

GEOCHEMICAL, GEOPHYSICAL
&
DIAMOND DRILLING
REPORT

on the

SNO MINERAL CLAIMS
CLINTON MINING DIVISION

NTS 92P/2W

LAT: 51°05'N LONG: 120°53'W

CLAIM OWNER: Mr. M. Dickens, Savona, B.C.

OPERATOR: Newhawk Gold Mines Ltd. (N.P.L.)

AUTHOR: Mr. G.R. Thomson, B.Sc., Geologist

DATE OF WORK: OCTOBER 27, 1980 to May 25, 1981

DATE SUBMITTED: June 1981

part 2
1 of 2

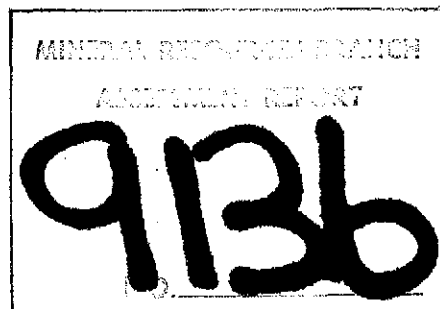


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APPENDICES

APPENDIX I - DIAMOND DRILL HOLE ASSAY RESULTS

APPENDIX II - DIAMOND DRILL CORE LOGS

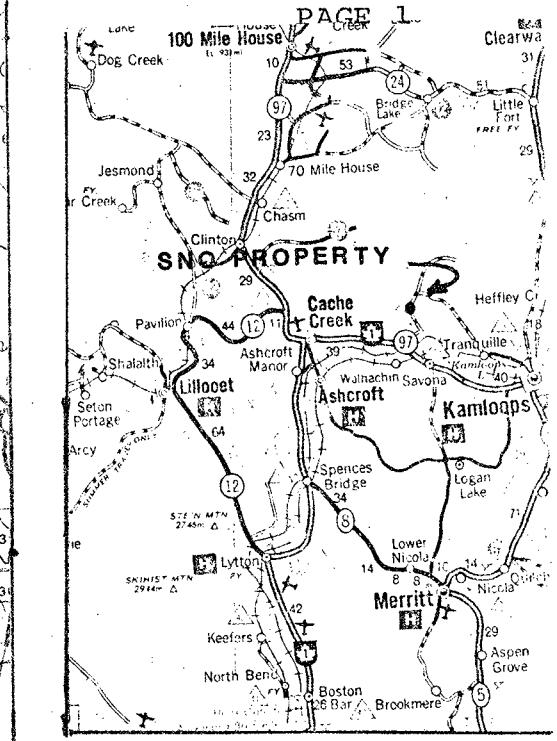
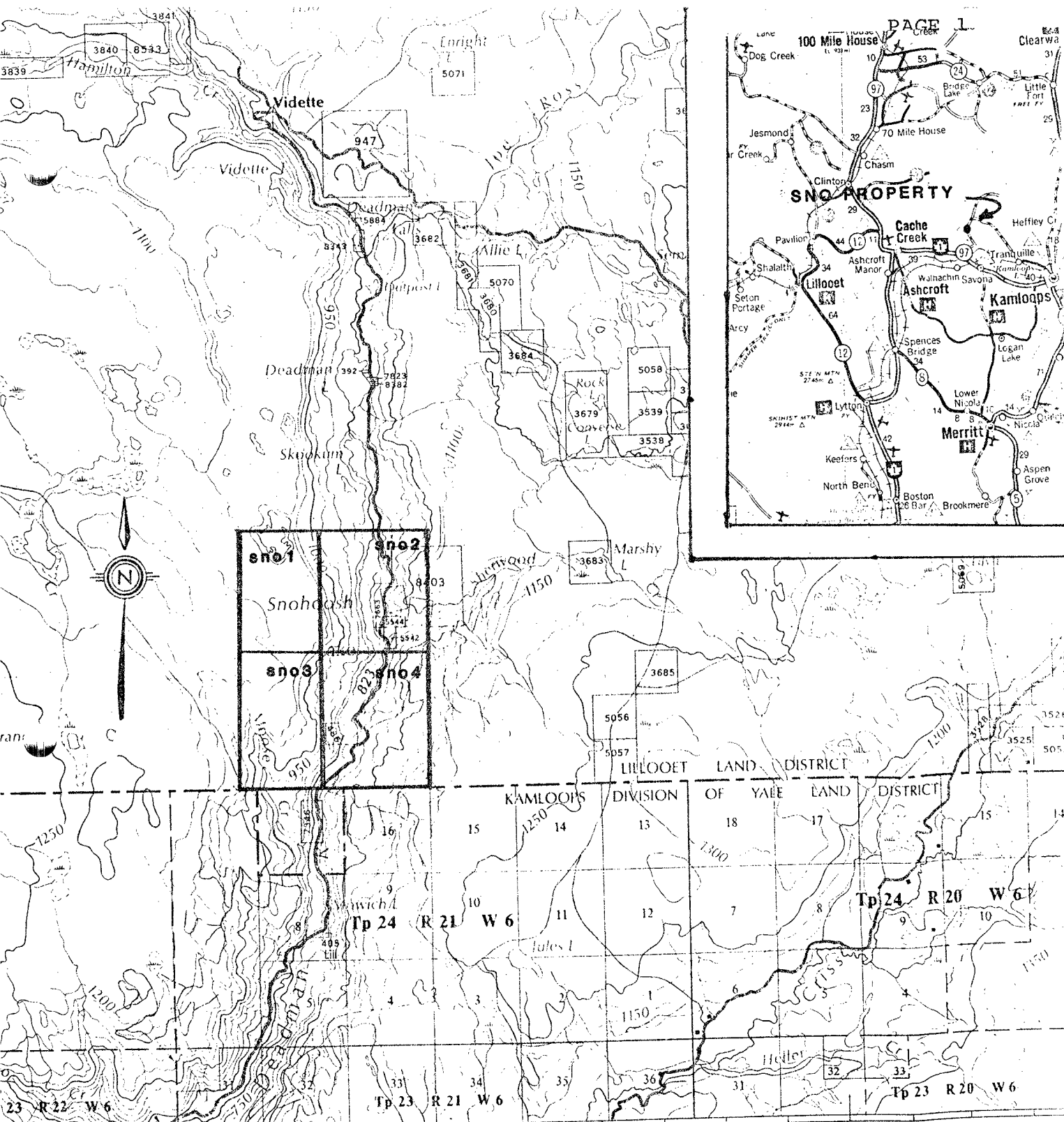
APPENDIX III - CONSULTING REPORTS

i) Geochemical - Geophysical Report
Glen E. White - December 22, 1980

ii) Geophysical Report - VPEM
Glen E. White - March 12, 1981

APPENDIX IV - STATEMENT OF COSTS

APPENDIX V - STATEMENT OF QUALIFICATIONS



Scale 1:100 000
(1 cm = 1 km)

| | |
|-------------------------|----------------|
| NEWHAWK GOLD MINES LTD. | |
| SNO PROPERTY | |
| LOCATION MAP | |
| Drawn by: G.R.T. | Date: May 1981 |
| N.T.S. 92P/s.e. | Figure No. 1 |

LOCATION & ACCESS

The Sno claim group is located along the west and east banks of Snohoosh Lake. Snohoosh Lake is one of a chain of north-south trending lakes which form part of the Deadman River Valley. The Deadman Valley cuts through a region of Miocene and/or Pliocene Age plateau basalts. In the area of Snohoosh Lake, the plateau basalts are underlain by greenstones belonging to the Nicola Group of Triassic Age.

The claim area is generally timbered with small pine and fir. Valley sides are fairly steep with slope angles of between 20° to 40° rising to the fairly flat lying basalt at an elevation of approximately 1066 m. Lake elevation is 823 metres.

The Sno claim area is accessible by gravel road which runs 40 km. North from Highway 97, along the valley of Deadman River. The Deadman River road leaves Highway 97, 6 km. west of the town of Savona, B.C. Savona is a small town at the west end of Kamloops Lake and is located 54 km. west of the city of Kamloops, B.C.

The mineral showings and diamond drill workings are best reached by driving to the east side of Snohoosh Lake and then by boat to the west side of the lake. This area may also be reached with greater difficulty by following an old logging road which leaves the Deadman Road, .5 km. South of Mowich Lake.

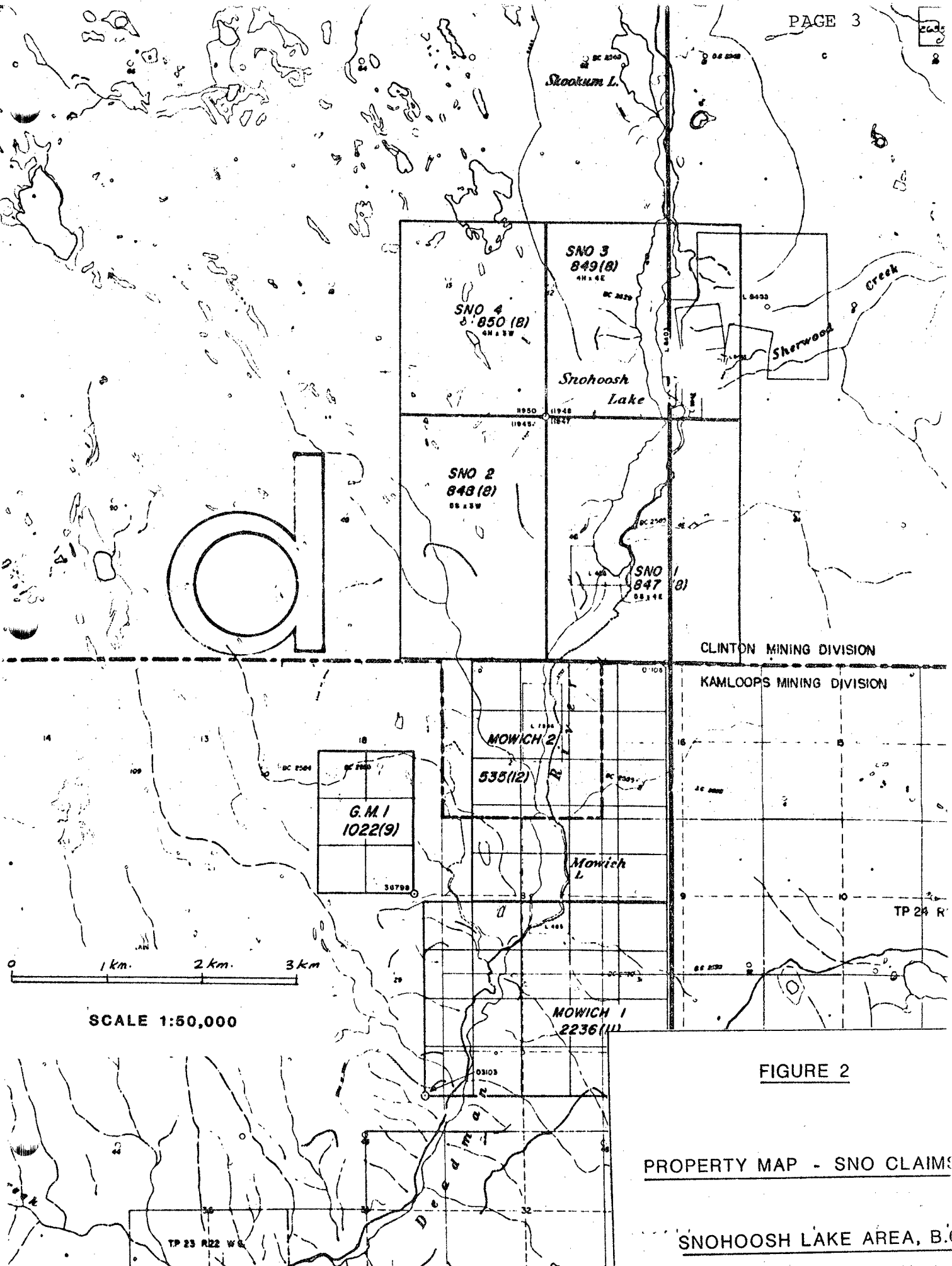


FIGURE 2

PROPERTY MAP - SNO CLAIMS

SNOHOOSH LAKE AREA, B.C.

CAPSULE GEOLOGY

K20, 4.44 per cent Na₂O, 1.3 per cent Fe₂O₃, 1.96 per cent CaO and 0.38 per cent MgO. The Al₂O₃ and K₂O levels are within the range of commercial glass grade or ceramic material; the iron content however, is excessive for such material. Initial testing by Ore Sorters (North America) was unsuccessful in reducing the iron content to less than 0.1 per cent Fe₂O₃ by magnetic separation.

Michael Resources Ltd. carried out trenching, bulk sampling and 582 metres of diamond drilling in 1989 in order to assess the feldspar potential of the deposit. Drilling indicates a potential for 3.6 million tonnes of feldspar-bearing material at the proposed quarry site (Industrial Mineral File - Press Release, Michael Resources Ltd., October 5, 1989; Open File 1992-1).

BIBLIOGRAPHY

- EMPR ASS RPT 21897
- EMPR MAP 65 (1989)
- EMPR OF *1991-10; 1992-1; 1992-9
- EMPR PF (Claim map, 1989; Micheal Resources Ltd., Press Release, June 22, 1989; Kamloop News - July 2, 1989)
- EMPR P 2001-1
- GSC MAP 3-1966; 1293A; 1278A
- GSC MEM 363
- GSC OF 11; 637
- GCNL #104, 1989
- *Press Release, Michael Resources Ltd., Oct.5, 1989

DATE CODED: 1990/10/29
DATE REVISED: 2001/01/19

CODED BY: GO
REVISED BY: RHM

FIELD CHECK: N
FIELD CHECK: N

8342
8420
9136

1205 22
134 32

14257

17319

18726

19157
193604
19411
19780

22221
22546

DESCRIPTION OF CLAIMS

The Sno property consists of the following claims:

| <u>NAME</u> | <u>UNITS</u> | <u>RECORD NO.</u> | <u>RECORDED</u> |
|-------------|--------------|-------------------|-----------------|
| Sno 1 | 20 | 847 | August 5, 1980 |
| Sno 2 | 15 | 848 | August 5, 1980 |
| Sno 3 | 16 | 849 | August 5, 1980 |
| Sno 4 | 12 | 850 | August 5, 1980 |

These claims form a block of 63 units, 9 units north-south and 7 units east-west. They were staked by Mr. M. Dickens, Box 116, Savona, B.C.

HISTORY OF THE PROPERTY

Until the time of staking by M. Dickens in 1980, there has been no known mineral exploration work done in the vicinity of Snohoosh Lake.

There has been some interest in a deposit of pozzolan volcanic ash located on the east side of Snohoosh Lake in the vicinity of Sherwood Creek. The deposit has been estimated at 15 million tons and has been suggested as a possible source of abrasive material. There has been no economic development of this deposit and little or no activity since 1959.

Approximately 11 km. north of the Snohoosh showing is the Vidette Lake gold mine which produced gold, silver and copper from 1932 to 1940. Mineralization occurred in quartz veins in

Nicola Formation greenstones.

WORK CONDUCTED (1980, 1981)

Following the discovery of visible chalcopyrite and molybdenite mineralization in skarn - metavolcanic rocks belonging to the Nicola Group, an examination of the property was made by Consultant J. W. MacLeod, P. Eng.

On the recommendations of Mr. MacLeod, a program of geochemical and geophysical surveys was contracted to Glen E. White, Geophysical Consulting and Services Ltd. Over the periods October 27 to November 12, 1980 and February 25 to March 4, 1981 a program of soil sampling, magnetometer and electromagnetometric surveys were carried out over a 12 km. survey grid.

Over the period April 27 to May 25, 1981 a program of BQ diameter diamond drilling was carried out to evaluate the anomalous area indicated by the geochemical - geophysical surveys. Drilling was also carried out to evaluate bedrock in the vicinity of the lakeshore mineral showings, where scarcity of rock outcrop necessitated such a drilling program.

WORK SUMMARY

- a) Geochemical survey
236 soil samples analysed for copper, molybdenum, silver and zinc.
- b) Geophysical survey
 - i) 12 km. of Magnetometer survey
 - ii) 12 km. of Electromagnetometric survey
 - iii) 12 km. of Induced Polarization survey

- iv) 3.325 km. of Vector Pulse Electromagnetic survey
- v) Drilling - 5 holes of BQ diamond drilling totalling 666 metres.

SUMMARY & RECOMMENDATIONS

Minor and sporadic occurrences of chalcopyrite and molybdenite mineralization have been found along the west shore of Snohoosh Lake in weathered, altered volcanic greenstone of the Nicola Group.

As a result of this mineralization and lack of exposed rock outcrop, a followup program of geochemical soil sampling, geophysical surveys and diamond drilling was carried out in 1980 and 1981.

These surveys indicated a strong chargeability anomaly trending northwest under Snohoosh Lake. In addition, two weaker conductive trends and possibly associated with fault zones were observed to coincide with copper and zinc soil geochemistry anomalies and induced polarization defined chargeability highs.

On the basis of known mineralization as well as indicated geochemical - geophysical anomalies a program of diamond drilling was carried out in April/May, 1981 by F. Boisvenu Drilling Ltd. Of the total diamond drill core examined, the general geology consisted primarily of carbonate-silicate altered fine grained augite greenstones belonging to the Nicola Group. The rocks are generally highly fractured with chloritized fracture planes and moderate to

abundant calcite veinlets. These volcanics are pervasively mineralized with pyrite and lesser pyrrhotite (.5-10%). One drill hole showed isolated occurrences of molybdenite in garnetiferous calc-greenstone with very minor disseminated chalcopyrite. No mineralization of economic significance was seen throughout any of the other drill hole sections. Gold and silver values were also considered to be of sub-economic value.

It is apparent that conductive lineaments as outlined by the geophysical surveys are caused by graphitic bearing shear zones and/or shear zones of higher concentration pyrite-pyrrhotite mineralization.

On the basis of lack of economic mineralization in any of the drill holes, no further work is recommended on the Sno mineral claims at this time.

APPENDIX I

DIAMOND DRILL HOLE ASSAY RESULTS



KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

2095 WEST TRANS CANADA HIGHWAY — KAMLOOPS B.C.
V1S 1A7

PHONE: (604) 372-2784 — TELEX: 048-8320

CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Newhawk Gold Mines

1450 - 625 Howe Street

Vancouver, B.C. V6C 2T6 ATTENTION: MR. F. HEWETT

Certificate No. K-3976

Date May 13, 1981

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

| Kral No. | Marked | GOLD | SILVER | Cu | | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1 | 1751 | .001 | TR | .01 | | | | | | |
| 2 | 1752 | .001 | .01 | .01 | | | | | | |
| 3 | 1753 | .001 | .04 | TR | | | | | | |
| 4 | 1754 | .001 | .04 | .01 | | | | | | |
| 5 | 1755 | TR | .02 | .01 | | | | | | |
| 6 | 1756 | TR | .06 | .01 | | | | | | |
| 7 | 1757 | TR | .04 | TR | | | | | | |
| 8 | 1758 | TR | .02 | .01 | | | | | | |
| 9 | 1759 | TR | .01 | TR | | | | | | |
| 10 | 1760 | TR | .03 | TR | | | | | | |
| 11 | 1761 | TR | .02 | .01 | | | | | | |
| 12 | 1762 | TR | .01 | TR | | | | | | |
| 13 | 1763 | TR | .03 | TR | | | | | | |
| 14 | 1764 | TR | .04 | TR | | | | | | |
| 15 | 1765 | TR | .01 | TR | | | | | | |
| 16 | 1766 | TR | .02 | .01 | | | | | | |
| 17 | 1767 | TR | .04 | TR | | | | | | |
| 18 | 1768 | TR | .02 | .01 | | | | | | |

NOTE:
Rejects retained three weeks.
Pulps retained three months
unless otherwise arranged.



