



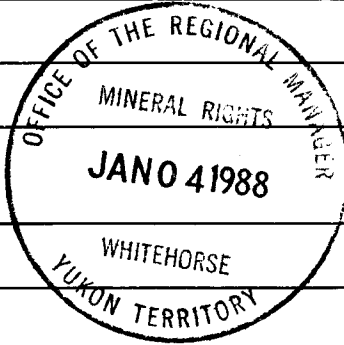


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|------------------------------------|
| M.R. file no.                      |
| R.M.M.R. file no.                  |
| Date forwarded<br><i>29 Dec 87</i> |

### TRANSMITTAL FORM

From Mining Recorder at: *WATSON LAKE*

To Regional Manager, Mineral Rights at Whitehorse, Y.T.



For action are:

|                                                                                   |                                            |                                                   |
|-----------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT             | Name                                       |                                                   |
| <input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT             | Name                                       | Lease no.                                         |
| <input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE                 | Name                                       | Lease no.                                         |
| <input type="checkbox"/> SECURITY DEPOSIT                                         |                                            |                                                   |
| <input type="checkbox"/> FINANCIAL ABILITY                                        |                                            |                                                   |
| <input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.                           | From                                       | To                                                |
| <input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. | Owner                                      |                                                   |
| <input type="checkbox"/> DIAMOND DRILL LOGS                                       | Claims                                     | Claim sheet no.                                   |
| <input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT                      | Claims<br><i>BEA, CAR, CMC, SAB, SH</i>    | Claim sheet no.<br><i>105-B-7/1/2</i>             |
|                                                                                   | Type of report<br><i>EVALUATION SURVEY</i> | Submitted by<br><i>SILVER HART MINES LTD.</i>     |
|                                                                                   | Cls. work performed on<br><i>as above.</i> | \$ req. for ren. application<br><i>100,500.00</i> |

*[Signature]*  
Signature

REPLY ACTION **091992** Date returned *8 Jan. 87*

*Have requested a new cost statement from Silver Hart as the amount allowable is short by \$ 10 320.75.*

*[Signature]*  
Signature



This report has been prepared for the  
 SILVERHART MINES LIMITED  
 HART SILVER PROPERTY, YUKON TERRITORY  
 EVALUATION SURVEY, BEA, CAR, CMC (part) CLAIMS  
 ASSESSMENT REPORT  
 PAUL RAMAEKERS 2 OCTOBER, 1987  
 representation work in the amount  
 of \$ \_\_\_\_\_

Regional Manager, Exploration and  
 Geological Services for Commissioner  
 of Yukon Territory.  
 09 1992

Paul Ramaekers, Ph.D.

October 29, 1987

*Paul Ramaekers*



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) of the Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 99 200.00.

*P.J. Brennan*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

*for*

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1

RENEWAL DATES OF CAR CLAIMS AND REQUESTED RENEWALS

| Name                                               | No. of Claims | Record No.        | Date Recorded  | Renewal Date   | Size (Acres) | Claim Sheet | Reg. Owner |
|----------------------------------------------------|---------------|-------------------|----------------|----------------|--------------|-------------|------------|
| <u>ALLOWED TO LAPSE GOOD TO SEPTEMBER 15, 1987</u> |               |                   |                |                |              |             |            |
| CAR 720-721                                        | 2             | YA98464 - YA98465 | SEPT. 15, 1986 | SEPT. 15, 1987 | 103.30       | 105 B-7     | SHM        |
| CAR 738-739                                        | 2             | YA98482 - YA98483 | -              | -              | 103.30       | 105 B-7     | SHM        |
| CAR 756-757                                        | 2             | YA98500 - YA98501 | -              | -              | 103.30       | 105 B-7     | SHM        |
| <u>ALLOWED TO LAPSE GOOD TO SEPTEMBER 19, 1987</u> |               |                   |                |                |              |             |            |
| CAR 359-367                                        | 9             | YA98761 - YA98769 | SEPT. 19, 1986 | SEPT. 19, 1987 | 464.85       | 105 B-7     | SHM        |
| CAR 395-407                                        | 13            | YA98797 - YA98809 | -              | -              | 671.45       | 105 B-7     | SHM        |
| CAR 430-447                                        | 18            | YA98832 - YA98849 | -              | -              | 929.70       | 105 B-7     | SHM        |
| CAR 468-577                                        | 110           | YA98870 - YA98979 | -              | -              | 5681.50      | 105 B-7     | SHM        |
| CAR 584-595                                        | 12            | YA98986 - YA98997 | -              | -              | 619.80       | 105 B-7     | SHM        |
| CAR 602                                            | 1             | YA99004           | -              | -              | 51.65        | 105 B-7     | SHM        |
| CAR 604-613                                        | 10            | YA99006 - YA99015 | -              | -              | 516.50       | 105 B-7     | SHM        |
| CAR 622-631                                        | 10            | YA99024 - YA99033 | -              | -              | 516.50       | 105 B-7     | SHM        |
| CAR 642                                            | 1             | YA99044           | -              | -              | 51.65        | 105 B-7     | SHM        |
| CAR 644-649                                        | 6             | YA99046 - YA99051 | -              | -              | 309.90       | 105 B-7     | SHM        |
| CAR 664-667                                        | 4             | YA99066 - YA99069 | -              | -              | 206.60       | 105 B-7     | SHM        |
| CAR 682                                            | 1             | YA99084           | -              | -              | 51.65        | 105 B-7     | SHM        |
| CAR 684-685                                        | 2             | YA99086 - YA99087 | -              | -              | 103.30       | 105 B-7     | SHM        |
| CAR 702-703                                        | 2             | YA99104 - YA99105 | -              | -              | 103.30       | 105 B-7     | SHM        |
| CAR 773-775                                        | 3             | YA99121 - YA99123 | -              | -              | 154.95       | 105 B-7     | SHM        |
| CAR 790-793                                        | 4             | YA99138 - YA99141 | -              | -              | 206.60       | 105 B-7     | SHM        |
| CAR 806                                            | 1             | YA99154           | -              | -              | 51.65        | 105 B-7     | SHM        |
| CAR 808                                            | 1             | YA99156           | -              | -              | 51.65        | 105 B-7     | SHM        |
| CAR 810                                            | 1             | YA99158           | -              | -              | 51.65        | 105 B-7     | SHM        |

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RENEWAL REQUESTED FOR ONE YEAR FOR THE FOLLOWING 483 CLAIMS

| Name                       | No. of<br>Claims | Record No.        | Date Recorded  | Renewal Date   | Size<br>(Acres) | Claim Sheet | Reg.<br>Owner |
|----------------------------|------------------|-------------------|----------------|----------------|-----------------|-------------|---------------|
| GOOD TO SEPTEMBER 15, 1988 |                  |                   |                |                |                 |             |               |
| CAR 704-719                | 16               | YA98448 - YA98463 | SEPT. 15, 1986 | SEPT. 15, 1988 | 826.40          | 105 B-7     | SHM           |
| CAR 722-737                | 16               | YA98466 - YA98481 | -              | -              | 826.40          | 105 B-7     | SHM           |
| CAR 740-755                | 16               | YA98484 - YA98499 | -              | -              | 826.40          | 105 B-7     | SHM           |
| CAR 872-979                | 108              | YA98502 - YA98609 | -              | -              | 5578.20         | 105 B-7/8   | SHM           |
| GOOD TO SEPTEMBER 19, 1988 |                  |                   |                |                |                 |             |               |
| CAR 328-358                | 31               | YA98730 - YA98760 | SEPT. 19, 1986 | SEPT. 19, 1988 | 1601.15         | 105 B-7     | SHM           |
| CAR 368-394                | 27               | YA98770 - YA98796 | -              | -              | 1394.55         | 105 B-7     | SHM           |
| CAR 408                    | 1                | YA98810           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 410                    | 1                | YA98812           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 412                    | 1                | YA98814           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 414-429                | 16               | YA98816 - YA98831 | -              | -              | 826.40          | 105 B-7     | SHM           |
| CAR 449                    | 1                | YA98851           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 451-467                | 17               | YA98853 - YA98869 | -              | -              | 878.05          | 105 B-7     | SHM           |
| CAR 578-583                | 6                | YA98980 - YA98985 | -              | -              | 309.90          | 105 B-7     | SHM           |
| CAR 596-601                | 6                | YA98998 - YA99003 | -              | -              | 309.90          | 105 B-7     | SHM           |
| CAR 603                    | 1                | YA99005           | SEPT. 19, 1986 | SEPT. 19, 1988 | 51.65           | 105 B-7     | SHM           |
| CAR 614-621                | 8                | YA99016 - YA99023 | -              | -              | 413.20          | 105 B-7     | SHM           |
| CAR 632-641                | 10               | YA99034 - YA99043 | -              | -              | 516.50          | 105 B-7     | SHM           |
| CAR 643                    | 1                | YA99045           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 650-663                | 14               | YA99052 - YA99065 | -              | -              | 723.10          | 105 B-7     | SHM           |
| CAR 668-681                | 14               | YA99070 - YA99083 | -              | -              | 723.10          | 105 B-7     | SHM           |
| CAR 683                    | 1                | YA99085           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 686-701                | 16               | YA99088 - YA99103 | -              | -              | 826.40          | 105 B-7     | SHM           |
| CAR 758-772                | 15               | YA99106 - YA99120 | SEPT. 19, 1986 | SEPT. 19, 1988 | 774.75          | 105 B-7     | SHM           |
| CAR 776-789                | 14               | YA99124 - YA99137 | -              | -              | 723.10          | 105 B-7     | SHM           |
| CAR 794-805                | 12               | YA99142 - YA99153 | -              | -              | 619.80          | 105 B-7     | SHM           |
| CAR 807                    | 1                | YA99155           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 809                    | 1                | YA99157           | -              | -              | 51.65           | 105 B-7     | SHM           |
| CAR 812-828                | 17               | YA99160 - YA99176 | -              | -              | 878.05          | 105 B-7     | SHM           |
| CAR 832-847                | 16               | YA99180 - YA99195 | -              | -              | 826.40          | 105 B-7     | SHM           |
| CAR 851-871                | 21               | YA99199 - YA99219 | -              | -              | 1084.65         | 105 B-7     | SHM           |
| CAR 980                    | 1                | YA99220           | -              | -              | 51.65           | 105 B-8     | SHM           |
| CAR 981                    | 1                | YA99221           | -              | -              | 51.65           | 105 B-8     | SHM           |
| CAR 1114-1133              | 20               | YA99251 - YA99270 | -              | -              | 1033.00         | 105 B-7/8   | SHM           |
| CAR 1146-1181              | 36               | YA99285 - YA99318 | -              | -              | 1859.40         | 105 B-7     | SHM           |

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RENEWAL REQUESTED FOR TWO YEARS FOR THE FOLLOWING 300 CAR CLAIMS

| Name                       | No. of<br>Claims | Record No.        | Date Recorded  | Renewal Date   | Size<br>(Acres) | Claim Sheet   | Reg.<br>Owner |
|----------------------------|------------------|-------------------|----------------|----------------|-----------------|---------------|---------------|
| GOOD TO SEPTEMBER 15, 1989 |                  |                   |                |                |                 |               |               |
| CAR 11                     | 1                | YA91585           | SEPT. 15, 1986 | SEPT. 15, 1989 | 51.65           | 105 B-2       | SHM           |
| CAR 13- 20                 | 8                | YA91587 - YA91594 | -              | -              | 413.20          | 105 B-2/7     | SHM           |
| CAR 64- 65                 | 2                | YA91612 - YA91613 | -              | -              | 103.30          | 105 B-2/7     | SHM           |
| CAR 94- 95                 | 2                | YA91614 - YA91615 | -              | -              | 103.30          | 105 B-2       | SHM           |
| CAR 97- 99                 | 3                | YA91617 - YA91619 | -              | -              | 154.95          | 105 B-2       | SHM           |
| CAR 118-135                | 18               | YA91638 - YA91655 | -              | -              | 929.70          | 105 B-1/2     | SHM           |
| CAR 137                    | 1                | YA91657           | -              | -              | 51.65           | 105 B-2       | SHM           |
| CAR 149-170                | 22               | YA91669 - YA91690 | -              | -              | 1136.30         | 105 B-1/2     | SHM           |
| CAR 172                    | 1                | YA91692           | -              | -              | 51.65           | 105 B-2       | SHM           |
| CAR 174                    | 1                | YA91694           | -              | -              | 51.65           | 105 B-2/7     | SHM           |
| CAR 179-280                | 102              | YA91699 - YA91800 | -              | -              | 5268.30         | 105 B-1/2/7/8 | SHM           |
| CAR 281-327                | 47               | YA98401 - YA98447 | -              | -              | 2427.55         | 105 B-1/7/8   | SHM           |

