

MACDONALD CONSULTANTS LTD.
SUITE 12 - 425 HOWE STREET, VANCOUVER 1, B. C.

3622

GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

Hi Group of Mineral Claims

Chehalis River, New Westminster Mining Division

British Columbia

92G / 9E

for

92H / 12W

GARY MINES LTD. (N.P.L.)

by

MacDonald Consultants Ltd.

Earl D. Dodson, P. Eng.

May 8, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3622 MAP

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INTRODUCTION

A stream-silt geochemical survey and limited magnetometer traversing were carried out on the Hi group of mineral claims between June 10 and September 30, 1971.

A total of 226 silt samples were taken on all reasonably accessible drainages on the claim group.

296 magnetometer readings were taken on five traverse lines in an effort to delineate an intrusive contact.

LOCATION AND ACCESS

The Hi Group of mineral claims are situate on Eagle Creek, a headwaters tributary of the Chehalis River in the New Westminster Mining Division.

Access is by Canadian Forest Products logging road from Harrison Mills, B. C., a distance of approximately thirty miles. The map following this page shows the location and access road.

PHYSIOGRAPHY

The property is located within the Coast Mountains of British Columbia. Topography is rugged to precipitous. Maximum relief on the claim is 3,500 feet with elevations ranging from 2,000 to 5,500 feet above sea level. Rock exposure is prominent on most slopes, but valley bottoms are mantled by talus and glacial deposits.

PROPERTY

The property consists of 151 mineral claims as listed below:

<u>Claim Name</u>	<u>Record Number</u>	<u>Record Date</u>
HI 1 - 9	25657 - 25665	May 3, 1971
HI 11 - 14	25666 - 25669	May 3, 1971
HI 18 - 28	25672 - 25682	May 3, 1971
HI 41 - 56	25694 - 25709	May 3, 1971
HI 57 - 58	26000 - 26001	May 27, 1971
HI 59 - 110	25908 - 25959	May 21, 1971
HI 111 - 148	26002 - 26039	May 27, 1971
HI 150 - 151	25960 - 25961	May 21, 1971
HI 154 - 157	25962 - 25965	May 21, 1971
HI 159 - 167	25966 - 25974	May 21, 1971
HI 169 - 172	25975 - 25978	May 21, 1971

HISTORY

The claims were staked in April and May, 1971. So far as is known, no previous claims have covered this ground. No evidence of previous work was seen.

GEOLOGY

The claims are underlain primarily by rocks of the Fire Lake Group. These are intruded by members of the Coast Intrusives. These are characteristically granodiorite to quartz-diorite. Hornfelsing of Cretaceous conglomerates indicates that some of the intrusives are post-Cretaceous in age.

MINERALIZATION

Pyritization is prominent over large parts of the claim group. Locally, float boulders containing pyrrhotite, sphalerite, and chalcopyrite are found.

STREAM-SILT SURVEY

Silt samples were taken on all reasonably accessible drainages within the claims area. The term "reasonably accessible" includes many streams with narrow rugged canyons cut in precipitous hillsides. Sample interval varies with topographic conditions and silt availability, but where possible, is approximately 100 feet vertically on the steeper drainages. All sample locations were flagged and numbered.

Silt samples were taken from the active stream bed using a large stainless steel spoon. In many instances, several tries were made before a sufficient quantity of fine material was collected. Waterproof paper sample bags were used for collection. Because of the generally coarse sediment, the bags were filled to capacity.

GEOCHEMICAL TESTING

Analysis was carried out by Crest Laboratories, 1068 Homer Street, Vancouver 3, B. C. Samples analysed for copper and zinc were digested using nitric and perchloric

acids and analysis by Atomic absorption techniques. Samples analysed for molybdenum were digested using perchloric and nitric acids, analysis was by Atomic absorption and colorimetric.

MAGNETOMETER SURVEY

Magnetometer traverses were run up three drainages in an effort to establish the intrusive contact. A total of 296 readings were taken over a three day period. When possible, base stations were read at four hour intervals. The instrument used was a Sharpe MF-1 Fluxgate magnetometer (Serial No. 5776).

RESULTS AND CONCLUSIONS

The stream-silt survey established that the claims area has high background values in both copper and zinc. Copper ranges from 20 ppm to 360 ppm with a threshold value in the order of 100 ppm.

Zinc ranges from 22 ppm to 660 ppm with a threshold in the order of 150 ppm.

There is some coincidence between high copper and high zinc values, although anomalous values do not necessarily coincide, due to differing mobility. Areas of major interest are the drainages of Sally, Burnett, Above Camp and Caper Creeks.

The magnetometer traverses gave inconclusive results. It is doubtful that the intrusive contact could be successfully delineated using this method.

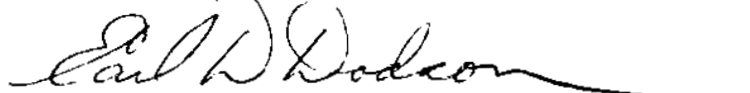
An interesting feature of the traverses, however, is the lack of correspondence between the results obtained on the two distributaries of Burnett Creek. Both the distributaries are in relatively flat ground and no topographic effect is indicated. The readings on the southern traverse are, in large part, several hundred gammas higher than those on the north. This suggests a rock change in this vicinity. Further work would be required to establish the nature of this change.

RECOMMENDATIONS

The nature of the topography precludes soil-sampling of much of the claims area, although limited areas might be gridded for this purpose. Careful geological mapping should be undertaken in order to better assess the results to date and to evaluate the property.

Respectfully submitted,

MACDONALD CONSULTANTS LTD.



Earl D. Dodson, P. Eng.