 Registered Assayer, Province of British Columbia



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PHONE: (604) 372-2784 — TELEX: 048-8320

CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Newhawk Gold Mines

1450 - 625 Howe Street

Vancouver, B.C. V6C 2T6 ATTENTION: MR. F. HEWETT

Certificate No. K-3993

Date May 20, 1981

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

| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1 | 1824 | .001 | .23 | .02 | TR | | | | | |
| 2 | 1825 | .001 | .21 | .01 | .003 | | | | | |
| 3 | 1826 | .001 | .25 | .01 | .001 | | | | | |
| 4 | 1827 | .001 | .22 | .01 | .001 | | | | | |
| 5 | 1828 | .001 | .21 | .01 | .002 | | | | | |
| 6 | 1829 | .001 | .21 | .01 | .002 | | | | | |
| 7 | 1830 | TR | .25 | .01 | .003 | | | | | |
| 8 | 1831 | .001 | .23 | .01 | .004 | | | | | |
| 9 | 1832 | .001 | .24 | .02 | .002 | | | | | |
| 10 | 1833 | .001 | .19 | .01 | .001 | | | | | |
| 11 | 1834 | .001 | .26 | .01 | .002 | | | | | |
| 12 | 1835 | .001 | .26 | .01 | .004 | | | | | |
| 13 | 1836 | .001 | .29 | .02 | .002 | | | | | |
| 14 | 1837 | TR | .27 | .03 | .008 | | | | | |
| 15 | 1838 | .001 | .27 | .01 | .001 | | | | | |
| 16 | 1839 | TR | .26 | .01 | .001 | | | | | |
| 17 | 1840 | TR | .25 | .01 | .001 | | | | | |
| 18 | 1841 | TR | .24 | .01 | .002 | | | | | |
| 19 | 1842 | TR | .52 | .01 | .004 | | | | | |
| 20 | 1843 | TR | .34 | .01 | .004 | | | | | |

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TO Newhawk Gold Mines

Certificate No. K-3993 2

Date May 20, 1981

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| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|----------------|----------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 21 | 1844 | TR | .42 | .01 | .004 | | | | | |
| 22 | 1845 | .001 | .28 | .01 | .004 | | | | | |
| 23 | 1846 | .001 | .24 | .01 | .004 | | | | | |
| 24 | 1847 | .001 | .33 | .01 | .008 | | | | | |
| 25 | 1848 | .001 | .32 | .01 | .015 | | | | | |
| 26 | 1849 | TR | .26 | .01 | .006 | | | | | |
| 27 | 1850 | .002 | .27 | .03 | .008 | | | | | |
| 28 | 1851 | .001 | .27 | .01 | .005 | | | | | |
| 29 | 1852 | .003 | .29 | .04 | .006 | | | | | |
| 30 | 1853 | .002 | .32 | .01 | .013 | | | | | |
| 31 | 1854 | .001 | .36 | .03 | .007 | | | | | |
| 32 | 1855 | .001 | .23 | .01 | .006 | | | | | |

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CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

[Handwritten signature]

NHG - SAC

TO Newhawk Gold Mines Ltd.

1450 - 625 Howe Street

Vancouver, B.C. V6C 2T6

Certificate No. K-4004

Date May 25, 1981

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

| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1 | 1769 | .001 | .26 | .01 | .008 | | | | | |
| 2 | 1770 | .001 | .19 | .01 | .001 | | | | | |
| 3 | 1771 | TR | .19 | .02 | .005 | | | | | |
| 4 | 1772 | .001 | .20 | .01 | .006 | | | | | |
| 5 | 1773 | TR | .21 | .01 | TR | | | | | |
| 6 | 1774 | .001 | .22 | .01 | TR | | | | | |
| 7 | 1775 | .001 | .28 | .02 | .001 | | | | | |
| 8 | 1776 | .001 | .27 | .01 | .001 | | | | | |
| 9 | 1777 | TR | .28 | .02 | .006 | | | | | |
| 10 | 1778 | TR | .22 | .02 | TR | | | | | |
| 11 | 1779 | .001 | .21 | .01 | .001 | | | | | |
| 12 | 1780 | TR | .24 | .01 | TR | | | | | |
| 13 | 1781 | .001 | .21 | .01 | TR | | | | | |
| 14 | 1782 | TR | .21 | .01 | .006 | | | | | |
| 15 | 1783 | TR | .22 | .01 | .005 | | | | | |
| 16 | 1784 | TR | .20 | TR | .002 | | | | | |
| 17 | 1785 | TR | .23 | .01 | .004 | | | | | |
| 18 | 1786 | TR | .23 | .01 | .003 | | | | | |
| 19 | 1856 | TR | .02 | - | - | | | | | |
| 20 | 1857 | .002 | .07 | - | - | | | | | |

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[Handwritten signature]

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V1S 1A7

PHONE: (604) 372-2784 — TELEX: 048-8320

CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Newhawk Gold Mines Ltd.

Certificate No. K-4004 2

Date May 25, 1981

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

| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 21 | 1858 | .021 | .10 | - | - | | | | | |
| 22 | 1859 | .017 | .03 | - | - | | | | | |
| 23 | 1860 | .002 | .07 | - | - | | | | | |
| 24 | 1861 | TR | .07 | - | - | | | | | |
| 25 | 1862 | TR | .09 | - | - | | | | | |
| 26 | 1863 | TR | .03 | - | - | | | | | |
| 27 | 1864 | .078 | .08 | - | - | | | | | |
| 28 | 1865 | .001 | .10 | - | - | | | | | |

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NHG - SNO

TO Newhawk Gold Mines Ltd.
1450 - 625 Howe Street
Vancouver, B.C. V6C 2T6

Certificate No. K-3989

Date May 25, 1981

ATTENTION: MR. F. HEWETT

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

| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1 | 1787 | .001 | .20 | .03 | .023 | | | | | |
| 2 | 1788 | TR | .23 | .02 | .005 | | | | | |
| 3 | 1789 | .001 | .17 | .02 | .008 | | | | | |
| 4 | 1790 | .002 | .20 | .04 | .003 | | | | | |
| 5 | 1791 | .001 | .17 | .02 | .004 | | | | | |
| 6 | 1792 | .001 | .23 | .02 | .004 | | | | | |
| 7 | 1793 | .001 | .18 | .02 | .004 | | | | | |
| 8 | 1794 | .001 | .21 | .02 | .005 | | | | | |
| 9 | 1795 | .001 | .22 | .02 | .005 | | | | | |
| 10 | 1796 | .001 | .20 | .02 | .006 | | | | | |
| 11 | 1797 | .001 | .20 | .02 | .001 | | | | | |
| 12 | 1798 | .001 | .21 | .01 | .002 | | | | | |
| 13 | 1799 | .001 | .29 | .01 | .004 | | | | | |
| 14 | 1800 | .001 | .26 | .01 | .007 | | | | | |
| 15 | 1801 | .001 | .25 | .02 | .005 | | | | | |
| 16 | 1802 | .001 | .30 | .02 | .002 | | | | | |
| 17 | 1803 | TR | .28 | .04 | .003 | | | | | |
| 18 | 1804 | TR | .31 | .01 | .002 | | | | | |
| 19 | 1805 | TR | .24 | .01 | .002 | | | | | |
| 20 | 1806 | TR | .23 | .01 | .006 | | | | | |

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PHONE: (604) 372-2784 — TELEX: 048-8320

CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

TO Newhawk Gold Mines Ltd.

Certificate No. K-3989 2

Date May 25, 1981

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

| Kral No. | Marked | GOLD | SILVER | Cu | Mo | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 21 | 1807 | TR | .28 | .04 | .003 | | | | | |
| 22 | 1808 | .001 | .26 | .02 | .004 | | | | | |
| 23 | 1809 | .001 | .22 | .01 | .003 | | | | | |
| 24 | 1810 | .001 | .19 | .02 | .061 | | | | | |
| 25 | 1811 | TR | .26 | .03 | .015 | | | | | |
| 26 | 1812 | .001 | .24 | .01 | .174 | | | | | |
| 27 | 1813 | .001 | .20 | .02 | .005 | | | | | |
| 28 | 1814 | TR | .29 | .01 | .019 | | | | | |
| 29 | 1815 | .001 | .23 | .01 | .052 | | | | | |
| 30 | 1816 | .001 | .22 | .02 | .005 | | | | | |
| 31 | 1817 | .001 | .20 | .02 | .003 | | | | | |
| 32 | 1818 | .001 | .22 | .01 | .007 | | | | | |
| 33 | 1819 | TR | .21 | .02 | .019 | | | | | |
| 34 | 1820 | TR | .27 | .02 | .002 | | | | | |
| 35 | 1821 | .001 | .25 | .03 | .031 | | | | | |
| 36 | 1822 | TR | .23 | .01 | .005 | | | | | |
| 37 | 1823 | TR | .27 | .01 | .004 | | | | | |

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unless otherwise arranged.

Registered Assayer, Province of British Columbia



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2095 WEST TRANS CANADA HIGHWAY — KAMLOOPS B.C.

V1S 1A7

PHONE: (604) 372-2784 — TELEX: 048-8320

CERTIFICATE OF ASSAY

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

NHG - SN²

TO Newhawk Gold Mines Ltd.

1450 - 625 Howe Street

Vancouver, B.C. V6C 2T6 ATTENTION: MR. F. HEWETT

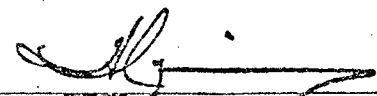
Certificate No. K-4047

Date May 29, 1981

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

| Kral No. | Marked | GOLD | SILVER | Mo | | | | | | |
|----------|--------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|
| | | Ounces Per Ton | Ounces Per Ton | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1 | 1866 | TR | .28 | .004 | | | | | | |
| 2 | 1867 | .002 | .16 | .004 | | | | | | |
| 3 | 1868 | TR | .14 | .004 | | | | | | |
| 4 | 1869 | TR | .13 | .005 | | | | | | |
| 5 | 1870 | TR | .14 | .042 | | | | | | |
| 6 | 1871 | TR | .09 | - | | | | | | |
| 7 | 1872 | TR | .11 | - | | | | | | |
| 8 | 1873 | TR | .08 | - | | | | | | |
| 9 | 1874 | TR | .09 | - | | | | | | |
| 10 | 1875 | TR | .05 | - | | | | | | |
| 11 | 1876 | .001 | .05 | - | | | | | | |

NOTE:
Rejects retained three weeks.
Pulps retained three months
unless otherwise arranged.


Registered Assayer, Province of British Columbia

APPENDIX II

DIAMOND DRILL CORE LOGS

DIAMOND DRILL RECORD

PROPERTY SNO

HOLE NO. 81-2

SHEET NUMBER 1

SECTION FROM 0 TO 38.6

STARTED MAY 3/81

LATITUDE _____

DATUM _____

COMPLETED MAY 7/81

DEPARTURE _____

BEARING 100°

ULTIMATE DEPTH 196.9 m.

ELEVATION 873 m

DIP -50°

PROPOSED DEPTH _____

| DEPTH-FEET M. | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD g | SLUDGE GOLD g |
|---------------|---|--|--|--------|---------------|
| 0-17.37 | OVERBURDEN - FRACTURED f.g. siliceous basalt. | | | | |
| 17.37-36.4 m. | Green siliceous, garnetiferous, calcareous volc. breccia - moderately fractured. quartz + proxene 60-70% garnet - 20-50% abundant CaCO ₃ veinlets (1mm-1cm) minor quartz veinlets. - minor blebs + disseminations of arsenopyrite pyrite, pyrrhotite (.5-1%). softer portions of rock usually show a strong garnet - calcite - chlorite alteration | 1751 1752 1753 1765 | 18-19 32-33 | | |
| 36.4-38.6 | Grey green, mod. fractured greenstone - mod. CaCO ₃ veining - very minor garnet alteration - diss. pyrrhotite pyrite (1-2%) | 1769 1770 1771 | 33-34 34-35 35-36 | | |

DIAMOND DRILL RECORD

PROPERTY SND HOLE NO. 81-2

SHEET NUMBER 2 SECTION FROM 38.6 TO 54.2 STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

| DEPTH - METERS | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD g | SLUDGE GOLD g |
|----------------|--|------------|-----------------|--------|---------------|
| 38.6-44.5 | Grey green siliceous f.g. gneiss | 1777 | 38-40 | | |
| | - alternating with minor zones of | 1778 | 40-41 | | |
| | garnet - calcite - chlorite (0.5 - 1 m. in width) | 1779 | 41-42 | | |
| | | 1776 | 42-43 | | |
| | disseminated pyrrhotite, pyrite (2-5%) | 1775 | 43-44 | | |
| | - minor sp. | 1777 | 44-45 | | |
| | bleb MoS ₂ (.5mm) seen @ 38.6m in Garnet - | | | | |
| | calcite - chlorite rock - bleb in CaCO ₃ veinlets | | | | |
| | - bleb visible in calc - garnet rock @ | | | | |
| | 43.5m | | | | |
| 44.5m - | f.g. grey green siliceous greenstone | 1778 | 45-46 | | |
| 54.2 | with some garnet - calcite chlorite | 1779 | 46-47 | | |
| | alteration. | 1780 | 47-48 | | |
| | - section shows abundant fracturing & | 1781 | 48-49 | | |
| | slickenside surfaces | 1782 | 49-50 | | |
| | - moderate calcite veinlets | 1783 | 50-51 | | |
| | - disse. pyrite + pyrrhotite (1-2%) | 1784 | 51-52 | | |
| | | 1785 | 52-53 | | |
| | | 1786 | 53-54 | | |

DIAMOND DRILL RECORD

PROPERTY SNO

HOLE NO. 81-2

SHEET NUMBER 5

SECTION FROM 71.93 TO 88.72

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|------------|---|------------|-----------------|---------|----------------|
| 71.93 - | Mottled siliceous, garnetiferous, calcareous | 1805 | 72-73 | | |
| 72.43 | altered greenstone - no sulphides | | | | |
| 72.43 - | Altered greenstone, calc. veining | | | | |
| 72.93 m. | | | | | |
| 72.93m - | Highly altered garnetiferous, chloritic | 1806 | 73-74 | | |
| 88.72 m. | greenstone - in places highly chloritized also calcite veining - some wider veins are vuggy (e.g. 5cm @ 79.3m.) | 1807 | 74-75 | | |
| | | 1808 | 75-76 | | |
| | | 1809 | 76-77 | | |
| | | 1810 | 77-78 | | |
| | * MoS blebs noted at 73.60 m. | 1811 | 78-79 | | |
| | 74.98 m. | 1812 | 79-80 | | |
| | 77.0 m. | 1813 | 80-81 | | |
| | 77.7 m. | 1814 | 81-82 | | |
| | * at 78.95m large blebs MoS 10-15% with associated pyrite over 20 cm. in highly garnetiferous competent rock | 1815 | 82-83 | | |
| | | 1816 | 83-84 | | |
| | | 1817 | 84-85 | | |
| | | 1818 | 85-86 | | |
| | | 1819 | 86-87 | | |
| | | 1820 | 87-88 | | |

DIAMOND DRILL RECORD

PROPERTY SNO

HOLE NO. 81-2

SHEET NUMBER 6

SECTION FROM 88.72 TO 90.0

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|---------------------|---|------------|-----------------|---------|----------------|
| 79.35 m | MoS blobs associated with 1 mm CaCO ₃ veins in matrix garnetiferous groundmass over 10 cm. | | | | |
| 80.10 m - 80.50 | Siliceous greenstone mass. pyroxene, pyrrhotite (2-4 %) | | | | |
| 81.23 m. | 5-10% MoS over 0.1 m. in altered garnetiferous groundmass | | | | |
| 85.9 - 86.0 | massive MoS in green f.g. Siliceous, garnet zone MoS is massive over 3 cm. | | | | |
| 87.17 m | Serpentine veinlet 2 cm wide parallel to C.A. | | | | |
| 88.72 - 89.92 m. | Highly altered zone of Calcareous, garnet greenstone - calcite showing brecciated texture in places | 1822 | 89-90- | | |
| 89.92 - 90.0 m. | - MoS ₂ in garnet, calcite, chloritic zone in contact with 3 cm vein of CaCO ₃ @ 65° to C.A. | | | | |

DIAMOND DRILL RECORD

PROPERTY SMD

HOLE NO. 81-2

SHEET NUMBER 8

SECTION FROM 108.66 TO 145.0

STARTED 8

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE No. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|-----------------|---|-----------------|--|---------|----------------|
| 108.66 - 122 m. | Siliceous - f.g. purplish - green greenstone with interbanded zones of garnet - calcite - chlorite alteration (garnet phenocrysts set in calcite - diopside matrix) | 1842 | 119-120 | | |
| | | 1843 | 112-113 | | |
| | | 1844 | 114-115 | | |
| | | 1845 | 121-122 | | |
| | | 1846 | 123-124 | | |
| | | 1847 | 124-125 | | |
| | | 1848 | 115-116 | | |
| | | 1849 | 120-121 | | |
| | | 1850 | 122-123 | | |
| | | 120.37 - 122.75 | 119 - 1cm blob of pyroxidite - chalcopyrite in garnet rich rock | 1851 | 117-118 |
| | 120.37 - small blob of MoS ₂ in siliceous altered greenstone | 1852 | 119-120 | | |
| | | 1853 | 120-121 | | |
| 122 m - 122.75 | Sugary textured calc-silicate rock partially banded - gneissic texture @ 50° to C.A. | 1854 | 121-122 | | |
| | | 1855 | 122-123 | | |
| 122.75 - 145.0 | f.g. purplish-green siliceous volcanic mass pyrite - pyroxidite (1%) - talc veining in fractures @ 122.75m - highly fractured breccia with calcite in fracture fillings | 1856 | 127-128 | | |
| | | 1857 | 130-131 | | |
| | | 1858 | 141-145 | | |
| | | 1859 | 141-142 | | |
| | | 1860 | 143-144 | | |

DIAMOND DRILL RECORD

PROPERTY SND HOLE NO. 81-2

SHEET NUMBER 9 SECTION FROM 145 TO 196.9 STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE No. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|---------------------|--|-------------|--------------------|---------|----------------|
| | <i>pyrite community found along narrow fractures</i> | | | | |
| | <i>- chlorite typically found along slickensided fracture planes</i> | | | | |
| | <i>- garnet is absent in this section</i> | | | | |
| <i>139.48-142.0</i> | | | | | |
| <i>145.0-166.0m</i> | <i>Fault zone - very broken, blocky fault gouge</i> | <i>1859</i> | <i>151-152</i> | | |
| | <i>- softer gouge is moderately pyritized (~2-5%)</i> | <i>1860</i> | <i>150.5-155.5</i> | | |
| | | <i>1861</i> | <i>162-164</i> | | |
| | | <i>1873</i> | <i>150-151</i> | | |
| | | <i>1874</i> | <i>150.3-150.3</i> | | |
| <i>166.0-175.5</i> | <i>Highly fractured dark green - purplish f.g. basalt</i> | <i>1862</i> | <i>169-170</i> | | |
| | <i>- minor diss. pyrite</i> | | | | |
| | <i>- minor CaCO₃ veinlets</i> | | | | |
| <i>175.5-196.9</i> | <i>f.g. dark purplish basalt</i> | <i>1863</i> | <i>184-185</i> | | |
| | <i>- minor CaCO₃ veinlets</i> | <i>1864</i> | <i>184-195</i> | | |
| | <i>- minor diss. pyrite</i> | <i>1865</i> | <i>189-190</i> | | |
| <i>end of hole</i> | | <i>1875</i> | <i>193-194</i> | | |
| | | <i>1876</i> | <i>195-196</i> | | |

