

MACDONALD CONSULTANTS LTD.

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

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 2991	MAP.....

Report on a

Geochemical Survey

(Performed Sept. 12th - 19th 1970)

83D/IE

on the

BEND No. 1 Group of Mineral Claims

Located Near the Junction of the

Columbia and Cummins Rivers

(53°03'N, 118°13'W)

in the

Golden Mining Division, B.C.

held by

Cominco Ltd.

by

MacDonald Consultants Ltd.

E. D. Dodson, P. Eng.

Vancouver, B.C.

January, 1971

2991

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INTRODUCTION

During the period September 12th to 19th, 1970, a geochemical soil survey was performed on parts of the BEND No. 1 group of mineral claims, located in the Golden Mining Division, B.C.

The program was performed under the guidance of the writer with field supervision provided by Mr. J. E. Stockwell of MacDonald Consultants Ltd.

LOCATION AND ACCESS

The claims are located approximately 100 miles north of Revelstoke, B.C., and approximately fifteen miles east of the dam construction site at Mica Creek, B.C.

They lie approximately one mile east of the junction of the Cummins River with the Columbia River and approximately one mile north of the Big Bend Highway that parallels the claim group. Local access is provided via gravel roads from the Highway.

TOPOGRAPHY

The claim block lies near the junction of the Cummins and Columbia River Valleys. Average gradients of the valleys are 45° and 30° respectively.

The property lies between elevations of 2100 feet and 5200 feet.

PROPERTY

All the claims are within the Golden Mining Division, B.C. Details of the claims are as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
BEND 1-3	11736 - 11738	September 9, 1977
BEND 4-8	11739 - 11743	September 9, 1978
BEND 9-10	11744 - 11745	September 9, 1977
BEND 34-35	13212 - 13213	June 22, 1977
BEND 56-65	15757 - 15766	July 10, 1971

Laura Mines Ltd. (N.P.L.) hold the claims under an option agreement from Cominco Ltd.

HISTORY

Showings in the area were first discovered during construction of the Big Bend Highway in the 1940's.

In 1966 Cominco Ltd. staked the initial BEND mineral claims and performed geological and shallow drilling programs in the area.

In 1970 Laura Mines Ltd. (N.P.L.) took an option on the claim group from Cominco Ltd.

GENERAL GEOLOGY

The area is underlain by a series of folded Cambrian sediments which consist of a sequence of quartzites, limey quartzites, argillaceous limestone, dolomite, argillite, and garnetiferous schists.

Syenite and nepheline syenite dykes are reported to occur several miles to the south of the property.

GEOCHEMICAL SURVEY

Soil sampling was performed on a line grid established over the eastern part of the claim group. The grid was established using compass and chain with stations flagged and marked every 200 feet. Slope chainage was used whenever necessary. Soil samples were taken at every station along the grid lines, which were spaced 400 feet apart. Samples were collected whenever possible from the "B" soil horizon by using mattocks.

The samples were picked in pre-numbered high wet-strength paper bags supplied by the assay office. All samples were assayed for lead and zinc by Bondar-Clegg & Co. Ltd., 1500 Pemberton Avenue, North Vancouver, B.C. The -80 mesh fraction was digested using hot aqua regia and assayed by atomic absorption.

A total of 439 samples were collected and analysed.

Assay results are shown on the geochemical maps included in the pocket at the back of this report.

Background values for lead were estimated to lie in the 15-25 ppm. range. Values in excess of 50 ppm. might therefore be considered to be significantly anomalous.

Background values for zinc were estimated to lie in the 50-100 ppm. range. Values in excess of 200 ppm. might be considered to be significantly anomalous. A small lead geochemical anomaly was partially outlined on the BEND 64 mineral claim. This zone lies on strike from a known showing on the BEND 5 claim and occurs in an area of known mineralization.

No other geochemical anomalous response was indicated by the survey.

The results confirm a defined mineralized trend previously geologically mapped, but fail to show any indication of a structural repetition of this trend to the north or south.

