

82E/12, 13 W

GEOCHEMICAL REPORT

JIM AND ROY GROUPS

SIX MILES SOUTHWEST OF PEACHLAND 49°, 119° N.W.

M.K.Lorimer, B.A.Sc., P.Eng.  
Kellex Mining Co. Ltd. (N.P.L.)  
August 28 - November 4, 1966

1065

**HILL, MANNING & ASSOCIATES LTD.**  
**CONSULTING MINING ENGINEERS**

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1065

**R E P O R T**  
**ON A**  
**GEOCHEMICAL SURVEY**  
**OF**  
**THE JIM AND ROY GROUPS**  
**OSOYOOS M.D.**

**By**

**M.K. Lorimer B.A.Sc., P.Eng.**

**August 18, 1967**

**Hill, Manning & Associates Ltd.**

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- Map 1 - Location Map # 3
- Map 2 - Roy Group # 2
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## S U M M A R Y

A geochemical survey of the Roy and Jim Groups in the Oscyoos Mining Division was made in 1966 for the purpose of locating possible copper anomalies.

A total of 609 samples were taken and tested by the dithizone method. All results were negative.

The conclusions are that the overburden does not contain copper minerals in quantities sufficient to be detected by the dithizone method.

R E P O R T  
ON A  
GEOCHEMICAL SURVEY  
OF  
THE JIM AND ROY GROUPS  
OSOYOOS M.D.

OBJECT

This report is submitted for the purpose of recording the results of a reconnaissance geochemical survey carried out on the Jim and Roy Groups in the summer and fall of 1966 and for the purpose of presenting the conclusions to be drawn from these results.

LOCATION

The two groups over which the survey was made are approximately six miles south-west of Peachland and twelve miles north-west of West Summerland. They are accessible by jeep road from both places. The elevation is slightly over 4,000 feet.

The Jim Group lies immediately north and the Roy Group immediately west of Darke Lake Park No.1.

The area is covered by Sheet 82E13W of the National Topographic System. See also Map 1.

TITLE

The claims under consideration in this report are as follows:

<u>Group</u>	<u>Claims</u>	<u>Record Nos.</u>	<u>Expiry Date</u>
JIM	JIM 1-8	15924 - 31	July 20, 1967
	JIM 21-26	15932 - 37	July 20, 1967
	ROY 37-42	15918 - 23	July 20, 1967
ROY	ROY 13 and 14	15895 and 96	July 20, 1967
	ROY 21	15903	July 20, 1967
	ROY 23 and 24	19905 and 06	July 20, 1967
	ROY 31 - 34	19913 - 16	July 20, 1967
	ROY 36	19918	

Bills of Sale in favour of Kellex Mining Co. Ltd. (N.P.L.) cover all these claims.

The locations of the claims are shown on Maps 2 and 3.

TOPOGRAPHY

The area is hilly, thickly wooded with lodgepole pine and spruce, and mostly covered with overburden.

Tapsley Creek flows through the Jim Group and a tributary of Darke Creek flows through the Roy Group.

CLIMATE

The climate is moderate with a fairly heavy snowfall in winter.

GEOLOGY

Both claim groups are underlain by granites and grano-diorites of the Valhalla plutonic rocks, although the northern boundary is on, or close to, the contact with the Nelson plutonics. The Valhalla rocks are intrusive into the Nelson rocks. In general, in this area, contacts are vague and tend to be zonal in character.

## GEOLOGY (Continued)

The only known structural feature is a north-south fault lying two miles to the east of the Jim group.

Although the claims lie in an area of scattered copper mineralization, no sulphide minerals have been noted in any of the few rock outcrops.

## PURPOSE OF SURVEY

As the first phase of a programme to evaluate this property, it was recommended by Hill, Manning and Associates Ltd. that a preliminary reconnaissance-type of soil sampling survey be made in order to locate areas where detailed soil sampling and, possibly, geophysical surveying might be carried out.

## SURVEY METHODS

Lines were run approximately east and west under compass control with cross-lines running approximately north and south. These lines were not necessarily straight; nor were they at fixed intervals. In most cases they followed claim location lines. Maps 2 and 3.

The material sampled was generally a fine-grained, powdery soil with a high clay content and frequent pebbles. In a few locations there was an estimated ten to fifteen per cent sand content. The samples were taken at an average depth of about fourteen inches.

Soil samples were taken at 100-foot intervals. The samples were tested for copper with a dithizone field kit.

