

85-987-14585  
12/86

GEOCHEMICAL REPORT

on the

BEER 1 MINERAL CLAIM  
KNUTSFORD, B.C.  
KAMLOOPS MINING DIVISION  
Lat. 56° 36'-W Long. 120° 16'-W  
NTS 921/9W

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

for

**14,585**

WHOPPER HOLDINGS LTD.  
Owner

FILMED

by

JAY D. MURPHY, P. Eng.  
Consulting Geological Engineer  
1985-12-11

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## ADDENDA

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## INTRODUCTION

The Beer 1 Mineral Claim (6 units) is situated approximately 5 km east-southeast of the village of Knutsford on Highway 5 and 9 km southeast of downtown Kamloops. Access from Kamloops is by Trans-Canada Highway west to the Highway 5 junction, south on this route 4 km to Knutsford, then southeast 1.8 km to a secondary gravel road leading east 4 km to the Beer 1 Claim located 1.5 km south of Kamloops city limits.

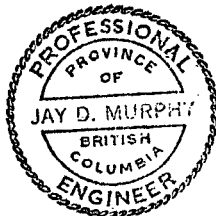
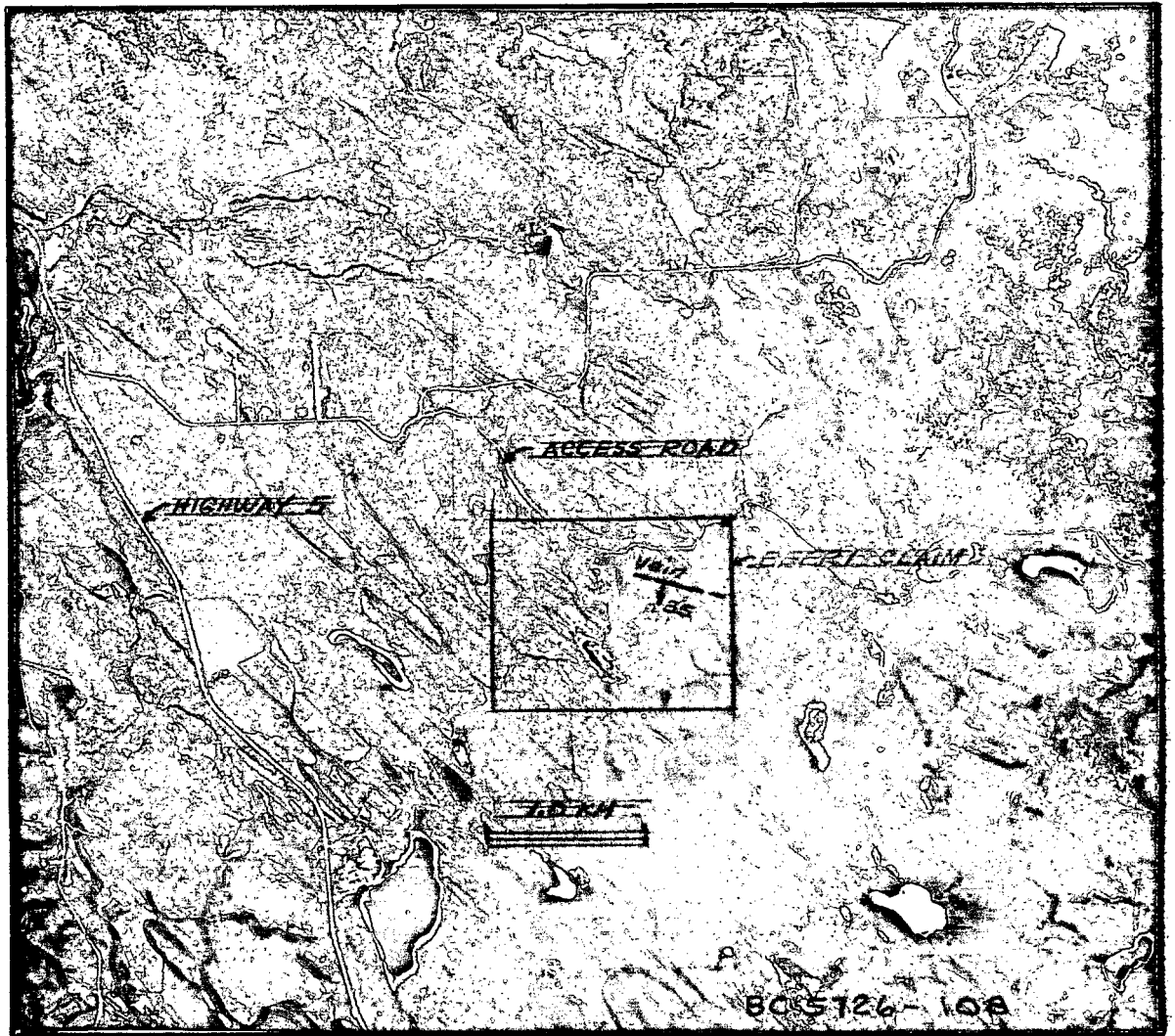
The property lies in gently rolling open terrain, typical of the interior plateau, at an elevation of about 945 m. Relief is low and within the Beer 1 claim does not exceed 60 m. Local drainage is poorly developed. An unnamed stream flows southwest toward Separation Lake, ending at a series of small, swampy, alkaline ponds not connected with the lake. Cattle ranching is the principal industry in the area and the subject claim appears to be used for pasturage only.