A coincident zinc geochemical anomaly occurs with the lead anomaly described above.

A few spot high values for zinc occur on other parts of the grid but show no indication of relating to structure or to one another.

SUMMARY AND CONCLUSIONS

1. During the period September 12th to 19th, 1970, a geochemical soil survey was completed over parts of the BEND No. 1 group of mineral claims. A total of 439 samples were collected and analysed for lead and zinc.
2. A coincident lead-zinc geochemical anomaly was outlined in an area of known mineralization along a previously known mineralized structural trend.
3. No repetition of the known mineralized structural trend was outlined by the survey.

Respectfully submitted,
MACDONALD CONSULTANTS LTD.


E. D. Dodson, P. Eng.

EDD/mb

STATEMENT OF EXPENDITURES

September 1970:

Salaries	\$363.00
Expenses	946.65
Total	<u>\$1309.65</u>

SALARIES - September 1970:

W. Buckley	7 days @ \$40.00/day	\$280.00
D. Hallwood	1 day @ \$1100.00/mo.	36.50
J. Stockwell	1 day @ \$1400.00/mo.	46.50
Total		<u>\$363.00</u>

EXPENSES - September 1970:

Bondar-Clegg & Co. - 439 samples @ \$1.60/sample	\$702.40
6 2/3 rolls flagging @ 95¢ each	76.00
Truck rental - 1/2 mo.	93.75
- 30 miles @ 15¢/mile	4.50
Red & White Supermarket - 8 days/food	50.00
Camp equipment rental - approximately \$120 x 1/6	20.00
Total	<u>\$946.65</u>

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

January 27, 1971

CERTIFICATE

I, Earl D. Dodson, do hereby declare that:

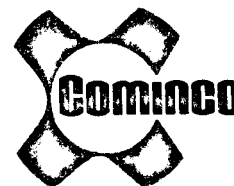
- 1.) I reside at 2990 St. Kilda Avenue, North Vancouver, B.C., and have business address at 12 - 425 Howe Street, Vancouver 1, B.C.
- 2.) I am a graduate in geology of the University of British Columbia, 1954.
- 3.) Since 1954 I have been employed in various phases of mineral exploration; in the latter years in posts of considerable responsibility.
- 4.) I am a professional engineer registered in the Associations of Professional Engineers of the Province of British Columbia and the Yukon Territory.

Respectfully submitted,
MACDONALD CONSULTANTS LTD.



E. D. Dodson, P. Eng.

EDD/mb



Mr. E. Dodson
MacDonald Consultants Ltd.
425 Howe Street
Vancouver, B. C.

Exploration

February 17, 1970

Dear Earl:

Re: The Bend Group - Owned 100% by Cominco Ltd.

(28)

<u>Claim</u>	<u>Record No.</u>	<u>Due Date</u>
Bend 1-8	11736-11743	Sept. 9, 1971 ✓
Bend 9-10	11744-11745	Sept. 9, 1970 ✓
Bend 17-18	11752-11753	Sept. 9, 1970 ✓
Bend 19-20	11754-11755	Sept. 22, 1970 ✓
Bend 21-25	13199-13203	June 22, 1971 ✓
Bend 26	13204	June 22, 1970 ✓
Bend 34-35	13212-13213	June 22, 1971 ✓

GOLDEN

Following on our discussions on the possible option of Cominco's Bend claims by MacDonald Consultants, I have put together the main points which should be considered in the deal. These are listed below. The terms are negotiable and as yet have not been reviewed or approved by our head people.