EDD/ws

MACDONALD CONSULTANTS LTD.

SUITE 12 - 425 HOWE STREET, VANCOUVER 1, B. C.

Job No.: 263-2
Date: September 30, 1971

Gary Mines Ltd. (N.P.L.)
12 - 425 Howe Street
Vancouver 1, B. C.

PROFESSIONAL SERVICES FOR THE MONTH OF JULY, 1971

E. D. Dodson	Supervision and Consulting		\$150.00
	1 day @ \$150/day		
G. Baker	2 days @ \$525/month	\$ 45.66	
E. Burnett	2 days @ \$45/day	90.00	
G. A. MacD.	2 days @ \$525/month	45.66	
L. Mamoser	2 days @ \$525/month	<u>45.66</u>	
		\$226.98	
	Plus Fringe @ 20%	<u>45.40</u>	<u>272.38</u>
			\$ 422.38

PROFESSIONAL SERVICES FOR THE MONTH OF SEPTEMBER, 1971

E. D. Dodson	Supervision and Consulting		
	3 days @ \$150/day		\$ 450.00
G. Baker	12 days @ \$525/month	\$ 273.96	
E. Burnett	12 days @ \$45/day	540.00	
G. Diakow	2 days @ \$525/month	45.66	
E. Kennedy	8 days @ \$525/month	182.64	
D. Knudsen	4 days @ \$525/month	91.32	
G. A. MacD.	4 days @ \$525/month	91.32	
L. Mamoser	12 days @ \$525/month	<u>273.96</u>	
		\$1,498.86	
	Plus Fringe @ 20%	<u>299.77</u>	<u>1,798.63</u>
			2,248.63

Magnetometer Survey:

E. D. Dodson	Magnetometer Operator		
	3 days @ \$150/day		\$450.00
G. Diakow	3 days @ \$525/month	\$68.49	
	Plus Fringe @ 20%	<u>13.70</u>	<u>82.19</u>
			<u>532.19</u>
			\$3,203.20

Job. No.: 263-2
Date: September 30, 1971

EXPENSES

Labour and Supervision		\$3,203.20
Geochemical analyses 226 @ \$2.50	\$565.00	
Applicable truck rental	300.00	
Supplies	306.00	
Equipment rentals:		
magnetometer, 1 week @ \$60/week	60.00	
camp rental	<u>125.00</u>	<u>1,356.00</u>
		\$4,559.20

MACDONALD CONSULTANTS LTD.

SUITE 12 - 425 HOWE STREET. VANCOUVER 1, B. C.

Job No.: 263-2

Date: September 30, 1971

Gary Mines Ltd. (N.P.L.)
12 - 425 Howe Street
Vancouver 1, B. C.

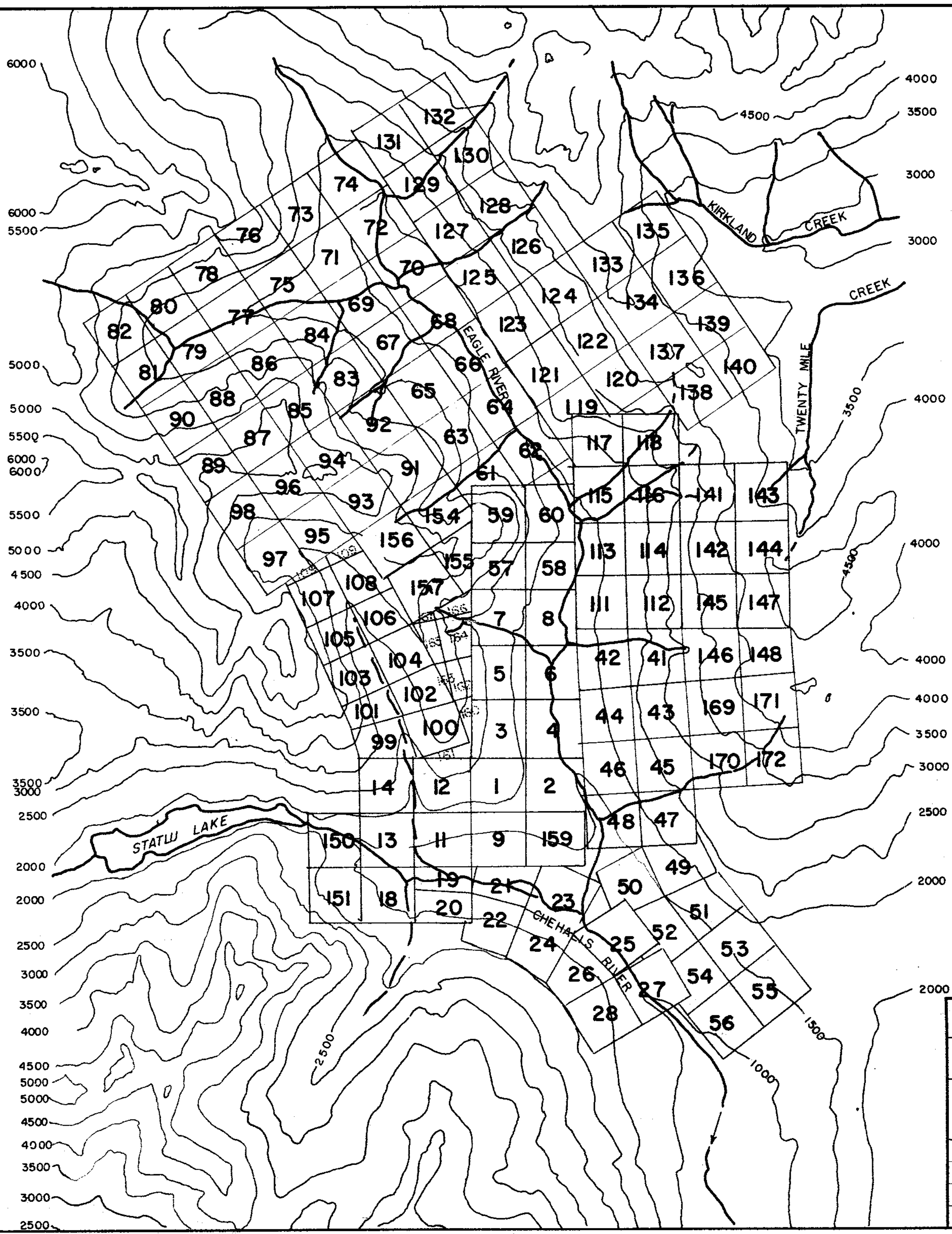
HI GROUP SURVEYS - PERSONNEL AND DATES OF EMPLOYMENT

