

MacDONALD CONSULTANTS LTD.

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

2864

921/9w+810

Report

on a

Geochemical Survey  
(June-August 1970)

on the

ED 1-54, 59-64, 66-72, 75-128,  
131-152 Mineral Claims

in the

Lilloet Mining Division, B.C.  
(55°32'N, 22°30'W)

for

E.D. and S. Dodson

by

MacDonald Consultants Ltd.  
E. D. Dodson, P. Eng.

Vancouver, B.C.      February, 1971

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2864 MAP

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## INTRODUCTION

A soil geochemical survey was carried out on the Ed mineral claims on Haylmore Creek, B.C. between June and August, 1970. All work was done under the guidance of the writer, with field supervision provided by Mr. J. P. Henry of MacDonald Consultants Ltd.

## LOCATION AND ACCESS

The Ed claims are located along the valley of Haylmore Creek, which flows northwesterly into the southernmost end of Anderson Lake.

Access to the property area is via paved highway from Vancouver to Pemberton, and secondary road from Pemberton to Darcy at the southern end of Anderson Lake. Local access is provided via logging roads along the valley of Haylmore Creek.

## TOPOGRAPHY, VEGETATION

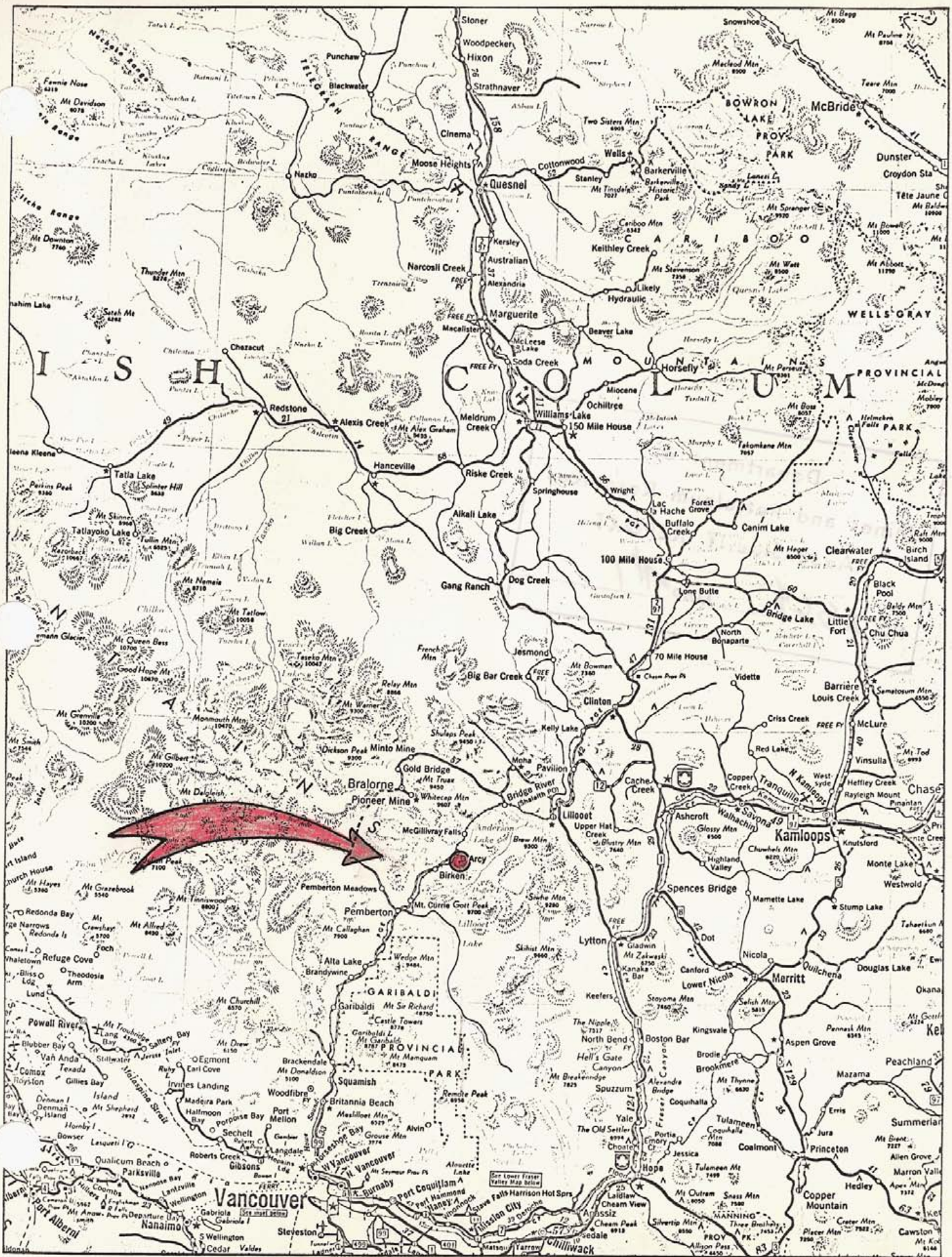
Hillsides in the area are extremely steep on either side of Haylmore Creek, with local precipitous sections. Tributary creeks run in deep narrow canyons into Haylmore Creek.