A total of 196 samples were taken on the Roy Group and 413 on the Jim Group.

## FIELD WORK

The soil sampling was supervised by Mr. E. H. Ewer whose certificate of qualifications is attached. He trained K. McLeod who took many of the samples. Mr. W. J. C. Kane British Columbia Land Surveyor of Kelowna, B.C. did the compass surveying in connection with the project.

Work on the Roy Group was done between August 28 and October 4, 1966 and work on the Jim Group between August 28 and November 4, 1966.

The direct costs were:

ROY GROUP

Field Crew

E. H. Ewer	4 days @ \$35.00	\$ 140.00
O. Henny and K. McLeod	18 man days @ \$30.00	540.00

Mapping, Plotting and Testing

E. H. Ewer	4 days @ \$35.00	140.00
K. McLeod	4 days @ \$30.00	120.00

Surveying

W. J. C. Kane	1 day @ \$60.00	60.00
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Transportation

4-Wheel Drive Vehicle:		
13 days @ \$8.00		104.00
730 miles @ \$ 0.10		73.00

Testing Chemicals

42.00

Total Roy Group

\$ 1,219.00

JIM GROUP

Field Crew

E. H. Ewer	8 days @ \$ 35.00	\$ 280.00
K. McLeod	22 days @ \$ 30.00	660.00
O. Henny	17 days @ \$ 30.00	510.00
R. Witter	1 day @ \$ 30.00	30.00
R. Kato	2 days @ \$ 30.00	60.00

Mapping, Plotting and Testing

E. H. Ewer	6 days @ \$ 35.00	210.00
K. McLeod	4 days @ \$ 30.00	120.00

Surveying

W. J. C. Kane	3 days @ \$ 60.00	180.00
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Transportation

4-Wheel Drive:	30 days @ \$8.00	240.00
	1,450 miles @ \$0.10	145.00

Passenger Car:	50 miles @ \$0.15	7.50
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Testing Chemicals

42.00

Total Jim Group

\$ 2,484.50



### RESULTS

The results of the survey are plotted on Maps 2 and 3.

All results were negative. Two samples from the Jim Group tested positive at first but a check sample in each case tested negative.

### CONCLUSIONS

The results of this survey indicate that traces of copper are not present in the overburden in quantities sufficient to be detected by the dithizone method.

The negative results may be due to a lack of copper minerals in the underlying rocks or to a complete removal of trace elements in the overburden by leaching.

HILL, MANNING & ASSOCIATES LTD.



M. K. Lorimer, B.A.Sc., P.Eng.

CERTIFICATE OF QUALIFICATIONS

I, MALCOLM KEITH LORIMER, of the City of Vancouver, Province of British Columbia, Mining Engineer, hereby certify:

1. THAT I am a practicing Mining Engineer and reside at 3082 West 27th Avenue, Vancouver, B. C.
2. THAT I am a graduate in Mining Engineering of the University of British Columbia, Bachelor of Applied Science, 1950 and have been practicing my profession for over sixteen years.
3. THAT I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. THAT I am a member of the Canadian Institute of Mining and Metallurgy.
5. THAT I am an associate of the firm of Hill, Manning & Associates Ltd., Consulting Mining Engineers, of 610 - 890 West Pender Street, Vancouver 1, B. C.
6. THAT the following is a true record of my employment and experience:
  - 1950 - 52 General engineering, Consolidated Mining and Smelting Company of Canada Limited, Kimberley, B.C.
  - 1952 - 56 Chief Engineer, Pioneer Gold Mines of B. C. Ltd., Pioneer Mines, B. C.
  - 1956 - 57 Chief Engineer, Buchans Mining Co. Ltd., Buchans, Nfld.
  - 1957 - 59 Chief Engineer and Mine Superintendent, Cowichan Copper Co. Ltd., Cowichan Lake, B. C.
  - 1959 - 65 General Exploration work for various companies mostly in southern British Columbia.
  - 1965 - 66 Associate, Hill, Manning & Associates Ltd., Vancouver.
7. THAT I have no direct or indirect interest in the properties or securities of Kellex Mining Co. Ltd. (N.P.L.) nor do I expect to acquire any.