GEOCHEMISTRY

July: E. D. Dodson	July 6 & 7
E. Burnett	July 6 & 7
G. Baker	July 6 & 7
G. A. MacDonald	July 6 & 7
L. Mamoser	July 6 & 7
September: E. D. Dodson	September 1, 2, & 9
E. Burnett	September 1 - 12
G. Baker	September 1 - 12
G. Diakow	September 1 & 2
B. Kennedy	September 9 - 16
D. Knudsen	September 1 - 4
G. A. MacDonald	September 1 - 4
L. Mamoser	September 1 - 12

MAGNETOMETER

September: E. D. Dodson	September 3, 4, & 5
G. Diakow	September 3, 4, & 5

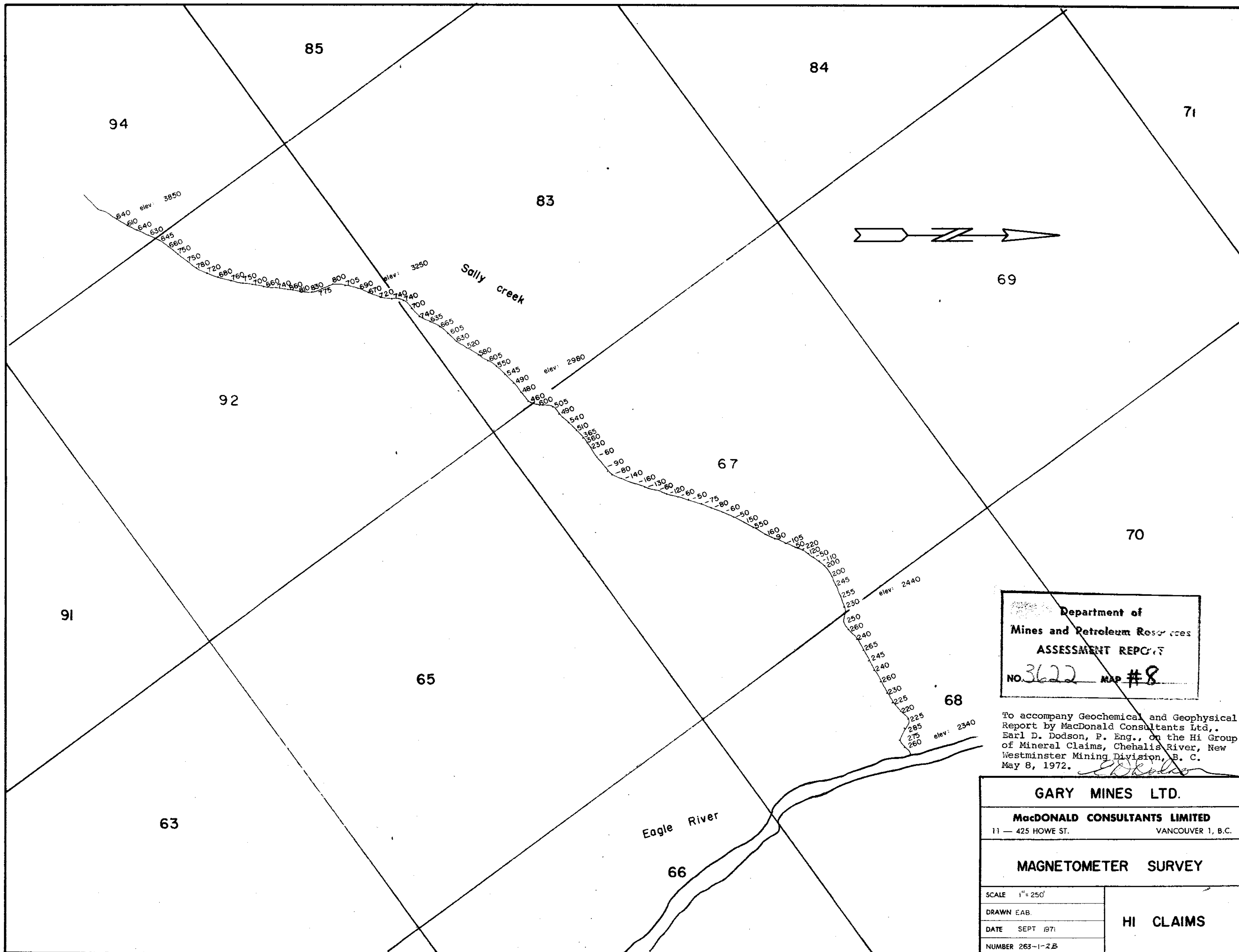


Department of
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 NO. 3622 MAP #5

To accompany Geochemical and Geophysical Report
 by MacDonald Consultants Ltd., Earl D. Dodson,
 P. Eng., on the HI Group of Mineral Claims,
 Chehalis River, New Westminster Mining Division
 B. C., May 8, 1972.