Rock exposures are rare although overburden cover is estimated to average less than a metre in thickness.

Geologically, the Beer 1 claim is located in a relatively narrow (5-6 km) band of north trending metasedimentary Cache Creek Group rocks of Mississippian to Permian age. This metasedimentary unit is bounded on the west by intrusive rocks of the Iron Mask Batholith, and on the east by the Wildhorse Mountain Batholith, both Upper Triassic in age. The mineral showing consists of a flat lying quartz-carbonate vein up to a metre wide carrying pyrite, arsenopyrite and chalcopyrite as exposed in a shallow pit. No other exposures of this structure were seen.

Previous work history of the subject claim is unknown, but probably goes back to the early 1930's at least, and little or no work has been done since that time. A vertical pit about 6 m in depth has been sunk through the near surface portion of the vein as illustrated by Appendix 2. Current owners report gold assays to 27 g/t from vein exposures in this pit.

Current work, constituting the subject of this report, consisted of one line of soil geochemistry 200 m long, centred on the surface outcrop of the vein. This was done for orientation purposes to determine (a) whether soil geochemistry would be effective in locating the gold bearing structure under overburden cover and (b) which elements would provide the best results at lowest cost. Results are tabulated in Appendix 1 and shown in graphic form in Appendix 2. The ultimate objective of this work was to find an effective method of tracing the known gold bearing structure through overburden and locate similar structures still undiscovered.



|                              |         |          |
|------------------------------|---------|----------|
| PLATE NO. 1                  |         |          |
| BEER-T CLAIM-KNUTSFORD, B.C. |         |          |
| KAMLOOPS M.D. 921/9W         |         |          |
| LOCATION MAP                 |         |          |
| JDM                          | 1246500 | 85-12-12 |