## GOOD TO SEPTEMBER 19, 1989

|                |    |                   |                |                |         |           |     |
|----------------|----|-------------------|----------------|----------------|---------|-----------|-----|
| CAR 21- 44     | 24 | YA98677 - YA98700 | SEPT. 19, 1986 | SEPT. 19, 1989 | 1239.60 | 105 B-2/7 | SHM |
| CAR 46         | 1  | YA98701           | -              | -              | 51.65   | 105 B-7   | SHM |
| CAR 66- 93     | 28 | YA98702 - YA98729 | -              | -              | 1446.20 | 105 B-7   | SHM |
|                |    |                   |                |                |         |           |     |
| CAR 409        | 1  | YA98811           | SEPT. 19, 1986 | SEPT. 19, 1989 | 51.65   | 105 B-7   | SHM |
| CAR 411        | 1  | YA98813           | -              | -              | 51.65   | 105 B-7   | SHM |
| CAR 413        | 1  | YA98815           | -              | -              | 51.65   | 105 B-7   | SHM |
| CAR 448        | 1  | YA98850           | -              | -              | 51.65   | 105 B-7   | SHM |
| CAR 450        | 1  | YA98852           | -              | -              | 51.65   | 105 B-7   | SHM |
|                |    |                   |                |                |         |           |     |
| CAR 811        | 1  | YA99159           | SEPT. 19, 1986 | SEPT. 19, 1989 | 51.65   | 105 B-7   | SHM |
| CAR 829-831    | 3  | YA99177 - YA99179 | -              | -              | 154.95  | 105 B-7   | SHM |
| CAR 848-850    | 3  | YA99196 - YA99198 | -              | -              | 154.95  | 105 B-7   | SHM |
| CAR 982-1005   | 24 | YA99222 - YA99245 | -              | -              | 1239.60 | 105 B-7   | SHM |
| CAR 1110-11113 | 4  | YA99247 - YA99250 | -              | -              | 206.60  | 105 B-7/8 | SHM |
| CAR 1134-1137  | 4  | YA99271 - YA99274 | -              | -              | 206.60  | 105 B-7   | SHM |
| CAR 1140-1141  | 2  | YA99277 - YA99278 | -              | -              | 103.30  | 105 B-2/7 | SHM |
| CAR 1143       | 1  | YA99280           | -              | -              | 51.65   | 105 B-2/7 | SHM |

RENEWAL REQUESTED FOR THREE YEARS FOR THE FOLLOWING CAR CLAIM

GOOD TO SEPTEMBER 19, 1990

|          |   |         |                |                |       |         |     |
|----------|---|---------|----------------|----------------|-------|---------|-----|
| CAR 1006 | 1 | YA99246 | SEPT. 19, 1986 | SEPT. 19, 1990 | 51.65 | 105 B-7 | SHM |
|----------|---|---------|----------------|----------------|-------|---------|-----|

RENEWALS REQUESTED TOTAL 1102 CLAIM YEARS

091992

HART SILVER PROPERTY, YUKON TERRITORY, NTS 105B  
EVALUATION SURVEY, BEA, CAR, CMC (part), SAB, and SH CLAIMS  
ASSESSMENT REPORT, 1987

SUMMARY AND RECOMMENDATIONS

SUMMARY

A two-month evaluation survey of the property was carried out by a two man crew with part time assistance of a bulldozer to excavate 43900 yds of shallow trench to remove vegetation and/or overburden.

Fiftysix mineral shows were discovered, of which 16 are of considerable extent. The larger shows indicate the presence at that site of a significant vein system with quartz, carbonate, and sulphide vein fillings. Alteration at the surface includes quartz, carbonate debris, manganese and limonitic (wad) gossans, with the wad containing sphalerite and galena in eight cases.

As there was no time for detailed work the smaller shows serve to outline areas deserving further prospecting.

Silver values were highest in galena hosted by granites in a belt stretching from the Paw zone in the North to the Orly in the south. This zone of high silver values is open to the south.

RECOMMENDATIONS

The results of this survey include the discovery of 56 mineralized zones. This indicates the efficiency of this type of survey. The good results are in good part due to the mobility provided by the all-terrain vehicles and the ability of the large bulldozers to clear sufficient subcrop to make the vein systems observable.

Exploration and prospecting in the forested areas will be most cost-efficient if stream sediment geochemistry surveys are followed up by intensive prospecting. The prospecting should be backed by a large cat to clear shallow trenches across the most promising zones.

Given the rate at which ground was covered by this survey, I would expect detailed prospecting to outline two to three times the number of mineralized shows found thus far in the areas that were covered by this survey, and a similar density of prospects in the forested areas of this property.

It is recommended that a detailed stream-sediment survey be conducted in the southern half of the property for which there is no such data available.

INTRODUCTION

The Hart Silver Project Regional Evaluation Study covers geological evaluation, trenching, and reconnaissance prospecting of all of the Hart Silver Project ground except that part of the CMC claims covered by the mining grid cut lines.

PERSONEL AND THEIR ADDRESSES

Work was carried out largely by Paul Ramaekers, Ph.D., geologist, and Robert Klett1, a third year geology student at University of Alberta who has many years experience as a prospector. For short times Karen Fyten, B.Sc. and Chris Boys, B.Sc. also contributed.

Adresses at the time of the field work are listed below.

Paul Ramaekers, 832 Parkwood Drive S.E., Calgary, Alberta; T2J 3W7  
 Robert Klett1, 10531 80th Avenue, Edmonton, Alberta.  
 Karen Fyten, 15 - 116A Idylwyld Drive North, Saskatoon, Sask. S7L 0Y2.  
 Chris Boys, Dept. of Geology, University of Saskatchewan, Saskatoon, Sask.

RECORD OF TIME EMPLOYED

The crew was employed for the following number of days for the field work and the preparation of this report:

|                |    |
|----------------|----|
| Paul Ramaekers | 89 |
| Robert Klett1  | 67 |
| Karen Fyten    | 8  |
| Chris Boys     | 3  |

The field work and its preparatory work were carried out between June 24, 1987 and September 23, 1987.

**091992**

LOCATION AND ACCESS

The Hart Silver property is located about 30 km north of the Alaska Highway at the Rancheria Lodge, which is about 100 km west of Watson Lake and lies in NTS mapsheets 105B 1, 2, 7, and 8. It is accessible by road from the Alaska Highway along the Spencer Creek Road and along the Silverhart Road leading from the Highway along the Rancheria River, past Edgar Lake to the CMC claims.

### PURPOSE OF THE REGIONAL EVALUATION PROGRAM

The purpose of the regional evaluation program was to identify mineralized zones and areas with greater potential for mineralization using surface prospecting, existing geological information, and the results of an airphoto study conducted by Silverhart Mines Ltd. (Hawkins, 1987). Follow-up and development of the mineralized zones found was to be left for the future.

### SUMMARY OF PREVIOUS RELEVANT INVESTIGATION

#### GEOLOGY

By far the most useful existing reports for the evaluation study were the geologic maps by Poole, Roddick and Green (1960), Lowey and Lowey (1986), and Amukun and Lowey (1987).

The lithologic information of these reports is summarized in Map 5 (in pocket). Where our work provided additional information this has been added to the map.

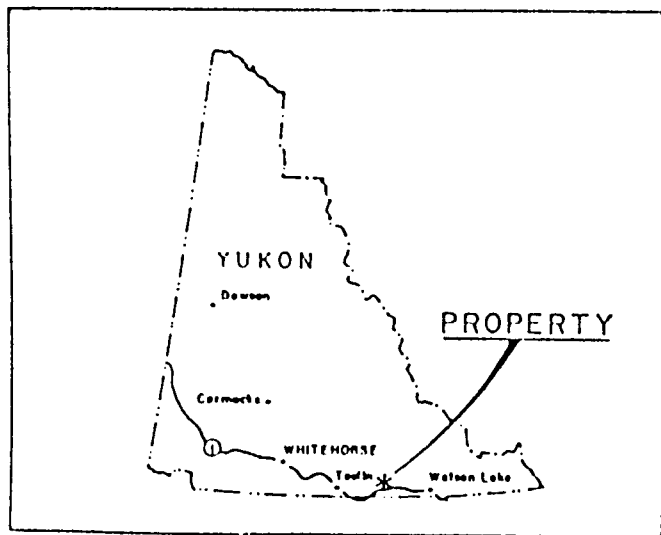
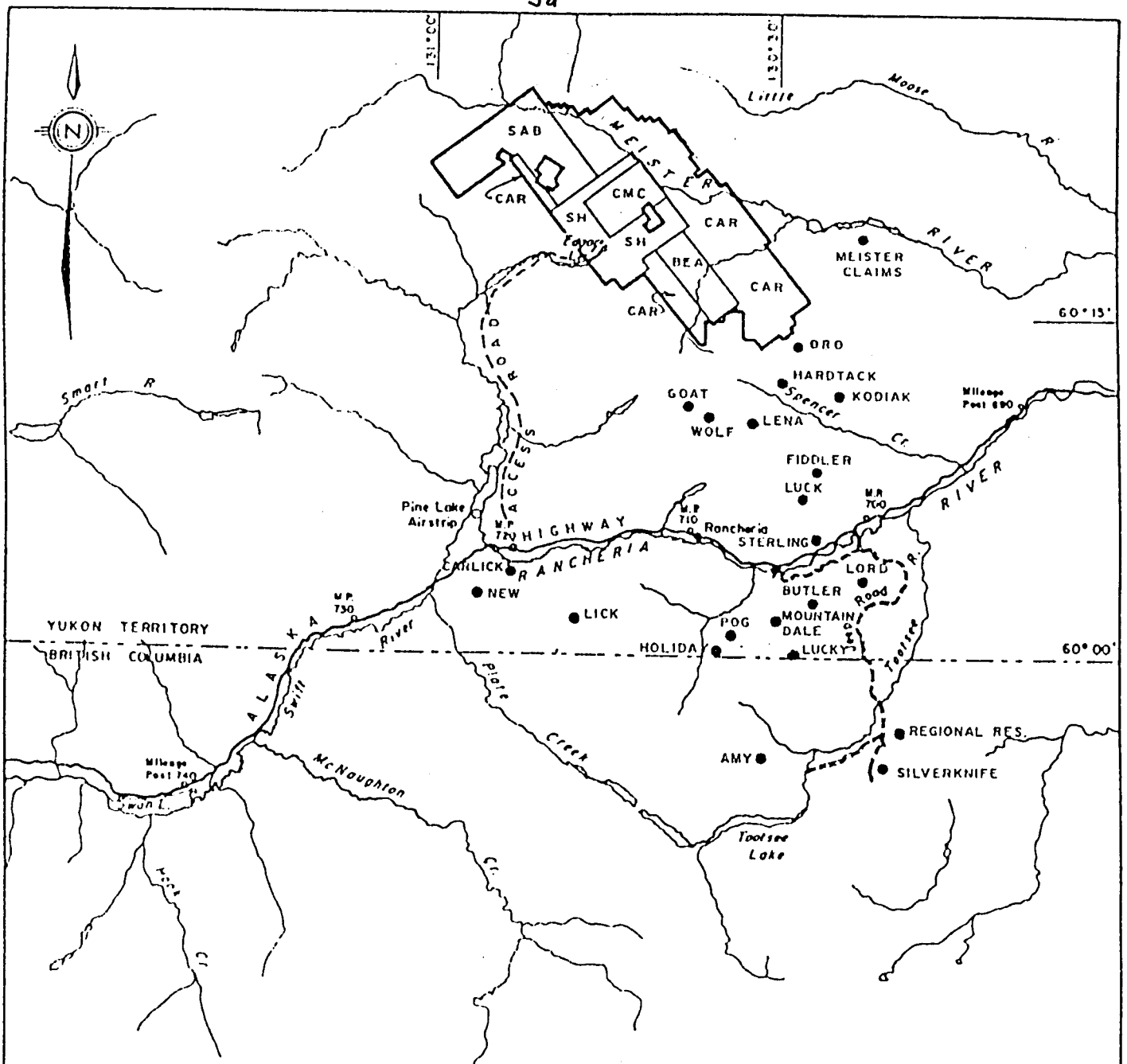
It was found that the structural data on the existing maps was impossible to interpret because of the incomplete nature of the mapping. The largest lithologic breaks are not on existing maps, and so many major faults and shear zones that are not on maps are in evidence in the field that on Map 5 the structural data has by and large been omitted because in its present state this data is misleading. It will take a major mapping program to provide enough data to permit a realistic interpretation.

#### MINERAL PROSPECTS

Most of the claims previously staked on the Hart Silver property were on low grade geochemical anomalies, quite possibly due to sampling error or the nature of the samples. Follow up work was generally geophysical in nature and did not lead to drilling or surface geological work that was of interest to this program. The exceptions are reports by Allen (1979) on the Boy claims, and by Cathro (1972) on the Nite and Mid Claims.