DIAMOND DRILL RECORD

PROPERTY SNO

HOLE NO. 81-3

SHEET NUMBER 1

SECTION FROM 0 TO 90.22

STARTED MAY 8

LATITUDE _____

DATUM _____

COMPLETED MAY 11

DEPARTURE _____

BEARING 280°

ULTIMATE DEPTH 135.94

ELEVATION 903 m

DIP -60°

PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD g | SLUDGE GOLD g |
|--------------|--|------------|-----------------|--------|---------------|
| 0-12 m | Overburden | | | | |
| 12 m - 41.15 | Dark brown, dark-light green f.g. basalt - with intercalations of pale green f.g. siliceous tuff - moderate fractures with calcite filling - wider fractures show brecciation of volcanic host (widest fractures ~ 2cm) - diss pyrite with minor pyrrhotite (1-5%) mostly within dark brown basalt pyrite disseminated along fracture planes. | | | | |
| 41.5 - 90.22 | - Light - med green f.g. siliceous greenstone with sporadic garnetization (44.2m - 85.65m) - diss pyrite - pyrrhotite (1-5%) - diss ep. in pale green tuff (1-2%) 77.5-77.5 m. - moderate fracturing of calcite veining - rock has overall mottled - banded texture as a result of intercalated garnetization | | | | |

DIAMOND DRILL RECORD

PROPERTY SNO HOLE NO. 81-3

SHEET NUMBER 2 SECTION FROM 90.22 TO 135.94 STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

| DEPTH-FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|---------------|--|------------|-----------------|---------|----------------|
| 90.22-135.94 | brecciated Dark brown - grey green f.g. generally brecciated in places - strongly fractured - moderate fractures with calcite veining - diss pyrite (1-5%) 111.56-117.04 (breccia zone) fractured along bedding planes (breccia zone) | | | | |
| 117.04-117.96 | Grey-greenish volcanic | | | | |
| 117.96-135.94 | Dark brown - purple clay shale with fragments of interbedded green tuff - shaly with occasional 5-10 cm wide & occasional contain basaltic clasts up to ~ 2 cm. as seen in 2" x 1.5 cm gith at 124.85 - 130 m. | | | | |

DIAMOND DRILL RECORD

PROPERTY SND

HOLE NO. 81-4

SHEET NUMBER 1

SECTION FROM 0 TO 52.12

STARTED MAY 12/81

LATITUDE _____

DATUM _____

COMPLETED MAY 15/81

DEPARTURE _____

BEARING 110°

ULTIMATE DEPTH 132.89

ELEVATION 863 m.

DIP -60°

PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD g | SLUDGE GOLD g |
|-------------|--|------------|-----------------|--------|---------------|
| 0-6.1 | Overburden | | | | |
| 6.1-16.15 | Grey, med. green fractured f.g. greenstone breccia - fractures filled by CaCO ₃ - pyrite (1-2%), occasionally seen as fracture filling - little to no visible quartz | | | | |
| 16.15-27.43 | Dark, very f.g. siliceous greenstone - diss. pyrite - pyrrhotite (1-5%) - minor fracturing & calcite veining | | | | |
| 27.43-52.12 | Fine grain, grey-med. green, highly siliceous greenstone (Calc.-Silicate) - altered sections are typically green-purple with some garnetization aggregates in greenstone. | | | | |

DRILLED BY _____

SIGNED _____

G.T.

DIAMOND DRILL RECORD

PROPERTY SNO HOLE NO. 81-4

SHEET NUMBER 2 SECTION FROM 47.55 TO 76.8 STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|---------------|---|------------|-----------------|---------|----------------|
| | 37.49 - 39.32 (green altered zone with garnet - calcite alteration) | | | | |
| | 44.2 - 47.24 garnet alteration zone | | | | |
| 47.55 - 52.72 | 47.55 - 52.72 highly fractured vol. brown - abundant pyrite along fracture planes (1-8%) - visible graphite also along fracture planes. | | | | |
| 52.72 - 64.31 | 52.72 - 64.31 Gray green speckled volcanic porphyry - well developed presence of hematite & Sphalerite, no visible sulphides. Graphite along fractures and as disseminations. | | | | |
| 64.31 - 76.8 | 64.31 - 76.8 Fractured, brecciated volcanic porphyry pyrite (1-8%) - increased CaCO ₃ veinlets. | | | | |

DIAMOND DRILL RECORD

PROPERTY SND. HOLE NO. 81-4

SHEET NUMBER 3 SECTION FROM 76.8 TO 100.4 STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|---------------------------|--|------------|-----------------|---------|----------------|
| 76.8 - 77.12 | Gray-green altered porphyry - strongly fractured with abundant Calcite fracture filling with associated pyrite - Graphite occurring on fracture planes parallel to C.A. | | | | |
| 77.12 - 92.29 | Med - strongly altered vol. porphyry - abundant fracturing + pyrite along fracture planes (S - N) - graphite occurs on fracture planes - typical intercalated with dark - i.g. inclusions of greenstone - Be. 87 - 92.83 highly broken rock. | | | | |
| 93.29 - ^{109.72} | Brown-red hematite - pale green i.g. greenstone matrix - brecciated - greenstone is typically speckled or generally concentrated with hematite inclusions - moderate calcite veining | | | | |

DIAMOND DRILL RECORD

PROPERTY SNO HOLE NO. 71-5

SHEET NUMBER 1 SECTION FROM 0 TO 129.54 STARTED MAY 16/81
 LATITUDE _____ DATUM _____ COMPLETED MAY 20/81
 DEPARTURE _____ BEARING N0° ULTIMATE DEPTH 180.14
 ELEVATION 843 m. DIP -25° PROPOSED DEPTH _____

| DEPTH FEET | FORMATION | SAMPLE NO. | WIDTH OF SAMPLE | GOLD \$ | SLUDGE GOLD \$ |
|--------------|--|------------|-----------------|---------|----------------|
| 0-1.1 | Quartzite | | | | |
| 1.1-2.0 | Quartzite, brecciated | | 23.6-29 | | |
| 2.0-2.5 | Quartzite (5-20%) | 1866 | | | |
| 41.46 | Strongly altered quartzite | 1867 | 30.18-31.18 | | |
| | with calcite veins | 1868 | 36-36.7 | | |
| | with calcite localization of quartz | 1869 | 37.4-38.25 | | |
| | with calcite alteration | | | | |
| | Quartzite (5-10%) | | | | |
| 42.5-51.0 | Highly brecciated and pulverized quartzite | 1870 | 42.95-42.98 | | |
| | with calcite (2-10%) | | | | |
| 52.50-129.54 | Minor brecciated quartzite | | | | |
| | with calcite (1-2%) | | | | |

APPENDIX III

CONSULTING REPORTS

- i) Geochemical-Geophysical Report
Glen E. White - December 22, 1980

- ii) Geochemical Report - VPEM
Glen E. White - March 12, 1981

GEOCHEMICAL - GEOPHYSICAL
REPORT ON

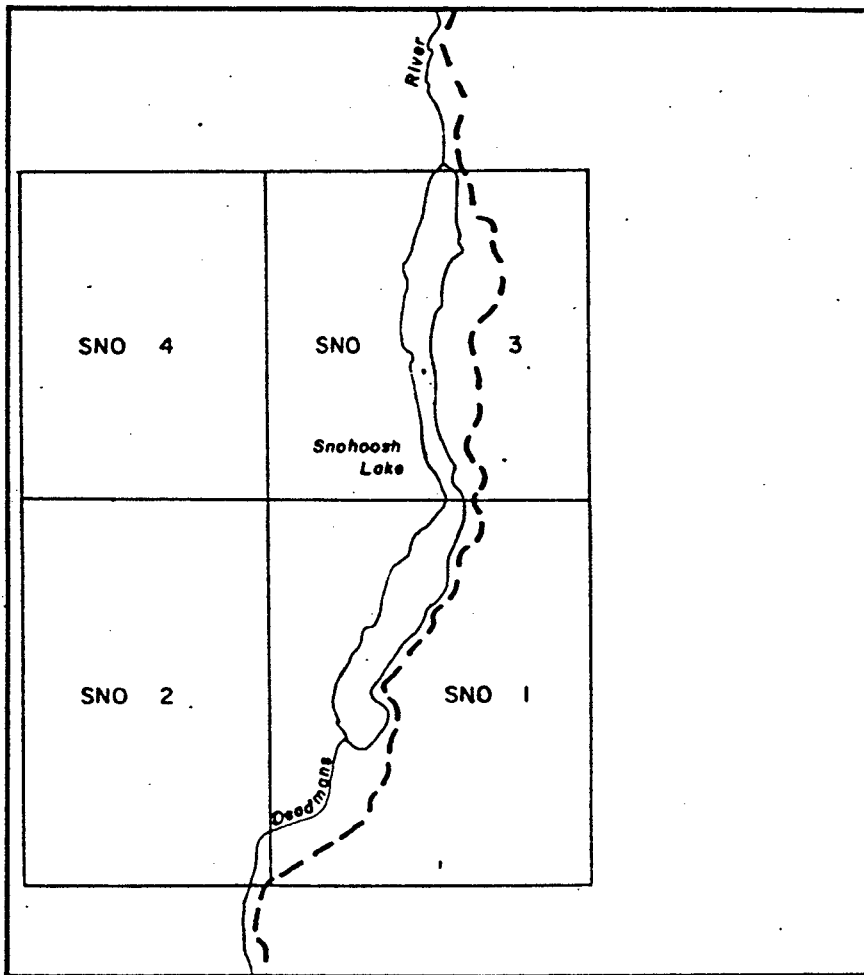
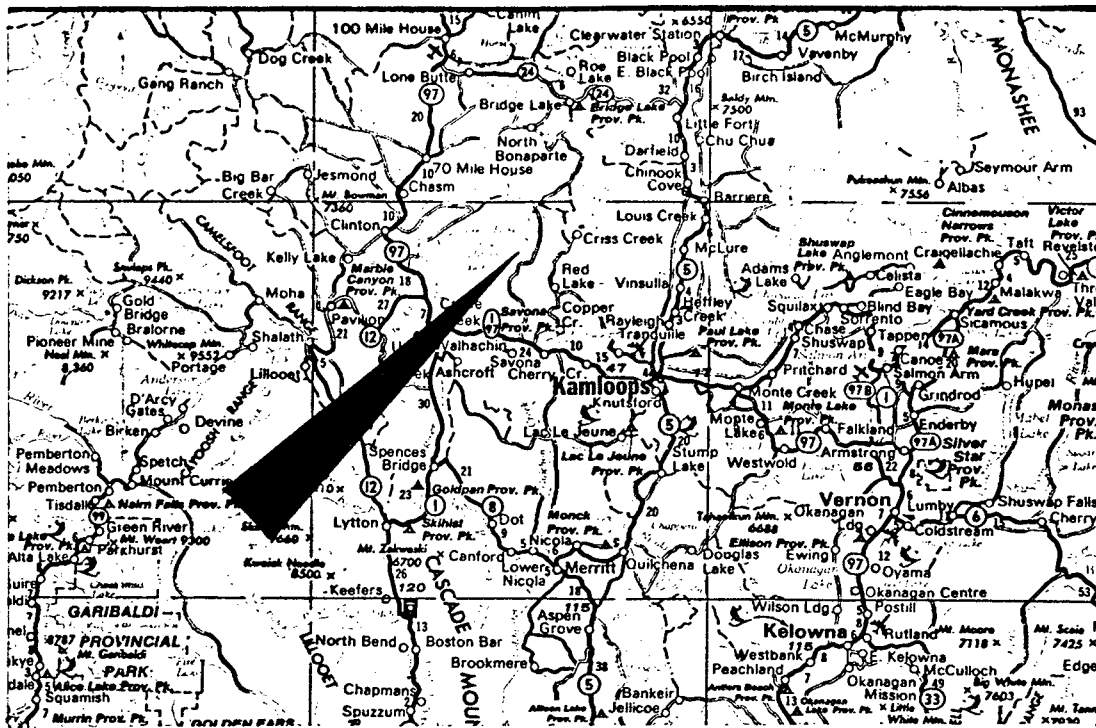
NEWHAWK GOLD MINES LTD.

Sno mineral claims, Snohoosh Lake.
Clinton M.D. Lat. $51^{\circ}05'N$ Long. $120^{\circ}53'W$
NTS 92 P/2

AUTHOR: Glen E. White, B.Sc., P.Eng.
DATE OF WORK: October 27 - November 12/80
DATE OF REPORT: December 22/80

Glen E. White

GEOPHYSICAL CONSULTING & SERVICES LTD.



NEWHAWK GOLD MINES LTD.
SNO CLAIMS
LOCATION AND CLAIMS MAP

Glen & White
 geophysical consulting
 &
 resources ltd.

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INTRODUCTION

The Sno claim group is described in a preliminary report by J.W. Macleod P.Eng., dated September 17, 1980. In it he describes lenses of a garnet skarn which are erratically mineralized with pyrite, chalcocopyrite and molybdenite. This report describes a program of linecutting, geochemical soil sampling and geophysical surveying undertaken to examine these showings. The program was completed during the period October 27 - November 12, 1980 by Glen E. White Geophysical Consulting & Services Ltd. on behalf of Newhawk Gold Mines Ltd.

PROPERTY

The property consists of the SNO, 1-4 claims record numbers 847-50 recorded August 05, 1980 as illustrated on Figure 1.

LOCATION AND ACCESS

Snohoosh Lake is located some 50 Km northwest of Kamloops B.C. in the Clinton Mining Division. Access is by good gravel road for some 30 Km up the Deadman River valley north from highway 97. The turnoff is some 6 Km west of Savana a small community at the west end of Kamloops Lake. Lat. $51^{\circ}05'N$, Long. $123^{\circ}55'W$ NTS 92 P/2.

GENERAL GEOLOGY

The general claims are illustrated on Map 1278A in Memoir 363 by Campbell and Tipper, 1971. The majority of the claim group is underlain by

plateau basalt of Miocene age. A window in these recent flows is created by the valley of the Deadman River. The basalts lie on top of the Deadman River formation which is comprised of diatomaceous earth and pozzolamic ash. This formation occurs on the east side of Snohoosh Lake. Below this formation Triassic Nicola volcanics are exposed in places along the valley. Mr. Macleod has mapped thin bedded light weathering argillites and limey argillite on the west side of the lake around the showings. He considers these sediments to more likely be part of the Nicola series than the Deadman formation. At the north end of the lake granitic rocks are exposed. The mineralization consists of argentiferous and auriferous pyrite and chalcopyrite with minor values of molybdenum and tungsten in lenses of garnet skarn in the limey sediments.

SURVEY GRID

The survey lines are orientated in an east west direction parallel to the slope and parallel to the shore of Snohoosh Lake. To the west are the steep bluffs of the basalt flows. The lines are spaced 50 m apart and numbered at 50 m intervals. Some 12 Km of survey grid was established.

GEOCHEMICAL SURVEY

Soil samples of the upper "B" horizon were taken along the traverse lines at 200 foot intervals. The soil samples were then placed in soil envelopes provided by Chemex Labs Ltd. of North

Vancouver, B.C. The samples were delivered to the above lab where -80 mesh sieving, digestion by hot perchloric nitric acid and analysis by atomic absorption were carried out under the supervision of professional geochemists. 236 samples were obtained and analysed for ppm copper, molybdenum, silver and zinc.

MAGNETOMETER SURVEY

The magnetometer survey was conducted using a Scintrix MF-1 Fluxgate magnetometer. This instrument measures the vertical component of the earth's magnetic field to an accuracy of 10 gammas. Corrections for diurnal variation were made by tying into previously established base stations at intervals not exceeding one and one half hours. Readings were taken at 25 m intervals along the traverse lines.

ELECTROMAGNETOMETER SURVEY

Annapolis transmitter

This survey was conducted using a Ronka EM-16 VLF Electromagnetometer. This instrument acts as a receiver only. It utilizes the primary electromagnetic fields generated by VLF marine communication stations. These stations operate at a frequency between 15-25 KHZ, and have a vertical antenna-current resulting in a horizontal primary field. Thus, this VLF-EM measures the dip-angle of the secondary field induced in a conductor.

For maximum coupling, a transmitter station located in the same direction as the geological strike should be selected, since the direction of the horizontal electromagnetic field is perpendicular to the direction of the transmitting station.

Readings were taken at 25 m intervals and the data filtered in the field by the operator as described by D.C. Fraser, Geophysics Vol. 34, No. 6 (December 1969). The advantage of this method is that it removes the dc and attenuates long spatial wave lengths to increase resolution of local anomalies, and phase shifts the dip-angle data by 90 degrees so that crossovers and inflections will be transformed into peaks to yield contourable quantities.

INDUCED POLARIZATION SURVEY

The equipment used on this survey was the Hunttec pulsetype unit, and Mark III receiver. Power was obtained from a Briggs and Stratton motor coupled to a 2.5 KW 400 cycle three phase generator, providing a maximum of 2.5 KW D.C. to the ground. The cycling rate is 1.5 seconds "current on" and 0.5 seconds "current off", the pulse reversing continuously in polarity. Power was transmitted to the ground through two potential electrodes, P_1 and P_2 which were deployed in the three electrode array with an "a" spacing of 50 m and separations of $N = 2$ and 3.

The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through electrodes C_1 and C_2 , the primary

voltage (V_p) appearing between electrodes P_1 and P_2 during the "current on" part of the cycle, and the secondary voltage (V_s) appearing between electrodes P_1 and P_2 during the "current off" part of the cycle. A cycle time of 4 seconds was used with a duty ratio of 2.2 - 1, T_p .20 ms and T_d 60 ms.

The apparent chargeability (M') in milliseconds, is calculated by $T_p (M_1 + 2M_2 + 4M_3 + 8M_4) = M'$, where T_p is the basic integrating time in tenths of seconds. M_1 , M_2 , M_3 and M_4 are the chargeability effects at various times on the voltage decay curve following switch off of the transmitter, measured as a percentage of the primary voltage, V_p recorded during the "current on" time. By the use of these factors, one can gain an estimate of the decay curve in terms of chargeability for the given time T_p . This gives a quantitative value to the data measured.

The apparent resistivity, in ohm-meters, is proportional to the ratio of the primary voltage to the measured current, the proportionality factor depending on the geometry of the electrode array used. The chargeability and resistivity obtained are called "apparent" as they are values which that portion of the earth sampled by the array would have if it were homogeneous. As the earth sampled is usually inhomogeneous, the calculated apparent chargeability and apparent resistivity are functions of the actual chargeabilities and resistivities of the rocks sampled and of the geometry of the rocks.