### SUMMARY & CONCLUSIONS

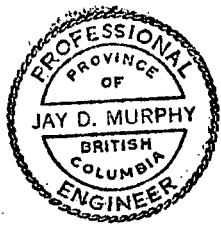
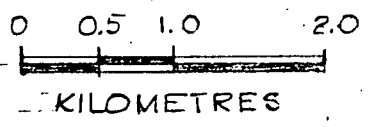
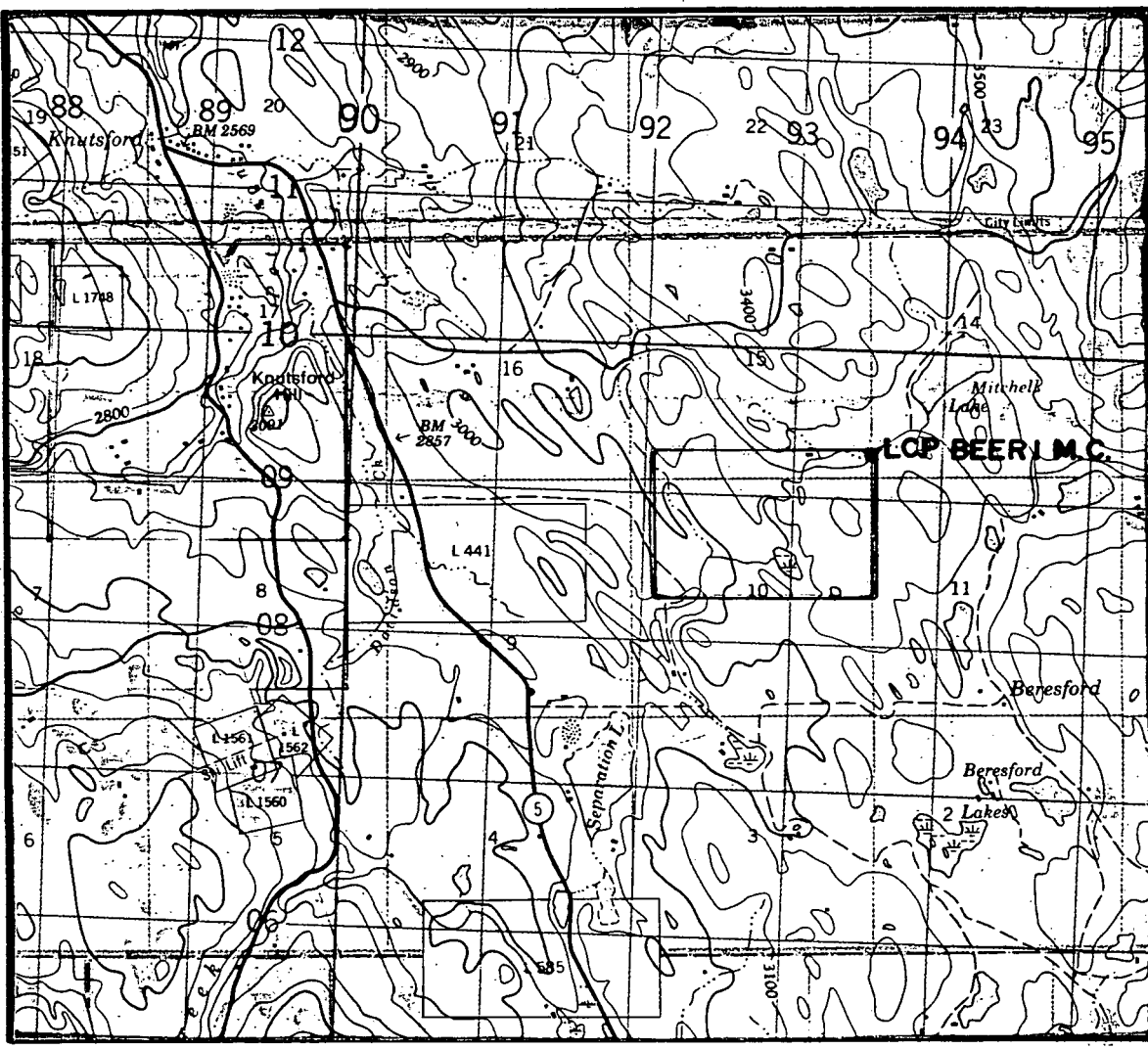
The Beer 1 mineral claim contains one proven gold bearing vein structure striking N-75-W and dipping 35° southwest.

The best correlation between soil geochemistry and vein location is found with the elements gold, silver and arsenic. The remaining elements analysed either show no relationship with gold mineralisation or values are too erratic to be used with any degree of confidence.

Results suggest, but do not confirm, the presence of a second gold bearing structure near station 98+85-N on the orientation survey line.