E. D. Dodson

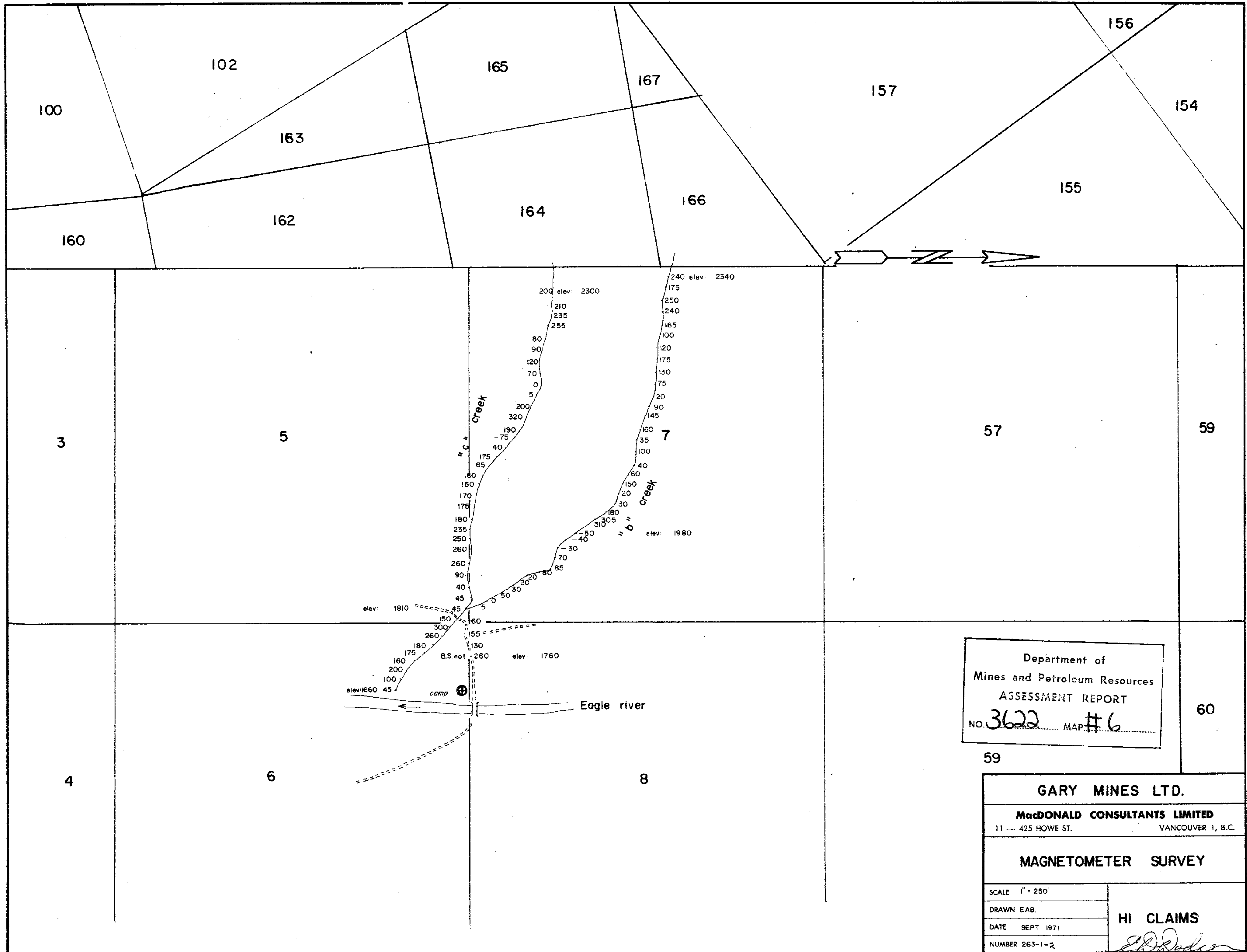
GARY MINES LTD.	
MacDONALD CONSULTANTS LIMITED	
11 - 425 HOWE ST.	VANCOUVER 1, B.C.
CLAIM LOCATIONS	
SCALE 1" = 2000'	HI GROUP
DRAWN J. P. H.	
DATE OCT. 1971	
NUMBER 263-2-1	



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ASSESSMENT REPORT
 NO. 3622 MAP # 8

To accompany Geochemical and Geophysical
 Report by MacDonald Consultants Ltd.,
 Earl D. Dodson, P. Eng., on the HI Group
 of Mineral Claims, Chehalis River, New
 Westminster Mining Division, B. C.
 May 8, 1972. *E. Dodson*

GARY MINES LTD.	
MacDONALD CONSULTANTS LIMITED	
11 — 425 HOWE ST.	VANCOUVER 1, B.C.
MAGNETOMETER SURVEY	
SCALE 1" = 250'	HI CLAIMS
DRAWN EAB.	
DATE SEPT 1971	
NUMBER 263-1-2B	