The area is covered by a heavy forest of hemlock and spruce. Some logging in the area is apparent at lower elevations along the Haylmore Valley.

## PROPERTY

The work described covers mineral claims recorded in the office of the mining recorder in the Lillooet Mining Division, B.C. as follows:





PROPERTY LOCATION MAP



| <u>Claim Name</u> | <u>Record Number</u> | <u>Record Date</u> |
|-------------------|----------------------|--------------------|
| Ed 1-54           | 32915 - 32968        | February 24, 1970  |
| Ed 59-64          | 32969 - 32974        | February 24, 1970  |
| Ed 66-72          | 32975 - 32981        | February 24, 1970  |
| Ed 75 - 86        | 32982 - 32993        | February 24, 1970  |
| Ed 87 - 128       | 33042 - 33083        | March 13, 1970     |
| Ed 131 - 144      | 33084 - 33097        | March 13, 1970     |
| Ed 145 - 152      | 33397 - 33404        | March 13, 1970     |

#### HISTORY

Copper mineralization was discovered in the vicinity of Steep Creek by the writer during the summer of 1969. Claims were subsequently staked to cover possible sources of the mineralization.

There is no indication of previous work on the claims.

#### GENERAL GEOLOGY

Regional government geological maps indicate the claim area to be underlain by a series of late Paleozoic and/or early Mesozoic sediments and volcanics which have been intruded by granitic rocks of chiefly Jurassic age. Early Tertiary intrusives are described as occurring in the immediate area.

#### GEOCHEMICAL SURVEY

Stream sediment sampling together with reconnaissance soil sampling, was conducted over the entire claim area. Detailed sampling was completed

on a line grid established between Limey and Henry Creeks.

Soil samples were gathered each 200 feet along contours from 500 to 1,000 feet apart over most of the claim area. On the line grid, established using chain and compass with stations flagged and numbered every 200 feet, samples were taken at each 200 foot station, along lines spaced 400 feet apart. A total of 995 soil and silt samples were collected. Soil samples were taken with mattocks from the "B" horizon wherever possible. All samples were packed in prenumbered, high wet strength paper bags supplied by the assay office.

All samples were analysed for copper and molybdenum by Bondar-Clegg and Co. Ltd., 1500 Pemberton Avenue, North Vancouver, B.C. The -80 mesh fraction was digested in hot aqua regia and assayed by atomic absorption.

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

Background value for copper on the Ed claims was estimated to lie between 40 and 60 ppm. Values in excess of 80 ppm. might therefore be considered to be significantly anomalous.

Contour soil sampling indicated two areas of anomalous copper content. These are located immediately west of the mouth of Limey Creek on the Ed 2 claim, and a smaller anomaly on the south bank of Haylmore Creek on the Ed 41 and 43 claim.