DISCUSSION OF RESULTS

The geochemical results are illustrated on Figures 2-5. The copper map Figure 2 shows an anomalous threshold value of some 40 ppm. The area of the showing just north of the baseline on the shore of the lake gives values of 120-142 ppm. This anomaly follows the shore of the lake northward. To the south the copper values form a broad high with the highest value being 250 ppm. The molybdenum map shows three pronounced highs of 10 and 11 ppm. These occur around the showings and with a value of 235 ppm copper. The silver map shows no anomalous values. The zinc map on the other hand shows the same northward trending anomalous values along the shore of the lake as does the copper one. The zinc anomalies give highs of 220-290 ppm. Background is some 70 ppm zinc. Three of the strongest zinc values are directly coincident with the molybdenum and copper ones which are in the area of the showings. The zinc values also show a weak trend to the southwest coincident with the copper trend.

The vertical magnetic intensity data, Figure 6, shows values which range from a high of 1820 gammas to a low of 760 gammas around a background of some 1100 gammas. No descriptive high or low trends were detected. This would tend to indicate that the skarn mineralization is devoid of any high magnetic susceptibility minerals.

The VLF-EM survey was undertaken to see if any near surface highly conductive sulphide or graphite zones could be detected. Two strong anomalies were delineated. However they follow some steep topographic relief and give no induced polarization responses which would suggest they are caused by major gouge filled fault zones.

The induced polarization chargeability data shows a definitely anomalous zone in the southern portion of the survey grid. This zone appears to be trending northeast-southwest and gives highs of 20 to 26 milliseconds above a very low background of 1-3 milliseconds. The apparent resistivity data, shows the anomalous chargeability zone to be a highly resistive area whereas very low values are indicated in areas to the north. The detail induced polarization work shown on plate 1 suggests that the low resistivity areas are a covering of conductive overburden which will also inhibit geochemical ion migration and may partially be the cause of the high VLF-EM anomalies.

Correlation of the geochemical-geophysical data shows excellent coincident trends. The copper-zinc data closely follow the northeast-southwest chargeability trend. The high molybdenum, copper and zinc values are situated directly on a 10 millisecond chargeability anomaly which indicates it is chemically similar to the samples obtained by J.W. Macleod P.Eng. and that it has sufficient chargeability materials to give a three times background anomaly on two lines. The southward extension of this induced polarization anomaly where it shows direct correlation with the copper and zinc values

would appear to be very interesting since the detail induced polarization work with $N = 2$ and 3 shows an increase of chargeable materials with depth.

CONCLUSION

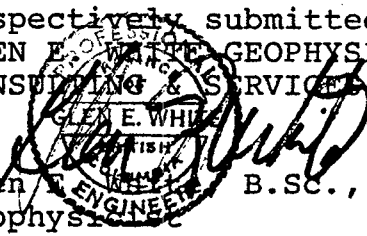
During the month of November 1980 a program of geochemical soil sampling and geophysical surveying was conducted over a portion of the Sno claim group on behalf of Newhawk Gold Mines Ltd.

The survey detected a strong chargeability anomaly which trends northeast under Snohoosh Lake and is open to the southwest. This trend is directly coincident with geochemical values of copper, zinc and molybdenum. The mineral showing on the shore of Snohoosh Lake would appear to be part of this trend. Thus since the lake showings are an area of lower chargeability values the extension of the zone to the southwest would appear to be of definite interest.

RECOMMENDATIONS

It is recommended that the survey grid be extended to the southwest and that the soil sampling and induced polarization surveying be continued. Diamond drilling should also be undertaken in the area of the high chargeability values. The zone would also appear to trend under the lake. A test for massive sulphide mineralization by the vector pulse electromagnetometer technique is warranted as this system could then be used in the winter time to survey under the lake.

Respectively submitted,
GLEN E. WHITE GEOPHYSICAL
CONSULTING & SERVICES LTD.


Glen E. White B.Sc., P.Eng.,
Geophysical Engineer

A P P E N D I XInstrument SpecificationsMAGNETOMETERA. Instrument

- (a) Type - Fluxgate
- (b) Make - Scintrex MF-1

B. Specifications

- (a) Measurement - Vertical Magnetic Field
- (b) Range - \pm 100 K gammas in 5 ranges
- (c) Sensitivity - Maximum 20 gammas per scale division
- (d) Accuracy - \pm 10 gammas

C. Survey Procedures

- (a) Method - One and one half hour loops
- (b) Corrections - (i) Base
(ii) Diurnal
- (c) Station relationship - each station read for
intensity of vertical magnetic field.

A P P E N D I XInstrument SpecificationsELECTROMAGNETOMETERA. Instrument

- (a) Type - Geonics VLF - EM
- (b) Make - Ronka EM 16

B. Specifications

- Measurement -
- (i) Utilizes primary fields generated by VLF marine communication stations measures the vertical field components in terms of horizontal field present.
 - (ii) Frequency range 15-25 KHZ
 - (iii) Range of measurement - in phase $\pm 150\%$
or $\pm 90^\circ$
- quadrature
 $\pm 40\%$
 - (iv) Method of reading - null detection by earphone, real and quadrature from mechanical dials.
 - (v) Accuracy - $\pm 1\%$ resolution

C. Survey Procedures

- Method
- (a) Select closest VLF station perpendicular to traverse lines.
 - (b) In-phase dial measures degree of tilt from vertical position.
 - (c) Quadrature dial calibrated in percent - null.
 - (d) Station plot - plot values read at station surveyed.
 - (e) Manually filter dip-angle data.

INSTRUMENT SPECIFICATIONSINDUCED POLARIZATION SYSTEMA. Instruments

- (a) Type - pulse
- (b) Make - Hunttec
- (c) Serial No. - transmitter #107 - receiver #3016

B. Specifications

- (a) Size and Power - 2.5 KW
- (b) Sensitivity - 300 x 10.5 volts
- (c) Power Sources - 2.5 KW 400 cycle - three-phase generator
- (d) Power - 8 H.P. Briggs and Stratton @ 3000 R.P.M.
- (e) Timing - electronic, remote and direct.
- (f) Readings - (i) amps (ii) volts primary and secondary
- (g) Calculate (i) Resistivity - ohm-meters (ohm-feet)
(ii) Chargeability - milliseconds

C. Survey Procedures

- (a) Method - power supplied to mobile probe along TW 18 stranded wire from stationary set-up
- (b) Configuration - Pole-dipole (three electrode array)
Plot point midway between C₁ and P₁

D. Presentation

- Contour Maps (i) Chargeability - milliseconds
(ii) Resistivity - ohm-meters (ohm-feet)

STATEMENT OF QUALIFICATIONS

NAME: WHITE, Glen E., P.Eng.

PROFESSION: Geophysicist

EDUCATION: B.Sc. Geophysics - Geology
University of British Columbia

PROFESSIONAL ASSOCIATIONS: Registered Professional Engineer,
Province of British Columbia

Associate member of Society of Exploration Geophysicists.

Past President of B.C. Society of Mining Geophysicists

EXPERIENCE: Pre-Graduate experience in Geology -
Geochemistry - Geophysics with Anaconda
American Brass

Two years Mining Geophysicist with Sulmac
Exploration Ltd. and Airborne Geophysics
with Spartan Air Services Ltd.

One year Mining Geophysicist and Technical
Sales Manager in the Pacific north-west
for W. P. McGill and Associates

Two years Mining Geophysicist and super-
visor Airborne and Ground Geophysical
Divisions with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con
Exploration Surveys Ltd.

Ten years Consulting Geophysicist

Active experience in all Geologic provinces
of Canada

COST BREAKDOWN

| <u>PERSONNEL</u> | <u>DATE</u> | <u>WAGES</u> | <u>TOTAL</u> |
|--|------------------|--------------|-------------------|
| J. Miller | Oct 27-Nov 12/80 | 145.00 | 2320.00 |
| T. Allman | Oct 27-Nov 12/80 | 125.00 | 2000.00 |
| M. Gray | Oct 27-Nov 12/80 | 115.00 | 1840.00 |
| G. Greig | Oct 27-Nov 12/80 | 125.00 | 2000.00 |
| Meals and Accomodations @ \$35/man/day | | | 2240.00 |
| Vehicle all inclusive \$65/day | | | 1040.00 |
| Instrument lease induced polarization | | | 1360.00 |
| electromagnetometer | | | 320.00 |
| magnetometer | | | 320.00 |
| Geochemical analysis | | | 980.00 |
| Materials and boat rental | | | 150.00 |
| Interpretation and reports | | | 950.00 |
| Total | | | <u>\$15520.00</u> |

APPENDIX IV

STATEMENT OF COSTS

COST STATEMENT

1981 WORK - Sno Property

A. Salaries (Geological Staff)

| | | | | | |
|------------|-----------------------|----------------------|-------------------------------|-------------------|--|
| G. Thomson | April 8-10 (3 days) | April 15-17 (3 days) | April 27- May 24 (20 days) | | |
| | 26 days @ \$100/day = | \$2,600.00 | | | |
| L. Cooper | May 2-24 (15 days) | | | | |
| | 15 days @ \$75/day = | <u>1,125.00</u> | | <u>\$3,725.00</u> | |

B. Food & Accommodation (Kamloops Slumber Lodge, Savona Restaurant)

| | | | | |
|---------------|---|-----------------------|---------------|-------------------|
| G. Thomson | (April 27-May 24) | 28 days @ \$40.81/day | \$1,142.68 | |
| L. Cooper | (May 2-May 24) | 23 days @ \$40.81/day | 938.63 | |
| F. Boisvenu | (April 27-May 4, May 8, May 11-15, May 22-25) | 18 days @ \$40.81/day | 734.58 | |
| G. Perron | (April 27-May 24) | 28 days @ \$40.81/day | 1,142.68 | |
| B. Benoit | (April 27-May 15) | 19 days @ \$40.81/day | 775.39 | |
| S. LaFreniere | (April 27-May 24) | 28 days @ \$40.81/day | 1,142.68 | |
| A. Burwash | (April 28-May 11) | 14 days @ \$40.81/day | <u>571.34</u> | |
| | | | | <u>\$6,447.98</u> |

C. Transportation

| | |
|---|-------------------|
| Truck rental (4 x 4, 3/4 ton Pickup) | |
| 1 month @ \$800/month (April 24-May 24) | \$800.00 |
| Distance charge - 3100 km @ .10/km | 310.00 |
| Gas & Oil | <u>532.49</u> |
| | <u>\$1,642.49</u> |

| | |
|--|-----------------|
| Rental of one 4.3m aluminum boat with outboard motor | |
| April 30 - May 23, 1981 @ \$35/day | <u>\$840.00</u> |

| | |
|---|-----------------|
| Air fare between Kamloops and Vancouver | |
| G. Thomson - 7 one way fares @ \$57.25 | 400.75 |
| L. Cooper - 1 one way fare @ \$57.25 | <u>57.25</u> |
| | <u>\$458.00</u> |

D. Analyses (Drill core assays - Kamloops Research & Assay Lab Ltd.)

18 samples analysed for gold, silver, copper

87 samples analysed for gold, silver, copper, molybdenum

16 samples analysed for gold, silver

5 samples analysed for gold, silver, molybdenum

| | | | | | |
|-------------|---|--------------------------|---|---------------|-------------------|
| 126 samples | - | 126 Gold @ \$5.50 each | = | \$693.00 | |
| | | 126 silver @ \$5.50 each | | 693.00 | |
| | | 105 copper @ \$6.00 each | | 630.00 | |
| | | 92 molybdenum @ \$6.50 | | <u>598.00</u> | <u>\$2,614.00</u> |

E. Contracted Surveys

Geophysical-geochemical survey contracted by Glen E. White Geophysical Consulting & Services Ltd. (See cost breakdown in appendix for Glen E. White Geophysical Consulting & Services Ltd.)

| | | | |
|----------|-------------------------|-----------------|--------------------|
| Survey 1 | Oct 27 to Nov 12, 1980 | \$15,520.00 | |
| Survey 2 | Feb 25 to March 2, 1981 | <u>5,190.00</u> | <u>\$20,710.00</u> |

F. Report & Map Preparation

G. Thomson - 9 days @ \$100/day = \$900.00

G. Drilling Costs

Man Hours Charged:

| | | |
|--|--|------------|
| F. Boisvenu - April 27-30, May 1,3,4,8,11-15,22-25 | | |
| 92 hours @ \$19.50/hr | | \$1,793.33 |
| G. Perron - April 27-May 25 | | |
| 150 hours @ \$19.50/hr | | 2,919.37 |
| B. Benoit - April 27-May 15 | | |
| 80 hours @ \$19.50/hr | | 1,557.00 |
| S. LaFreniere - April 27-May 25 | | |
| 118 hours @ \$19.50/hr | | 2,293.80 |

| | | |
|-------------------------------------|---------------|-------------------|
| 55 bags mud @ \$6.84 each | 376.20 | |
| 400 gals. diesel fuel @ \$1.30/gal. | 520.00 | |
| Room charge, Slumber Lodge | 27.56 | |
| Add 17% overhead charge | <u>387.47</u> | <u>\$2,666.73</u> |
| 83 BQ core boxes @ \$6.00 each | | 500.00 |
| Truck rental | | <u>1,000.00</u> |
| | | <u>\$4,166.73</u> |

Equipment Rental & Transport

Rental of D-6 Cat -April 28-May 25,1981
@ \$5,500.00/month \$5,500.00

Shipping of D-6 Cat

Kamloops to Snohoosh Lake (April 28) \$179.00
Snohoosh Lake to Kamloops (May 25) 289.00

Shipping of Drill Rig

Northair Mines to Snohoosh Lake
April 26-28 \$1,370.37
Snohoosh Lake or Kamloops 296.00 \$7,634.37

SUMMARY OF COSTS

| | |
|--------------------------------------|------------------|
| A. Salaries (G. Thomson & L. Cooper) | \$3,725.00 |
| B. Food & Accommodation | 2,081.31 |
| C. Transportation | 458.00 |
| D. Assay Costs | 2,939.42 |
| E. Contracted Surveys | 20,710.00 |
| F. Report & Map preparation | 900.00 |
| G. Drilling Costs | <u>67,970.00</u> |

TOTAL: \$98,783.73

APPENDIX V

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

NAME: Gregory R. Thomson

PROFESSION: Geologist

EDUCATION: University of British Columbia
B.Sc. - Major in Geology (1970)
B.C. Teaching Certificate (1974/75)

PROFESSIONAL ASSOCIATIONS: Member of Canadian Institute of Mining
and Metallurgy

EXPERIENCE: 1969 - 1972
Exploration Geologist with Denison Mines Ltd., Tri-
Con Exploration Surveys Ltd., Nor-West Kim Resources
Ltd., Versatile Mining Ltd. (4 field seasons)

April 1973 - Sept 1974
Geological Consultant with Department of Indian and
Northern Affairs, Calgary, Alberta

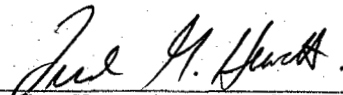
Sept 1976 - March 1981
Teacher of junior secondary science and mathematics
Delta School District, B.C.

March 1981 - Present
Exploration Geologist with Northair Mines Ltd.,
Vancouver, B.C.

STATEMENT OF QUALIFICATIONS

I, Fred G. Hewett, with a business address in the City of Vancouver, and residential address in the District of Coquitlam, in the Province of British Columbia,
DO HEREBY CERTIFY THAT:

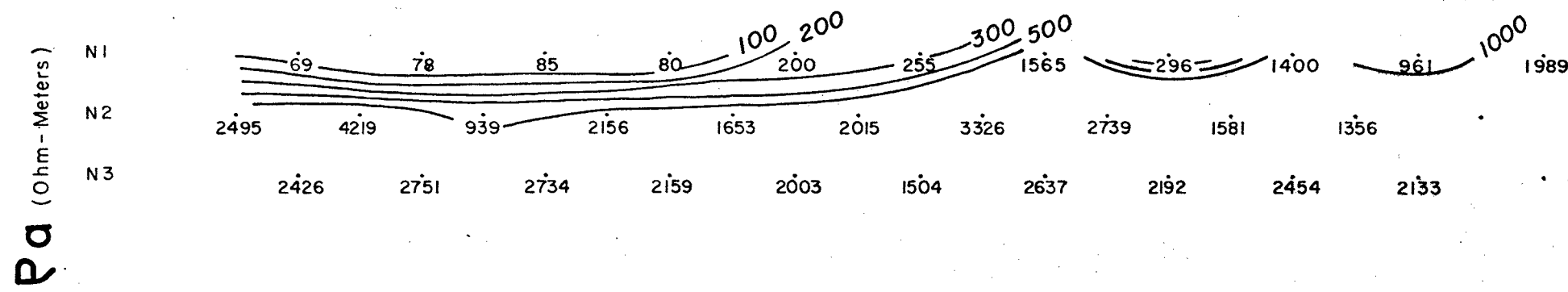
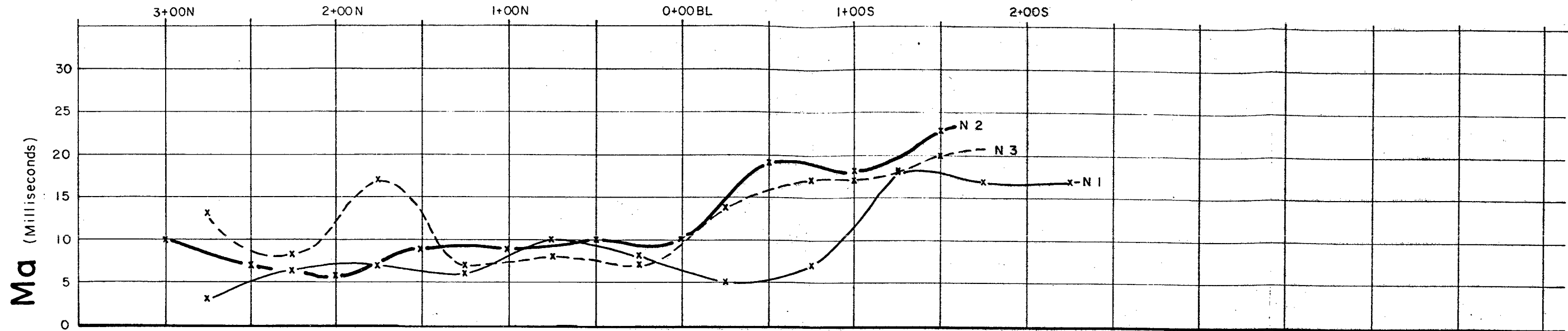
1. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
2. I am a registered member of the Association of Professional Engineers of the Province of British Columbia.
3. I am a member of the Canadian Institute of Mining and Metallurgy and a fellow of the Geological Association of Canada.
4. I have practiced various levels of my profession in Canada for approximately fifteen years.
5. I am presently employed by Northair Mines Ltd. and did personally supervise work described in this report.



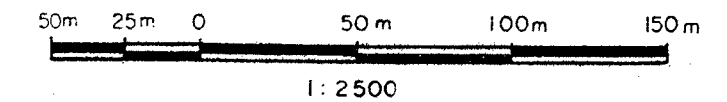
Fred G. Hewett, B.Sc., P. Eng.

Dated at the City of Vancouver,
In the Province of British Columbia,
This 19th day of June, 1981.