### RECOMMENDATIONS

1. Extend the orientation survey line south at least 45 m, taking samples at 15 m intervals. Take two additional samples between stations 99+00-N and 99+50-N. Assay all samples for gold, silver and arsenic.
2. Taking account of results from the foregoing recommendation, layout a sample grid having baseline coincident with the known vein structure at N-75-W and cross lines perpendicular to this direction to adequately cover the area of interest. Sample lines should be spaced at no more than 50 m and sample intervals should not exceed 15 m. Analyse samples for arsenic and silver only.



|  |         |          |
|--|---------|----------|
| PLATE NO. 2                                      |         |          |
| BEER I CLAIM KNUTSFORD BC.<br>KAMLOOPS MD 021/9W |         |          |
| CLAIM MAP  |         |          |
| JDM.   | 1:50000 | 65-12-12 |

Cost Estimates

Assuming the survey area is approximately 300 m by 1000 m the costs are estimated as follows:

Grid Preparation

|                         |                 |           |
|-------------------------|-----------------|-----------|
| 1.0 km baseline @ \$75  | \$ 75.00        |           |
| 6.3 km crossline @ \$50 | 315.00          |           |
| Total Grid Preparation  | <u>\$390.00</u> | \$ 390.00 |

Sample Collection

|                   |  |          |
|-------------------|--|----------|
| 441 samples @ \$5 |  | 2,205.00 |
|-------------------|--|----------|

Geochemical Analysis

|                                 |                   |                 |
|---------------------------------|-------------------|-----------------|
| 441 sample preparations @ \$.70 | \$ 308.70         |                 |
| 441 arsenic analysis @ \$3.25   | 1,433.25          |                 |
| 441 silver analysis @ \$1.90    | 837.90            |                 |
| Total Geochemical Analysis      | <u>\$2,579.85</u> | <u>2,579.85</u> |

|                   |                   |
|-------------------|-------------------|
| Sub-Total         | \$5,174.85        |
| 15% Contingencies | 776.23            |
| TOTAL COSTS       | <u>\$5,951.08</u> |
| Say               | <u>\$6,000.00</u> |

FIELD PROCEDURES

The sub outcrop of the gold bearing quartz vein was located in the pit area and used as a start point for soil sampling. Vein strike and sample line orientation were determined by compass. Sample stations relative to the vein were determined by hip chain measurements. Station elevations were determined by altimeter. Sample intervals were restricted to 10 to 15 m adjacent to the vein, increasing to 50 m away from the vein in areas considered to contain only background values.

A mattock was used to collect sample material from the B soil horizon. Approximately 20 grams of this material was collected from each sample site and placed in a Kraft paper bag for shipment to the analytical laboratory. Sample locations were marked with a stake and ribbon for future reference.

The B zone sampled was found to consist of loose, sandy brown material containing rock fragments and frequently forming a 15 to 20 cm layer on bedrock. The B horizon is overlain by up to 40 cm of black, dense A zone material.

#### ANALYTICAL PROCEDURES

Samples were analysed by Barringer Magenta Ltd., Calgary, according to their "Goldprint II" service that employs the Inductively Coupled Argon Plasma method to quantitatively analyse each sample for 15 elements commonly associated with gold mineralisation.

#### DISCUSSION OF RESULTS

Referring to Appendix 1 it is noted that two elements, molybdenum and cadmium occur in barely detectable amounts that provide no useful information in locating gold mineralisation. Consequently, these elements have not been plotted in Appendix 2.

Three elements, gold, silver and arsenic, provide the best correlation with known gold mineralisation and the greatest contrast of anomalous with background values.

Cobalt, nickel, copper, chromium, vanadium and zinc show no definite contrast between mineralised and unmineralised zones. Lead and antimony show some contrast in values but the highs are not specifically associated with gold mineralisation. Iron and manganese exhibit very similar profiles, indicating a nearly fixed ratio between quantities of the two elements, but there is no discernible contrast between mineralised and unmineralised zones.



Appendix 2 indicates the possibility of a second gold structure in the vicinity of sample station 98+85-N. Silver and arsenic values are definitely anomalous. Gold content is only background or slightly greater. Lead and antimony values are also extremely high relative to the other eight samples. The significance of this pattern is not clear, but the presence of gold mineralisation is indicated based on the silver-arsenic values alone.