Grid soil sampling in the vicinity of Steep and Henry Creeks indicated a prominent anomalous area approximately 1,400 feet in width and over 4,000 feet in length which strikes in a northwest direction. This anomaly

is outlined on the Ed 3, 5, 23-26, 50 mineral claims.

On the Ed 49, 53 claim a smaller anomaly is apparent at a point approximately half-way between Henry and Steep Creeks. Another anomalous area was outlined on Henry Creek on the Ed 33 claim approximately 1000 feet by 500 feet in dimension (planar).

Another anomaly occurs on the Ed 38 and 36 claims and on the Ed 25-26 claims.

Background values for molybdenum were in the 0-2 ppm. range. Values in excess of 4 ppm. might therefore be considered to be significantly anomalous.

Contour sampling outlined a small anomaly on the Ed 33 claim on Henry Creek, probably related to seepage in the area and thus considered to be non-significant. Grid sampling showed a small anomaly on the Ed 24 claim, coincident with a copper anomaly outlined in the area.

Several spot high anomalous values are present on the claim which are considered to be non-significant.

Detailed geology and possible suitable geophysical methods are necessary to evaluate the anomalies outlined above.

#### SUMMARY AND CONCLUSIONS

1. Between June and August 1970 a total of 995 soil and silt samples were collected on contour traverses and a line grid of approximately 40.0 miles extent.
2. Two copper anomalous areas were outlined by the contour sampling.

3. Soil sampling on the line grid outlined five copper anomalous areas of varying extent. The main anomaly is located on the Ed 3, 5, 23-24, 50 mineral claims, where a small coincident molybdenum anomaly occurs.
4. Detailed geological mapping and suitable geophysical techniques may be necessary to further determine the nature of the above described geochemical anomalies and their possible significance.

Respectfully submitted,

MACDONALD CONSULTANTS LTD.

A handwritten signature in black ink, appearing to read 'E. D. Dodson', with a long horizontal flourish extending to the right.

E. D. Dodson, P.Eng.

EDD/bd



STATEMENT OF EXPENDITURES

Project 285 - Ed claims

Salaries

|             |                    |
|-------------|--------------------|
| June 1970   | \$ 5,981.25        |
| July 1970   | \$ 9,855.00        |
| August 1970 | <u>\$ 2,535.00</u> |

|              |                    |                    |
|--------------|--------------------|--------------------|
| <b>Total</b> | <b>\$18,371.25</b> | <b>\$18,371.25</b> |
|--------------|--------------------|--------------------|

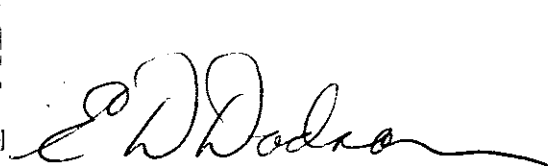
Expenses

|             |                    |
|-------------|--------------------|
| June 1970   | \$ 2,392.52        |
| July 1970   | \$ 2,828.36        |
| August 1970 | <u>\$ 3,815.83</u> |

|              |                    |                           |
|--------------|--------------------|---------------------------|
| <b>Total</b> | <b>\$ 9,036.71</b> | <b><u>\$ 9,036.71</u></b> |
|--------------|--------------------|---------------------------|

\$27,407.96

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *15*  
day of *February*, 1971, A.D.



*S. Jeanette*  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public and for the Province of British Columbia.

SUB-MINING RECORDER

SALARIES - June 1970

|                 |                           |                   |
|-----------------|---------------------------|-------------------|
| J. P. Henry     | 20½ days @ \$80.00/day    | \$1,620.00        |
| E. A. Burnett   | 18 days @ \$55.00/day     | 990.00            |
| Y. Choy         | 9 days @ \$60.00/day      | 540.00            |
| D. Knudsen      | 8 days @ \$37.50/day      | 300.00            |
| B. MacDonald    | 8 days @ \$37.50/day      | 300.00            |
| G. A. MacDonald | 18 days @ \$50.00/day     | 900.00            |
| K. L. Morris    | 6 days @ \$50.00/day      | 300.00            |
| K. R. Ralfs     | 50 5/8 days @ \$50.00/day | 1,031.25          |
|                 | <b>Total</b>              | <b>\$5,981.25</b> |