DATED at Vancouver, British Columbia, this 18th day of August, 1967

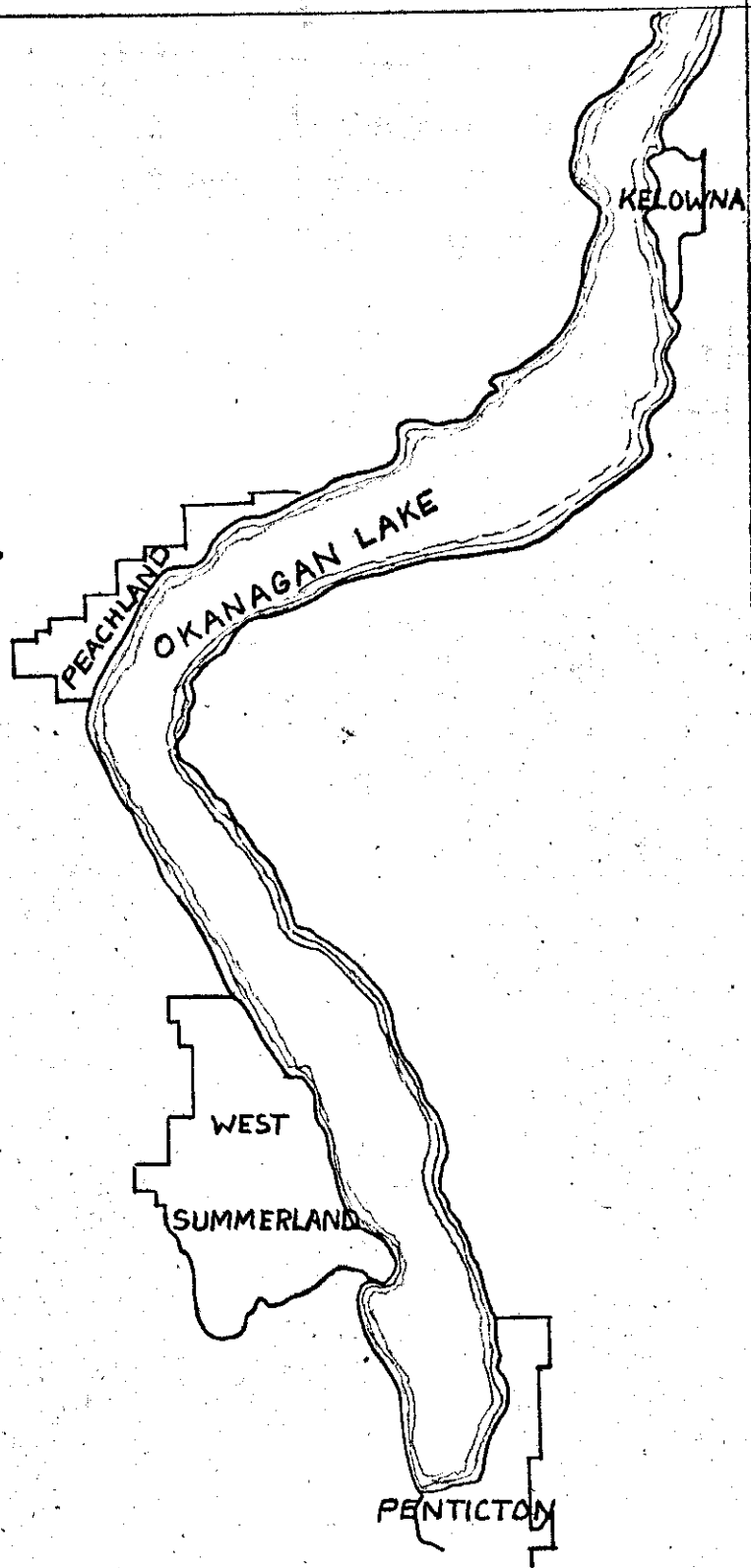
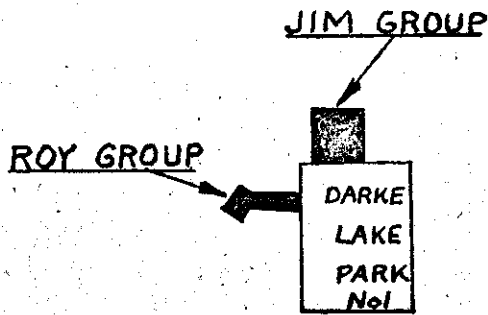


M. K. Lorimer, B.A.Sc., P.Eng.

I, EDWARD H. EWER, of Kelowna, B. C., Prospector, certify that I have the following qualifications and experience pertaining to geochemical work.