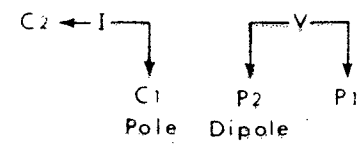
LINE 0+00 W



MINERAL RESOURCES ACT
 A CLAIM REPORT
9136

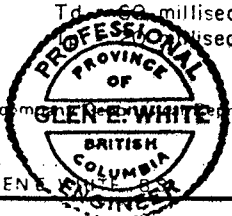


INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN
 (a = 50 m)



To 60 milliseconds
 To 100 milliseconds

To Accompany Report on
 Date
 By GLEN E. WHITE
 GEOPHYSICIST



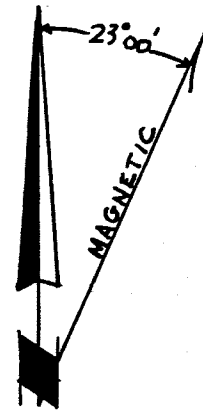
NEWHAWK GOLD MINES LTD.
 SNO CLAIMS
 CLINTON MINING DIVISION - BRITISH COLUMBIA

INDUCED POLARIZATION SURVEY

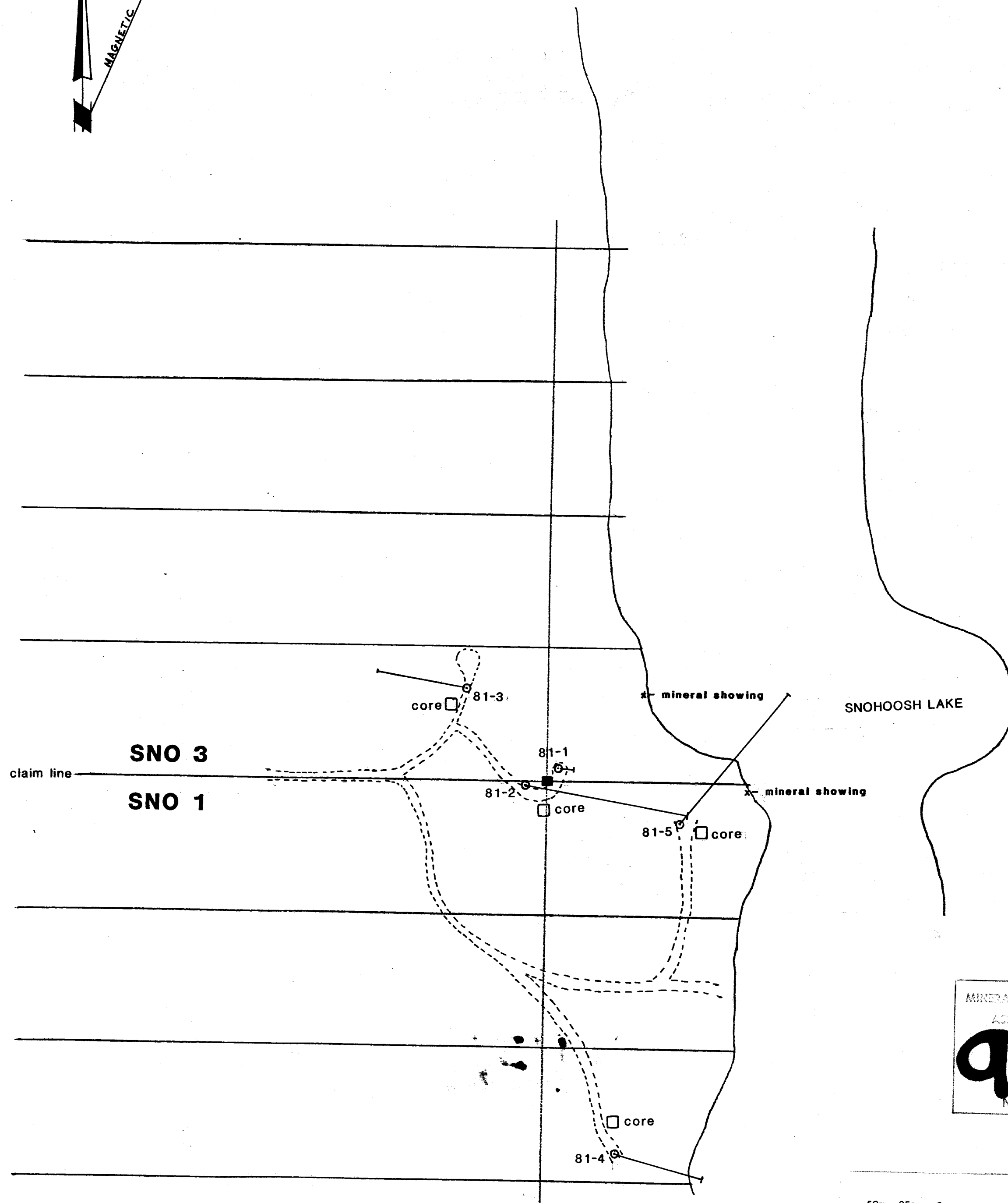
Glen E. White
 geophysical consulting
 services Ltd.

INTERPRETED BY G.E.W.
 DRAWN BY N.P.
 CHECKED BY G.E.W.
 DATE DEC./80
 PLATE: 1

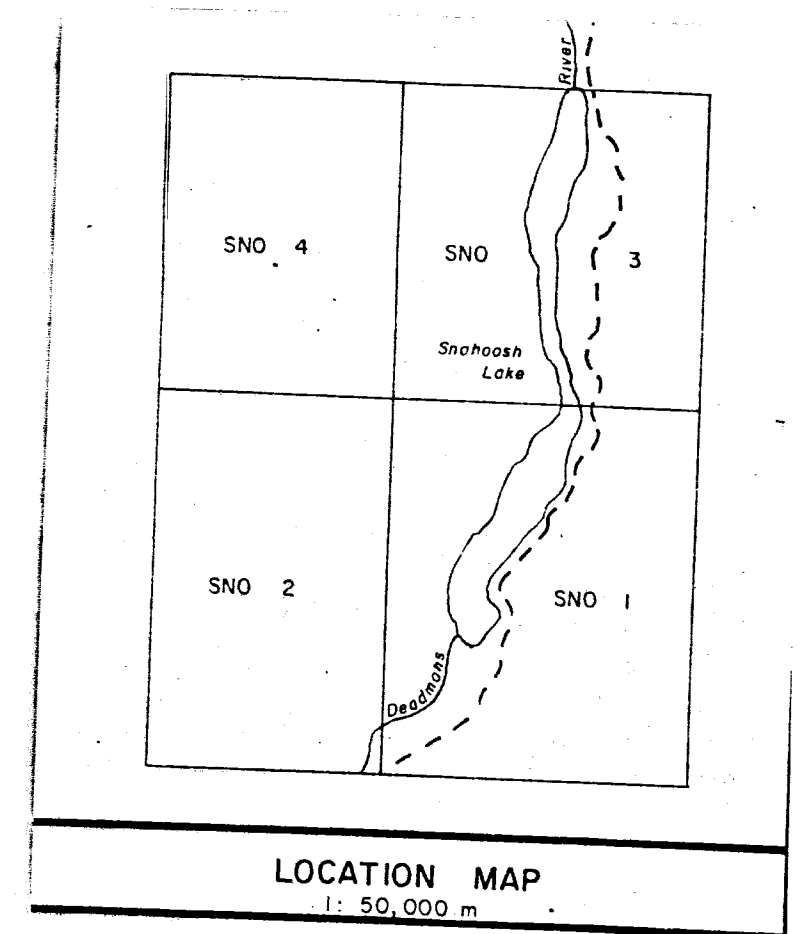
Glen E. White
 geophysical consulting
 services Ltd.



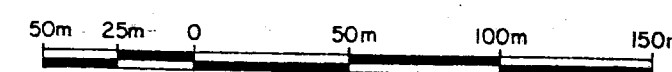
400 N
300 N
200 N
100 N
0
100 S
200 S
300 S



| DRILL HOLE DATA (B.Q) | | | | |
|-----------------------|------|---------|--------------|----------|
| HOLE No. | DIP | AZIMUTH | COLLAR ELEV. | DEPTH |
| 81-1 | -60° | 100° | 873 m | 20.1 m |
| 81-2 | -60° | 100° | 873 m | 196.9 m |
| 81-3 | -50° | 280° | 903 m | 135.94 m |
| 81-4 | -50° | 115° | 863 m | 132.9 m |
| 81-5 | -45° | 40° | 843 m | 180.1 m |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9136
NO.

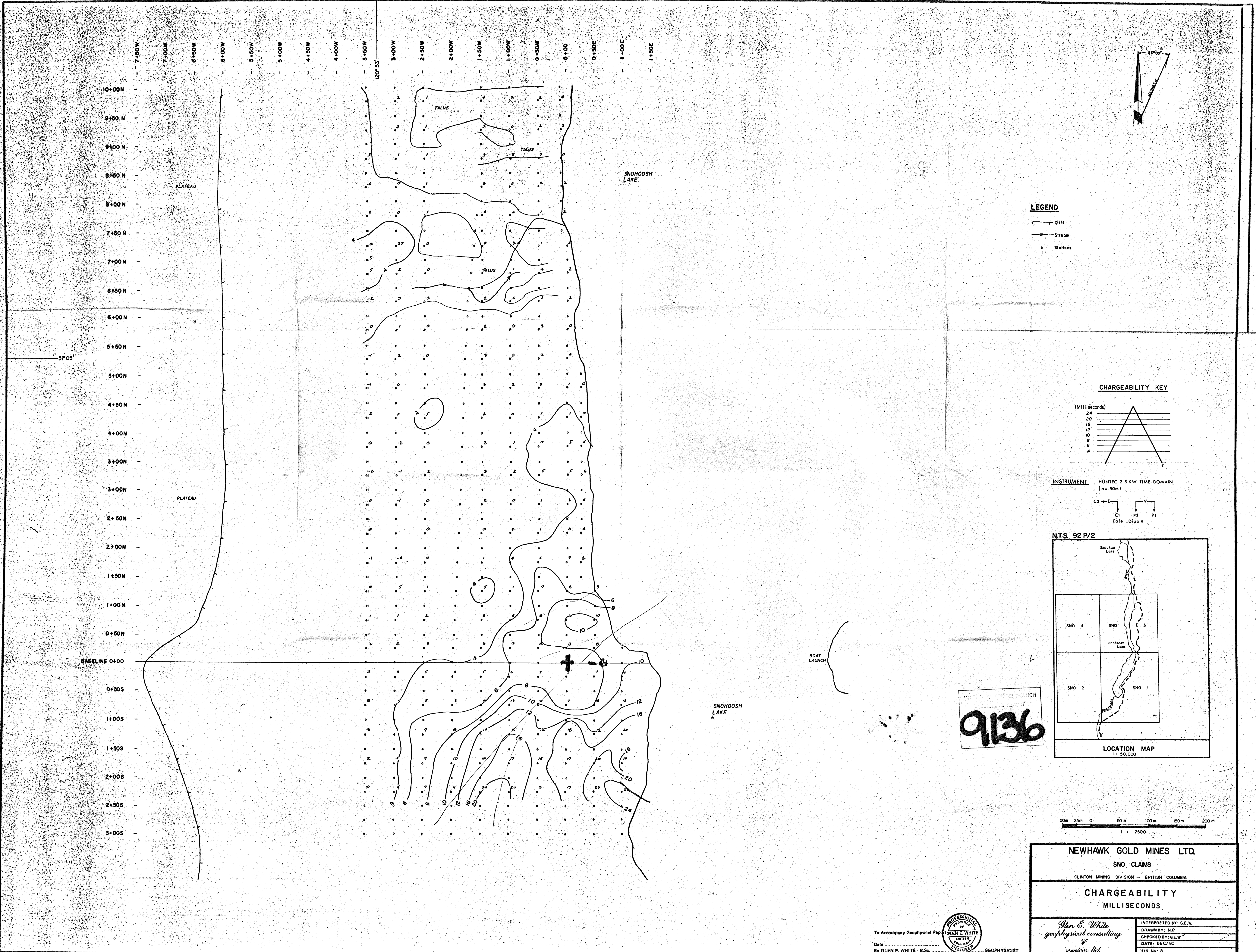


NEWHAWK GOLD MINES LTD.
SNO CLAIMS

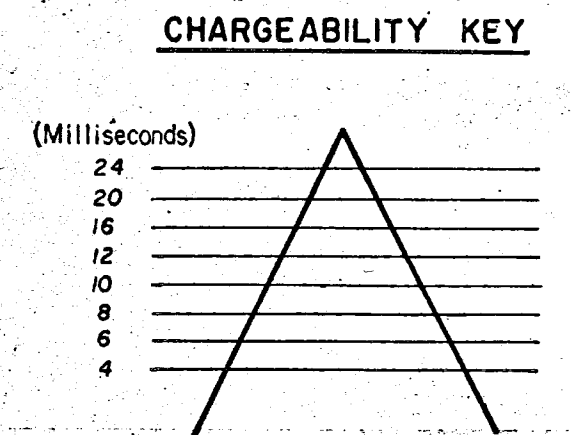
DIAMOND DRILL HOLE PLAN

Drawn by: G.R.T. Date: May 1981

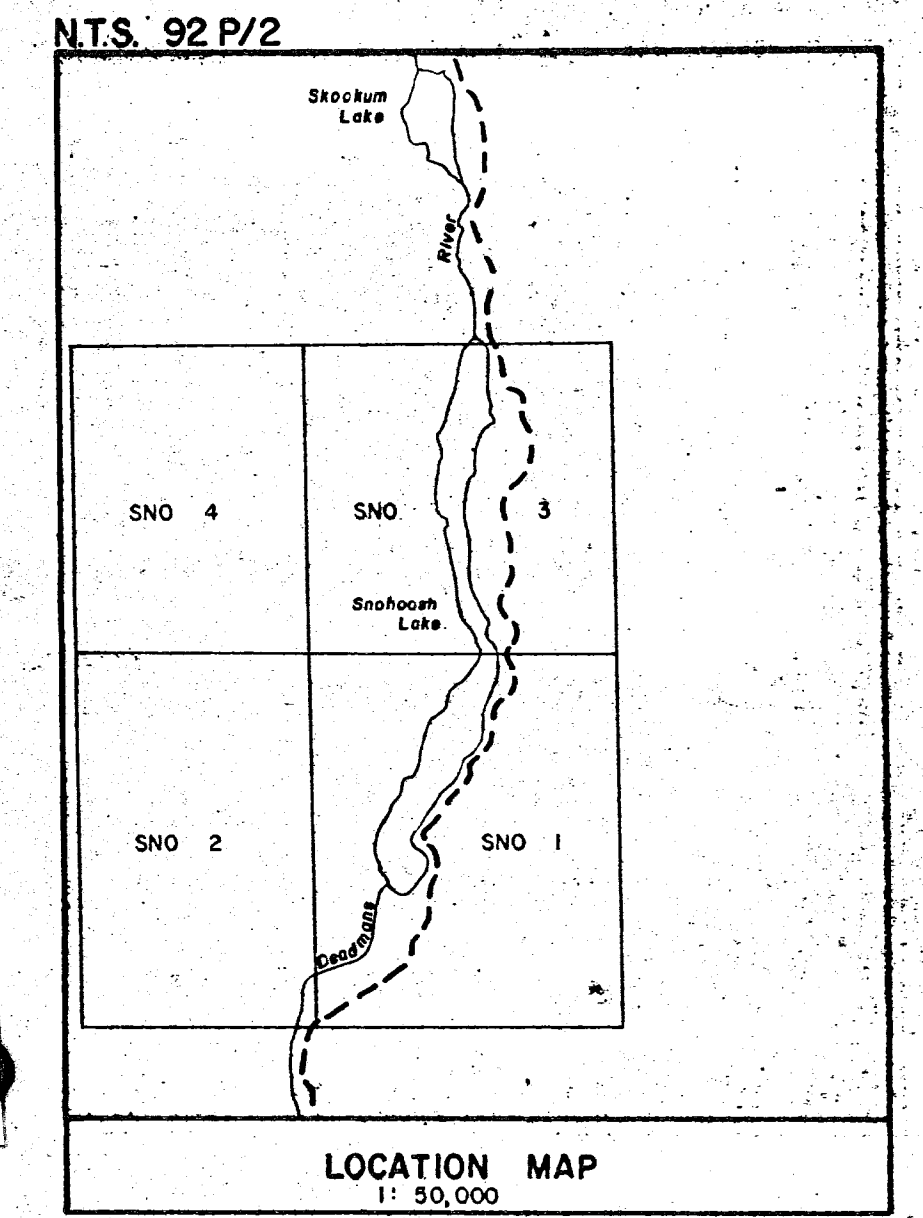
N.T.S. 92 P/s.e. Figure No. 3



LEGEND
 — Cliff
 — Stream
 • Stations



INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN
 (a = 50m)



9136

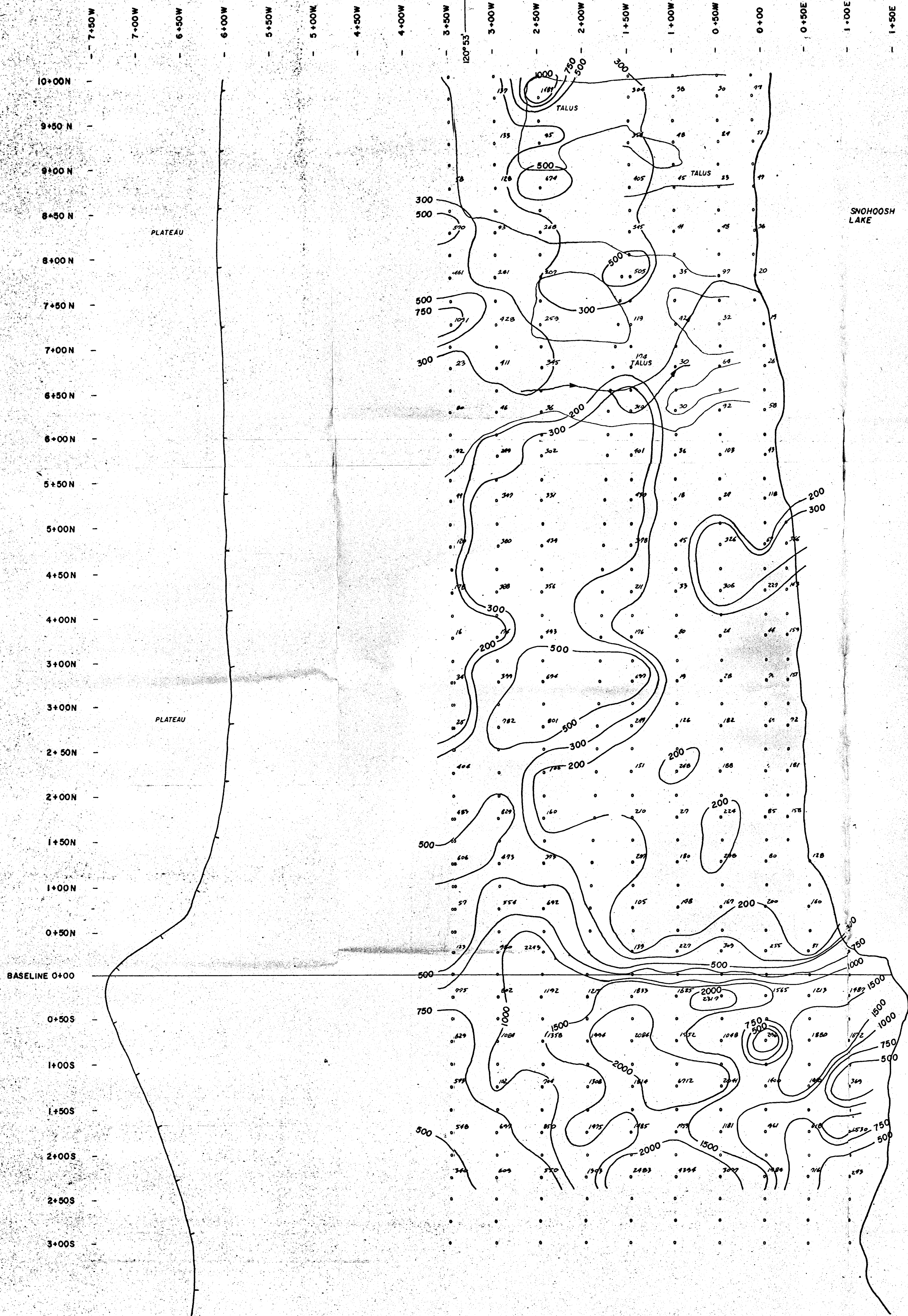
NEWHAWK GOLD MINES LTD.
 SNO CLAIMS
 CLINTON MINING DIVISION — BRITISH COLUMBIA

CHARGEABILITY
 MILLISECONDS

Gen. E. White
 geophysical consulting
 &
 services Ltd.

