

420

KERR-ADDISON GOLD MINES LTD.

GEOPHYSICAL & GEOCHEMICAL INVESTIGATION

Of

FAULT (25 - 40) MINERAL CLAIMS

OWNER: Angus MacDonald,
2090 West 44th Avenue,
Vancouver, B. C.

Located About 3 Miles West Of

Merritt, B. C.

Nicola M.D.

50°N - 120°W

By

W. M. SIROLA, P.Eng.

May, 1962.

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**Department of
Mines and Petroleum Resources
ASSESSMENT REPORT**

NO. 420 MAP

I N T R O D U C T I O N

In May and June of 1961, Angus MacDonald of 2090 West 44th Avenue 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 25 - 40 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 25	896486	May 26th/61	June 9th/61	14740	49767
" 26	96492	"	"	41	"
" 27	495	"	"	42	"
" 28	496	"	"	43	"
" 29	497	"	"	44	"
" 30	500	"	"	45	"
" 31	286103	"	"	46	"
" 32	104	"	"	47	"
" 33	106	"	"	48	"
" 34	107	"	"	49	"
" 35	108	"	"	50	"
" 36	109	"	"	51	"
" 37	110	"	"	52	"
" 38	277860	"	"	53	"
" 39	885	"	"	54	"
" 40	886	"	"	55	"

The above Claims are held in the name of Angus MacDonald of 2090 West 44th Avenue, 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	12	\$15. per day	\$ 180.00
Gautier: W.	Line Cutter	12	\$15. per day	180.00
MacDonald: A.	Geologist-Technician	26	\$20. per day	520.00
Williamson: T.	Technician-Draftsman	34	\$18. per day	612.00
Sirola: W. M.	Supervision	8	\$30. per day	<u>240.00</u>
				<u><u>\$ 1,732.00</u></u>

LABOUR DISTRIBUTION - Fault Group:Line Cutting:

Line Cutters	24	Shifts @ \$15.	\$ 360.00
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Self-Potential Survey:

Geologist-Technician	13	Shifts @ \$20.	260.00
Technician	13	" @ \$18.	234.00

Geochemical Survey:

Geologist-Technician	13	Shifts @ \$20.	260.00
Technician	17	" @ \$18.	306.00

Drafting:

Draftsman	4	Shifts @ \$18.	72.00
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Supervision:

Exploration Geologist	8	Shifts @ \$30.	<u>240.00</u>
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\$ 1,732.00

SUMMARY OF TOTAL COSTS FOR FAULT GROUP (25 - 40)

Wages and Salaries	\$ 1,732.00
Camp Operating	450.00
Motor Vehicle Operating	<u>150.00</u>
	\$ 2,322.00
	<u><u> </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 25 - 40 group of Mineral Claims described in this Report.

W. M. Sirola

W. M. SIROLA, P.Eng.

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 Province of British Columbia, this 5th day of 1962.

W. M. Sirola

A.D.

SELF-POTENTIAL SURVEY

A base line, bearing 0.15° , was cut and chained at 100' intervals. Cross lines were then run at 400' intervals at right angles to the base line. Self-Potential readings were taken at 100' intervals, first on the base line and then on the cross lines.

The instrument used was a null balance transistorized Potentiometer equipped with porous electrodes. The electrodes are connected through a commutator-equipped reel which holds 2,000' of No. 8 AWG wire.

All readings were adjusted daily for any potential differences between the porous electrodes. These differences were usually under 4 mv's.

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 200' spacings on both the base line and the cross 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 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 +68 to -7, 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 mv's 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

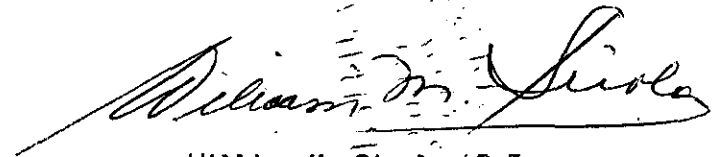
INTERPRETATION OF GEOCHEMICAL RESULTS

No significant geochemical anomalies were found. In one location, on line 7600S at 2600E, a slight anomalous condition was found but no importance is attached to this isolated occurrence. No areas were found which could be deemed worthy of additional investigation.

CONCLUSIONS

No evidence of any mineralization was found by either the Self-Potential or Geochemical procedures used on the Fault 25 - 40 Mineral Claims. Portions of the claims were covered with younger cap rocks of the Spences Bridge and Kingsvale series and in these areas, the value of the work done is doubtful. However, over most of the claim area, the procedures used are considered effective.

June 8th, 1962.



William M. Sirola, 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) Geological Plan - Scale 1" = 400'

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

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

TO WHOM IT MAY CONCERN:

This will verify that I, Angus MacDonald, of 2590 West 44th Avenue, Vancouver, B.C. have a Bachelor of Arts degree in Biology and Chemistry (1952), and a Bachelor of Arts degree in Geology (1957).

