415

KERR-ADDISON GOLD MINES LTD.

GEOPHYSICAL & GEOCHEMICAL INVESTIGATION

Of 24 CLAIMS Of

THE FAULT GROUP OF MINERAL CLAIMS

Located About 3 Miles West Of

Merritt, B.C.

In Nicola M.D.

50°N - 120°W

By

W. M. SIROLA, P.Eng.

March to April 1962.

92I/2W

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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

CLAIM:	TAG NO:	STAKING DATE:	RECORDING DATE:	RECORD NO:	LICENSE NO:
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

NAME:	JOB:	DAYS:	RATE:	TOTAL:
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-Draftsman	35	$18. per day	630.00
Sirola: W. M.	Supervision	10	$30. per day	300.00
				$2,000.00

LABOUR DISTRIBUTION - Fault Group:

Line Cutting:			
Line Cutters	30	Shifts @ $15.	$ 450.00
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:			
Draftsman	5	Shifts @ $18.	90.00
Supervision:			
Exploration Geologist	10	Shifts @ $30.	300.00
			$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	204.50
	$2,806.50

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. SIROLA, 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* Rubeanic 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-quantitive 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 Rubeanic 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.

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

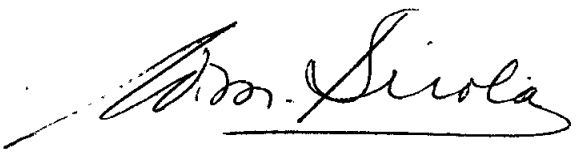
INTERPRETATION OF GEOCHEMICAL RESULTS

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. Sirola, P.Eng.