Allen reports quartz and carbonate veins containing galena and sphalerite in the Cassiar Batholith. This show is more fully described in this report under the Orly and Hots shows.

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|                                                          |
|----------------------------------------------------------|
| SILVER HART MINES LTD.                                   |
| HART SILVER PROPERTY<br>EDGAR LAKE AREA, YUKON TERRITORY |
| LOCATION MAP                                             |
| 0 KILOMETRES 10 20                                       |

Fig. 1

Cathro reports on geology, geochemistry, trenching and drilling on the Nite claim (not part of the Hart Silver property) and on geochemical work on the Mid claims. The latter form the core of the Hart Silver CMC claims and were not studied in this evaluation. However, Cathro's regional geochemical study on stream sediments and on soils covers most of the northern half of the present study area. The results of Cathro's work agree well with the results of our reconnaissance prospecting and the combination of these two programs indicates that stream sediment geochemical sampling is a useful tool in this area.

### METHODS OF SURFACE EVALUATION

#### PROSPECTING METHODS

For this study mobility was provided by two Honda 350cc all terrain vehicles. These proved well suited to the moderately steep alpine terrain in the area. These vehicles with low pressure balloon tires leave no tracks in the alpine vegetation. On a typical day traverses of 50 to 70 km were made.

Below the timberline and even on much (about 50%) of the alpine terrain vegetation was dense and outcrops are small. Contrary to the impression gained from Lowey's maps outcrops are fairly common below the timberline. However, due to the difficulty of moving around mapping them systematically is slow and arduous work. Given our time constraints most work in this study was confined to the areas above the timberline. Below the timberline a large bulldozer is essential for efficient prospecting.

Geological information was recorded only if it differed from that on Poole and Lowey's maps. All occurrences of Mn staining, wad, and sulphides were recorded on photo overlays and in the field notes.

All of the field data was transcribed to 1:12000 scale maps. These are reproduced in this report as Maps 1-4 (in pocket).

#### TRENCHING

To obtain a better idea of the nature of the vein systems and their relationship to bedrock considerable trenching was carried out: about 43900 yards. The object of the trenching was to remove the vegetated zone and the B-soil horizon so that either relatively fresh till or more or less in place bedrock was exposed. This typically required stripping to a depth of 8 to 12 inches, although in places a cut of 15 feet deep failed to get out of the till layer.

In the southern trenches a Caterpillar D7H was used with a blade of 12 feet wide. This cleared a trench of 12 feet width. Thus, for each yard of

trench length one cubic yard was cleared for every nine inches of depth of the trench. The depth of the trench was then used to estimate the volume of material removed. The results are given on the notes with Map 6 (in pocket).

A summary of the nature of the material removed is also presented for each claim on Map 6.

#### SAMPLING METHODS

Relatively little sampling was carried out during this study because sampling is time-intensive and hence a large sampling program would prevent this survey from evaluating all of the property. Some systematic soil sampling was carried out in the beginning of the program to evaluate the usefulness of soil sampling over various types of mineralized shows. B-horizon soil samples were taken from pits dug at regular intervals along a pace and compass grid. Samples were analysed for Ag, Pb, and Zn. The results are plotted in Figures 2-8. The analytical results are tabled in the Appendix. These tables also have the Traverse and station information for each sample that can be found plotted accurately on Maps 1-4.

The remaining samples were grab samples. The analytical results are again tabled in the appendix together with the reference to traverse and station that is plotted on Maps 1-4.

#### ASSAYING METHODS

All analyses were made by Roszbacher Laboratory Ltd. and Bondar-Clegg & Company Ltd. using the standard procedures that are described in their catalogues and are available on request from them. The type of analyses are listed on the certificates of analysis which form the tables of results in the appendix.

#### RESULTS

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#### NEW GEOLOGICAL RESULTS

The most interesting finding is that outcrop is relatively common below the timberline and that with suitable effort a detailed geological map can be made of the valleys.

Comparison of Lowey's maps and Map 6 of this report shows that Tertiary mafic dikes are more common than indicated on existing maps.

The margin of the Cassiar Batholith is more accurately defined in some areas as shown on Map 6 compared with previous maps.

The structural complexity of the area is greater than indicated on present maps. It will take considerable work to obtain enough data to permit an interpretation that will account for all available information. Structural models of this area in the literature do not account for all the types of faulting evident. The main problem possibly lies in the difficulty of dating the fault movements and distinguishing the faults related to the intrusion of the Cassiar Batholith from those due to the Tertiary strike-slip faulting. There may have been several stages to the intrusion. The possibility of late (early Tertiary) intrusions should be kept in mind.

#### TRENCHING

Map 6 shows the location of the trenches, their lengths, volumes of material excavated, and the nature of the excavated material.

The southern trenches (footnotes 56-67 on Map 6) expose numerous carbonate and quartz veins that are not detectable at the surface, even though the surface is relatively little disturbed. Most of these veins have little or no Mn stain, never any true wad, are generally parallel or subparallel to the bedding and contain little sulphides. The carbonate is usually calcite or dolomite. The veins are probably related to the intrusion of the batholith and any mineralization will probably be of the skarn type.

Whether this type of vein will carry silver closer to the contact with the granites remains to be tested.

Trenching uncovered wad in the till or debris flows in various places (Footnotes 34-36; 43-45; 71 - the Jerry show).

In the forested areas trenching is the only efficient way to evaluate an area in which prospecting has uncovered a few pieces of mineralized float or Mn-stained bedrock.

#### MINERALIZATION

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Fiftysix mineralized showings were found in the course of the evaluation program. They are plotted on Maps 1-4 and again on Map 5. Most consist of Mn-stained bedrock or float with minor wad. A few arsenopyrite occurrences were found. About half consist of occurrences of wad either in bedrock as fracture linings or vein fillings or as pieces of float. Whenever this type of material occurs over a considerable area (greater than 100 feet) the show was given a name.

It should be emphasized that given the cursory nature of this survey even an occurrence with only a single piece of Mn-stained rock should be followed up with more prospecting.

The larger named shows are listed below and described briefly. None have been mapped in detail, but the limits as shown on the maps are more or less accurate and reflect the actual size of the mineralized area as delimited by visual observation. No effort was made in any case to extend the area of the show by trenching. The smaller shows are shown diagrammatically on the maps. Their locations are given accurately, but their size is necessarily exaggerated on maps of this scale.

#### F1 SHOWING (Figure 2, Map 1)

This showing consists of small pieces of wad in float and debris flows and extends over an area of at least 400 by 50 feet. The wad seems to have been part of thin (1/8 inch thick) vein fillings.

#### JERRY SHOWING (Figure 3, Map 1)

The Jerry show consists of abundant and sometimes large (up to 8") pieces of wad and vein material in debris flows. The zone is at least 100' by 200' large. The debris flows do not seem to have moved much.

#### EVE SHOWING (Figure 4, Maps 1 and 2)

The Eve showing extends over a large area, at least 500 by 800 feet. Within this area there are at least 6 zones with dense concentrations of wad. The soil sampling covers only a part of this zone. The bedrock consists of carbonates and phyllites. Structures, i.e. gullies, probably faults and/or dikes trend about 60 degrees.

#### TS SHOWING (Figure 5, Map 2)

This show consists of a large area of mixed till and frostheaved subcrop that contains small pieces of wad. The upice(?) western limit of the show is marked by thick granitic till, and the zone is open to the east.

#### CAT SHOWING (Figure 6, Map 2)

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This show extends over a large area, at least 1000' by 2000'. A concentration of wad lies on frostheaved outcrop in carbonates and phyllites near the western limit of the show.

#### LIN SHOWING (Figure 7, Map 2)

The Lin showing extends over a linear belt of 50' by 300', and consists of a prominent zone of abundant wad fragments.

# F1 SHOWING

|       |       |       |
|-------|-------|-------|
| 509   | 508   | 507   |
| 84    | 98    | 90    |
| .2 26 | .2 20 | .2 30 |

|       |       |       |
|-------|-------|-------|
| 504   | 505   | 506   |
| 74    | 80    | 96    |
| .2 44 | .2 22 | .2 22 |

|       |        |       |
|-------|--------|-------|
| 503   | 502    | 501   |
| 78    | 120    | 152   |
| .2 46 | .4 142 | .2 52 |

Fig. 2

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|               |        |
|---------------|--------|
| SAMPLE NUMBER | Zn PPM |
| Ag PPM        | Pb PPM |

SCALE 1:1200

1" = 100'

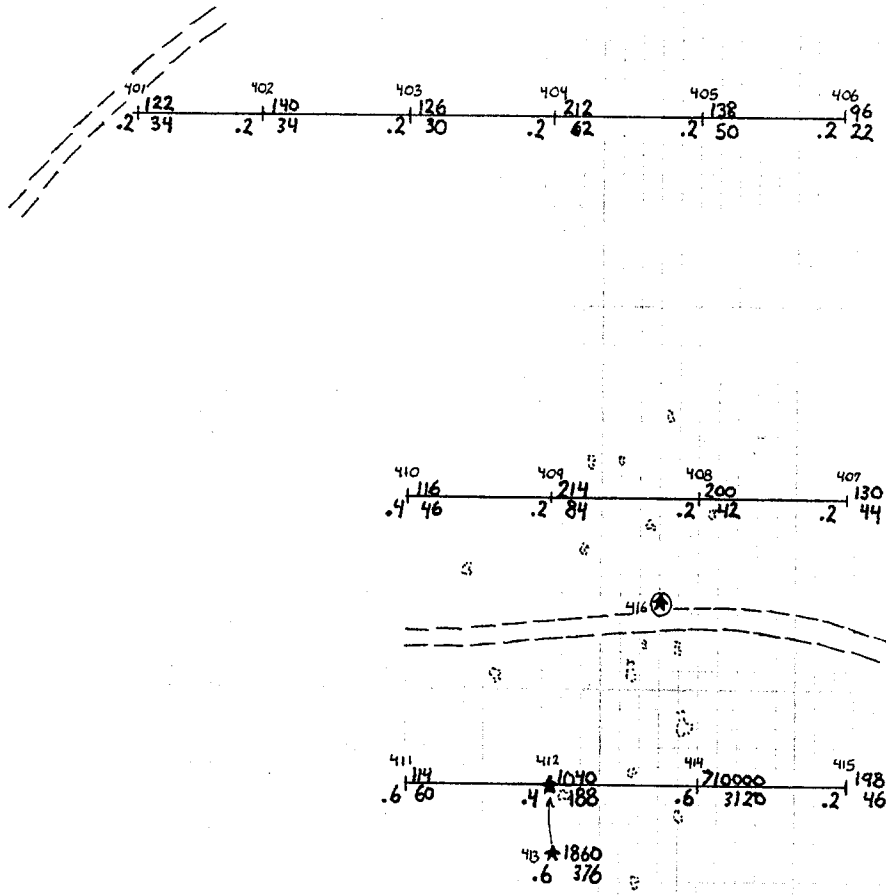
○ WAD

--- CAT ROAD

↖ APPROXIMATE NORTH

CLAIM YA91679/159

# JERY SHOWING



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FIG. 3

| SAMPLE NUMBER | Zn PPM | Pb PPM |
|---------------|--------|--------|
|               |        |        |

SCALE 1:1000

1" = 100'