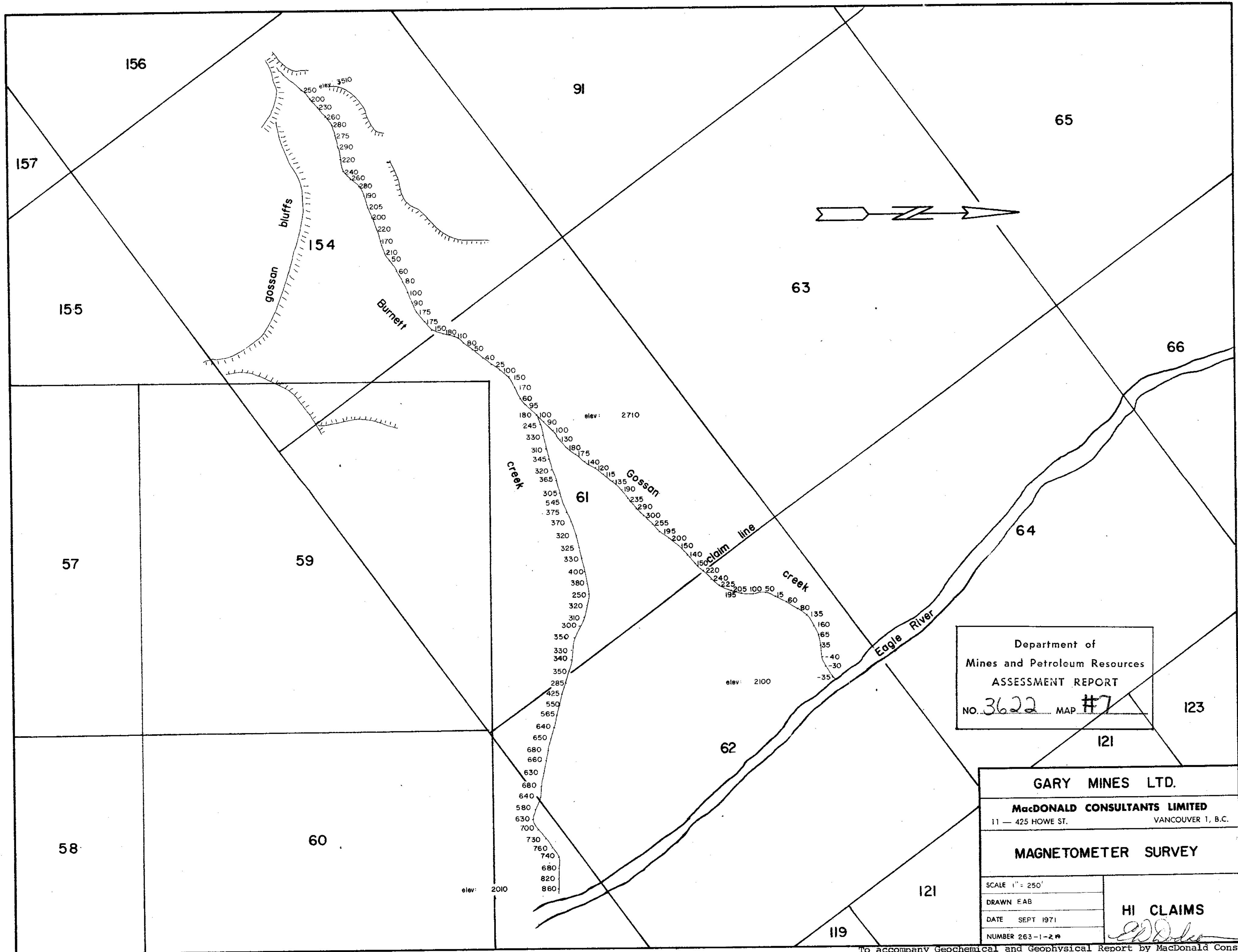


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NO. 3622 MAP #6

59

GARY MINES LTD.	
MacDONALD CONSULTANTS LIMITED	
11 — 425 HOWE ST.	VANCOUVER 1, B.C.
MAGNETOMETER SURVEY	
SCALE 1" = 250'	HI CLAIMS <i>Ed Dodson</i>
DRAWN EAB.	
DATE SEPT 1971	
NUMBER 263-1-2	

To accompany Geochemical and Geophysical Report by MacDonald Consultants Ltd., Earl D. Dodson, P. Eng., on the Hi Group of Mineral Claims, Chehalis R., New Westminster Mining Div., B. C., May 8, 1972.



