

820487

KERR-ADDISON GOLD MINES LTD.

GEOPHYSICAL & GEOCHEMICAL INVESTIGATION

OF 24 CLAIMS OF

THE FAULT GROUP OF MINERAL CLAIMS

Located About 3 Miles West Of

Marritt, B.C.

In Nicola M.D.

50°N - 120°W

By

W. M. SIROLA, P.Eng.

March to April 1962.

092I

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INTRODUCTION

In May and June of 1961 Angus MacDonald of 2090 West 44th Street in Vancouver staked a group of 40 Mineral Claims starting from a point 3 miles West of Merritt on Lindley Creek and extending 3 miles South from that point.

Kerr-Addison Gold Mines Ltd. began investigation of the Claims in March of 1962 and instituted a line cutting, geophysical and geochemical programme.

The following report covers the work done on the Fault 1 - 24 Mineral Claims.

SCHEDULE OF CLAIMS COVERED BY THE REPORT

<u>CLAIM:</u>	<u>TAG NO:</u>	<u>STAKING DATE:</u>	<u>RECORDING DATE:</u>	<u>RECORD NO:</u>	<u>LICENSE NO:</u>
Fault 1	244527	April 21, 1961	May 4, 1961	14206	49767
" 2	244528	"	"	14207	"
" 3	244529	"	"	14208	"
" 4	244530	"	"	14209	"
" 5	244531	"	"	14210	"
" 6	244532	"	"	14211	"
" 7	244533	"	"	14212	"
" 8	244534	"	"	14213	"
" 9	244535	"	"	14214	"
" 10	244536	"	"	14215	"
" 11	244537	"	"	14216	"
" 12	244538	"	"	14217	"
" 13	244540	"	"	14218	"
" 14	244541	"	"	14219	"
" 15	244507	"	"	14220	"
" 16	244508	"	"	14221	"
" 17	244509	"	"	14222	"
" 18	244600	"	"	14223	"
" 19	244511	"	"	14224	"
" 20	244512	"	"	14225	"
" 21	244513	"	"	14226	"
" 22	244514	"	"	14227	"
" 23	244515	"	"	14228	"
" 24	244519	"	"	14229	"

The above Claims are held in the name of Angus MacDonald of 2090 West 44th Street, Vancouver, B.C. Kerr-Addison Gold Mines Ltd. has an option, valid to December 31st, 1964, to purchase the Claims from MacDonald.

COST STATEMENT

<u>NAME:</u>	<u>JOB:</u>	<u>DAYS:</u>	<u>RATE:</u>	<u>TOTAL:</u>
Wilson: C	Line Cutter	15	\$15. per day	\$ 225.00
Gautier: W	Line Cutter	15	\$15. per day	225.00
MacDonald: A	Geologist-Technician	31	\$20. per day	620.00
Williamson: T	Technician-Draftsmen	35	\$18. per day	630.00
Sirole: W. M.	Supervision	10	\$30. per day	<u>300.00</u>
				<u>\$2,000.00</u>

LABOUR DISTRIBUTION - Fault Group:Line Cutting:

Line Cutters	30	Shifts @ \$15.	\$ 450.00
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Self-Potential Survey:

Technician-Geologist	15	Shifts @ \$20.	300.00
Technician	15	" @ \$18.	270.00

Geochemical Survey:

Geologist-Technician	16	Shifts @ \$20.	320.00
Technician	15	" @ \$18.	270.00

Drafting:

Draftsmen	5	Shifts @ \$18.	90.00
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Supervision:

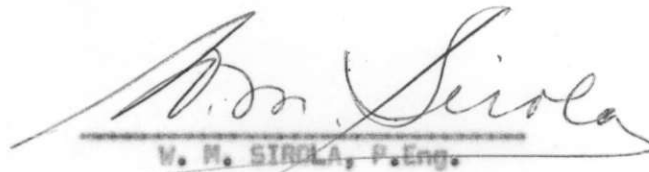
Exploration Geologist	10	Shifts @ \$30.	<u>300.00</u>
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\$2,000.00

SUMMARY OF TOTAL COSTS FOR FAULT GROUP (1 - 24):

Wages and Salaries	\$2,000.00
Camp Operating	602.00
Motor Vehicle Operating	<u>204.50</u>
	\$2,806.50
	<u>=====</u>

I hereby certify that the above is a true and correct statement of direct costs assignable to line cutting, geophysical surveys and geochemical surveys carried out on the Fault 1 - 24 group of Mineral Claims described in this report.