INTERPRETED BY: G.E.W.
 DRAWN BY: N.P.
 CHECKED BY: G.E.W.
 DATE: DEC/80
 FIG. No: 0

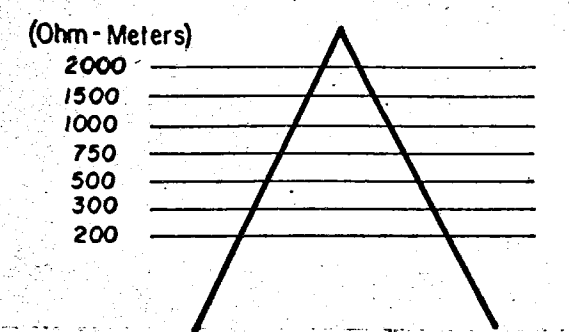
To Accompany Geophysical Report
 By GLEN E. WHITE B.Sc. GEOPHYSICIST



LEGEND

- Cliff
- Stream
- Stations

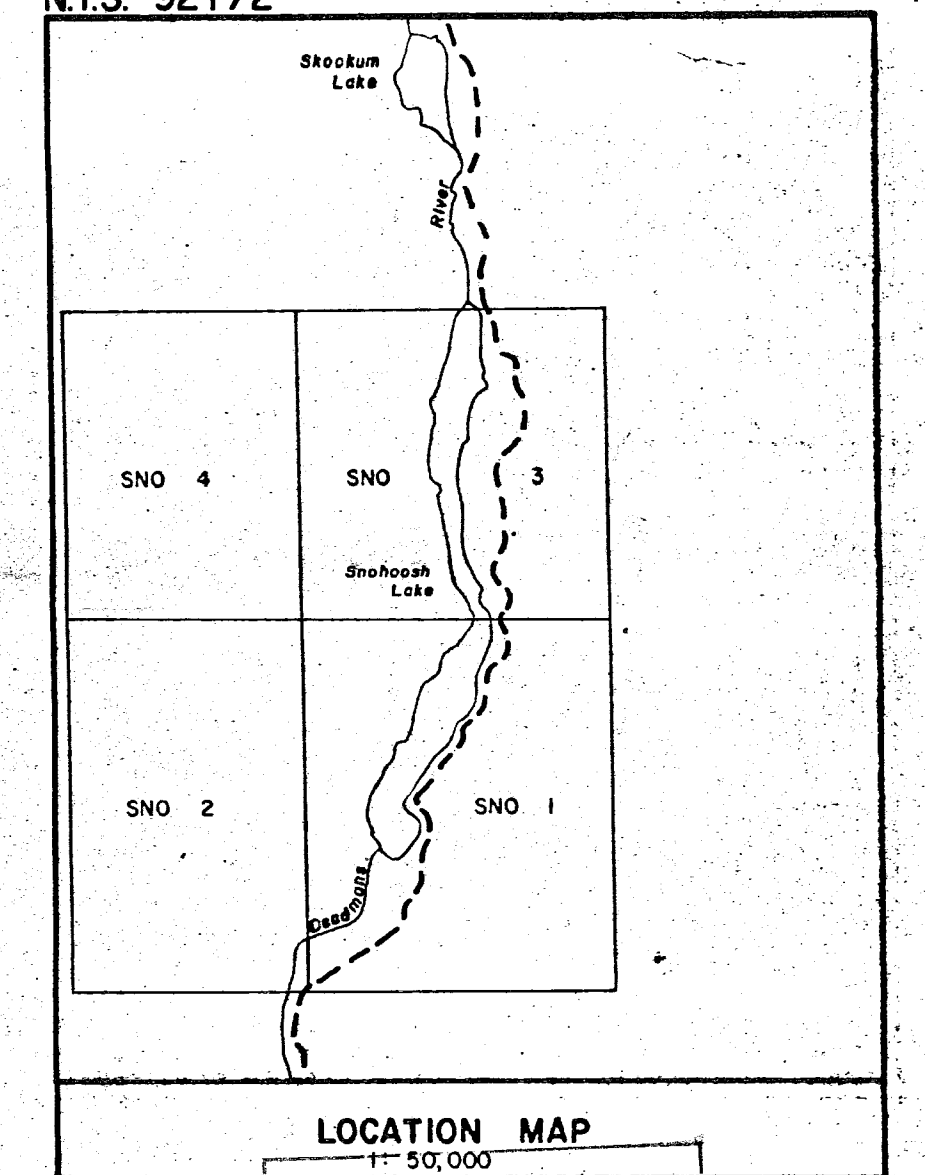
RESISTIVITY KEY



INSTRUMENT HUNTEC 2.5 KW TIME DOMAIN
(a = 50m)

C2 ← C1 P2 P1
Pole Dipole

N.T.S. 92 P/2



LOCATION MAP

9136

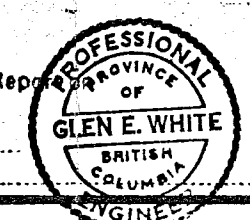
50m 25m 0 50m 100m 150m 200m
1 : 2500

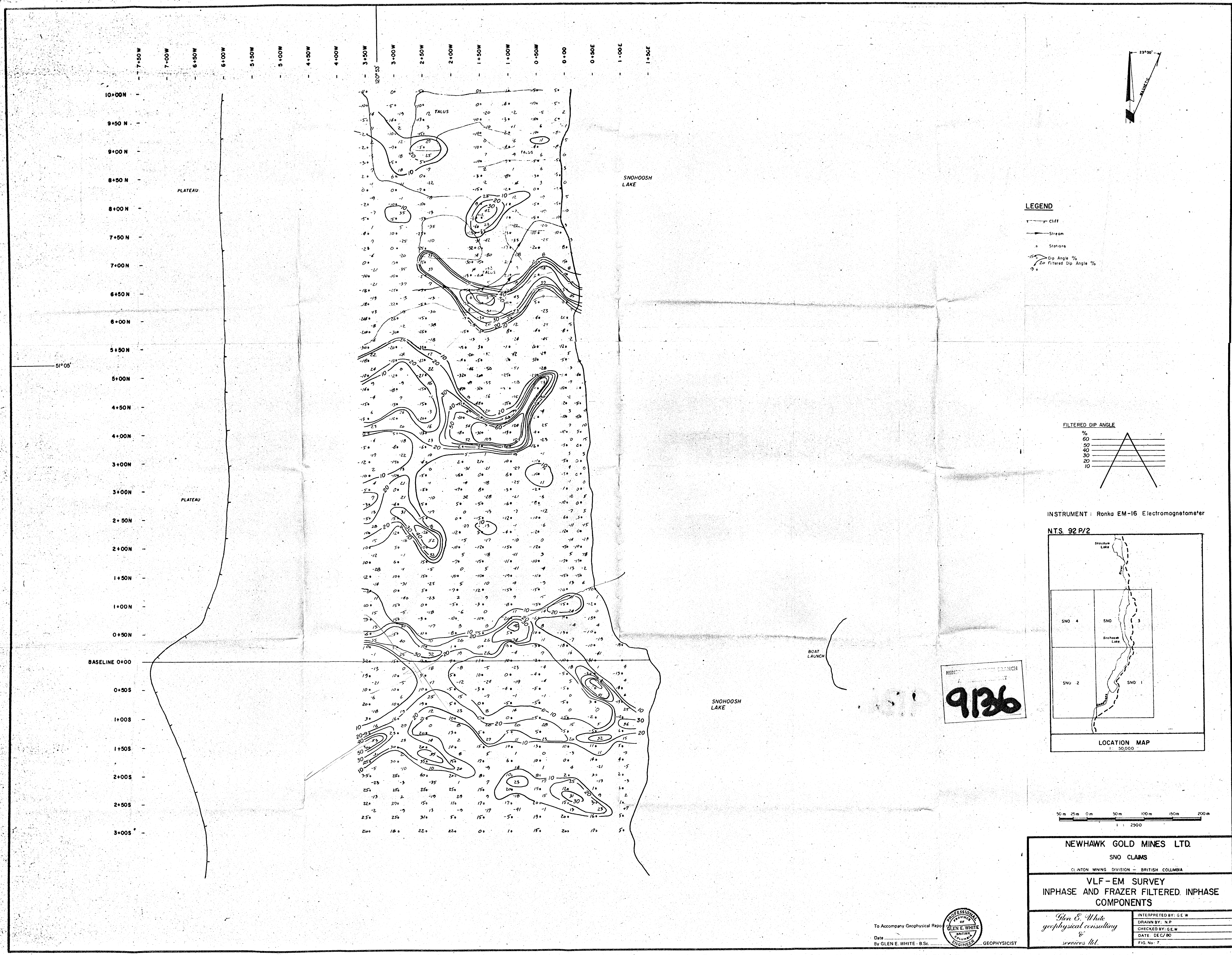
NEWHAWK GOLD MINES LTD.
SNO CLAIMS
CLINTON MINING DIVISION — BRITISH COLUMBIA

APPARENT RESISTIVITY
OHM — METERS

Glen E. White
geophysical consulting
&
services ltd.

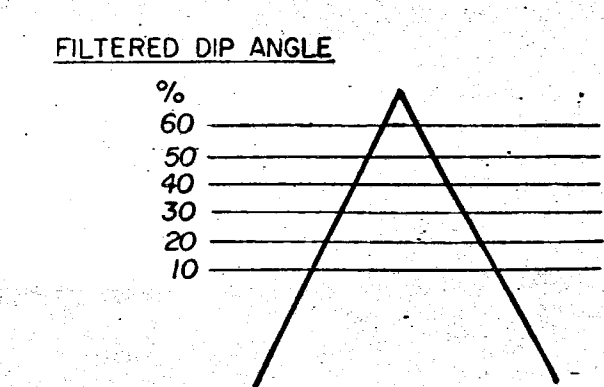
INTERPRETED BY: G.E.W.
DRAWN BY: N.P.
CHECKED BY: G.E.W.
DATE: DEC/80
FIG. No: 9

To Accompany Geophysical Report
Date: _____
By: GLEN E. WHITE - B.Sc.  GEOPHYSICIST



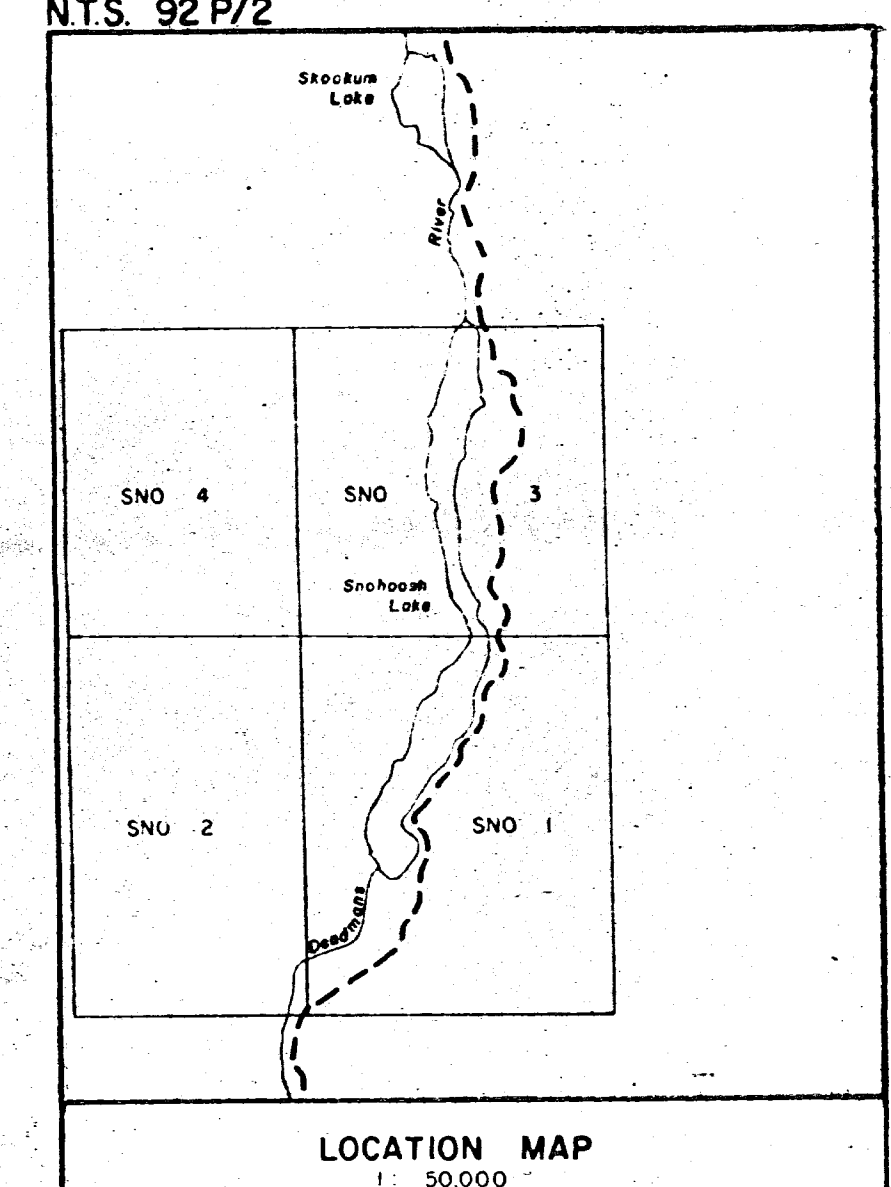
LEGEND

- Cliff
- Stream
- Stations
- Dip Angle %
- Filtered Dip Angle %



INSTRUMENT: Ronka EM-16 Electromagnetometer

NTS. 92 P/2



MINING BRANCH
9136

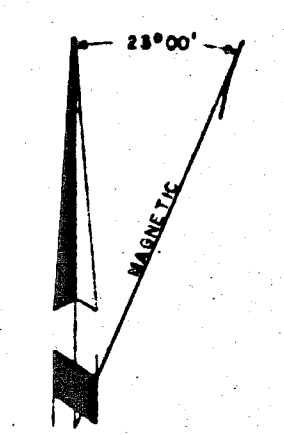
NEWHAWK GOLD MINES LTD.
SNO CLAIMS
CLINTON MINING DIVISION - BRITISH COLUMBIA

VLF-EM SURVEY
INPHASE AND FRAZER FILTERED INPHASE COMPONENTS

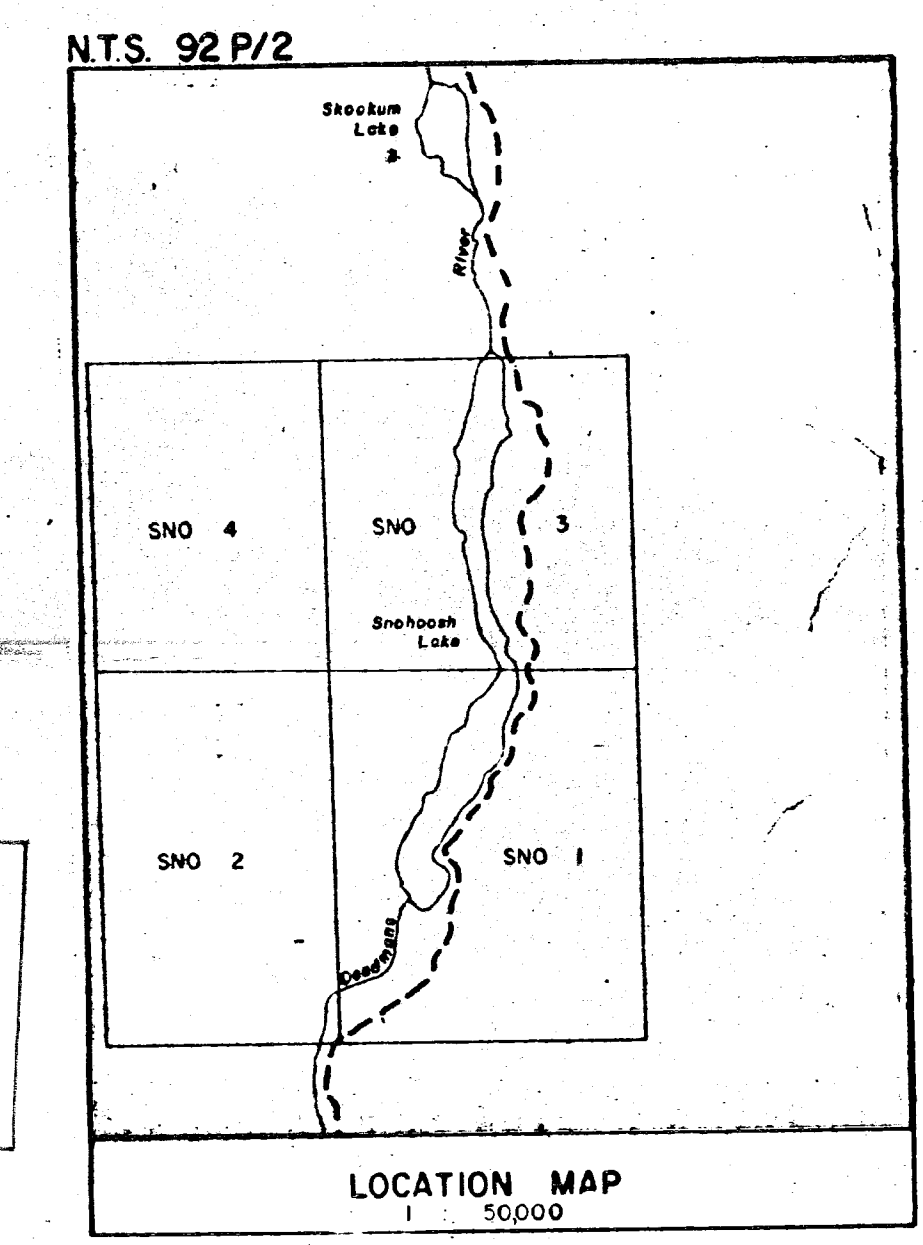
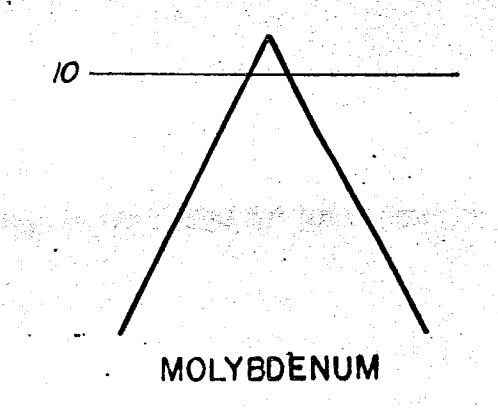
Glen E. White
geophysical consulting
services Ltd.