During 1957 and 1958, I carried out geological, geochemical and magnetic surveys for Fairmont Mining Limited of Suite 303 - 1075 Melville Street, Vancouver, under the supervision of U. N. Sirois, P.Eng.

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

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

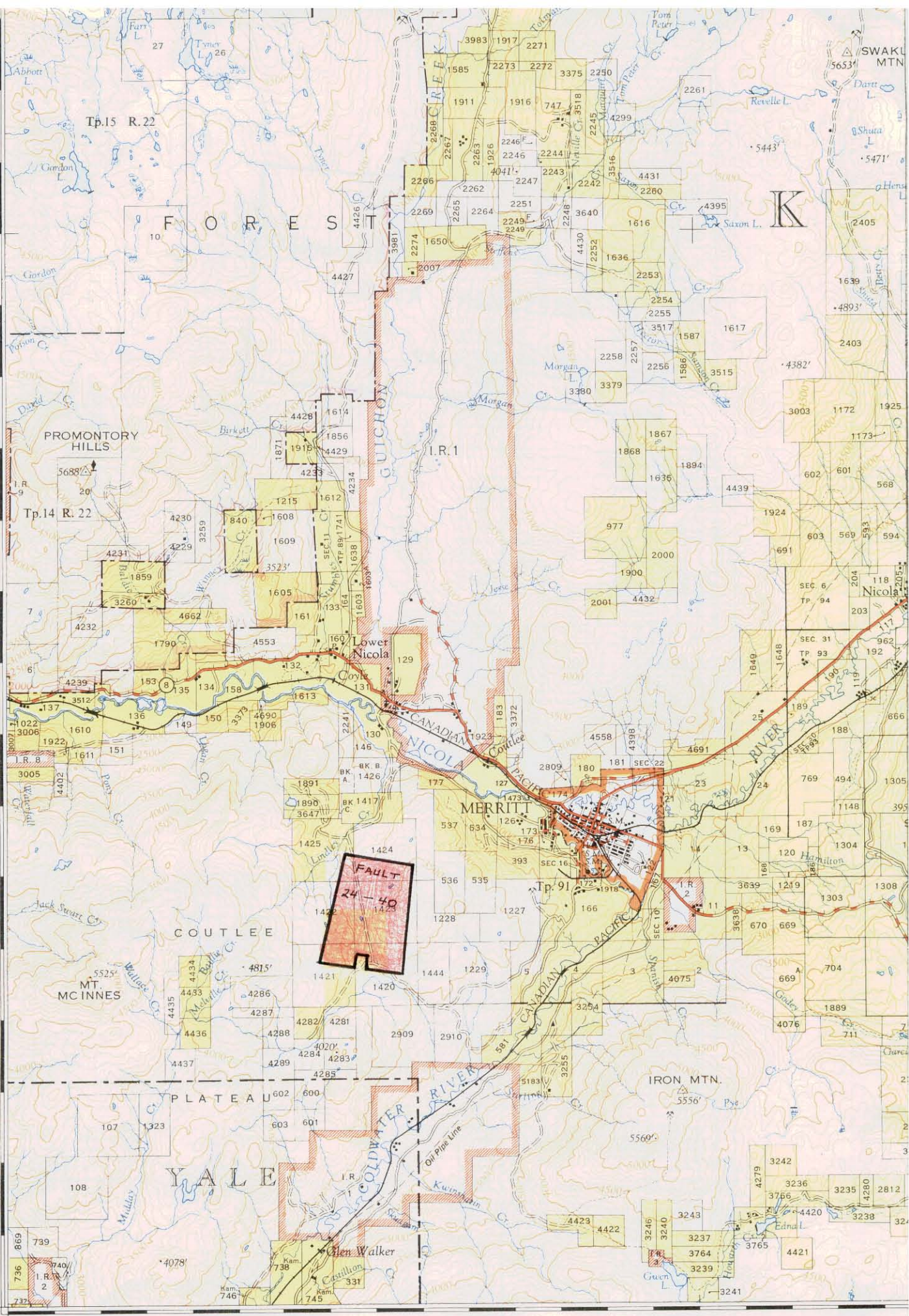

Angus MacDonald

15'

To Spences Bridge 29 miles

50°00'

121°00'



45'

MEMOGRAM

TO Chief Gold Commissioner, Victoria, BC FROM Mining Recorder, Merritt, BC.

SUBJECT Fault 25 to 40: Geophysical & geological Survey DATE July 9th, 1962

Referring to your letter of the 26th ultimo I have to advise dates on which those named on Page 3 of said report were working as follows:-

C. Wilson and W. Gautier May 1st to May 12th.

A. MacDonald May 1st to June 8th.

T. Williamson May 1st to June 8th

W. Sirola May 4, 5, 14, 15, 22, 23, June 4, 5.....

SIGNATURE *J. S. Dobson*
J. S. Dobson

(THIS SPACE FOR REPLY)

DATE

SIGNATURE

WRITE YOUR REPLY AND RETURN THIS SHEET.