SALARIES - July 1970

|                |                           |                   |
|----------------|---------------------------|-------------------|
| H. Wober       | 1 1/6 days @ \$150.00/day | \$ 175.00         |
| J. P. Henry    | 31 days @ \$80.00/day     | 2,480.00          |
| E. D. Dodson   | 1 2/3 days @ \$150.00/day | 250.00            |
| D. Knudsen     | 29 days @ \$37.50/day     | 1,087.50          |
| B. MacDonald   | 29 days @ \$37.50/day     | 1,087.50          |
| K. L. Morris   | 29 days @ \$50.00/day     | 1,450.00          |
| K. R. Ralfs    | 29 days @ \$50.00/day     | 1,450.00          |
| D. L. Duncan   | 23 days @ \$37.50/day     | 862.50            |
| R. A. Curiston | 27 days @ \$37.50/day     | 1,012.50          |
|                | <b>Total</b>              | <b>\$9,855.00</b> |

SALARIES - August 1970

|              |                      |                   |
|--------------|----------------------|-------------------|
| E. D. Dodson | 1 day @ \$150.00/day | \$ 150.00         |
| J. P. Henry  | 7 days @ \$80.00/day | 560.00            |
| D. Knudsen   | 7 days @ \$37.50/day | 262.50            |
| B. MacDonald | 7 days @ \$37.50/day | 262.50            |
| K. L. Morris | 7 days @ \$50.00/day | 350.00            |
| K. Ralfs     | 7 days @ \$50.00/day | 350.00            |
| D. Duncan    | 5 days @ \$37.50/day | 187.50            |
| R. Curiston  | 7 days @ \$37.50/day | 262.50            |
| J. Gummeson  | 3 days @ \$50.00/day | 150.00            |
|              | <b>Total</b>         | <b>\$2,535.00</b> |

EXPENSES - June 1970

|  |               |
|--|---------------|
| Brentwood Dodge Rentals                | \$ 104.34     |
| Coe Lumber and Building Supply Limited | 631.18        |
| Beaver Lumber Co. Ltd.                 | 93.08         |
| Jones Tent and Awning Ltd.             | 24.90         |
| Marshall Wells Ltd.                    | 122.52        |
| Vancouver Supply Co. Ltd. (grocery)    | 469.65        |
| J. P. Henry - expenses                 | 10.70         |
| K. Ralfs - expenses                    | 535.17        |
| Western Technical Supply Co. Ltd.      | 156.02        |
| 4 Felt marking pens                    | 3.70          |
| Truck rental - 1 day                   | 15.00         |
| Mileage - 263 miles @ \$0.12           | 31.56         |
| Equipment rental                       | <u>194.70</u> |
| Total                                  | \$2,392.52    |

EXPENSES - July 1970

|                                      |              |
|--------------------------------------|--------------|
| D. L. Duncan - expenses              | \$ 7.50      |
| Jones Esso Service                   | 2.90         |
| H. Wober - expenses                  | 8.85         |
| K. Ralfs - expenses                  | 73.70        |
| Truck Rental - 18 days @ \$15.00/day | 270.00       |
| Mileage - 598 miles @ \$0.12         | 71.76        |
| Truck Rental - 1 month               | 350.00       |
| Hertz Rental                         | 72.03        |
| Camp equipment rental                | 300.00       |
| Truck mileage - 1336 @ \$0.12        | 160.32       |
| Vancouver Supply Co. Ltd. (grocery)  | 572.71       |
| Bondar-Clegg & Co. Ltd. (assayers)   | 910.05       |
| Marshall-Wells Ltd.                  | 15.49        |
| Western Technical Supply Co. Ltd.    | <u>13.05</u> |
| Total                                | \$2,828.36   |