| |
|------------------------|
| INTERPRETED BY: G.E.W. |
| DRAWN BY: N.P. |
| CHECKED BY: G.E.W. |
| DATE: DEC/80 |
| FIG. No. 7 |

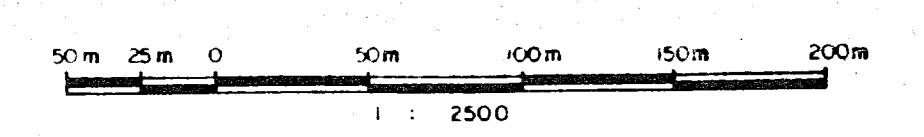
To Accompany Geophysical Report
Date: _____
By GLEN E. WHITE - B.Sc. _____
PROFESSIONAL
GLEN E. WHITE
BRITISH COLUMBIA
ENGINEER
GEOPHYSICIST



LEGEND
 - - - Cliff
 - - - Stream
 * Stations

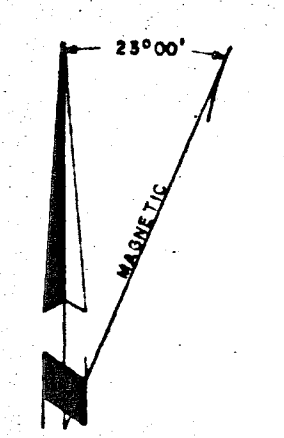
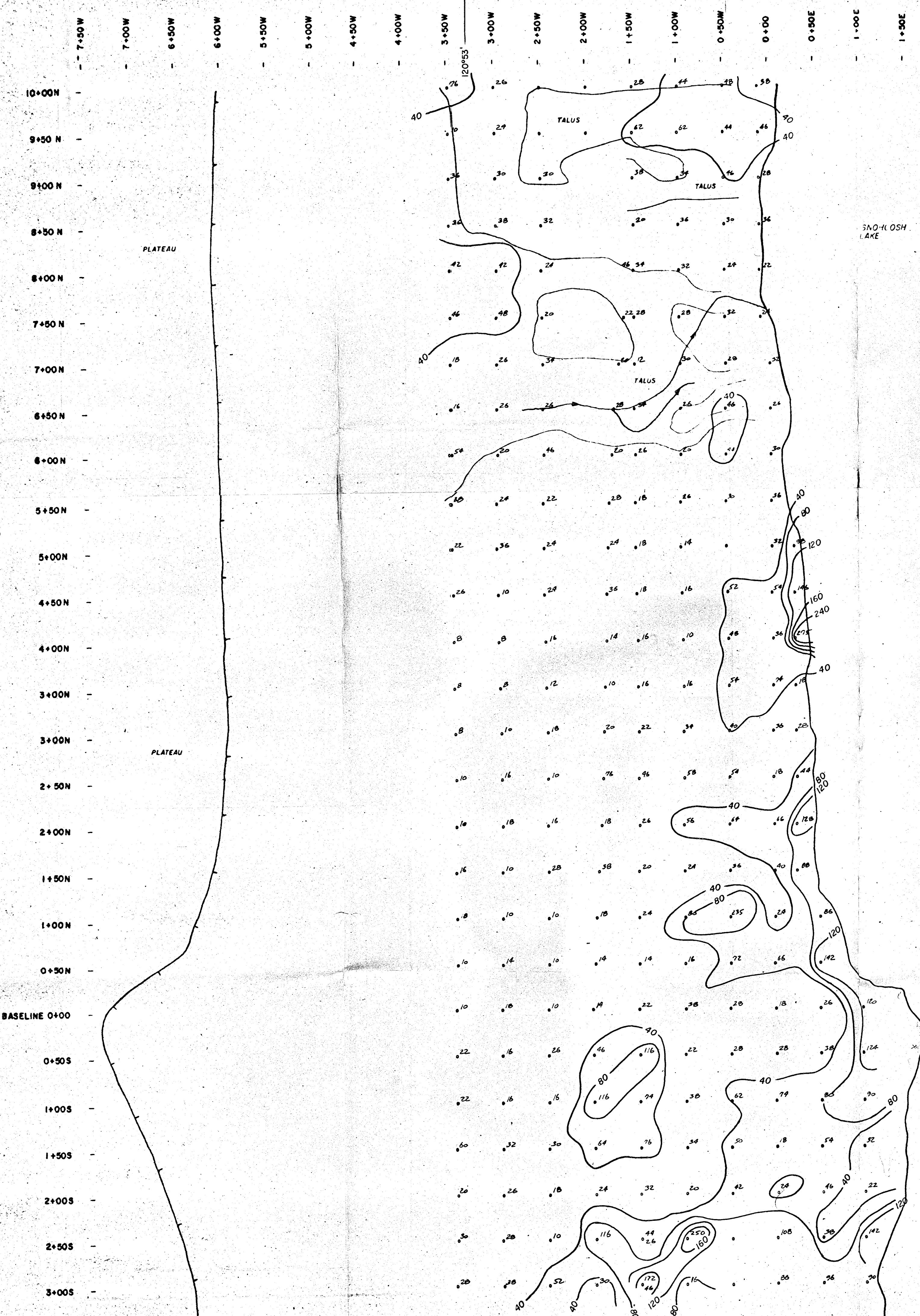


MINERAL REVENUE BRANCH
 9136
 H.O.

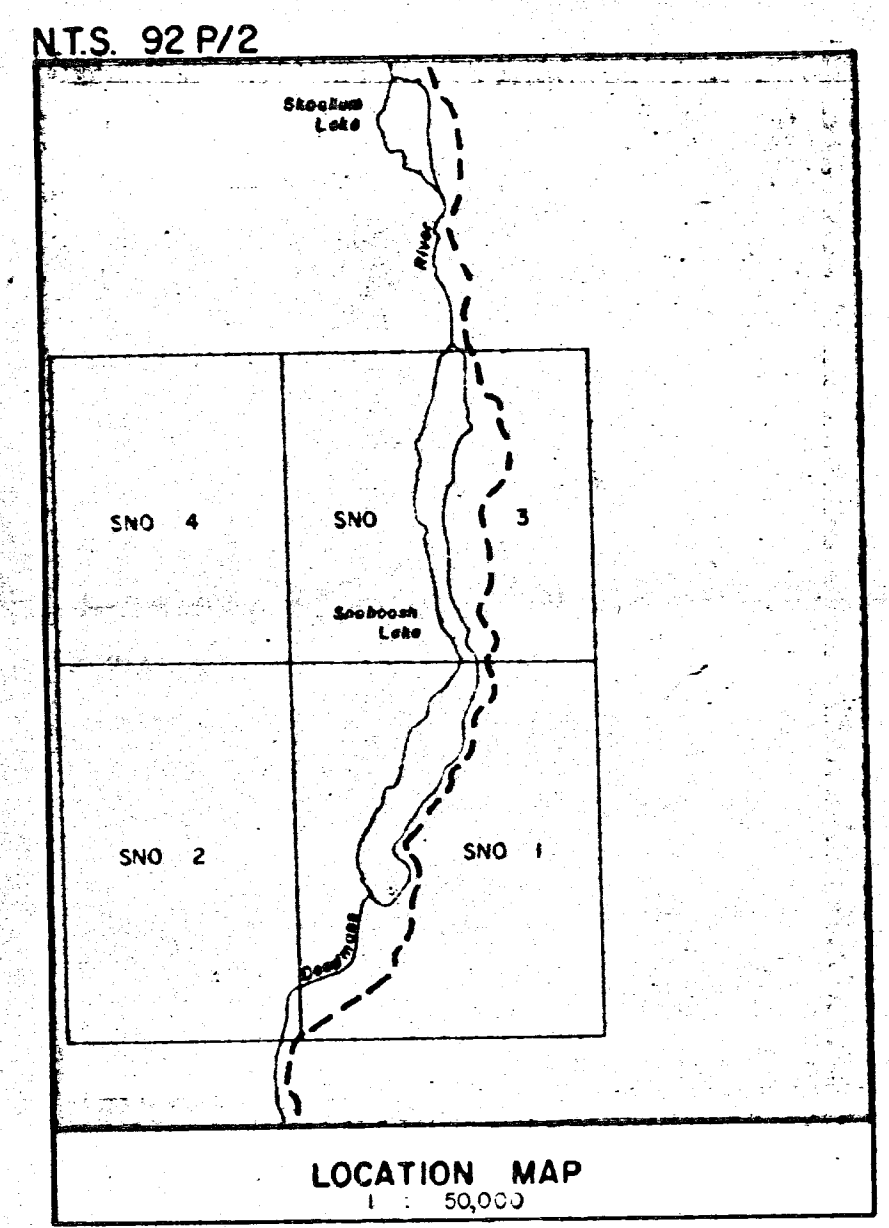
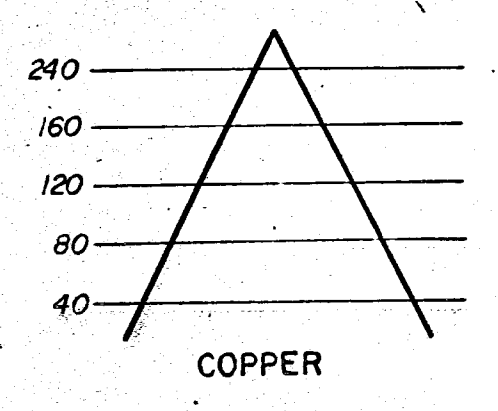


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| SNO CLAIMS | |
| CLINTON MINING DIVISION - BRITISH COLUMBIA | |
| GEOCHEMICAL MAP | |
| MOLYBDENUM P.P.M. | |
| <i>Glen E. White</i> geophysical consulting | INTERPRETED BY: G.E.W. |
| Date: _____ | DRAWN BY: N.P. |
| By GLEN E. WHITE - B.Sc. | CHECKED BY: G.E.W. |
| ENGINEER | DATE: DEC/90 |
| GEOPHYSICIST | FIG. No. 3 |

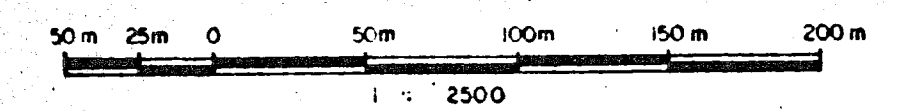
To Accompany Geophysical Report
 Date: _____
 By GLEN E. WHITE - B.Sc. ENGINEER
 G.E.W. GEOPHYSICIST



LEGEND
 — Cliff
 — Stream
 • Stations



MINERAL RESOURCES BRANCH
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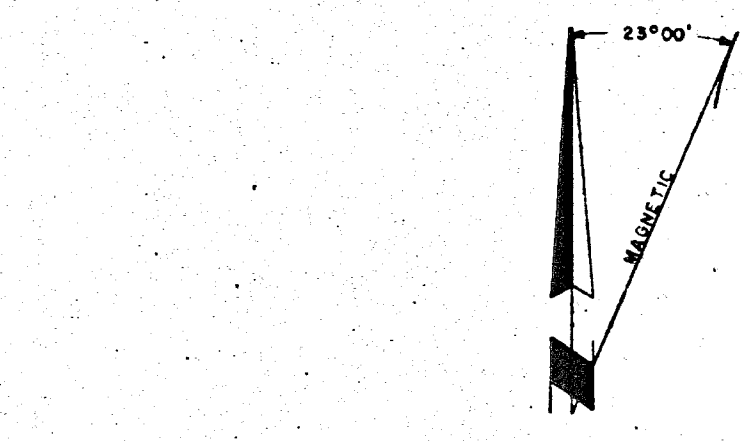
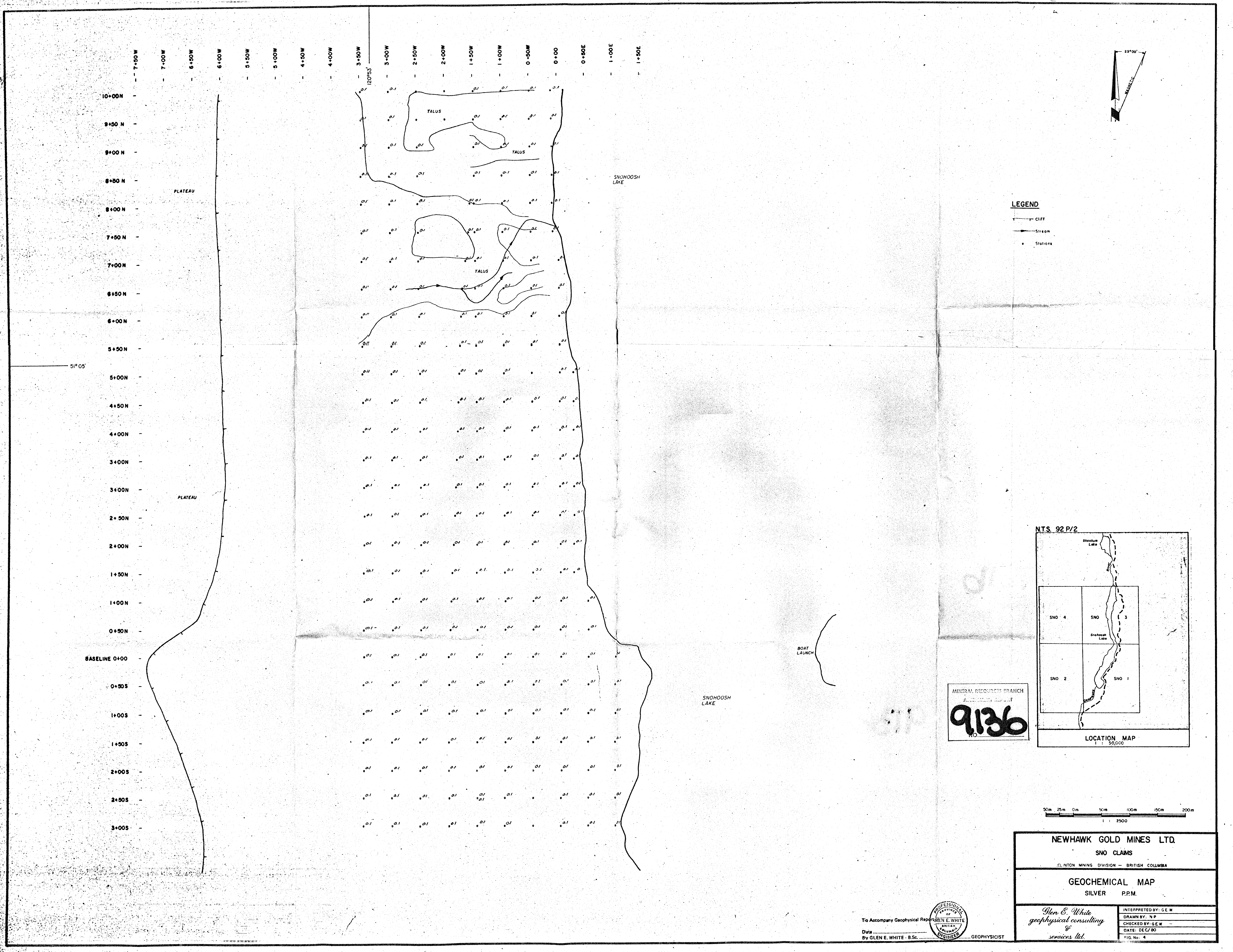
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GEOCHEMICAL MAP
 COPPER P.P.M.

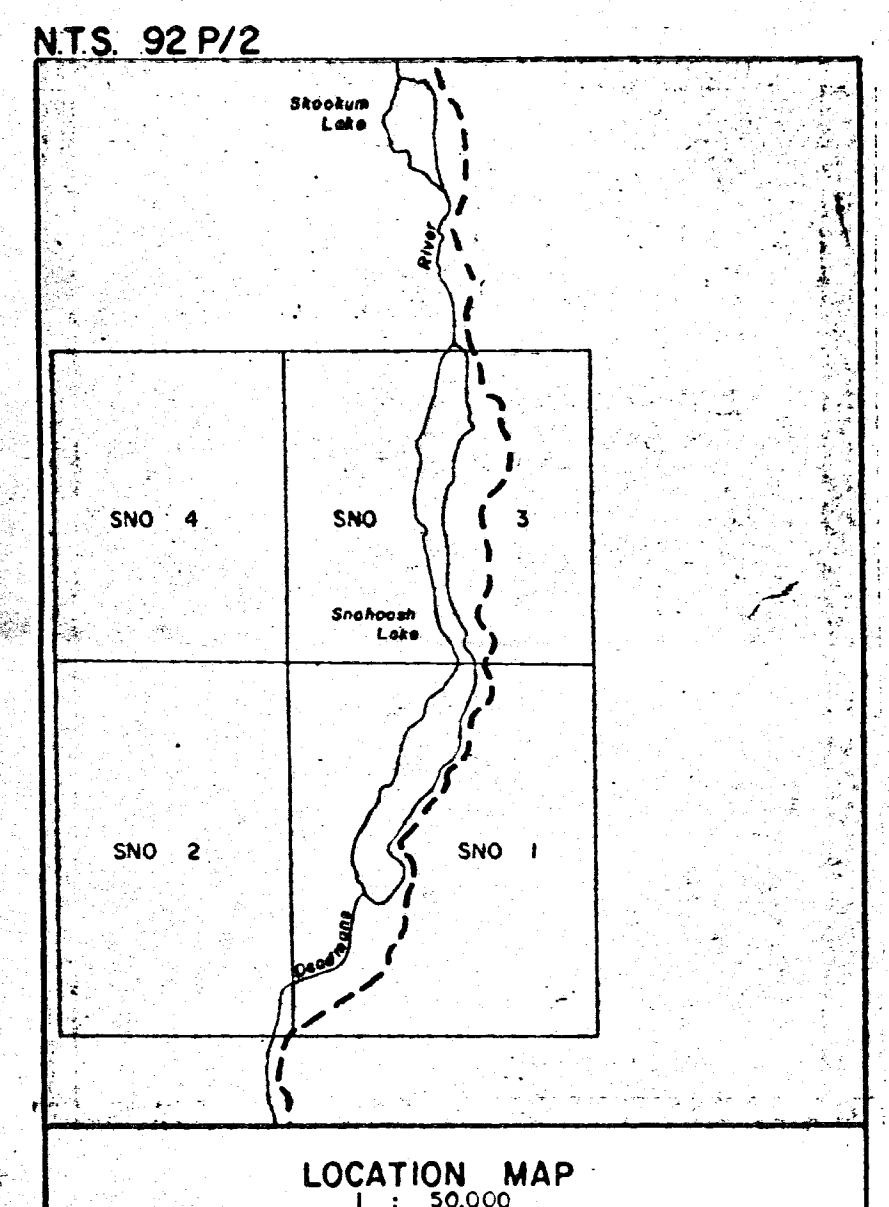
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 services Ltd.