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Mines and Petroleum Resources
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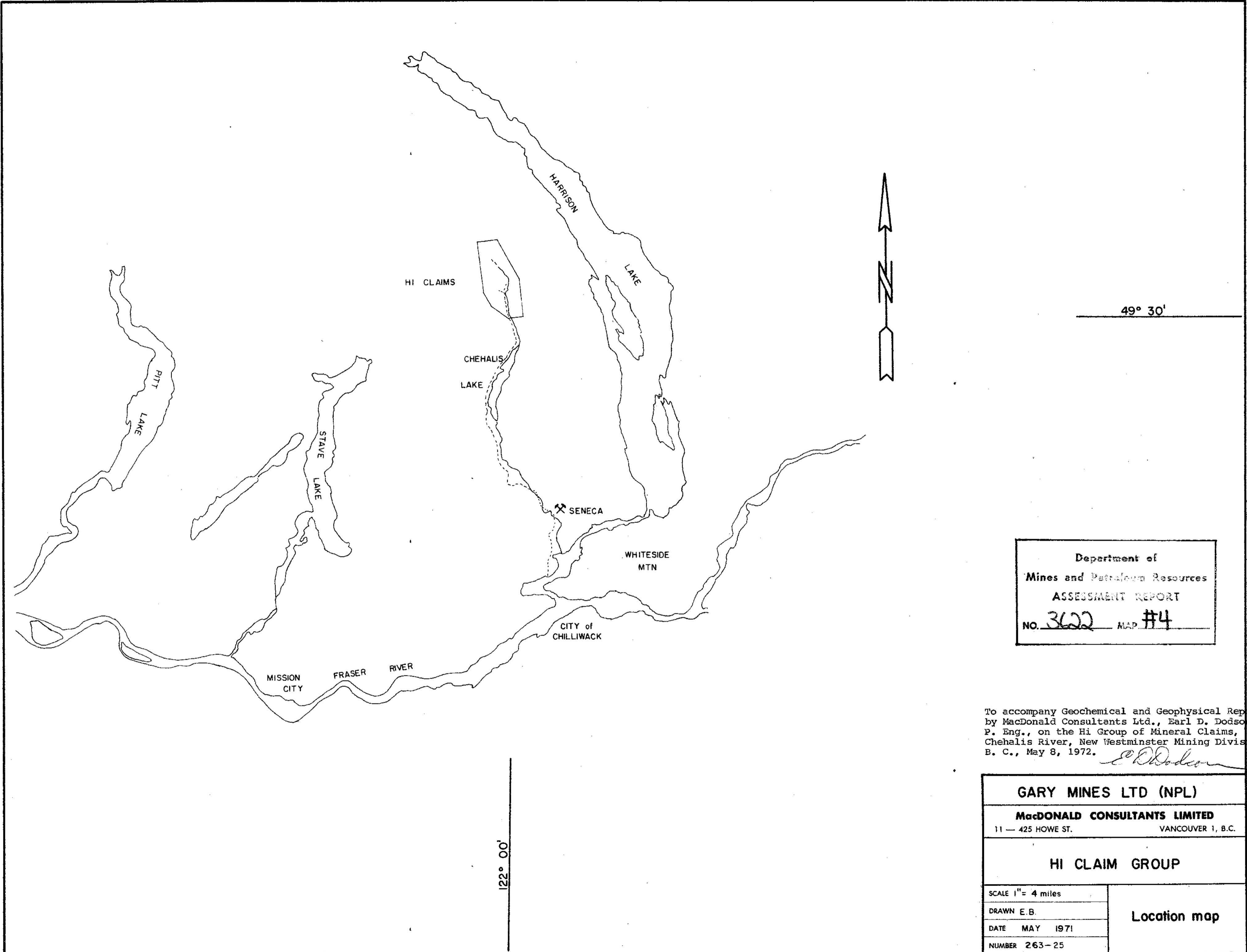
GARY MINES LTD.
MacDONALD CONSULTANTS LIMITED
11 - 425 HOWE ST. VANCOUVER 1, B.C.

MAGNETOMETER SURVEY

SCALE 1" = 250'
DRAWN EAB
DATE SEPT 1971
NUMBER 263-1-2

HI CLAIMS
E.D. Dodson

To accompany Geochemical and Geophysical Report by MacDonald Consultant Ltd., Earl D. Dodson, P. Eng., on the Hi Group of Mineral Claims, Chehalis River, New Westminster Mining Division, B. C. May 8, 1972.



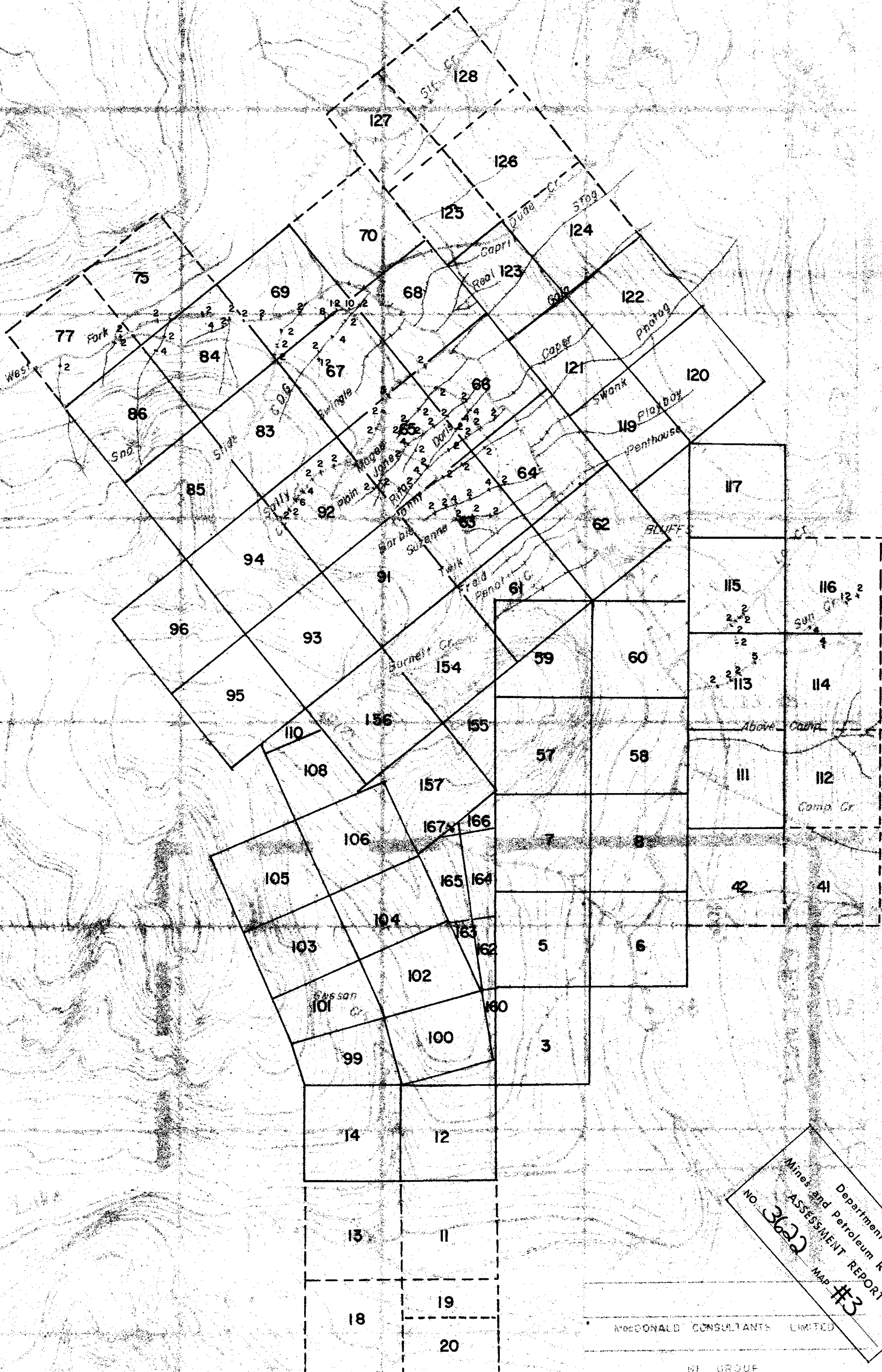
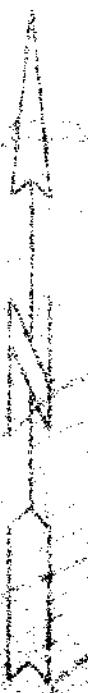
49° 30'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3622 MAP #4