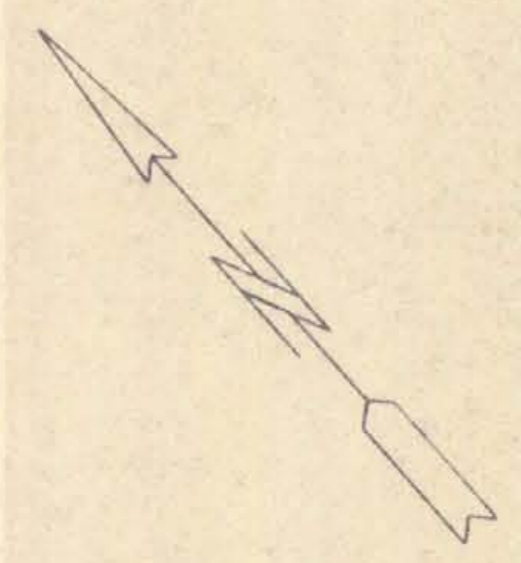
I believe the new company route is the most direct way of dividing equity in the proportions that are indicated, but if you see an alternate I would be glad to consider it.

The first years commitment includes the deep drilling recommended by Bruce Mawer. It is essential to complete this test while the drill site is still accessible.

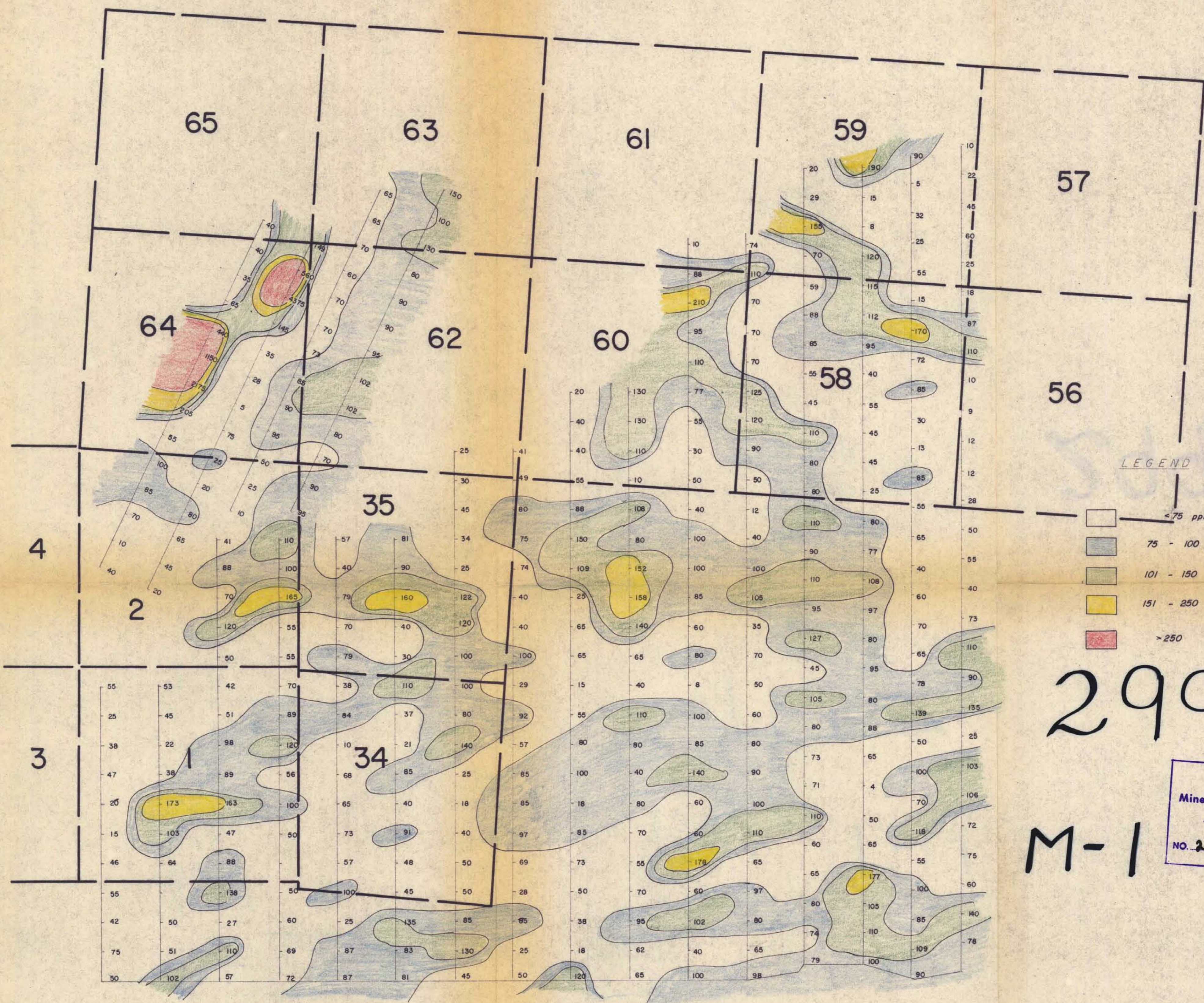
1. Work commitments

\$50,000.00 on or before December 31, 1970
an additional \$75,000.00 on or before December 31, 1971
an additional \$125,000.00 on or before December 31, 1972
The first \$50,000.00 is a firm commitment.

2. Cominco will grant management control and, after completion of the expenditure of \$250,000.00, the exclusive right and option to cause a new company to be incorporated. The structure of the new company must meet the approval of Cominco's solicitors and the authorized capital may not be changed without Cominco's written approval.



E 6000
E 5600
E 5200
E 4800
E 4400
E 4000
E 3600
E 3200
E 2800
E 2400
E 2000
E 1600
E 1200
E 800
E 400
0+00



LEGEND

- < 75 ppm Zn
- 75 - 100
- 101 - 150
- 151 - 250
- > 250

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M-1

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2991 MAP #1

To accompany geochemical report by
E. D. Dodson, P. Eng., on the Bend Group
on the Cummins River in the Golden Mining
Division.