Approximate width of the anomalous zone defined by gold, silver and arsenic values is 35 m. This indicates that a sample interval of 15 m would be appropriate in future geochemical work, ensuring that at least two anomalous values per line would be obtained from each zone of significant gold mineralisation.

STATEMENT OF COSTS

Fieldwork on the Beer 1 claim was carried out on 1985-10-07 by J.D. Murphy, P. Eng. Drafting and reporting was completed between 85-12-10 and 85-12-16.

Labour

|   |                 |          |
|---|-----------------|----------|
| .5 days surface examination and soil sampling @ \$250/day | \$125.00        |          |
| 16.25 hrs. drafting and reporting @ \$31.25/hr.           | 507.81          |          |
| Total Labour  | <u>\$632.81</u> | \$632.81 |

Transportation

|                                 |                 |       |
|---------------------------------|-----------------|-------|
| .5 days 4 X 4 rental @ \$25/day | \$ 12.50        |       |
| 50 km @ \$.25/km                | 12.50           |       |
| Total Transportation            | <u>\$ 25.00</u> | 25.00 |

Assaying

|   |                 |        |
|---|-----------------|--------|
| 9 multi element Goldprint II analysis @ \$28.50 | \$202.50        |        |
| 9 sample preparations @ \$.85                   | 7.65            |        |
| Sub-Total                                       | <u>\$210.15</u> |        |
| 15% Surcharge                                   | 31.50           |        |
| Total Assaying                                  | <u>\$241.67</u> | 241.67 |

Report Preparation

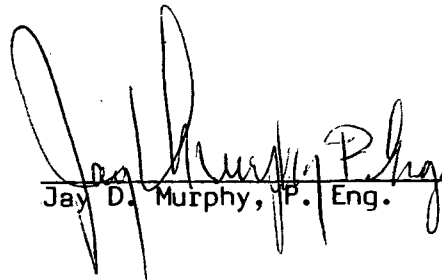
|                          |                 |       |
|--------------------------|-----------------|-------|
| Typing                   | \$ 30.00        |       |
| Photocopies              | 10.60           |       |
| Total Report Preparation | <u>\$ 40.60</u> | 40.60 |

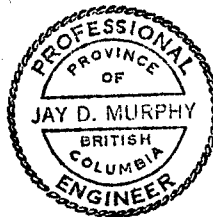
TOTAL COSTS . . . . . \$940.08

STATEMENT OF QUALIFICATIONS

I, Jay D. Murphy, hereby certify:

1. That I am a Consulting Geological Engineer, resident at 1335 Todd Road, Kamloops, B.C.
2. That I am a graduate from the University of Manitoba (1954) with a B.Sc. in Geological Engineering.
3. That I have practiced my profession continuously since graduation.
4. That I am a member of the Association of Professional Engineers of British Columbia and Ontario.
5. That the information contained in this report is based on a personal examination of the subject property.
6. That I have no financial interest in the subject property or Whopper Holdings Ltd.

  
Jay D. Murphy, P. Eng.





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CALGARY, ALBERTA  
T2E 6K3  
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15-NOV-85  
PAGE: 1 OF 4  
COPY: 1 OF 2

AUTHORITY: J.D. MURPHY

MR. JAY D. MURPHY,  
1335 TODD ROAD,  
KAMLOOPS, B.C. V2C 5B4

WORK ORDER: 82581-85

\*\*\* FINAL REPORT \*\*\*

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

| S A M P L E N U M B E R | FIRE ASSAY |           | FIRE ASSAY |           |
|-------------------------|------------|-----------|------------|-----------|
|                         | AU<br>PPB  | AG<br>PPM | AS<br>PPM  | CD<br>PPM |
| 98+85 N                 | 26.0       | 0.32      | 192.0      | <1.0      |
| 99+50 N                 | <2.0       | 0.08      | 9.0        | <1.0      |
| 99+75 N                 | 8.0        | 0.03      | 38.0       | <1.0      |
| 99+85 N                 | 76.0       | 0.18      | 182.0      | <1.0      |
| 100+00 N                | 46.0       | 0.18      | 84.0       | <1.0      |
| 100+10 N                | 74.0       | 0.22      | 84.0       | <1.0      |
| 100+20 N                | 42.0       | 0.06      | 78.0       | <1.0      |
| 100+50 N                | 34.0       | 0.03      | 19.0       | <1.0      |
| 101+00 N                | 10.0       | 0.02      | 42.0       | <1.0      |