W. M. SIRDLA, P. Eng.

SELF POTENTIAL SURVEY

A base line was laid out in the direction of the long axis of the Claims and chainage pickets were placed at 100' intervals.

The instrument used was a transistorized Potentiometer which comes equipped with two porous pot electrodes. The electrodes are connected through a commutator-equipped reel which holds 2,000' of No. 8 AWG wire. The Potentiometer is a null-balanced type which measures D.C. earth potentials.

The various stations on the base line were read first to establish control for the remainder of the survey. The profile lines were read on 100' spacings.

GEOCHEMICAL SURVEY

The grid established for the Self Potential survey was also used for the Geochemical survey. The procedure adopted was Warren and Delavault's* Rubenic Acid Field Test.

Soil samples were collected at 100' spacings on some of the lines and at 200' spacings on other lines (see accompanying map in pocket). A level teaspoon-full of soil was collected at an average depth of 4" from the slightly brown coloured horizon below the litter of humus. The collected samples were then analysed in a field laboratory.

Basically, the method is a semi-quantitative indicator of that copper content in soils which is extractable by cold acetic acid. Any copper in the soils shows up as a blue dot on litmus paper which has been previously treated with Rubenic acid.

INTERPRETATION OF SELF POTENTIAL RESULTS

The variation in Self Potential readings is considered too small to be indicative of mineral conductors. The variations, which range from a maximum of -33 to +53 are believed to result from variations in depth of cover and in topography, and to some extent in the movement of ground waters. If one electrode is in dry ground and the other in wet ground, potentials up to 50 mvs. may result. Occasionally, telluric currents will produce minor variations.

* Rubenic Acid Field Test
by Harry V. Warren & Robert G. Delavault
Western Miner and Oil Review - January, 1959.

INTERPRETATION OF GEOCHEMICAL RESULTS

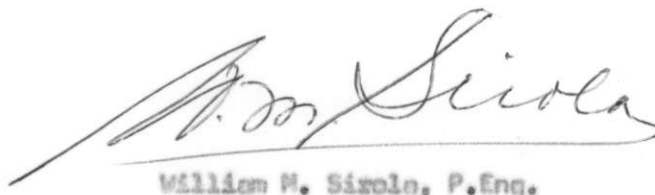
No significant geochemical anomalies were found. In a few separate locations, such as on the base line at 0+00 and at 3500S and on line 8+00N at 300E, 400E and 1300E, slightly anomalous conditions were found which can probably be attributed to a break down of minor amounts of copper minerals in the rocks. These slightly anomalous areas are not considered worthy of additional investigation.

CONCLUSIONS

No evidence of any mineralization was found by either the Self Potential or Geochemical procedures used on the Fault 1 - 24 Mineral Claims.

Both methods were considered functional since grounding conditions for the electrical work were good and no excessive overburden conditions were encountered which would nullify geochemical results.

May 3rd, 1962.



William M. Sizole, P.Eng.

SCHEDULE OF ACCOMPANYING MAPS

The Key Map for the area is attached to the back of the Report. The other maps shown on the Schedule are in the back pocket.

- (1) Key Map

- (2) Plan of Claims and Self Potential Survey
Scale 1" = 400'

- (3) Plan of Claims and Geochemical Survey
Scale 1" = 400'

15'

Tp.15 R.22

F O R E S T

K

PROMONTORY HILLS

Tp.14 R.22

I.R.1

Lower Nicola

MERRITT

COUTLEE

MT. MCINNES

PLATEAU

YALE

IRON MTN.

Oliver Walker

To Spences Bridge 29 miles

50°00'

121°00'

KEY MAP FAULT #1-24 M.C.S.