○ WAD

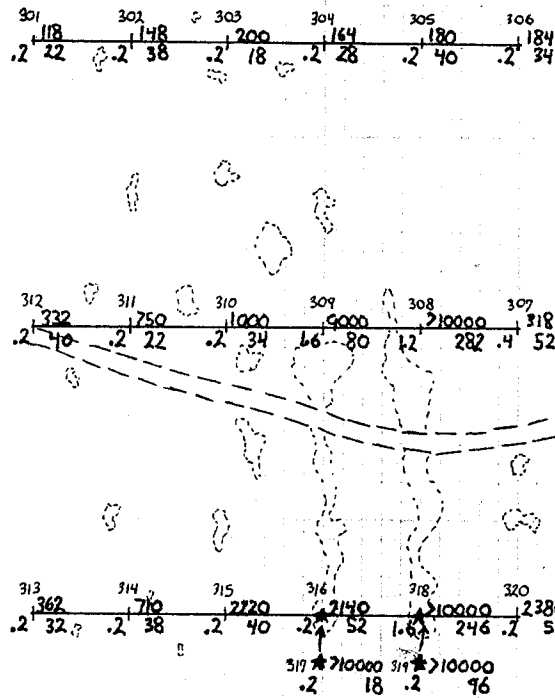
★ ROCK CHIP

--- CAT ROAD

↓ APPROXIMATE NORTH

CLAIM YA91681/161

# EVE SHOWING



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FIG. 4

| SAMPLE NUMBER | Zn PPM |
|---------------|--------|
| Ag PPM        | Pb PPM |

SCALE 1:1200

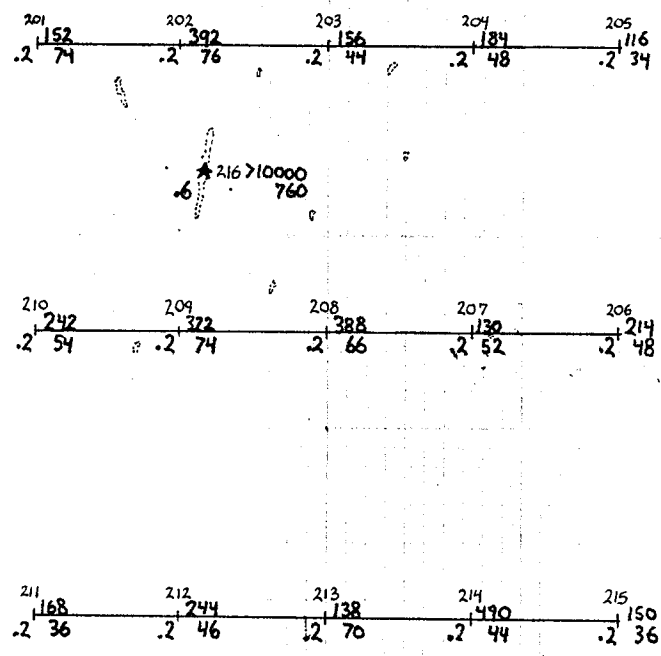
1" = 100'

- WAD
- ROCK CHIP

CAT ROAD

APPROXIMATE NORTH  
CLAIM YA91685/163

# T.S. SHOWING



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Fig. 5

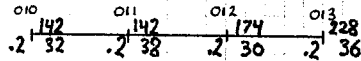
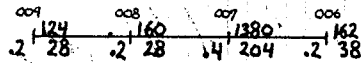
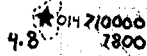
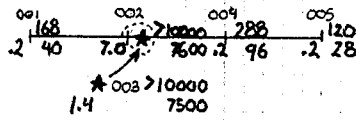
| SAMPLE NUMBER | Zn PPM | Ag PPM | Pb PPM |
|---------------|--------|--------|--------|
|---------------|--------|--------|--------|

SCALE 1:1200  
1" = 100'

- WAD
- ★ ROCK CHIP
- ↗ APPROXIMATE NORTH

CLAIM YA91720/200 YA91721/201

# CAT SHOWING



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Fig. 6

SAMPLE NUMBER | Zn PPM | Ag PPM | Pb PPM | SCALE 1:100  
1" = 100'

○ WAD

★ ROCK CHIP

⚡ APPROXIMATE NORTH

CLAIM YA91722/202 YA91723/203  
YA91721/201

# LIN SHOWING

|     |     |
|-----|-----|
| 103 | 124 |
| .2  | 28  |
| 102 | 780 |
| .2  | 76  |
| 101 | 620 |
| .2  | 100 |

|       |        |
|-------|--------|
| 104   | 104    |
| .2    | 18     |
| 105   | 158    |
| .2    | 46     |
| ★ 106 | >10000 |
| .2    | 86     |
| 107   | 186    |
| .2    | 30     |

|     |     |
|-----|-----|
| 110 | 92  |
| .2  | 24  |
| 109 | 84  |
| .2  | 16  |
| 108 | 102 |
| .2  | 16  |

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Fig. 7

| SAMPLE NUMBER | Zn PPM        |
|---------------|---------------|
|               | Ag PPM Pb PPM |

SCALE 1:1200

1" = 100'

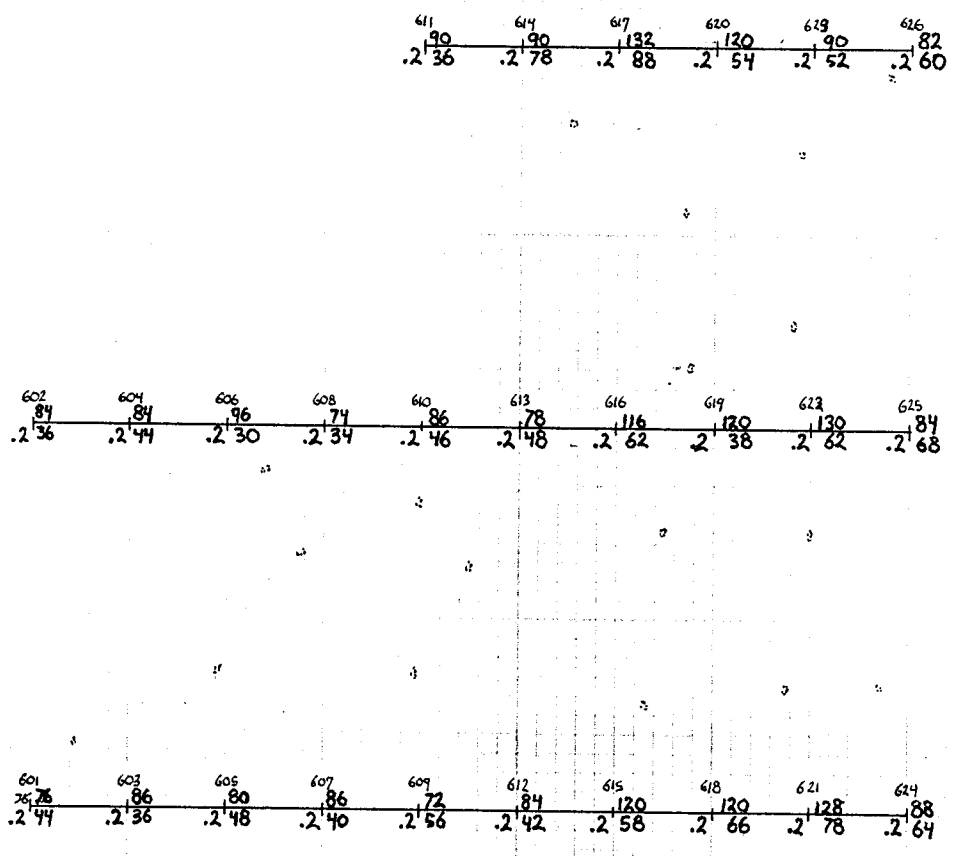
○ WAD

★ ROCK CHIP

↗ APPROXIMATE NORTH

CLAIM YA91722 / 202

# NOON SHOWING



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FIG. 8

SAMPLE NUMBER | Zn PPM  
 Ag PPM | Pb PPM

SCALE 1:1200  
 1" = 100'

WAD

APPROXIMATE NORTH

CLAIM YA91780/200

## NOON SHOWING (Figure 8, Map 1)

This show extends over a large (500' by 1000') area, but consists of relatively few, widely scattered, small pieces of wad in float.

## TOP SHOWING (Map 2)

This is a relatively small (50 by 100') show consisting of a few thick wad crusts in float above a carbonate unit.

## HIGH SHOWING (Map 1)

This showing consists of a 0 to 4" wide vein of fine grained galena. The vein contains galena only sporadically, at least at the surface, and is stratabound. It runs next to a thin carbonate bed in a phyllite unit. Silver content increases with depth if the few available analyses are a reliable indication.

## POST SHOWING (Map 2)

This show is a small patch of wad vein material in a till overlying interbedded carbonates and gneisses.

## ORLY SHOWING (Map 3)

This show consists of three parallel veins of galena, sphalerite, carbonate and quartz striking 100-120 degrees and dipping 40-50 degrees to the northeast. The host rock is a relatively little altered medium grained granite. The veins occur near a much altered finegrained mafic dike that marks a fault zone. Silver values of up to 250 oz/ton are found in the galena.

## HOTS SHOWING (MAP 3)

This zone consists of a series of veins filled with carbonate quartz, sphalerite and minor galena, and wad. The veins generally strike 40 to 80 degrees.

## BLUEBERRY and CALC SHOWING (Map 3)

The Blueberry zone is a very large zone containing many veins of various strikes and dips with galena, sphalerite, fine grained white and blue quartz, minor scorodite and carbonate. Wad zones are well developed. Further prospecting may show that this zone is contiguous with other nearby shows such as the Calc which is hosted by calcsilicates. The blueberry zone is hosted by granite.

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#### CLIFF, CUT, MOSS, AND DAY SHOWINGS (Map 3)

These are small, poorly exposed zones in bedrock. The Cliff shows up to 6" wide quartz, carbonate and wad veins. The day is composed of small wad pieces in frostheaved material. All occur in granites.

#### PAW SHOWING (Map 3)

The Paw showing is a spectacular series of quartz veins and wad zones in a shear zone trending about 60 degrees in granite. Two veins carry galena near the surface with silver values up to 250 oz/ton.

#### BLAST AND ROLL SHOWINGS (Map 3)

These zones are a series of veins trending about 60 degrees in gneisses, calcsilicates and carbonates. Sulphide mineralization extends as disseminated grains of galena and sphalerite through the wall rock near the veins. Most of the veins only show wad at surface, sometimes with secondary galena.

#### TWIN SHOWING (MAP 4)

This is a fairly large zone of widely dispersed small wad fragments with a small zone of wad concentration. The zone is centred on two prominent parallel lineaments. A north trending mafic dike crosses part of the zone.

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#### CONCLUSIONS AND RECOMMENDATIONS

The results of this survey include the discovery of 56 mineralized zones. This indicates the efficiency of this type of survey. The good results are in good part due to the mobility provided by the all-terrain vehicles and the ability of the large bulldozers to clear sufficient subcrop to make the vein systems observable.

Exploration and prospecting in the forested areas will be most cost-efficient if stream sediment geochemistry surveys are followed up by intensive prospecting. The prospecting should be backed by a large cat to clear shallow trenches across the most promising zones.

Given the rate at which ground was covered by this survey, I would expect detailed prospecting to outline two to three times the number of mineralized shows found thus far in the areas that were covered by this survey, and a similar density of prospects in the forested areas of this property.

It is recommended that a detailed stream-sediment survey be conducted in the southern half of the property for which there is no such data available.

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APPENDIX

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GEOCHEMICAL AND ASSAY RESULTS

**091992**

**OSSBACHER LABORATORY LTD.**

**CERTIFICATE OF ANALYSIS**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

TO : SILVER HART MINES LTD.  
 209-320 SIOUX ROAD  
 SHERWOOD PARK ALBERTA  
 PROJECT: HART SILVER  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87445  
 INVOICE#: 7922  
 DATE ENTERED: 87-08-20  
 FILE NAME: SH87445  
 PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | PPM<br>Ag | PPM<br>Zn | PPM<br>Pb | FOR LOCATION SEE FIGS 2-9 |
|------------|-------------|-----------|-----------|-----------|---------------------------|
| S          | CAT-001     | 0.2       | 168       | 40        |                           |
| S          | 002         | 7.0       | >10000    | 7600      |                           |
| A          | 003         | 1.4       | >10000    | 7500      |                           |
| S          | 004         | 0.2       | 288       | 96        |                           |
| S          | 005         | 0.2       | 120       | 28        |                           |
| S          | 006         | 0.2       | 162       | 38        |                           |
| S          | 007         | 0.4       | 1380      | 204       |                           |
| S          | 008         | 0.2       | 160       | 28        |                           |
| S          | 009         | 0.2       | 124       | 28        |                           |
| S          | 010         | 0.2       | 142       | 32        |                           |
| S          | 011         | 0.2       | 142       | 38        |                           |
| S          | 012         | 0.2       | 174       | 30        |                           |
| S          | 013         | 0.2       | 228       | 36        |                           |
| S          | CAT-014     | 4.8       | >10000    | 7800      |                           |
| S          | LIN-B-101   | 0.2       | 620       | 100       |                           |
| S          | 102         | 0.2       | 780       | 76        |                           |
| S          | 103         | 0.2       | 124       | 28        |                           |
| S          | 104         | 0.2       | 104       | 18        |                           |
| S          | 105         | 0.2       | 158       | 46        |                           |
| A          | 106         | 0.2       | >10000    | 86        |                           |
| S          | 107         | 0.2       | 186       | 30        |                           |
| S          | 108         | 0.2       | 102       | 16        |                           |
| S          | 109         | 0.2       | 84        | 16        |                           |
| S          | LIN-B-110   | 0.2       | 92        | 24        |                           |
| S          | TS-201      | 0.2       | 152       | 74        |                           |
| S          | 202         | 0.2       | 392       | 76        |                           |
| S          | 203         | 0.2       | 156       | 44        |                           |
| S          | 204         | 0.2       | 184       | 48        |                           |
| S          | 205         | 0.2       | 116       | 34        |                           |
| S          | 206         | 0.2       | 214       | 48        |                           |
| S          | 207         | 0.2       | 130       | 52        |                           |
| S          | 208         | 0.2       | 388       | 66        |                           |
| S          | 209         | 0.2       | 322       | 74        |                           |
| S          | 210         | 0.2       | 242       | 54        |                           |
| S          | 211         | 0.2       | 168       | 36        |                           |
| S          | 212         | 0.2       | 244       | 46        |                           |
| S          | 213         | 0.2       | 138       | 70        |                           |
| S          | 214         | 0.2       | 490       | 44        |                           |
| S          | TS-215      | 0.2       | 150       | 36        |                           |