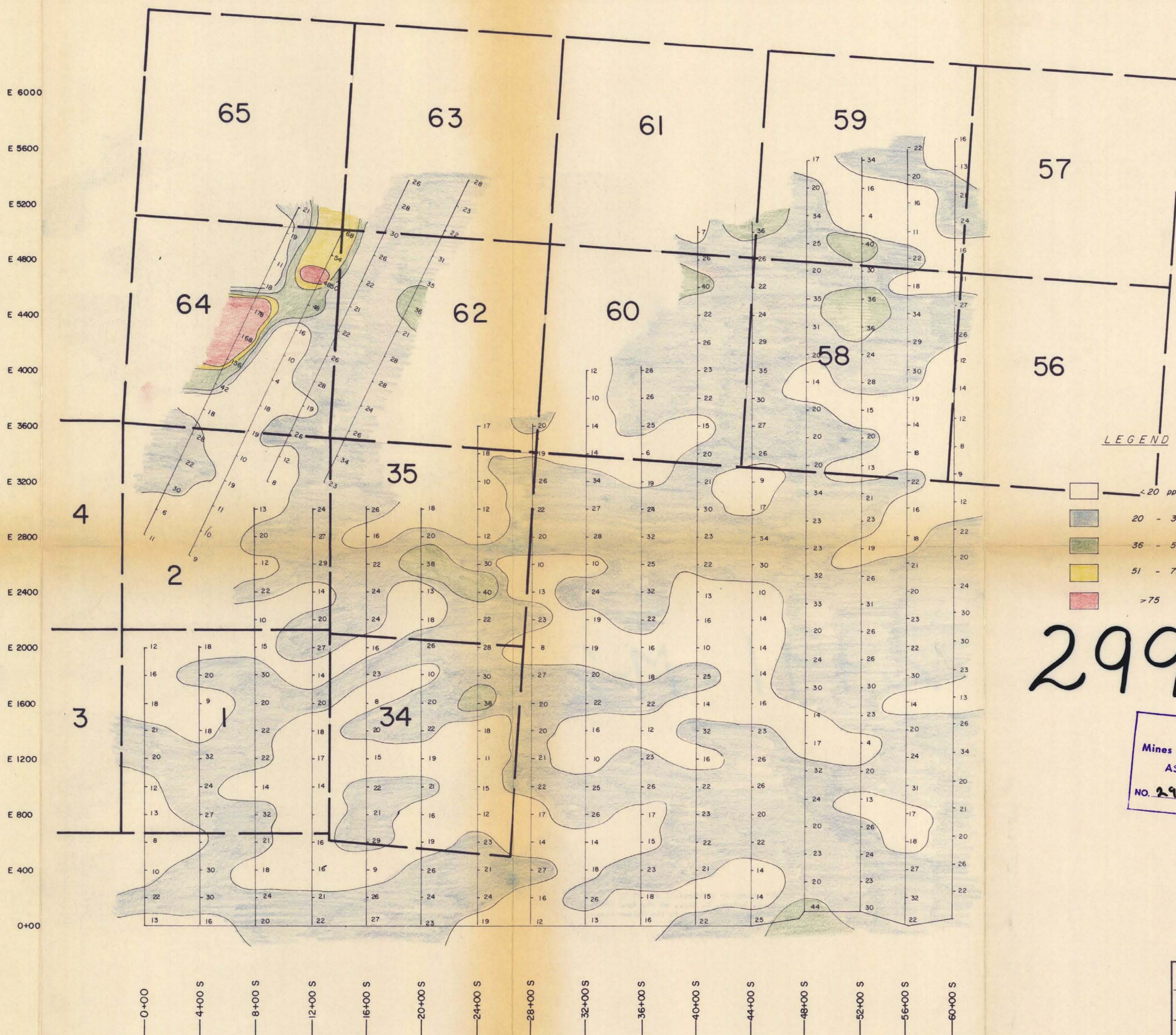
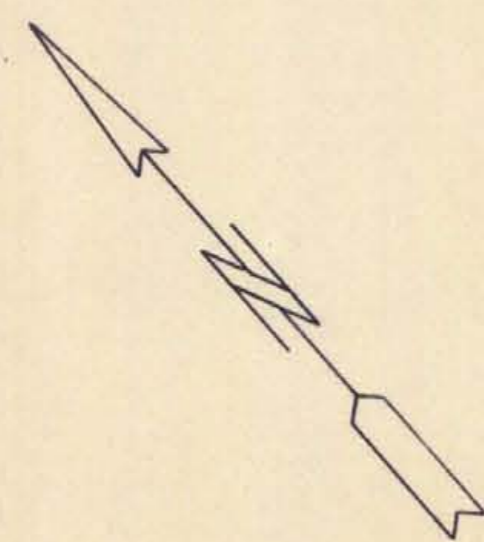
E.D. Dodson

LAURA MINES LTD. (N.P.L.)
MacDONALD CONSULTANTS LIMITED
12 - 425 HOWE ST. VANCOUVER 1, B.C.
GEOCHEMICAL SURVEY
BEND GROUP — SOUTH GRID

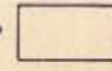


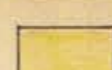

SCALE 1" = 400'
DRAWN JPH
DATE NOV. 1970
NUMBER 228-6-30

ZINC

0+00 4+00 S 8+00 S 12+00 S 16+00 S 20+00 S 24+00 S 28+00 S 32+00 S 36+00 S 40+00 S 44+00 S 48+00 S 52+00 S 56+00 S 60+00 S



LEGEND

-  < 20 ppm Pb
-  20 - 35
-  36 - 50
-  51 - 75
-  > 75

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Department of
Mines and Petroleum Resources
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To accompany geochemical report by
E. D. Dodson, P. Eng., on the Bend Group
on the Cummins River in the Golden Mining
Division.

E.D. Dodson

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

MacDONALD CONSULTANTS LIMITED
12 - 425 HOWE ST. VANCOUVER 1, B.C.

GEOCHEMICAL SURVEY
BEND GROUP — SOUTH GRID

SCALE 1" = 400'
DRAWN JPH
DATE NOV. 1970
NUMBER 228-6-29

LEAD