.
J. Ellefson - "	" - 12 April to 15 June/66, 65 days	\$909.17	\$450/mo.
G. Fraser - "	" - 15 Mar. to 15 June/66, 93 days	\$117.50	\$425/mo.
A.G. Hodgson - Geologist	- 15 Mar. to 15 June/66, 93 days	\$2250	\$750/mo.
S.W. Wright - P. Eng.	- 1 1/2 months,	\$1125	\$750/mo.

Employed in the preparation of this report:

T.B. Smart M.Sc. Salary	464.10
Total salaries	9,258.27
Fringe Benefits 18.2%	1,681.64
Field maintenance and Equipment	702.10
Assaying T.S.L. Labs (Toronto)	2,779.31
Total Expenditures	\$ <u>14,421.32</u>

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
day of March 1964, A.D.



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

*0

Subscribing Recorder



ADIT GROUP
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SKI GROUP
27

CU GROUP
40

N.B.
DOO group 1-31, and SKI group (95-114) as recorded, which may be at variance with relative positions on ground.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 925 MAP 1

To accompany geochemical report by S. W. Wright on Ski and Doo Block of claims, northeast of Aspen Grove, B. C., Nicola Mining Division, dated February 1, 1967.

#925

CHATAWAY EXPLORATION Co LTD
SKI & DOO GROUP - NICOLA DISTRICT
GEOCHEMICAL SURVEY
SCALE 1" = 1175' DRAWN BY T.B.S.
DATE FEB 14 1967

- KEY**
- Contour lines for soil copper in p.p.m.
 - > 100 ppm
 - 75-100 ppm
 - 50-75 ppm
 - Fracture pattern
 - Outcrop
 - Dry run-off gulch
 - Mla. Ep. Malachite, Chalcocyanite, skarn minerals, Epulote.
 - SK Ep. skarn minerals, Epulote.
 - Tertiary lava; andesite, basalt
 - Granitic rocks
 - Greenstone - cut by albite and porphyry dikes, quartz.
 - Logging road
 - Trails

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