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| DRAWN BY: N.P. |
| CHECKED BY: G.E.W. |
| DATE: DEC/90 |
| FIG. No: 2 |

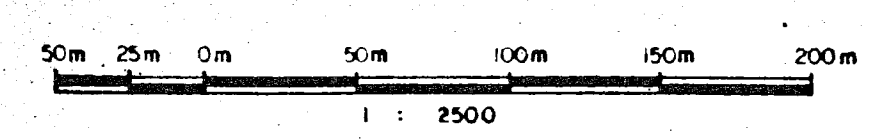
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 Date:
 By: GLEN E. WHITE - B.Sc.
 PROFESSIONAL
 OF
GLEN E. WHITE
 BRITISH
 Columbia
 ENGINEER
 GEOPHYSICIST



LEGEND
 — Cliff
 — Stream
 • Stations

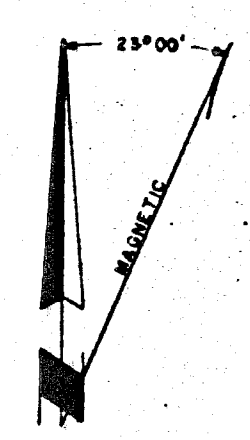
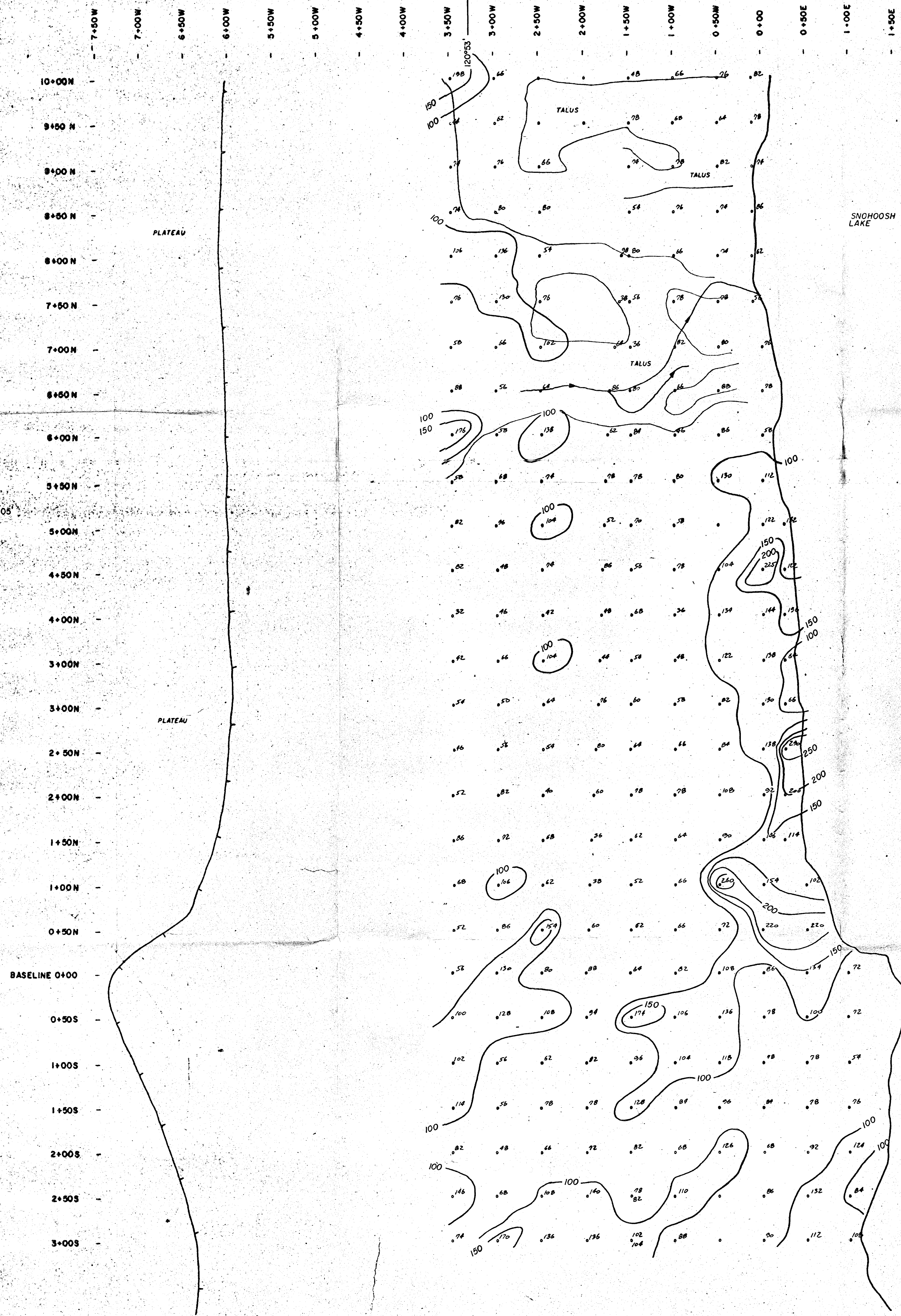


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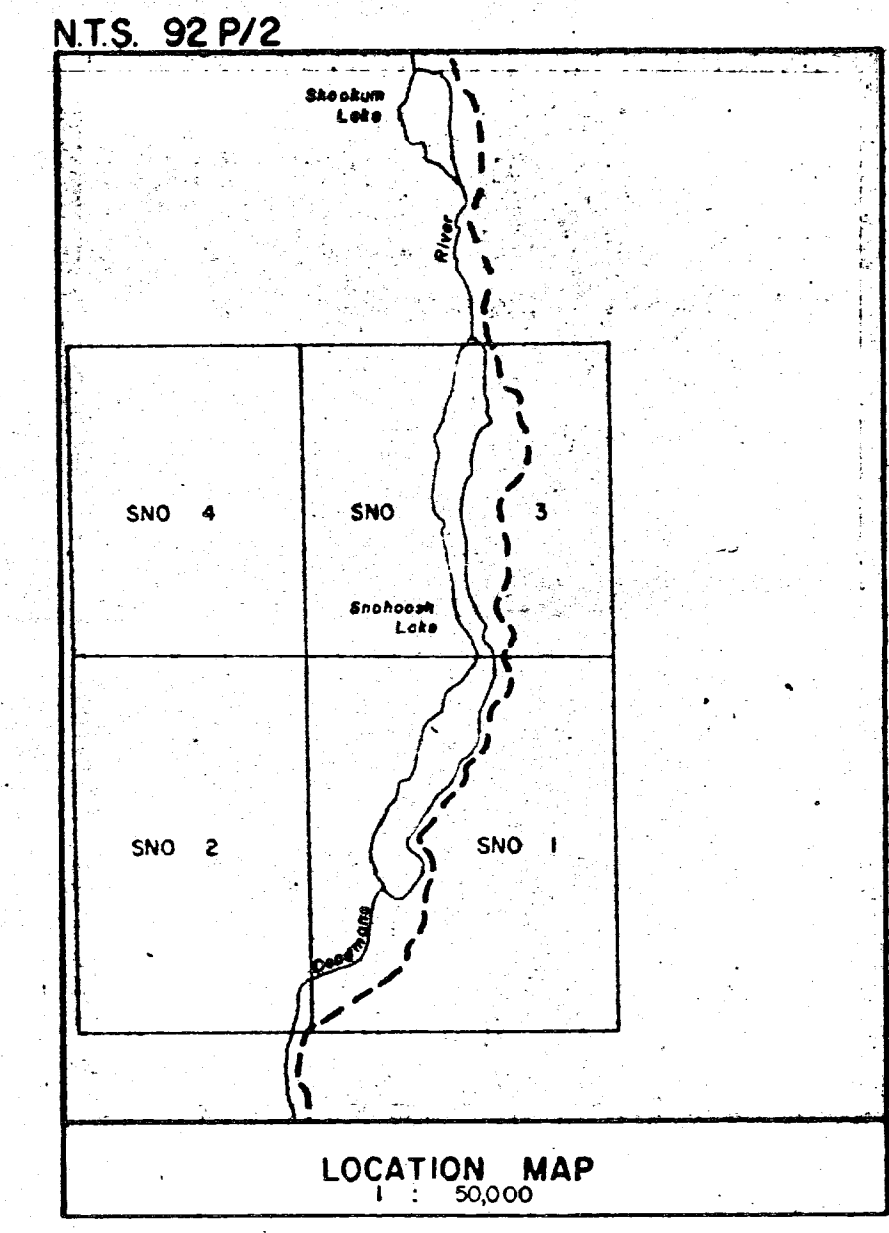
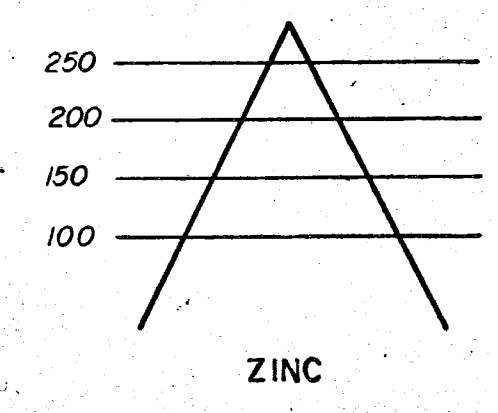


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| GEOCHEMICAL MAP SILVER P.P.M. | |
| <i>Glen E. White</i> geophysical consulting services Ltd. | INTERPRETED BY: G.E.W. DRAWN BY: N.P. CHECKED BY: G.E.W. DATE: 02/01/00 FIG. No. 4 |

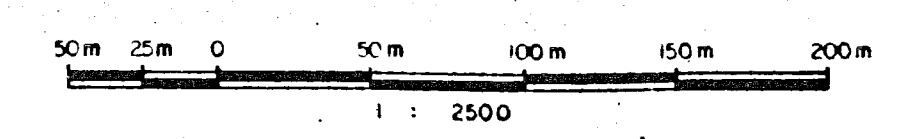
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 By GLEN E. WHITE - B.Sc.
 Date: _____
 PROFESSIONAL ENGINEER
 GEOPHYSICIST



LEGEND
 — Cliff
 — Stream
 • Stations

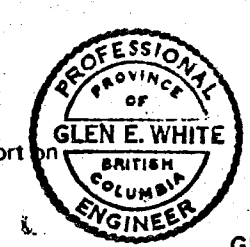


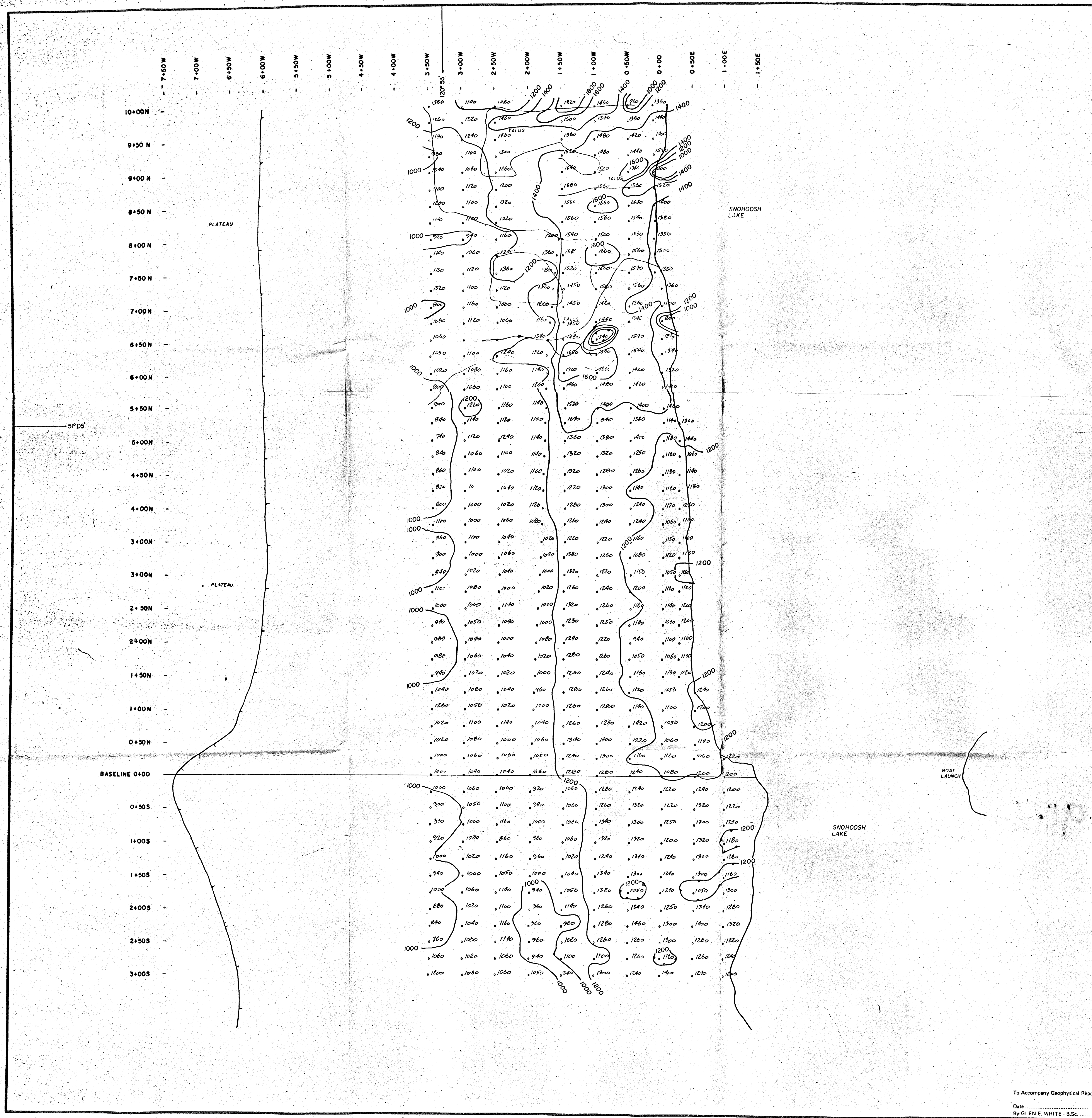
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| GEOCHEMICAL MAP ZINC P.M. | |
| <i>Glen E. White</i> geophysical consulting services Ltd. | INTERPRETED BY: G.E.W. DRAWN BY: N.P. CHECKED BY: G.E.W. DATE: DEC/80 FIG. No 5 |

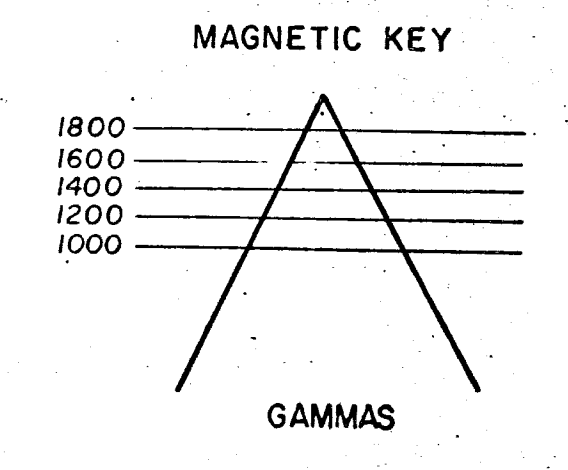
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 By GLEN E. WHITE - B.Sc. _____ GEOPHYSICIST





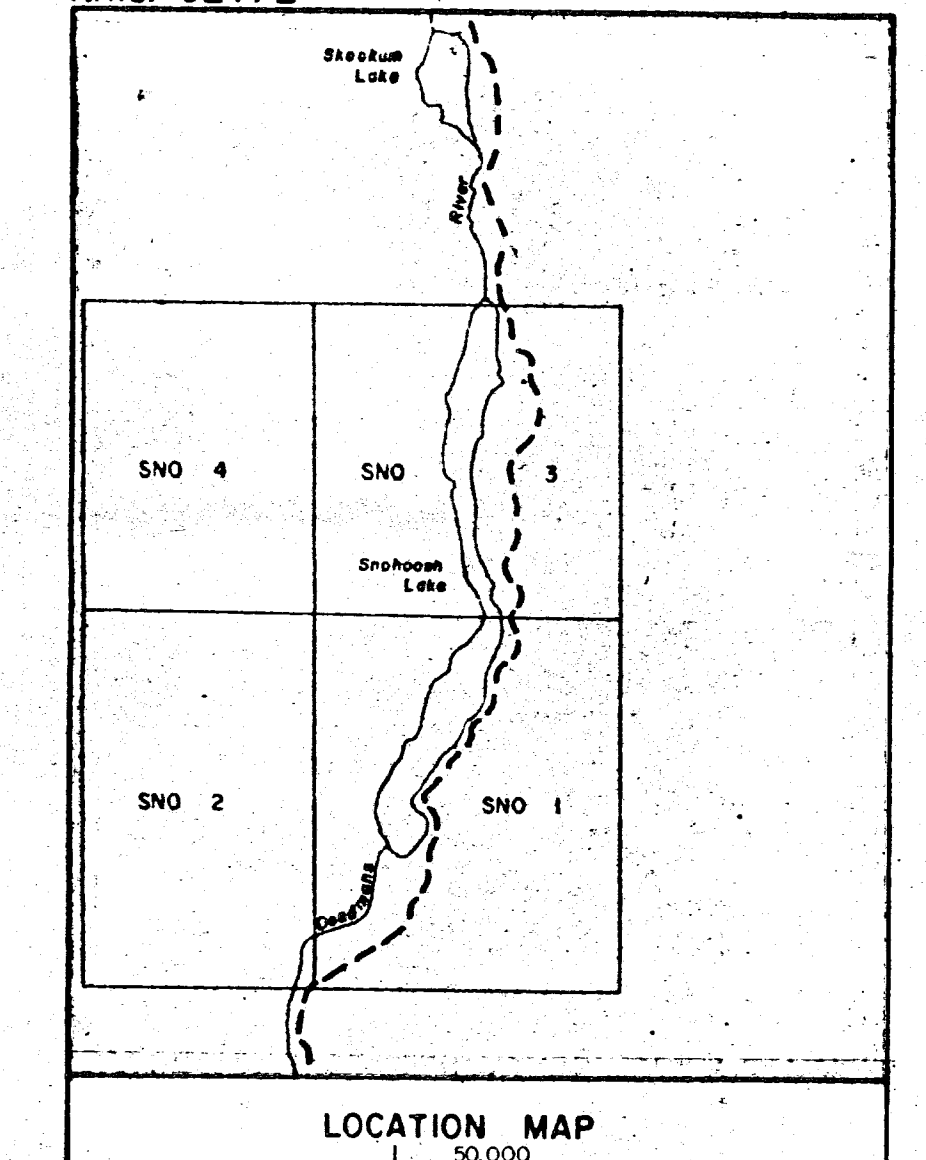
LEGEND

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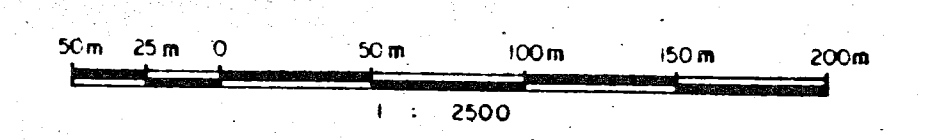


INSTRUMENT: Scintrex MF-1 Fluxgate Magnetometer

NTS. 92 P/2



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VERTICAL MAGNETIC INTENSITY (GAMMAS)

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INTERPRETED BY: G.E.W.
 DRAWN BY: N.P.
 CHECKED BY: G.E.W.
 DATE: DEC/90
 FIG. No. C

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 By GLEN E. WHITE - B.Sc. GEOPHYSICIST