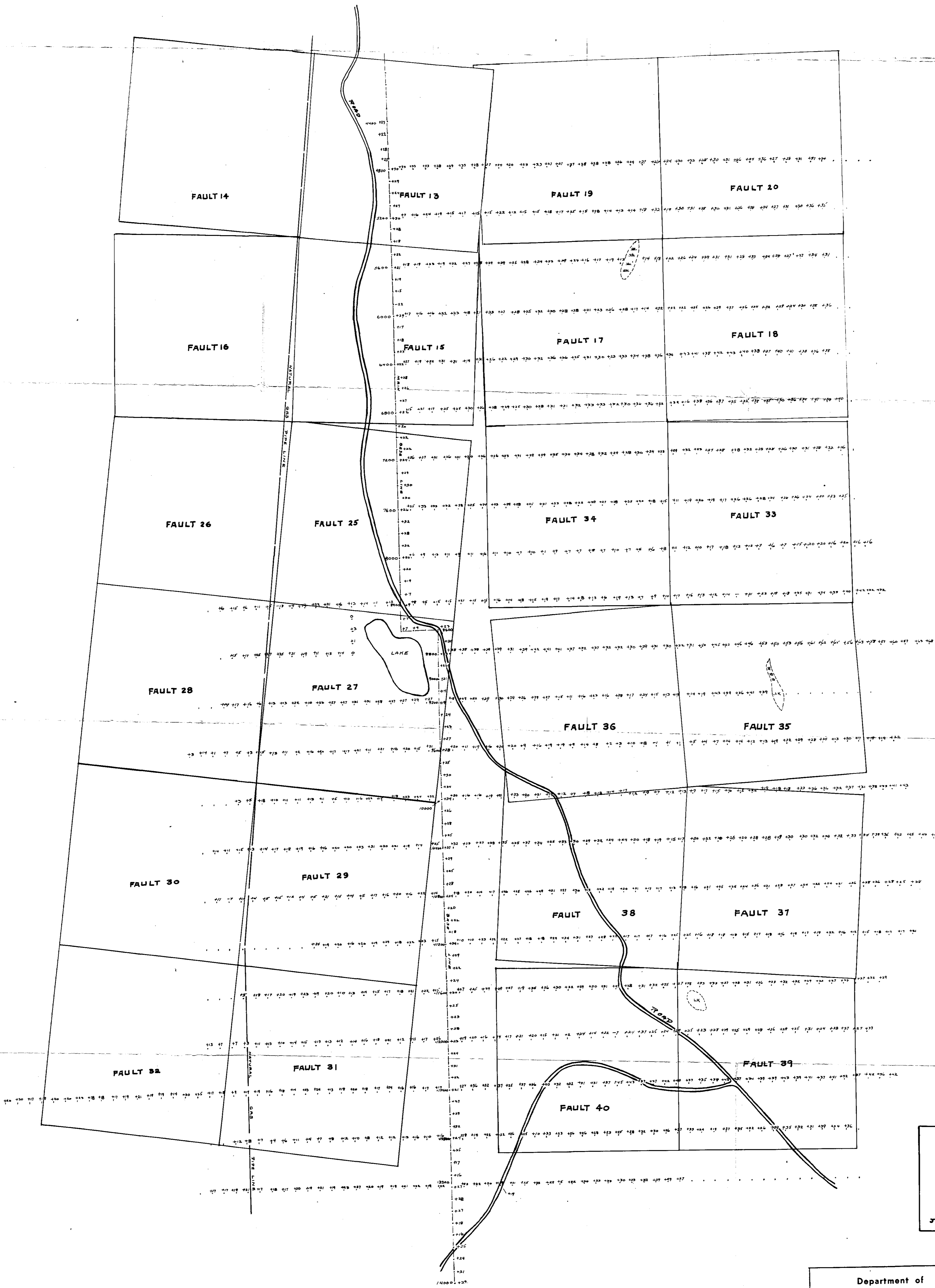
- LEGEND**
- 4 KINGSVALE GROUP
 - 2 SPENCES BRIDGE GROUP
 - 3 GRANITE
 - 4 NICOLA ? GROUP

MACDONALD COPPER PROSPECT
 MERRITT, B. C.
 GEOLOGY
 SCALE: 1 IN = 400 FT
 JUNE 6/62 J.T.W.

Department of
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420 ⁷¹

M. J. Sivola



MACDONALD COPPER PROSPECT
 MERRITT, B. C.
 SELF POTENTIAL SURVEY
 SCALE: 1 IN = 400 FT
 JUNE 2/62 J.T.W.

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420 (17)

Mon. Silva



MACDONALD COPPER PROSPECT
 MERRITT, B. C.
 GEOCHEMICAL SURVEY
 SCALE: 1 IN = 400 FT
 JUNE 6/62 J.T.W.

LEGEND
 RUBENIC ACID TEST FOR COPPER
 T (TRACE) 1, 2, 3 ETC, DENOTES P.P.M. OF ACETIC ACID-SOLUBLE COPPER IN SOIL.

Department of
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Tom Silva