EXPENSES - August 1970

|                                    |                 |
|------------------------------------|-----------------|
| K. Morris - expenses               | \$ 62.56        |
| K. Ralfs - expenses                | 12.65           |
| J. P. Henry - expenses             | 92.96           |
| Petty Cash                         | 17.70           |
| K. Morris - expenses               | 63.12           |
| Star Motors                        | 72.85           |
| Vancouver Supply Co. Ltd.          | 28.43           |
| Equipment Rental                   | 368.01          |
| Bondar-Clegg & Co. Ltd. (assayers) | <u>3,097.55</u> |
| Total                              | \$3,815.83      |

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

January 27, 1971

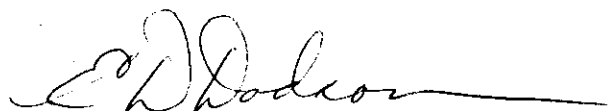
CERTIFICATE

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.

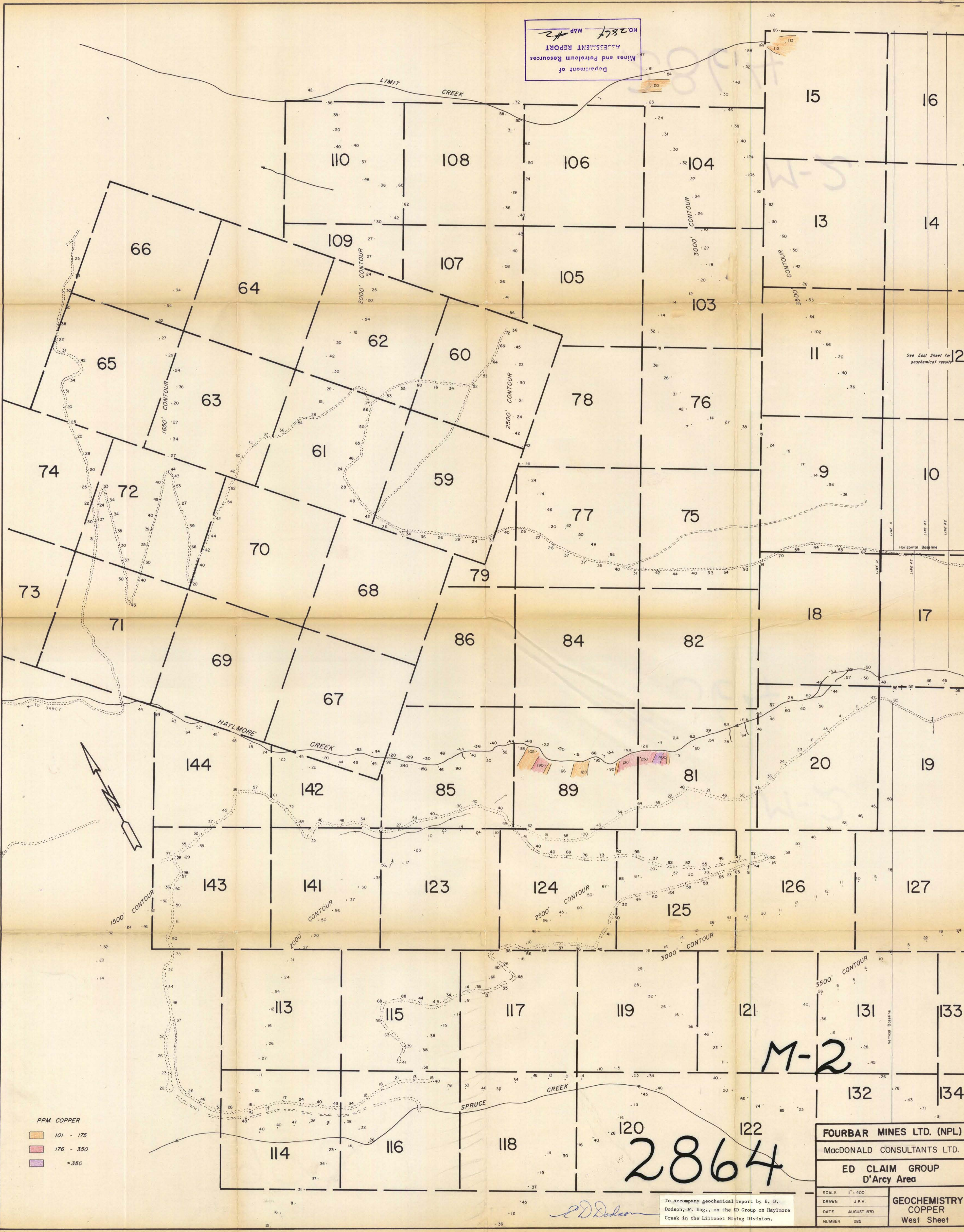


E. D. Dodson, P.Eng.

EDD/bd



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
MAP #2  
NO. 2864



M-2

2864

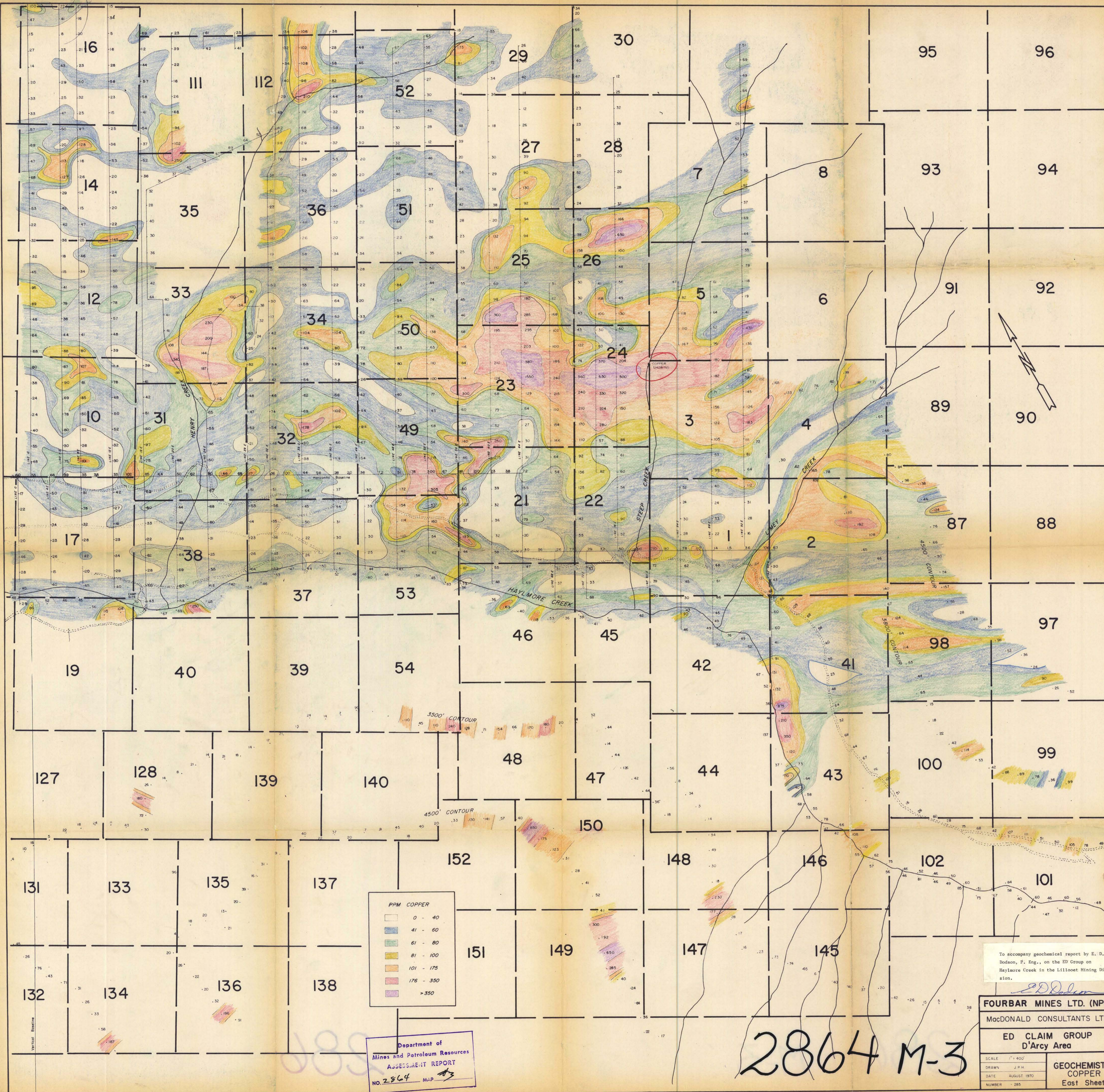
PPM COPPER  
 101 - 175  
 176 - 350  
 > 350