**BARRINGER MAGENTA**  
*Laboratories (Alberta) Ltd.*

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WORK ORDER: 62580-85

\*\*\* FINAL REPORT \*\*\*

**GEOCHEMICAL LABORATORY REPORT**

SAMPLE TYPE: SOIL

| SAMPLE NUMBER | CR<br>PPM | CU<br>PPM | FE<br>% | MN<br>PPM |
|---------------|-----------|-----------|---------|-----------|
| 98+85 N       | 40.0      | 66.0      | 6.08    | 1965.0    |
| 99+50 N       | 71.0      | 47.0      | 4.19    | 1175.0    |
| 99+75 N       | 71.0      | 48.0      | 4.85    | 1295.0    |
| 99+85 N       | 64.0      | 54.0      | 4.43    | 1385.0    |
| 100+00 N      | 85.0      | 58.0      | 4.93    | 1385.0    |
| 100+10 N      | 70.0      | 65.0      | 5.2     | 1530.0    |
| 100+20 N      | 63.0      | 57.0      | 5.09    | 1360.0    |
| 100+50 N      | 55.0      | 61.0      | 5.48    | 1550.0    |
| 101+00 N      | 62.0      | 50.0      | 4.04    | 1315.0    |



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AUTHORITY: J.D. MURPHY

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1335 IODD ROAD,  
KAMLOOPS, B.C. V2C 5B4

WORK ORDER: 8258D-85

\*\*\* FINAL REPORT \*\*\*

**GEOCHEMICAL LABORATORY REPORT**

SAMPLE TYPE: SOIL

| SAMPLE NUMBER | MO<br>PPM | NI<br>PPM | PB<br>PPM | SE<br>PPM |
|---------------|-----------|-----------|-----------|-----------|
| 98+85 N       | <1.0      | 26.0      | 13.0      | 5.8       |
| 99+50 N       | <1.0      | 36.0      | 3.0       | 1.2       |
| 99+75 N       | <1.0      | 42.0      | 7.0       | 0.7       |
| 99+85 N       | <1.0      | 37.0      | 9.0       | 1.8       |
| 100+00 N      | <1.0      | 50.0      | 8.0       | 1.5       |
| 100+10 N      | <1.0      | 38.0      | 6.0       | 3.1       |
| 100+20 N      | <1.0      | 46.0      | 2.0       | 2.5       |
| 100+50 N      | <1.0      | 37.0      | 2.0       | 3.0       |
| 101+00 N      | <1.0      | 33.0      | 6.0       | 1.2       |