To accompany Geochemical and Geophysical Report
 by MacDonald Consultants Ltd., Earl D. Dodson,
 P. Eng., on the Hi Group of Mineral Claims,
 Chehalis River, New Westminster Mining Division,
 B. C., May 8, 1972. *E. D. Dodson*

GARY MINES LTD (NPL)	
MacDONALD CONSULTANTS LIMITED	
11 — 425 HOWE ST.	VANCOUVER 1, B.C.
HI CLAIM GROUP	
SCALE 1" = 4 miles	Location map
DRAWN E.B.	
DATE MAY 1971	
NUMBER 263-25	

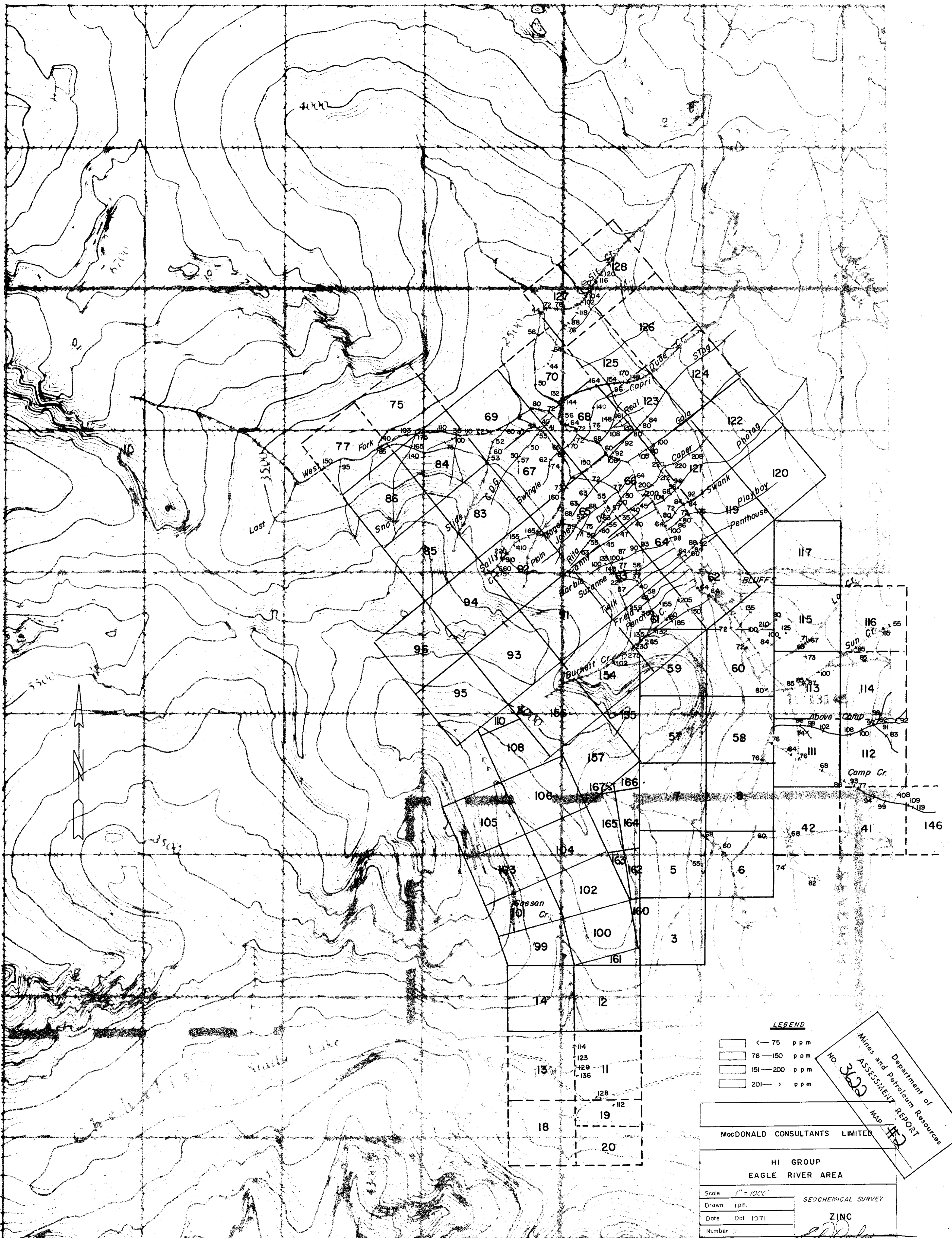
122° 00'



Department of
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ASSESSMENT REPORT
NO. 3622 Map #3

MacDONALD CONSULTANTS LIMITED
HI GROUP
EAGLE RIVER AREA
SCALE 1" = 1000'
DRAWN J.P.H. GEOCHEMICAL SURVEY
DATE OCT. 1971 MOLYBDENUM
NUMBER 263-2-96

To accompany Geochemical and Geophysical Report by
MacDonald Consultants Ltd., Earl D. Dodson, P. Eng.,
on the Hi Group of Mineral Claims, Chehalis River, New
Westminster Mining Division. B. C. May 8, 1972.