1. Grade 13 education. Graduated Kelowna, 1948.
2. Eight months in sample room - Britannia Beach, 1949
3. Hill, Starck & Associates Ltd. - 6 weeks Stikine Area Soil sampling and prospecting - J.P.McGorran supervising soil analysis (1964)
4. Soil sampling and analysis for Quinalta Petroleum - September to November, 1964 - John B. Newland, Geologist, Supervisor.
5. Geochemical prospecting in Copeland Creek area, Revelstoke August 1964 and July 1965.
6. Geochemical supervision and mapping for Anuk River Mines Ltd. under J. F. McIntyre. - November 1966 to January, 1967.
7. Geochemical supervision and mapping for Spa Mines Ltd. February to June, 1967 - J. F. McIntyre.
8. Geochemical supervision, testing and mapping for Kellex Mining Co. Ltd. (N.P.L.) - August 1966 to August 1967.

  
EDWARD H. EWER



MAP I

KELLEX MINING CO LTD  
JIM AND ROY GROUPS  
LOCATION MAP

Scale: 1" = 4 mi.

*Handwritten signature*

DOMINION OF CANADA:  
PROVINCE OF BRITISH COLUMBIA.  
To Wit:

In the Matter of

an affidavit on application  
of work covering the Jim Group,  
Osyoos Mining Division

I, WILLIAM J. C. KANE

of 1373 Lambly Place, Kelowna, B. C.

in the Province of British Columbia, do solemnly declare that the following is a true statement of some of the expenses incurred in the conduct of a geo-chemical survey of a portion of the Jim Group, Osyoos Mining Division.

Field Crew

E. H. Ewer	8 days @ \$35.00	\$ 280.00
K. McLeod	22 days @ \$30.00	660.00
O. Henry	17 days @ \$30.00	510.00
R. Witter	1 day @ \$30.00	30.00
R. Kato	2 days @ \$30.00	60.00

Mapping, Plotting & Testing

E. H. Ewer	6 days @ \$35.00	210.00
K. McLeod	4 days @ \$30.00	120.00

Surveying

W. J. C. Kane	3 days @ \$60.00	180.00
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Transportation

4-Wheel Drive:	30 days @ \$ 8.00	240.00
	1,450 miles @ 10 cents	145.00
Passenger Car	50 miles @ 15 cents	7.50

Testing Chemicals

42.00

Total of Jim Group

\$ 2,484.50

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 18  
day of August 1967, A.D.

*[Handwritten signature]*

*[Handwritten signature]*  
A Commissioner for taking Affidavits for British Columbia or  
A Notary Public in and for the Province of British Columbia.

Subscribing Recorder

DOMINION OF CANADA:  
PROVINCE OF BRITISH COLUMBIA.  
To Wit:

In the Matter of

an affidavit on Application for  
Certificate of Work covering the  
Roy Group, Osoyoos Mining Division.

I, WILLIAM J. C. KANE

of 1373 Lambly Place, Kelowna, B. C.

in the Province of British Columbia, do solemnly declare that the following is a true statement of some of the expenses incurred in the conduct of a geo-chemical survey of a portion of the Roy Group, Osoyoos Mining Division.