WMS:rl

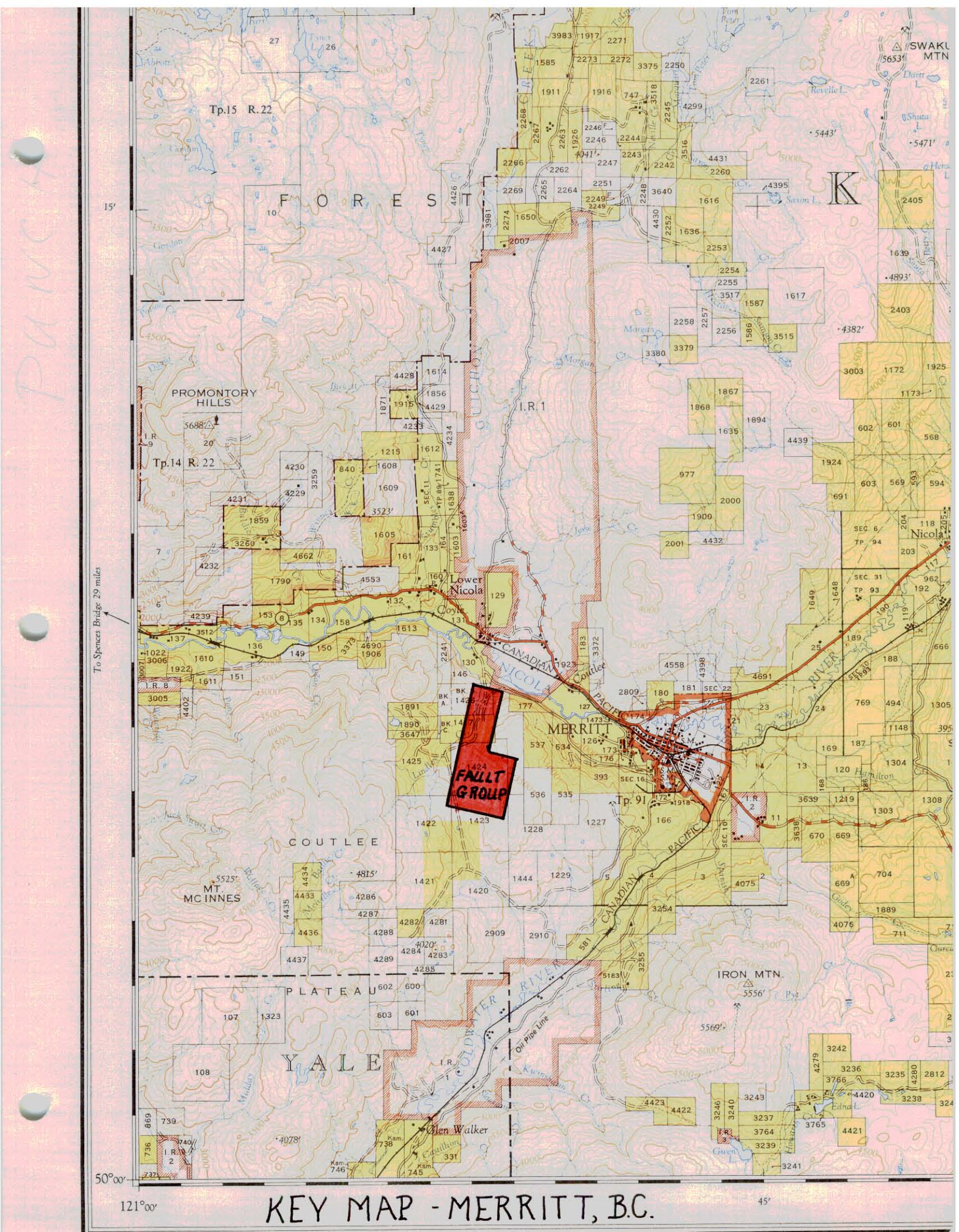
SCHEDULE OF ACCOMPANYING MAPS

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'



KEY MAP - MERRITT, B.C.

TO WHOM IT MAY CONCERN:

This will verify that I, Angus MacDonald, of 2090 West 44th Avenue, Vancouver, B.C. have a Batchelor of Arts degree in Biology and Chemistry (1952), and a Batchelor of Arts degree in Geology (1957).