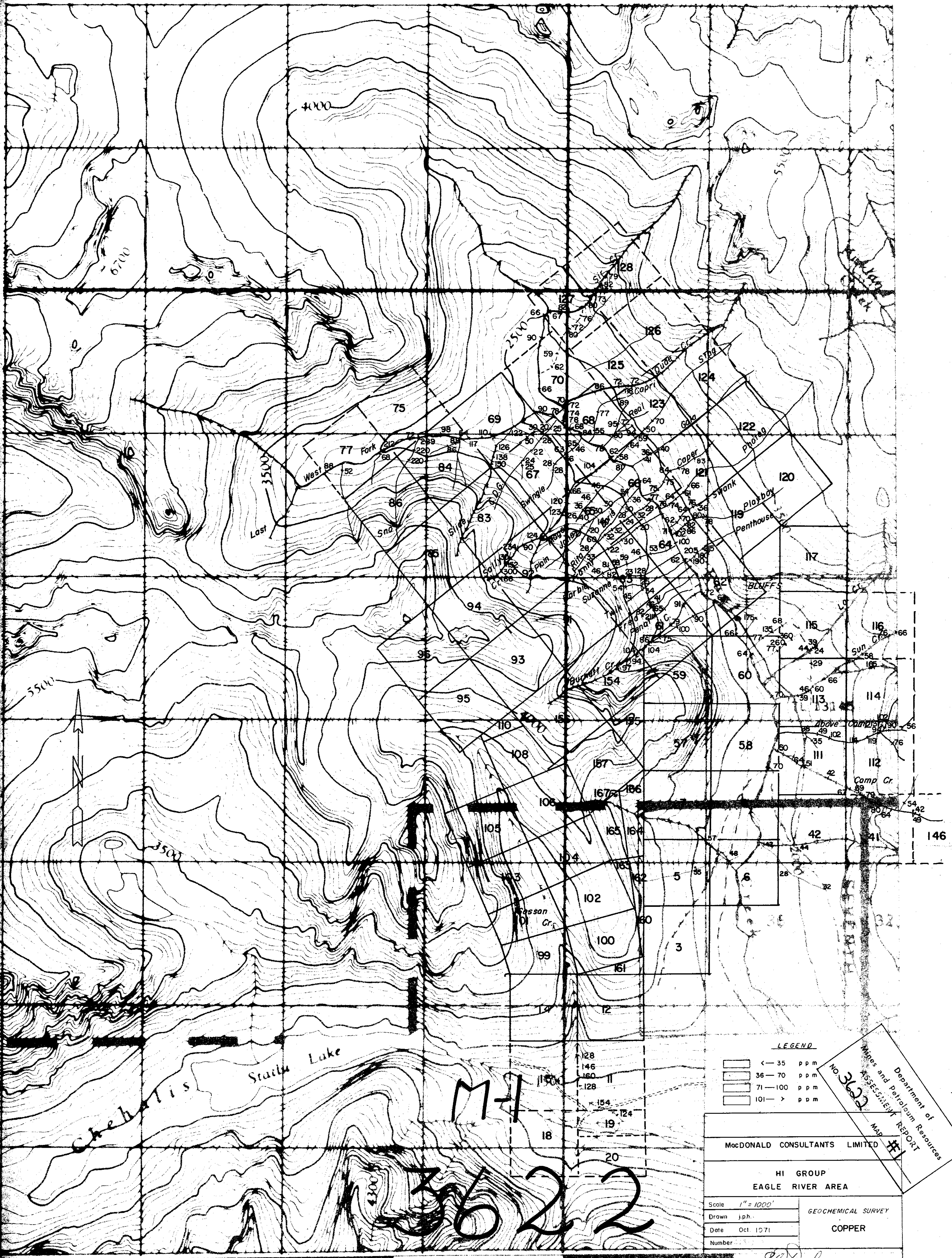
LEGEND

- < 75 ppm
- 76 - 150 ppm
- 151 - 200 ppm
- 201 > ppm

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 ASSESSMENT REPORT
 No. 3622
 Map 412

MacDONALD CONSULTANTS LIMITED	
HI GROUP EAGLE RIVER AREA	
Scale 1" = 1000'	GEOCHEMICAL SURVEY ZINC <i>E.D. Dodson</i>
Drawn j.p.h.	
Date Oct. 1971	
Number	

This Company Geochemical and Geophysical Report by
 MacDonald Consultants Ltd., Earl D. Dodson, P. Eng.,
 on the HI Group of Mineral Claims, Chehalis River, New
 Westminster Mining Division, B. C., May 8, 1972



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Mineral and Petroleum Resources

No. 3622

MAP

#1

MCDONALD CONSULTANTS LIMITED

HI GROUP
EAGLE RIVER AREA

Scale 1" = 1000'	GEOCHEMICAL SURVEY COPPER
Drawn j.p.h.	
Date Oct. 1971	
Number	

E. Dodson

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Westminster Mining Division, B. C. May 8, 1972