Field Crew

E. H. Ewer	4 days @ \$35.00	\$ 140.00
O. Henny	7 days @ \$30.00	210.00
K. McLeod	9 days @ \$30.00	270.00

Mapping, Plotting & Testing

E. H. Ewer	4 days @ \$35.00	140.00
K. McLeod	4 days @ \$30.00	120.00

Surveying

W. J. C. Kane	1 day @ \$60.00	60.00
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Transportation

4-Wheel Drive:	13 days @ \$8.00	104.00
	730 miles @ 10 cents	73.00

Testing chemicals

	42.00
	<u>\$ 1,159.00</u>

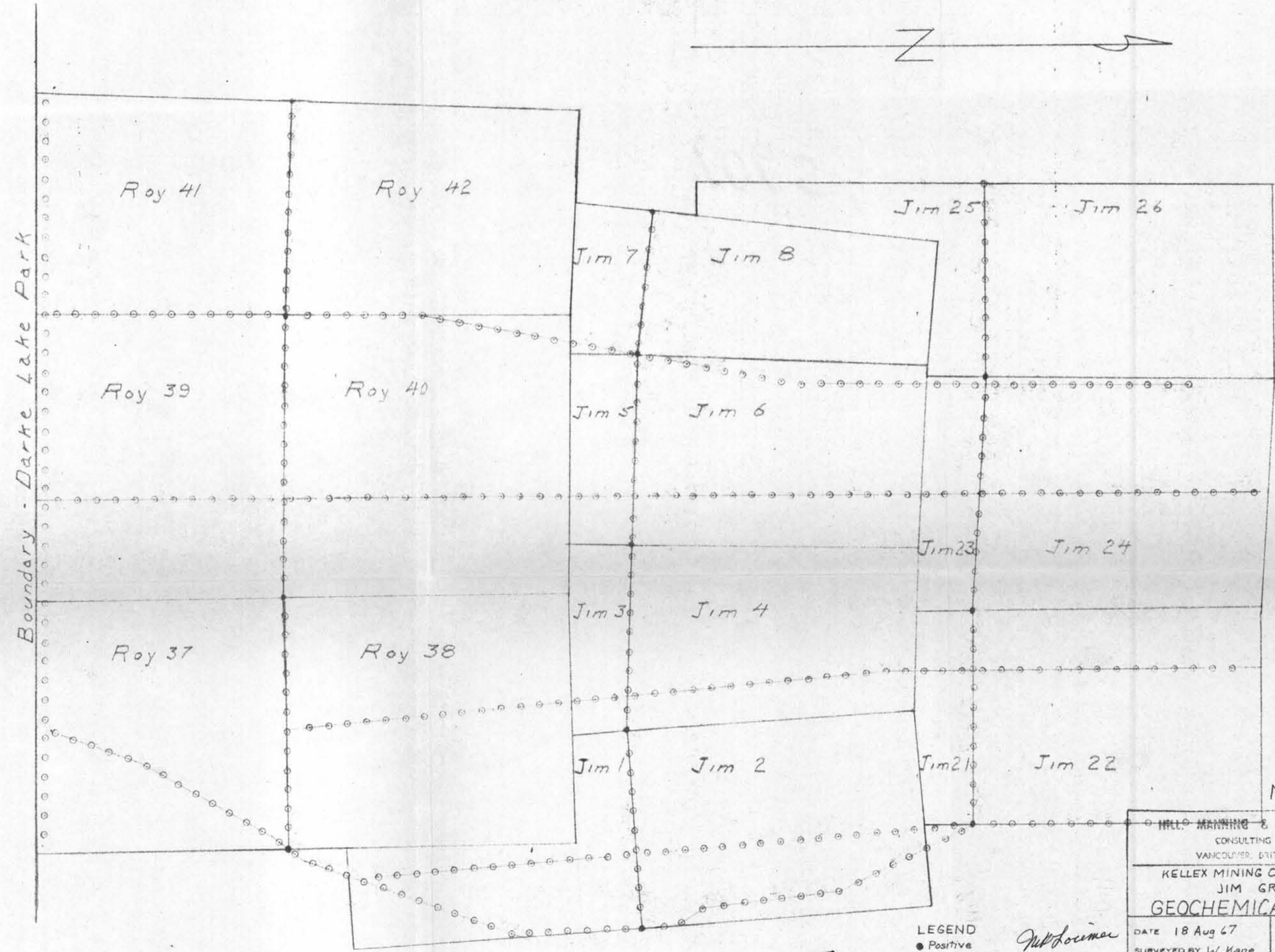
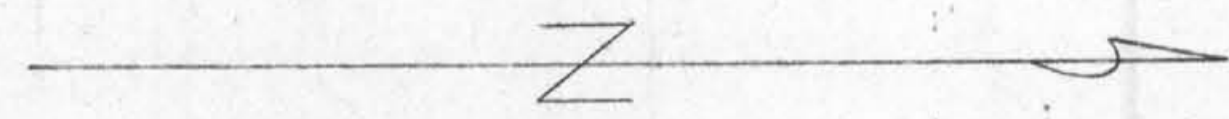
And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *15*  
day of *August* 19*67*, A.D.