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CERTIFIED BY :

*J. Ossbacher*

**ROSSBACHER LABORATORY LTD.**

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 FILE NAME: SH87445  
 PAGE # : 2

| PRE<br>FIX | SAMPLE NAME | PPM<br>Ag | PPM<br>Zn | PPM<br>Pb | FOR LOCATION SEE FIGURES 2-9 |
|------------|-------------|-----------|-----------|-----------|------------------------------|
| A          | TS-216      | 0.6       | >10000    | 760       |                              |
| S          | EVE-301     | 0.2       | 118       | 22        |                              |
| S          | 302         | 0.2       | 148       | 38        |                              |
| S          | 303         | 0.2       | 200       | 18        |                              |
| S          | 304         | 0.2       | 164       | 28        |                              |
| S          | 305         | 0.2       | 180       | 40        |                              |
| S          | 306         | 0.2       | 184       | 34        |                              |
| S          | 307         | 0.4       | 318       | 52        |                              |
| S          | 308         | 1.2       | >10000    | 282       |                              |
| S          | 309         | 1.6       | 9000      | 80        |                              |
| S          | 310         | 0.2       | 1000      | 34        |                              |
| S          | 311         | 0.2       | 750       | 22        |                              |
| S          | 312         | 0.2       | 332       | 40        |                              |
| S          | 313         | 0.2       | 362       | 32        |                              |
| S          | 314         | 0.2       | 710       | 38        |                              |
| S          | 315         | 0.2       | 2220      | 40        |                              |
| S          | 316         | 0.2       | 2140      | 52        |                              |
| A          | 317         | 0.2       | >10000    | 18        |                              |
| S          | 318         | 1.6       | >10000    | 246       |                              |
| A          | 319         | 0.2       | >10000    | 96        |                              |
| S          | EVE-320     | 0.2       | 2380      | 52        |                              |
| S          | JERY-401    | 0.2       | 122       | 34        |                              |
| S          | 402         | 0.2       | 140       | 34        |                              |
| S          | 403         | 0.2       | 126       | 30        |                              |
| S          | 404         | 0.2       | 212       | 62        |                              |
| S          | 405         | 0.2       | 138       | 50        |                              |
| S          | 406         | 0.2       | 96        | 22        |                              |
| S          | 407         | 0.2       | 130       | 44        |                              |
| S          | 408         | 0.2       | 200       | 42        |                              |
| S          | 409         | 0.2       | 214       | 84        |                              |
| S          | 410         | 0.4       | 116       | 46        |                              |
| S          | 411         | 0.6       | 114       | 60        |                              |
| S          | 412         | 0.4       | 1040      | 188       |                              |
| S          | 413         | 0.6       | 1860      | 376       |                              |
| A          | 414         | 0.6       | >10000    | 3120      |                              |
| S          | 415         | 0.2       | 198       | 46        |                              |
| S          | JERY-416    | 0.6       | 4900      | 184       |                              |
| S          | F1-501      | 0.2       | 152       | 52        |                              |
| S          | F1-502      | 0.4       | 120       | 142       |                              |

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*J. Rossbach*

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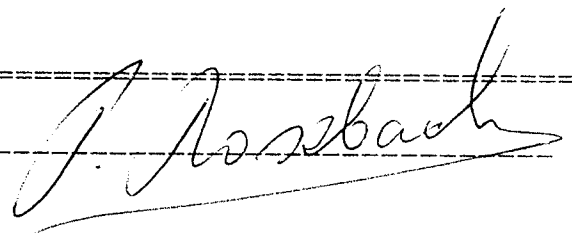
CERTIFICATE#: 87445  
 INVOICE#: 7922  
 DATE ENTERED: 87-08-20  
 FILE NAME: SH87445  
 PAGE # : 3

| PRE<br>FIX | SAMPLE NAME | PPM<br>Ag | PPM<br>Zn | PPM<br>Pb | FOR LOCATION SEE FIGURES 2-9 |
|------------|-------------|-----------|-----------|-----------|------------------------------|
| S          | F1-503      | 0.2       | 78        | 46        |                              |
| S          | 503         | 0.2       | 74        | 44        |                              |
| S          | 505         | 0.2       | 80        | 22        |                              |
| S          | 506         | 0.2       | 96        | 22        |                              |
| S          | 507         | 0.2       | 90        | 30        |                              |
| S          | 508         | 0.2       | 98        | 20        |                              |
| S          | F1-509      | 0.2       | 84        | 26        |                              |
| S          | NOON-601    | 0.2       | 76        | 44        |                              |
| S          | 602         | 0.2       | 84        | 36        |                              |
| S          | 603         | 0.2       | 86        | 36        |                              |
| S          | 604         | 0.2       | 84        | 44        |                              |
| S          | 605         | 0.2       | 80        | 48        |                              |
| S          | 606         | 0.2       | 96        | 30        |                              |
| S          | 607         | 0.2       | 86        | 40        |                              |
| S          | 608         | 0.2       | 74        | 34        |                              |
| S          | 609         | 0.2       | 72        | 56        |                              |
| S          | 610         | 0.2       | 86        | 46        |                              |
| S          | 611         | 0.2       | 90        | 36        |                              |
| S          | 612         | 0.2       | 84        | 42        |                              |
| S          | 613         | 0.2       | 78        | 48        |                              |
| S          | 614         | 0.2       | 90        | 78        |                              |
| S          | 615         | 0.2       | 120       | 58        |                              |
| S          | 616         | 0.2       | 116       | 62        |                              |
| S          | 617         | 0.2       | 132       | 88        |                              |
| S          | 618         | 0.2       | 120       | 66        |                              |
| S          | 619         | 0.2       | 120       | 38        |                              |
| S          | 620         | 0.2       | 120       | 54        |                              |
| S          | 621         | 0.2       | 128       | 78        |                              |
| S          | 622         | 0.2       | 130       | 62        |                              |
| S          | 623         | 0.2       | 90        | 52        |                              |
| S          | 624         | 0.2       | 88        | 64        |                              |
| S          | 625         | 0.2       | 84        | 68        |                              |
| S          | NOON-626    | 0.2       | 82        | 60        |                              |

091992

Total 33 33 33

CERTIFIED BY :



**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

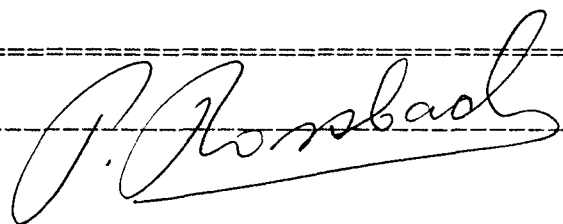
TO : SILVER HART MINES LTD.  
 209-320 SIOUX ROAD  
 SHERWOOD PARK ALBERTA  
 PROJECT: HART SILVER  
 TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 87454  
 INVOICE#: 7938  
 DATE ENTERED: 87-08-25  
 FILE NAME: SH87454  
 PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au | oz/t<br>Ag | %<br>Pb | %<br>Zn | FOR LOCATION SEE MAPS 1-4 |
|------------|-------------|------------|------------|---------|---------|---------------------------|
| A          | 22151       | 0.001      | 0.02       | 0.02    | 0.02    | Tr 2-1                    |
| A          | 22152       | 0.001      | 0.02       | 0.02    | 0.02    | Tr 3-1                    |
| A          | 22153       | 0.001      | 0.02       | 0.02    | 0.02    | Tr 3-4                    |
| A          | 22154       | 0.001      | 0.02       | 0.02    | 0.02    | Tr 3-4                    |
| A          | 22155       | 0.001      | 16.38      | 60.80   | 0.44    | Tr 13-1 HIGH ZONE         |
| A          | 22156       | 0.001      | 2.62       | 1.50    | 0.02    | Tr 12-4                   |
| A          | 22157       | 0.001      | 17.02      | 62.80   | 0.84    | Tr 13-1 HIGH ZONE         |
| A          | 22158       | 0.001      | 0.08       | 0.48    | 0.02    | Tr 9-2                    |
| A          | 22159       | 0.001      | 0.10       | 0.48    | 0.02    | Tr 9-2                    |
|            | Tot #       | 9          | 9          | 9       | 9       |                           |

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ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299-6910

CERTIFICATE OF ANALYSIS

TO : SILVER HART MINES LTD.  
 209-320 SIOUX ROAD  
 SHERWOOD PARK ALBERTA  
 PROJECT: HART SILVER  
 TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 87477  
 INVOICE#: 7967  
 DATE ENTERED: 87-08-28  
 FILE NAME: SH87477  
 PAGE # : 1

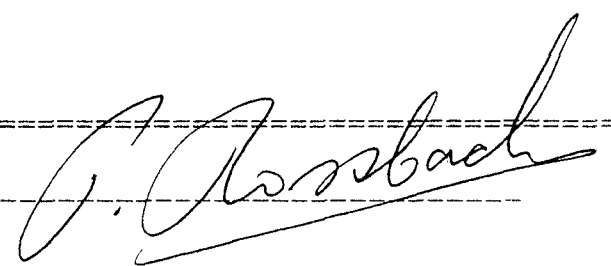
| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au | oz/t<br>Ag | %<br>Pb | %<br>Zn | FOR LOCATION SEE MAPS 1-4 |
|------------|-------------|------------|------------|---------|---------|---------------------------|
| A          | 22160       | 0.001      | 0.42       | 0.08    | 0.02    | Tr 18-1                   |
| A          | 22161       | 0.001      | 0.02       | 0.02    | 0.02    | Tr 18-6                   |
| A          | 22162       | 0.004      | 0.04       | 0.02    | 0.02    | Tr 18-6                   |
| A          | 22163       | 0.001      | 0.06       | 0.02    | 0.02    | Tr 19-1                   |
| A          | 22164       | 0.001      | 0.06       | 0.02    | 0.02    | Tr 19-1                   |
| A          | 22165       | 0.001      | 0.08       | 0.02    | 0.02    | Tr 19-1                   |
| A          | 22166       |            | 0.02       | 0.02    | 0.02    | Tr 19-2                   |
| A          | 22167       |            | 0.64       | 1.42    | 0.52    | Tr 19-3                   |
| A          | 22168       | 0.001      | 0.08       | 0.04    | 0.32    | Tr 19-4                   |
| A          | 22169       |            | 0.04       | 0.04    | 0.52    | Tr 19-6                   |
| A          | 22170       |            | 0.02       | 0.04    | 0.06    | Tr 19-6                   |
| A          | 22171       | 0.001      | 0.02       | 0.04    | 0.02    | Tr 7-11 [sic]             |

*Assay*      *Grand total*      Au 17      Ag Pb Zn = 21

*Grand total*      *total*      Ag Pb Zn = 11

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**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

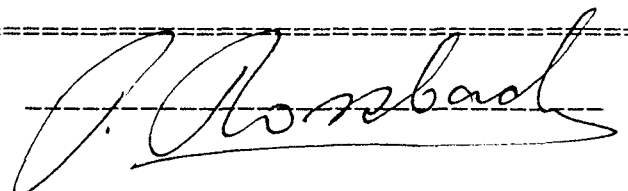
TO : SILVER HART MINES LTD.  
 209-320 SIOUX ROAD  
 SHERWOOD PARK ALBERTA  
 PROJECT: HART SILVER  
 TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 87530  
 INVOICE#: 70025  
 DATE ENTERED: 87-09-09  
 FILE NAME: SH87530  
 PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Au | oz/t<br>Ag | %<br>Cu | %<br>Pb | %<br>Zn | FOA LOCATION SEE MAPS 1-4<br>MAP 3  |
|------------|-------------|------------|------------|---------|---------|---------|-------------------------------------|
| A          | 22172       |            | 0.04       | 0.07    | 0.02    | 0.02    | Skarn ( <sup>West</sup> of Tr 17-5) |
| A          | 22173       | 0.001      | 1.94       |         | 0.72    | 0.04    | Tr 16-10 Pav - upper bench - ytz    |
| A          | 22174       |            | 72.80      |         | 8.50    | 0.20    | Tr 16-10 Pav - main - surface mud   |
| A          | 22175       | 0.001      | 58.40      | 0.24    | 5.78    | 6.52    | Oily float -                        |
| A          | 22176       |            | 200.80     |         | 61.00   | 4.92    | Tr 30 Oily float - massive galena   |
| A          | 22177       | 0.001      | 12.98      |         | 0.52    | 0.96    | " Oily float, ytz sphalerite        |
| A          | 22178       |            | 56.80      |         | 6.20    | 20.10   | Oily float galena, PbS, ZnS         |
| A          | 22179       |            | 246.40     |         | 35.40   | 8.80    | " Oily float - silty galena         |