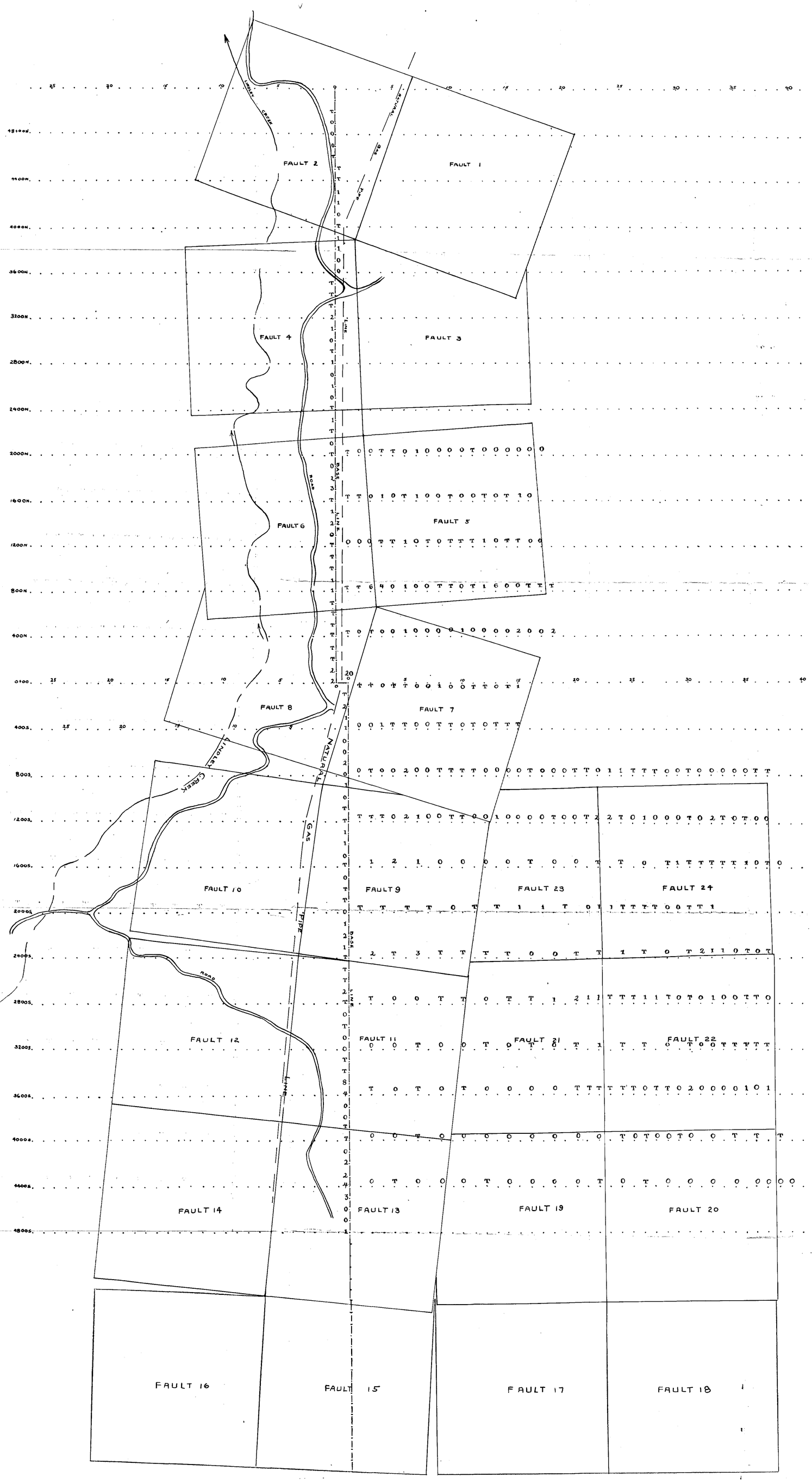
During 1957 and 1958, I carried out geological, geochemical and magnetic surveys for Farwest Mining Limited of Suite 305 - 1075 Melville Street, Vancouver, under the supervision of W. M. Sirola, P.Eng.

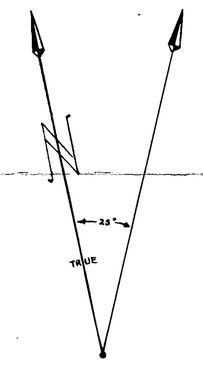
From 1959 - 1960, I was employed as a geologist with United Keno Hill Mines Ltd.

In 1961, I was Geologist/Manager for Peso Silver Mines Ltd.

A. MacDonald

Angus MacDonald





Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 415 MAP 1

MACDONALD COPPER PROSPECT
MERRITT, B.C.

GEOCHEMICAL SURVEY

SCALE: 1 IN = 400 FT

APRIL 30/62 J.T.W.

RUBEANIC ACID TEST RESULTS

O - NO EVIDENCE OF COPPER
T - TRACE
1, 2, 3 ETC INDICATE PARTS PER MILLION OF ACETIC ACID SOLUBLE COPPER

415 (M)

FAULT 1

FAULT 2

FAULT 3

FAULT 4

FAULT 5

FAULT 6

FAULT 7

FAULT 8

FAULT 9

FAULT 10

FAULT 11

FAULT 12

FAULT 13

FAULT 14

FAULT 15

FAULT 16

FAULT 17

FAULT 18

FAULT 19

FAULT 20

FAULT 21

FAULT 22

FAULT 23

FAULT 24

BASE LINE

N. 25° E. TRUE

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 415 MAP 2

MACDONALD COPPER PROSPECT
MERRITT, B. C.
SELF POTENTIAL SURVEY

SCALE: 1 IN. = 400 FT.

APRIL 30/62 J.T.W.

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