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AUTHORITY: J.D. MURPHY

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WORK ORDER: 8258D-85

\*\*\* FINAL REPORT \*\*\*

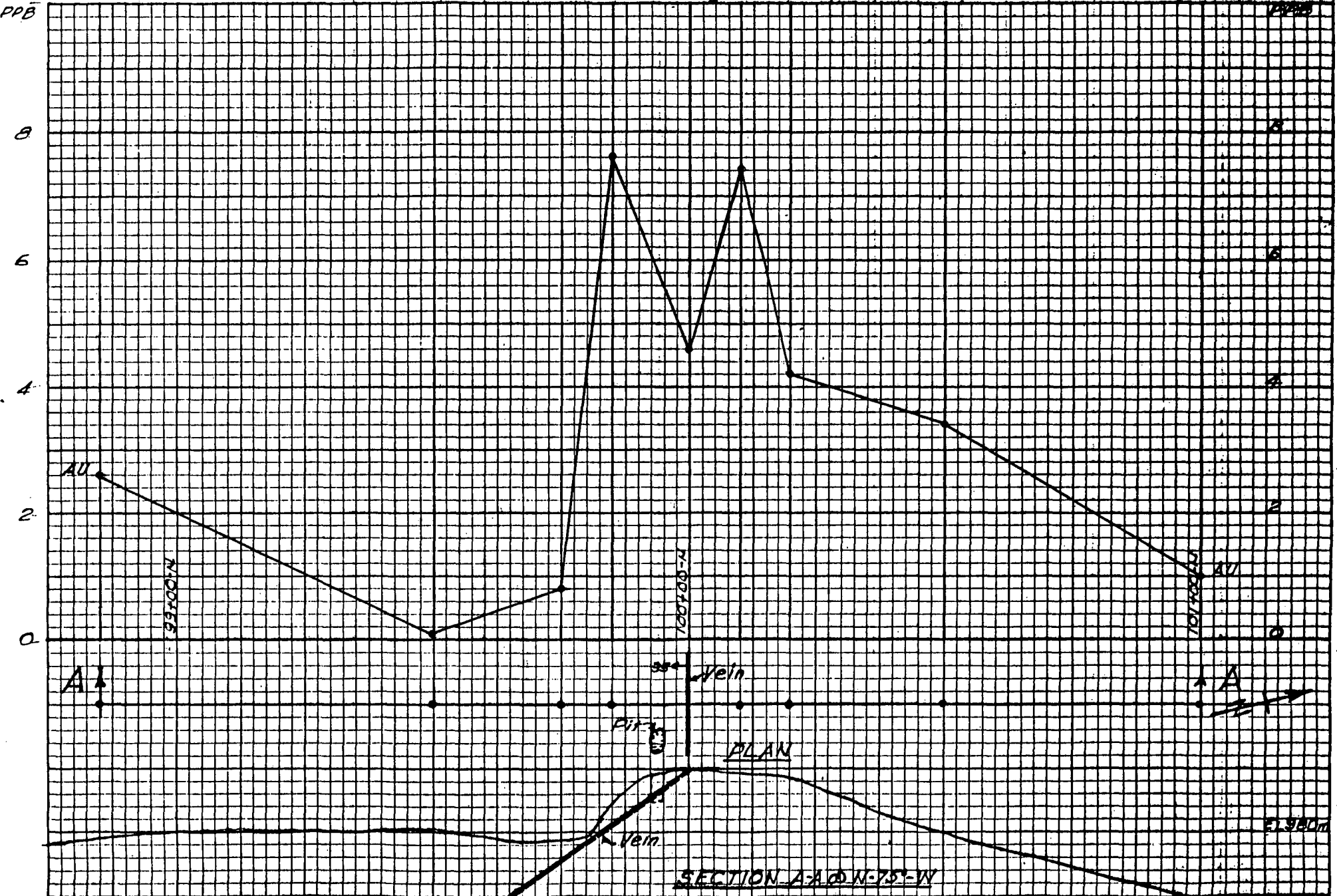
**GEOCHEMICAL LABORATORY REPORT**

SAMPLE TYPE: SOIL

| SAMPLE NUMBER | V<br>PPM | ZN<br>PPM | CO<br>PPM |
|---------------|----------|-----------|-----------|
| 98+85 N       | 103.0    | 116.0     | 20.0      |
| 99+50 N       | 64.0     | 80.0      | 16.0      |
| 99+75 N       | 83.0     | 94.0      | 18.0      |
| 99+85 N       | 53.0     | 90.0      | 16.0      |
| 100+00 N      | 89.0     | 84.0      | 19.0      |
| 100+10 N      | 90.0     | 90.0      | 20.0      |
| 100+20 N      | 103.0    | 80.0      | 18.0      |
| 100+50 N      | 98.0     | 93.0      | 18.0      |
| 101+00 N      | 72.0     | 84.0      | 15.0      |

SIGNED: C. Douglas Read  
C. Douglas Read,  
LABORATORY MANAGER

FOOTNOTES:  
P=QUESTIONABLE PRECISION; \* = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;  
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE







PPM

PPM

200

150

100

50

0

200

150

100

50

0