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**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : SILVER HART MINES LTD.  
 209-320 SIOUX RD.  
 SHERWOOD PARK, ALBERTA  
 PROJECT: HART SILVER  
 TYPE OF ANALYSIS: ASSAY

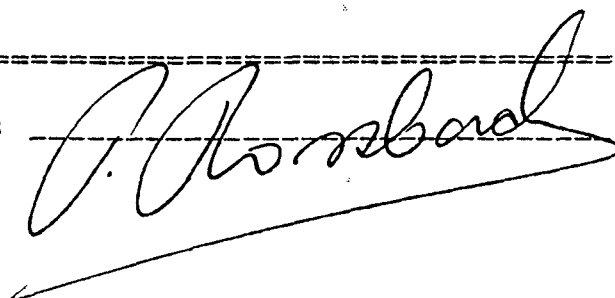
CERTIFICATE#: 87589  
 INVOICE#: 70083  
 DATE ENTERED: 87-09-18  
 FILE NAME: SH87589  
 PAGE # : 1

| PRE<br>FIX | SAMPLE NAME | oz/t<br>Ag | %<br>Pb | %<br>Zn | FOR LOCATION SEE MAPS 1-4           |
|------------|-------------|------------|---------|---------|-------------------------------------|
| A          | 22180       | 16.20      | 12.12   | 1.90    | Tr 30-11                            |
| A          | 22181       | 80.40      | 46.80   | 4.16    | Tr 30-13-1 ONLY ZONE                |
| A          | 22182       | 143.60     | 25.80   | 2.00    | Tr 30-13-2 " "                      |
| A          | 22183       | 158.40     | 60.80   | 7.32    | Tr 30-13-3 " "                      |
| A          | 22185       | 0.82       | 0.50    | 0.06    | Tr 30-9                             |
| A          | 22188       | 0.36       | 0.18    | 0.04    | Tr 30-8                             |
| A          | 22189       | 88.00      | 72.20   | 0.06    | Tr 16-10-1 PAW ZONE                 |
|            | 22192       | 256.00     | 69.80   | 0.20    | Tr 16-11 PAW ZONE                   |
|            | 22194       | 1.76       | 1.70    | 0.42    | Tr <del>16-11</del> 24-3 BLAST ZONE |
| A          | 22195       | 6.22       | 1.40    | 1.30    | Tr 24-1-1 ROLL ZONE                 |
| A          | 22196       | 13.32      | 7.00    | 1.84    | Tr 24-1-2 ROLL ZONE                 |
| A          | 22197       | 0.46       | 0.30    | 0.46    | Tr 28-4                             |

Samples 22184, 22186, 22187, 22190, 22191, 22193 NOT ANALYSED BY LAB.

091992

CERTIFIED BY :





# BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 2V1

PHONE: (403) 667-6523

## Certificate of Analysis

TO Silver Hart Mines  
(Paul Ramackers)  
Proj. Silver Hart Regional

REPORT NO. 47-6182

DATE Aug 20, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

| MARKED | oz/ton | %    | %    |  |  |  |  |  |  | LOCATION            |
|--------|--------|------|------|--|--|--|--|--|--|---------------------|
|        | Ag     | Pb   | Zn   |  |  |  |  |  |  |                     |
| 4      | 250.   | 55.5 | 0.16 |  |  |  |  |  |  | PAW SHOW<br>(MAP 3) |

091992

BONDAR-CLEGG & COMPANY LTD.



# Certificate of Analysis

TO Silver Hart Mines  
(Paul Pamackers)  
Proj. HSP Reg

REPORT NO. 47-5563

DATE July 30, 1987

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

| MARKED | oz/ton |  |  |  |  |  |  |  |  |  | LOCATION |                      |
|--------|--------|--|--|--|--|--|--|--|--|--|----------|----------------------|
|        | Ag     |  |  |  |  |  |  |  |  |  |          |                      |
| 1      | 13.8   |  |  |  |  |  |  |  |  |  |          | HIGH SHOW<br>(MAP 1) |
| 2      | 12.8   |  |  |  |  |  |  |  |  |  |          |                      |
| 3      | 14.1   |  |  |  |  |  |  |  |  |  |          |                      |

091992

CERTIFIED STATEMENT OF COSTS

|                                                                                                                       |       |          |
|-----------------------------------------------------------------------------------------------------------------------|-------|----------|
| Airphoto interpretation (Report by Paul Hawkins)                                                                      | ⌘     | 3750.25  |
| Hondas; leasing costs: ATV at \$550/mo = 3x550x2=                                                                     | ⌘     | 3300.00  |
| trailers at 125/mo= 3x125x2=                                                                                          | ⌘     | 750.00   |
| Transport Hondas: Yukon Freightways                                                                                   | ⌘     | 860.00   |
| Airfreight; maps, books, etc.                                                                                         | ⌘     | 139.20   |
| Airfare: P.Ramaekers, R.Klett1                                                                                        | ⌘     | 1393.00  |
| Travel to Yukon by R.Klett1                                                                                           | ⌘     | 350.00   |
| Equipment; as per Neville-Crosby invoices 53278, 01615-01618                                                          | ⌘     | 7581.40  |
| Expenses in Yukon as per P.O. B3701 to B3708 (except B3705)                                                           | ⌘     | 3069.20  |
| Board and food at Silverhart Camp at \$45/manday for 2 people<br>from August 10 to Sept. 23 for a total of 75 mandays | ⌘     | 3375.00  |
| Salaries: P. Ramaekers 89 days at 187.50/day                                                                          | ⌘     | 16687.50 |
| R. Klett1 67 days at 118.75/day                                                                                       | ⌘     | 7956.25  |
| C.Boys 5 days at 131.25/day plus                                                                                      |       |          |
| K.Fyten 6days at 131.25/day                                                                                           | ⌘     | 1443.75  |
| Assays (Rossbacher) Invoices 7922, 7938, 7967                                                                         | ⌘     | 1153.80  |
|                                                                                                                       | ----- |          |
| Total                                                                                                                 | ⌘     | 51809.35 |

*Acc. Book Statement  
Date 11/17/92*

**091992**

STATEMENT OF QUALIFICATIONS

I, Paul Ramaekers, of Calgary, Alberta, do hereby certify that:

1. I am a graduate of the University of Toronto in Geological Sciences in 1967 (B.Sc. hon.).
2. I received a Doctorate in Philosophy in Geology from the University of Toronto in 1975.
3. I have been practicing as a geologist since 1975; as a Special Lecturer at the University of Regina in 1975; as a Senior Research Geologist at the Saskatchewan Geological Survey from 1975 to 1981; and as Senior Sedimentary Geologist in the Research Division of the Saskatchewan Mining Development Corporation from 1981 to 1985; and as a self-employed geologist from 1985 to the present.
4. I have conducted field work on the Hart Silver Property from July 14 to September 23, 1987.
5. I am a Fellow of the Geological Association of Canada; a member of the International Association of Sedimentologists and a member of the Society of Economic Paleontologists and Mineralogists.

Dated at Calgary, Alberta, this 30th day of October, 1987.

*Paul Ramaekers*

Paul Ramaekers, B.Sc., Ph.D., F.G.A.C.

091992

*Circled expenses are not allowable under the schedule.*

24

AMENDED CERTIFIED STATEMENT OF COSTS

DECEMBER 9, 1987

The costs as listed in the assessment report are unchanged and as follows:

*This report was approved separately.*

|                                                                                                                       |             |          |
|-----------------------------------------------------------------------------------------------------------------------|-------------|----------|
| (Airphoto interpretation (Report by Paul Hawkins))                                                                    | \$ 3750.25  |          |
| Hondas; leasing costs: ATV at \$550/mo = 3x550x2=                                                                     | \$ 3300.00  |          |
| trailers at 125/mo= 3x125x2=                                                                                          | \$ 750.00   |          |
| Transport Hondas: Yukon Freightways                                                                                   | \$ 860.00   |          |
| Airfreight; maps, books, etc.                                                                                         | \$ 139.20   |          |
| Airfare: P.Ramaekers, R.Klettl                                                                                        | \$ 1393.00  |          |
| Travel to Yukon by R.Klettl                                                                                           | \$ 350.00   |          |
| Equipment; as per Neville-Crosby invoices 53278, 01615-01618                                                          | \$ 7581.40  |          |
| Expenses in Yukon as per P.O. B3701 to B3708 (except B3705)                                                           | \$ 3069.20  |          |
| Board and food at Silverhart Camp at \$45/manday for 2 people<br>from August 10 to Sept. 23 for a total of 75 mandays | \$ 3375.00  |          |
| Salaries: P. Ramaekers 89 days at 187.50/day                                                                          | \$ 16687.50 |          |
| R. Klettl 67 days at 118.75/day                                                                                       | \$ 7956.25  |          |
| C.Boys 5 days at 131.25/day plus                                                                                      |             |          |
| K.Fyten 6days at 131.25/day                                                                                           | \$ 1443.75  |          |
| Assays (Rossbacher) Invoices 7922, 7938, 7967                                                                         | \$ 1153.80  |          |
| Total                                                                                                                 | \$ 51809.35 | 37735.50 |

Additional costs not given in the original assessment report:

|                                                                                                                         |             |                    |
|-------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| Room and board at Silverhart camp for C. Boys and<br>K. Fyten for 11 person days in total at<br>\$ 45.00 per person day | \$ 495.00   |                    |
| Cost of repairing the leased Honda ATVs                                                                                 | \$ 746.95   |                    |
| Cost of returning Honda ATVs to Edmonton                                                                                | \$ 400.00   |                    |
| Cost of producing the assessment report                                                                                 | \$ 176.01   |                    |
| Contract fee for finishing report<br>3 days at \$ 137.93 per day                                                        | \$ 413.79   |                    |
| Cost of preparing base maps<br>Alberta Cartographics; invoice # 1254a                                                   | \$ 1912.00  |                    |
| Total additional costs                                                                                                  | \$ 4143.75  | \$ 4143.75 3743.75 |
| Total costs of field work carried out in 1987                                                                           | \$ 55953.10 |                    |

Credits for trenching:

|                                                                                                                               |              |           |
|-------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Trenching: 54700 cubic yards as per notes on Map 6 of the<br>assessment report                                                | \$ 54700.00  | 54 700.00 |
| Note that the figures on Map 6 are correct, but<br>that the total of 43900 cubic yards used within<br>the report is in error. |              |           |
| Total value of representation work available                                                                                  | \$ 110653.10 | 96 179.25 |

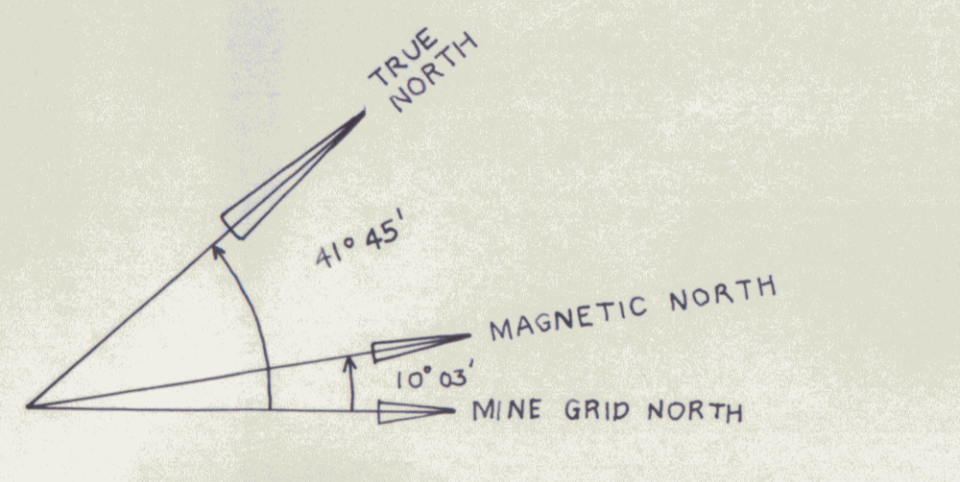
Renewal is requested for 793 CAR claims for a total of 1102  
claim-years. At \$ 100.00 per claim year this requires \$ 110200.00  
which is less than the value of representation work available.  
Renewals for CAR claims are requested as indicated on the attached list.

This amended cost statement is certified correct by  
this 9th day of December, 1987.