*[Signature]*

*[Signature]*

A Commissioner for taking Affidavits for British Columbia or  
A Notary Public in and for the Province of British Columbia.  
Sub-mining Recorder



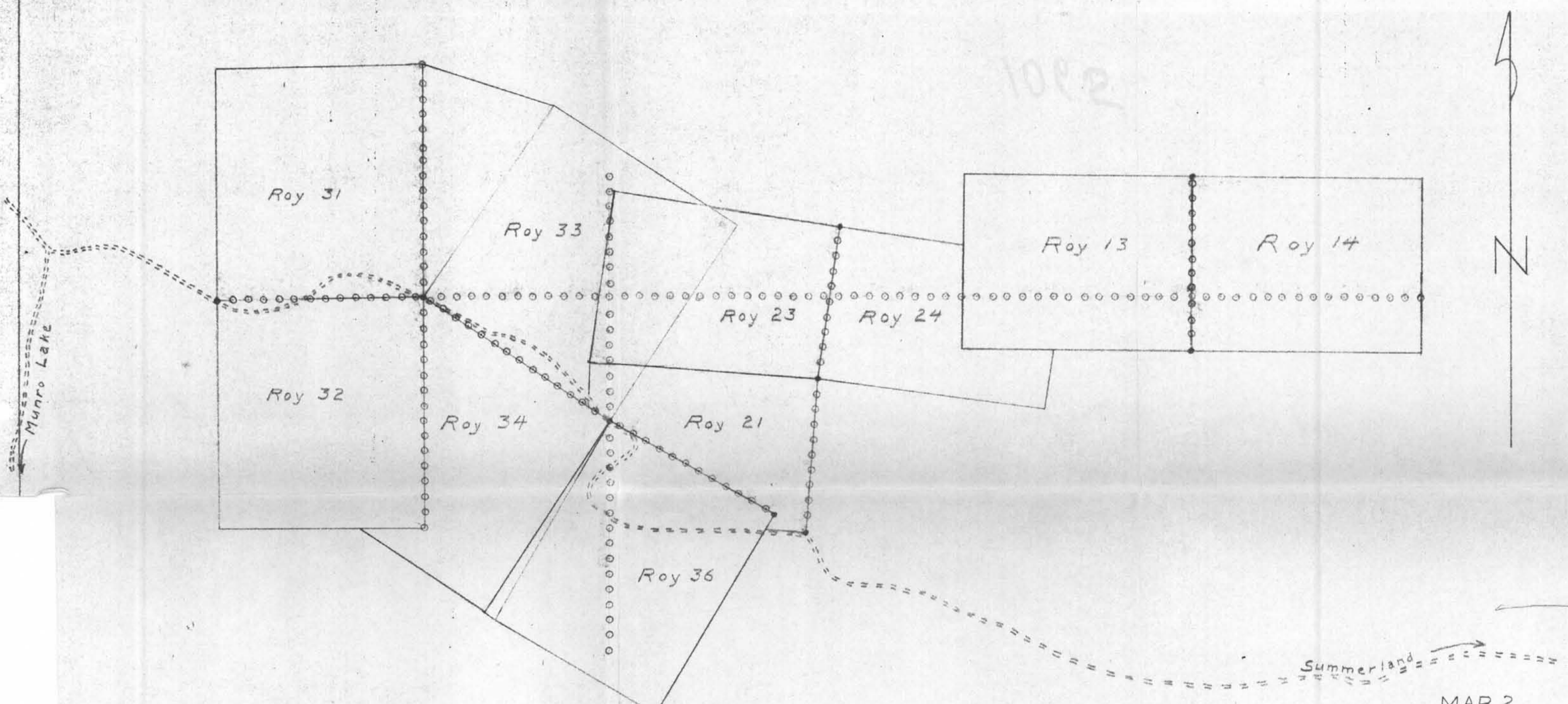
MAP 3

HILL, MANNING & ASSOCIATES LTD. CONSULTING ENGINEERS VANCOUVER, BRITISH COLUMBIA	
KELLEX MINING CO LTD (NPL) JIM GROUP GEOCHEMICAL SURVEY	
DATE 18 Aug 67	SCALE 1" = 400'
SURVEYED BY W. Kane	CHECKED BY
DRAWN BY E.H. Ewer	FILE NO.
TRACED BY	DRG. NO.

LEGEND  
● Positive  
○ Negative

*W. Kane*

1065



LEGEND

- Positive
- Negative

MAP 2

HILL, MANNING & ASSOCIATES LTD. CONSULTING ENGINEERS VANCOUVER, BRITISH COLUMBIA	
KELLEX MINING CO. LTD. (N.P.L.) ROY GROUP GEOCHEMICAL SURVEY	
DATE 18 Aug 67	SCALE 1" = 500'
DESIGNED BY W. Kane	CHECKED BY
DRAWN BY E.H. Ewer	FILE NO.
JOB	DRG. NO.

*John Lawrence*

1065