*E.D. Dodson*

To accompany geochemical report by E. D. Dodson, P. Eng., on the ED Group on Haylmore Creek in the Lillooet Mining Division.

|                               |                                      |
|-------------------------------|--------------------------------------|
| FOURBAR MINES LTD. (NPL)      |                                      |
| MacDONALD CONSULTANTS LTD.    |                                      |
| ED CLAIM GROUP<br>D'Arcy Area |                                      |
| SCALE 1" = 400'               | GEOCHEMISTRY<br>COPPER<br>West Sheet |
| DRAWN J.P.H.                  |                                      |
| DATE AUGUST 1970              |                                      |
| NUMBER 285                    |                                      |





| PPM COPPER |           |
|------------|-----------|
| Light Blue | 0 - 40    |
| Blue       | 41 - 60   |
| Green      | 61 - 80   |
| Yellow     | 81 - 100  |
| Orange     | 101 - 175 |
| Red        | 176 - 350 |
| Purple     | > 350     |

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2864 M.P. #3

To accompany geochemical report by E. D. Dodson, F. Eng., on the ED Group on Haymore Creek in the Lillooet Mining Division.

*E.D. Dodson*

FOURBAR MINES LTD. (NPL)  
MacDONALD CONSULTANTS LTD.

ED CLAIM GROUP  
D'Arcy Area

SCALE 1" = 400'  
DRAWN J.P.H.  
DATE AUGUST 1970  
NUMBER 285

GEOCHEMISTRY  
COPPER  
East Sheet

2864 M-3





| MOLYBDENUM PPM. |       |
|-----------------|-------|
| □               | 0 - 2 |
| ■               | 3 - 4 |
| ■               | 5 - 6 |
| ■               | 7 - 8 |
| ■               | 9 -   |