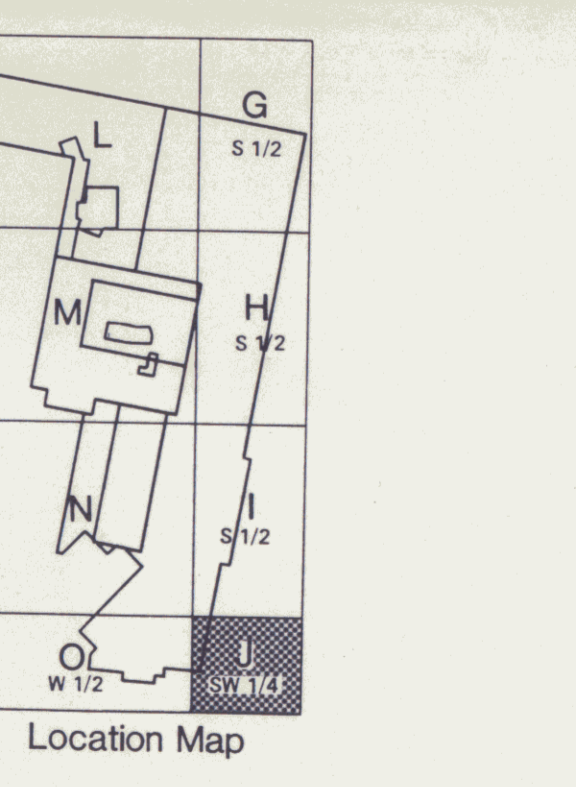
*Paul Ramaekers*

*Note that the CAR 15-30 and CAR 1006  
work credits (35 claim years) are already  
covered by P.A. Hawkins report 091990.*

091992



- LEGEND
- Outcrop - only shown with significance for mineral exploration and claims
  - Mineralized showing
  - Mineralized showing with areas of more intense mineralization
  - Building - strike and dip
  - Vein - strike and dip
  - Tect. Features - strike and dip
  - Fault - observed, strike and dip of fault plane. Arrow and associated number show plunge, dip-slip and sense of displacement.
  - Fault - inferred from topography
  - Axis of Symmetry
  - Trench - with description of material removed



Scale in Feet  
0 1000 2000 4000

SILVER HART MINES LTD.  
HART SILVER PROPERTY, YUKON TERRITORY

**O, J**  
**SW 1/4** (197)

GEOLOGY BY: Paul Remondet  
DRAWN BY: [blank]  
APPROVED BY: [blank]

SCALE: 1:15,000  
DATE: 2/1/97  
DRAWING NO.: MAP 1

091092

126000E

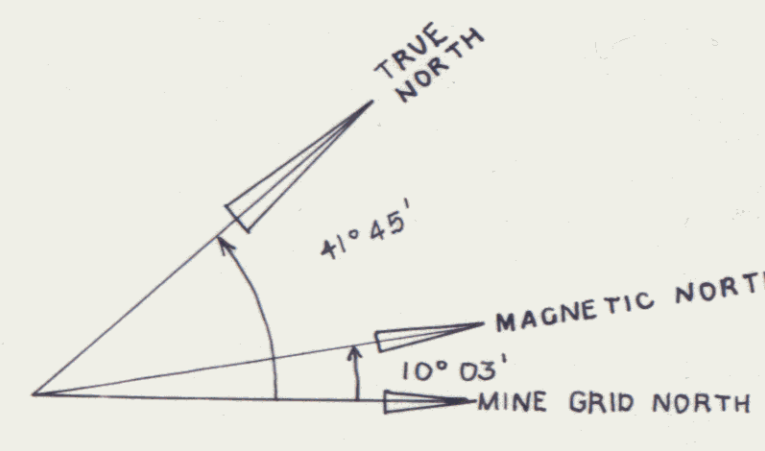
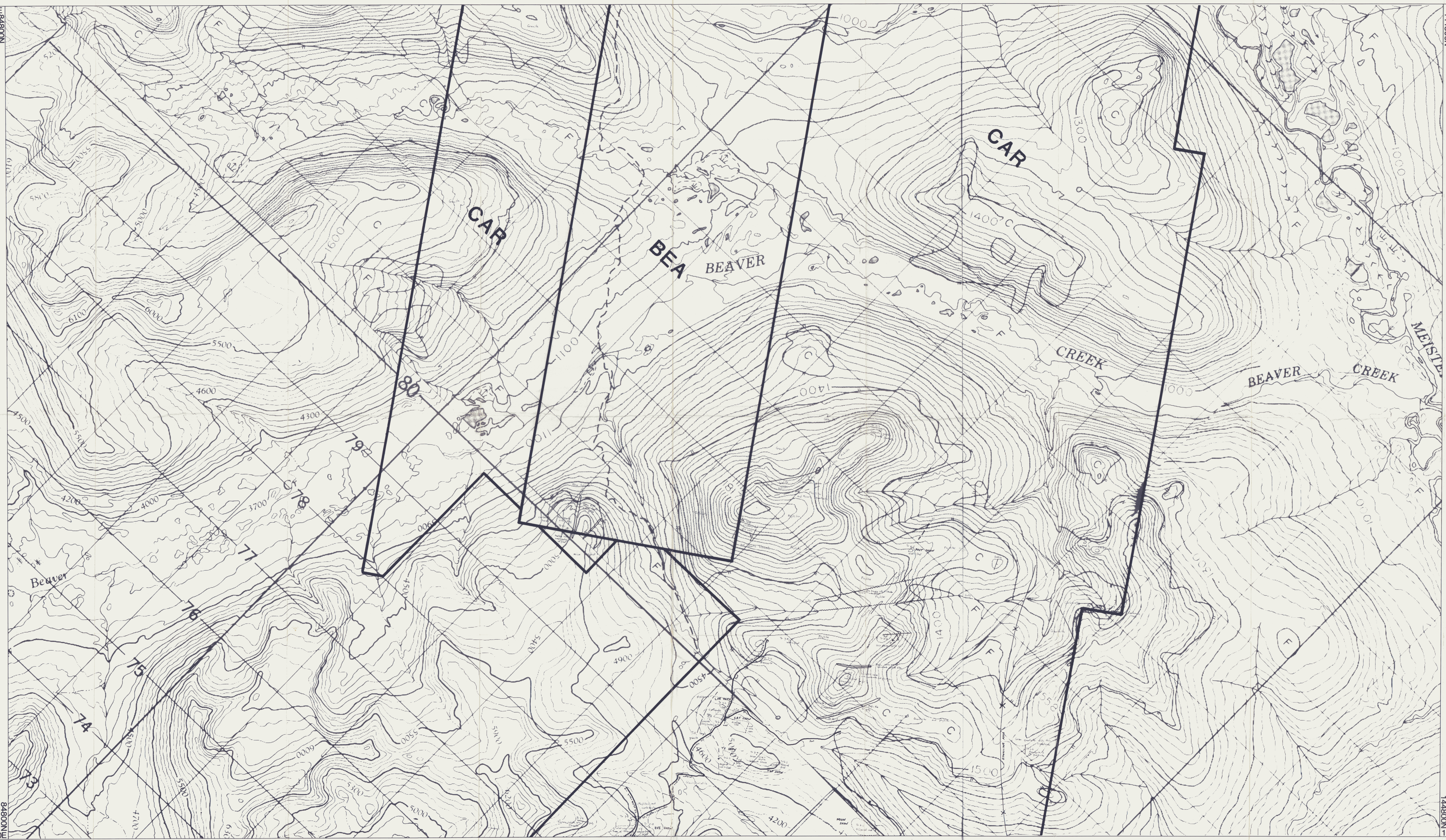
126000E

N40898

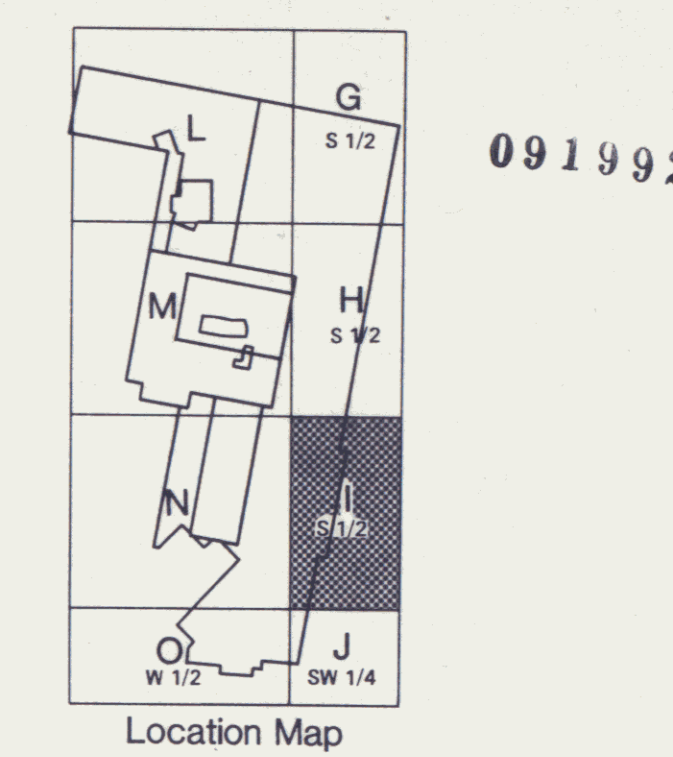
N40898

161000E

161000E



- LEGEND
- Outcrop - only those with significance for mineral exploration are shown
  - Mineral claim
  - Mineral claim with area of mineral extraction
  - Bedding, strike and dip
  - Vein, strike and dip
  - Tuff, fracture, strike and dip
  - Fault, observed, strike and dip of fault plane
  - Fault, inferred from topography
  - Axis of symmetry
  - Trench, with description of material removed



Scale in Feet

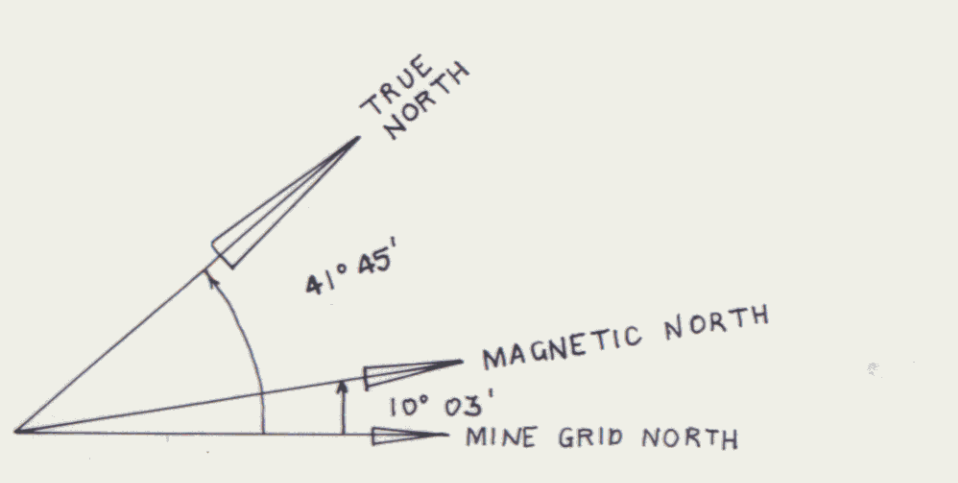
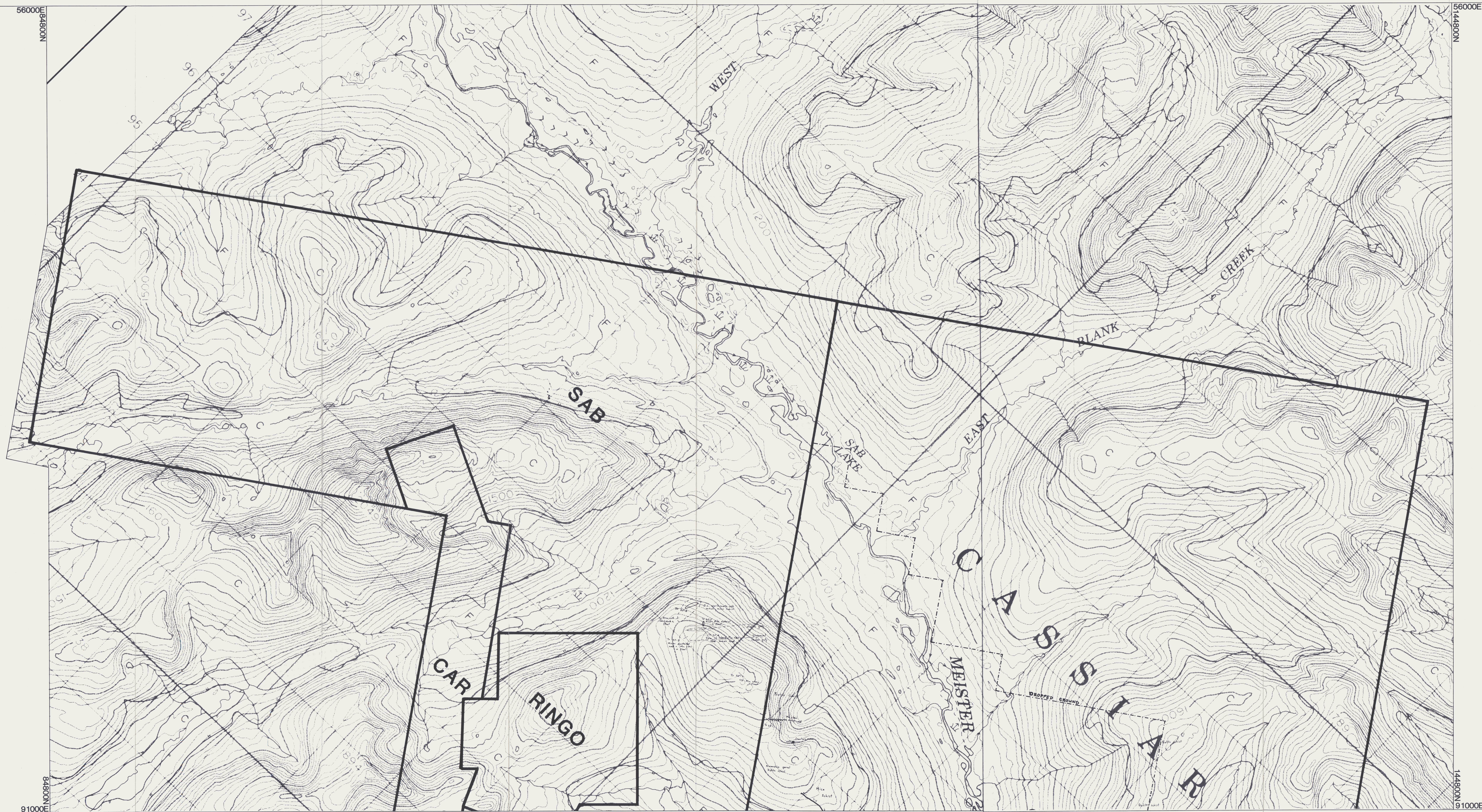
SILVER HART MINES LTD.  
HART SILVER PROPERTY, YUKON TERRITORY