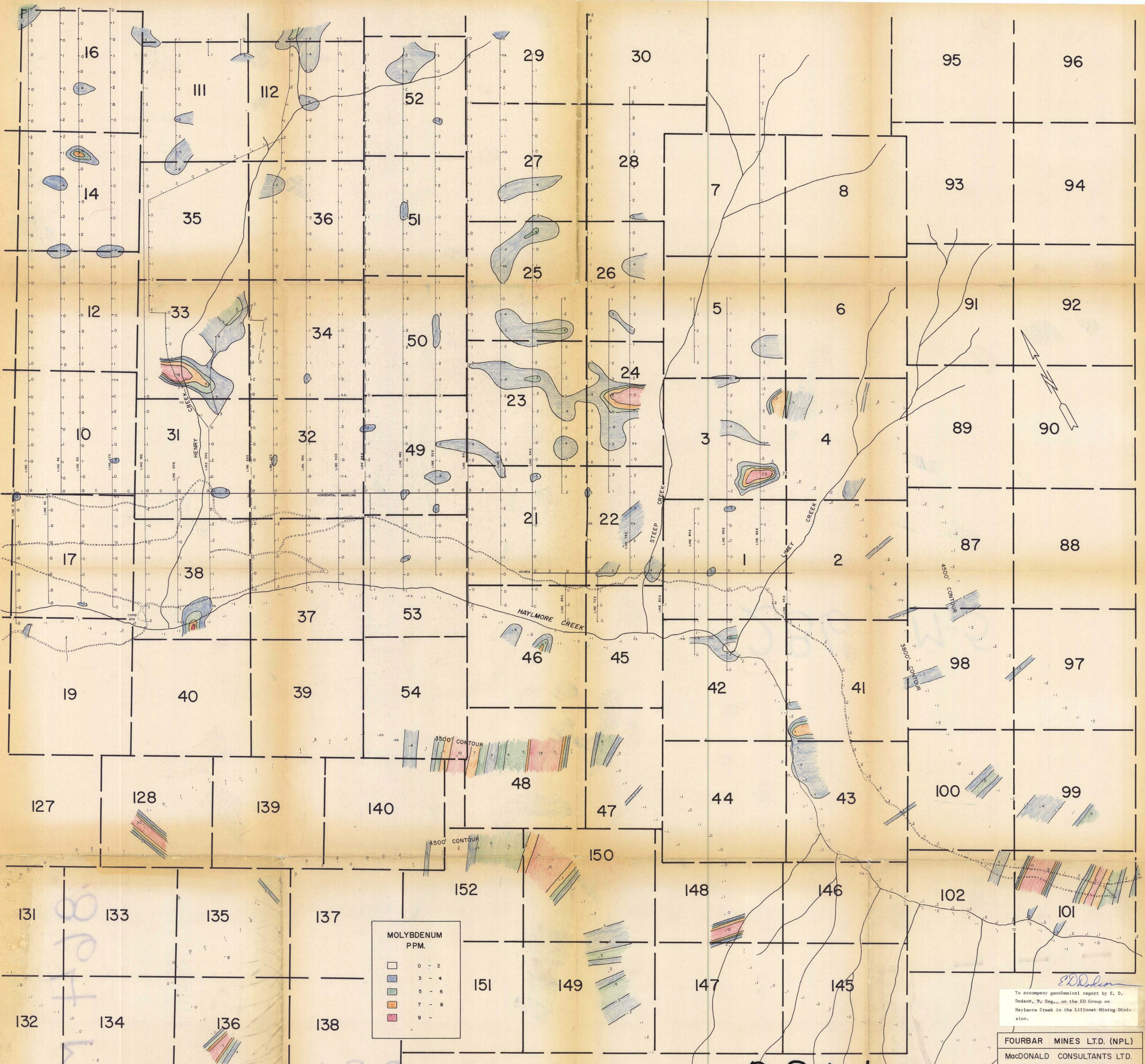
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2864 MAP #4

To accompany geochemical report by  
E. D. Dodson, P. Eng., on the ED  
Group on Haymore Creek in the  
Lillooet Mining Division.

|                               |  |
|-------------------------------|--|
| FOURBAR MINES LTD. (NPL.)     |  |
| MacDONALD CONSULTANTS LTD.    |  |
| ED CLAIM GROUP<br>D'Arcy Area |  |
| SCALE 1" = 400'               | GEOCHEMISTRY<br>MOLYBDENUM<br>WEST SHEET |
| DRAWN E.D.                    |  |
| DATE JANUARY 1971             |  |
| NUMBER 285-                   |  |

*E. D. Dodson*





| MOLYBDENUM PPM.  |       |
|------------------|-------|
| [White Box]      | 0 - 2 |
| [Light Blue Box] | 3 - 4 |
| [Green Box]      | 5 - 6 |
| [Orange Box]     | 7 - 8 |
| [Red Box]        | 9 -   |

To accompany geochemical report by E. D. Dodson, P. Eng., on the ED Group on Haymore Creek in the Lillooet Mining Division.

FOURBAR MINES LTD. (NPL)  
MacDONALD CONSULTANTS LTD.

ED CLAIM GROUP  
D'ARCY AREA

SCALE 1" = 400'  
DRAWN eb  
DATE JANUARY 1971  
NUMBER 285

GEOCHEMISTRY  
MOLYBDENUM  
EAST SHEET

Department of  
Mines and Petroleum Resources  
ACCESSIBILITY REPORT  
NO. 2864 MAP 915

2864 M-5