N 1  
S 1/2

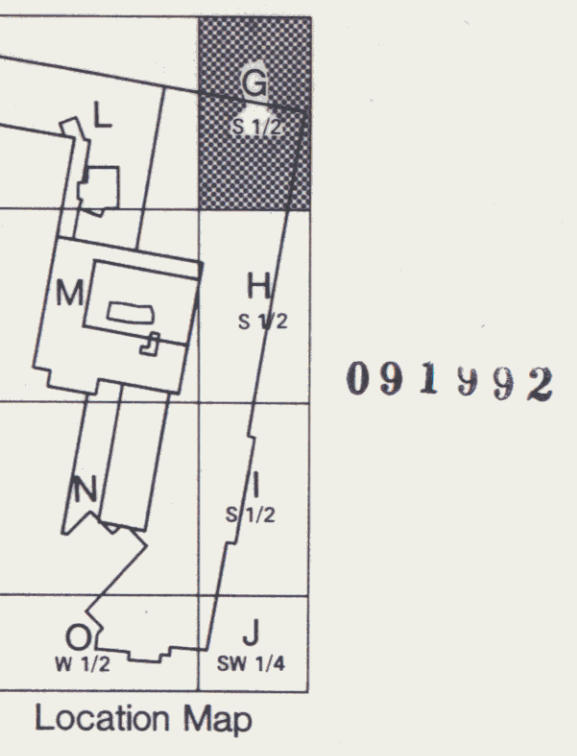
GEOLOGY BY: P. J. KENNEDY  
DRAWN BY: P. J. KENNEDY  
APPROVED BY: P. J. KENNEDY

SCALE: 1:10,000  
DATE: 04-01-1992  
DRAWING NO.: PAF 5





- LEGEND
- Cutting - with thickness of significance for mineral exploration assumed
  - Mineralized plating with areas of more intense mineralization
  - Bedding, strike and dip
  - Walls, strike and dip
  - Faults, faulting, strike and dip
  - Fault observed, strike and dip of fault plane
  - Strike-slip fault
  - Fault inferred from topography
  - Squaring Area
  - Track, with description of material removed
  - Limit of Mapped Ground



Scale in Feet

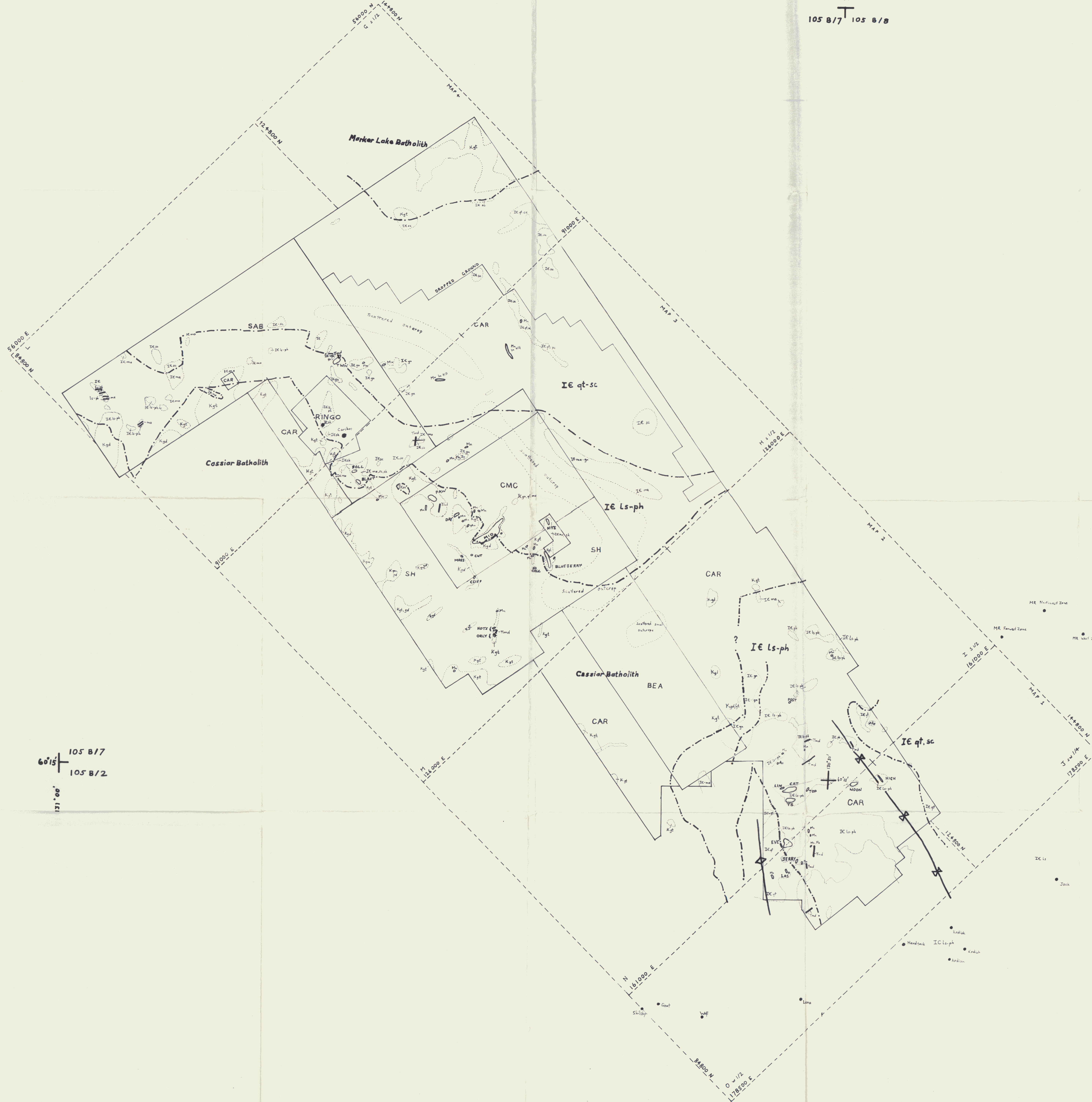
SILVER HART MINES LTD.  
HART SILVER PROPERTY, YUKON TERRITORY

L, G  
S 1/2

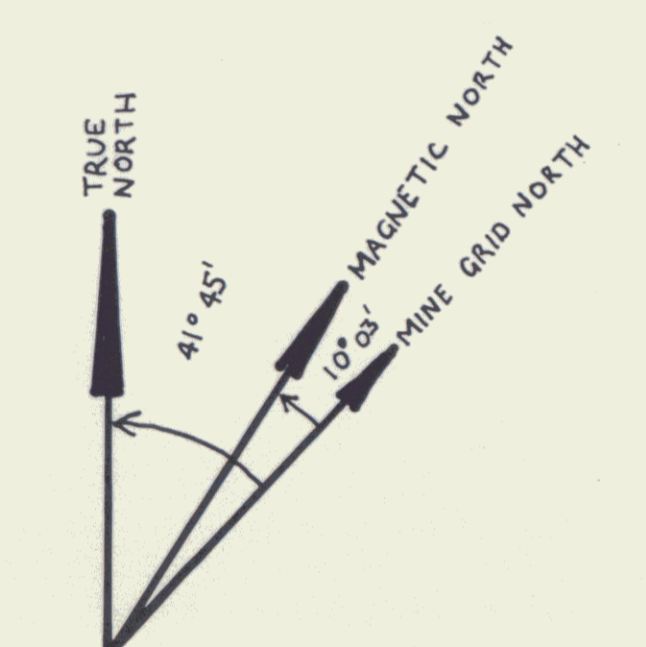
GEOLOGY BY: Paul Rasmussen  
SCALE: 1:12,000  
DRAWN BY: [Signature]  
DATE: 02-14-97  
APPROVED BY: [Signature]  
DRAWING NO.: 1004

60° 30' 131° 00'

130° 30'  
105 B/7 105 B/8



105 B/7  
60° 15' 131° 00'  
105 B/2



**LEGEND**

- Bedrock outcrop
- Lithologic boundary, approximate
- Anticline
- Syncline
- Mineral prospect and name under which it is described in this report
- Mineral prospect from the literature; not on Hart Silver ground
- Mineral prospect; small showing; not described in detail; with chemical symbol if the most abundant of interest.
- Boundary of claim blocks
- Limits of Detailed maps and mine grid coordinates

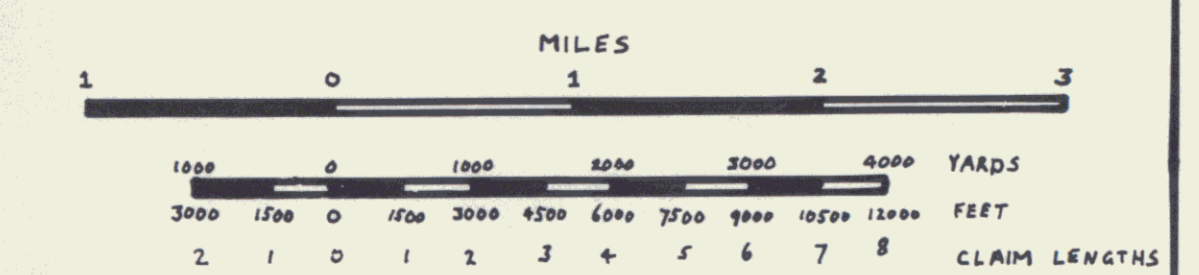
**LITHOLOGY**

- Tertiary; mafic dike
- Kgt Cretaceous; granite
- Kgm " ; quartz monzonite
- Kgt " ; granodiorite
- IE ls Cambrian; limestone
- IE ph " ; phyllite
- IE ls-ph " ; interbedded phyllite and limestone
- IE qt " ; quartzite
- IE sh " ; schist
- IE gn " ; gneiss
- IE ma " ; marble
- IE sh " ; shales, calc-silicates

**MINERALIZATION**

- Pb Lead
- Zn Zinc
- Mn Manganese stain and/or Mn oxide vein material
- As Arsenic

091992



SILVER HART MINES LTD.  
HART SILVER PROPERTY, YUKON TERRITORY

COMPILATION OF GEOLOGICAL SURFACE DATA  
AND  
RESULTS OF REGIONAL EVALUATION STUDY, 1987

GEOLOGY BY: P. Romackus 1987 SCALE: 1:50,000  
SR Amulkin, G.W. Levey 1986, 1985 DATE: Oct 29, 1987  
Fosler, W. 1981-1982 MAP NO.: 5

