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1983 OMEP REPORT
ON THE
SAVANT LAKE GOLD PROJECT
OM83-2-P-149

OM83-2-P-149

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DRAWINGS (in pockets)

5513-1a Group U-16, Northern Grid Geological Survey
5513-1b Group U-16, Northern Grid Electromagnetic Survey
5513-1c Group U-16, Northern Grid Geochemical Survey
5513-2a Group U-16, Central Grid Geological Survey
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INTRODUCTION

Mr. Robert R. Cranston (In Trust) submitted a proposal for a mineral exploration program on the Savant Lake Gold Project on July 19, 1983 on form OMEP 1 which met the requirements subject to the Ontario Mineral Exploration Program Act 1980 and the regulations made thereunder. The application was approved and duly registered as Designated Program OM83-2-P-149.

The Savant Lake Gold Project property consists of a total of 239 claims in the Patricia Mining Division. The exploration program for the period July 19 to November 30, 1983 consisted of line cutting, geophysical, geochemical and geological surveys. The program was funded by a joint venture of three participants.

THE PROPERTY, LOCATION AND ACCESS

The Savant Lake Gold property (Fig. 1) in the Patricia Mining Division, comprises 239 claims in three blocks as follows:

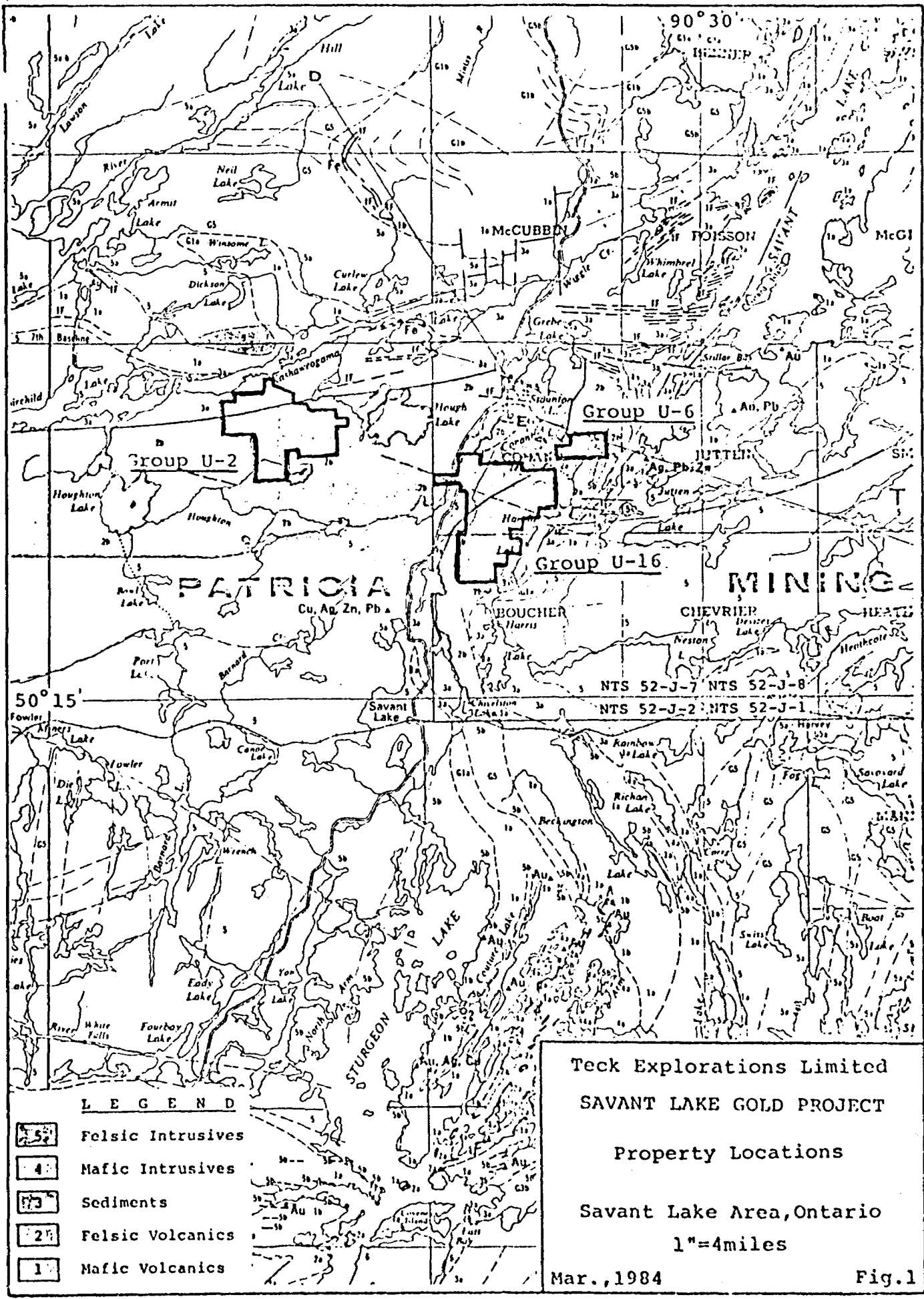


Fig.1

| Group | Twp./Area | Claim Nos. | Due Date |
|----------------------------|--|--------------------|------------|
| Group U-2 (89 claims) | Armitt Lake Area and Houghton Lake Area | Pa 639336-341 (6) | Feb. 24/84 |
| | | Pa 639345-363 (19) | Feb. 24/84 |
| | | Pa 639317-335 (19) | Feb. 24/84 |
| | | Pa 639373-398 (26) | Feb. 24/84 |
| | | Pa 639401-419 (19) | Feb. 24/84 |
| Group U-6 (22 claims) | Conant Twp. | Pa 403363-366 (4) | Oct. 10/84 |
| | | Pa 558445-454 (10) | Feb. 24/84 |
| | | Pa 649303-304 (2) | Feb. 24/84 |
| | | Pa 705589-594 (6) | Jun. 30/84 |
| Group U-16 (128 claims) | Conant and Boucher Twps. | Pa 558396-444 (49) | Feb. 24/84 |
| | | Pa 612193-198 (6) | Jan. 06/85 |
| | | Pa 612404-419 (16) | Jan. 06/85 |
| | | Pa 649246-302 (57) | Feb. 24/84 |

The property is located 8 km north of the town of Savant Lake which is approximately 237 km north-northwest of Thunder Bay, Ontario.

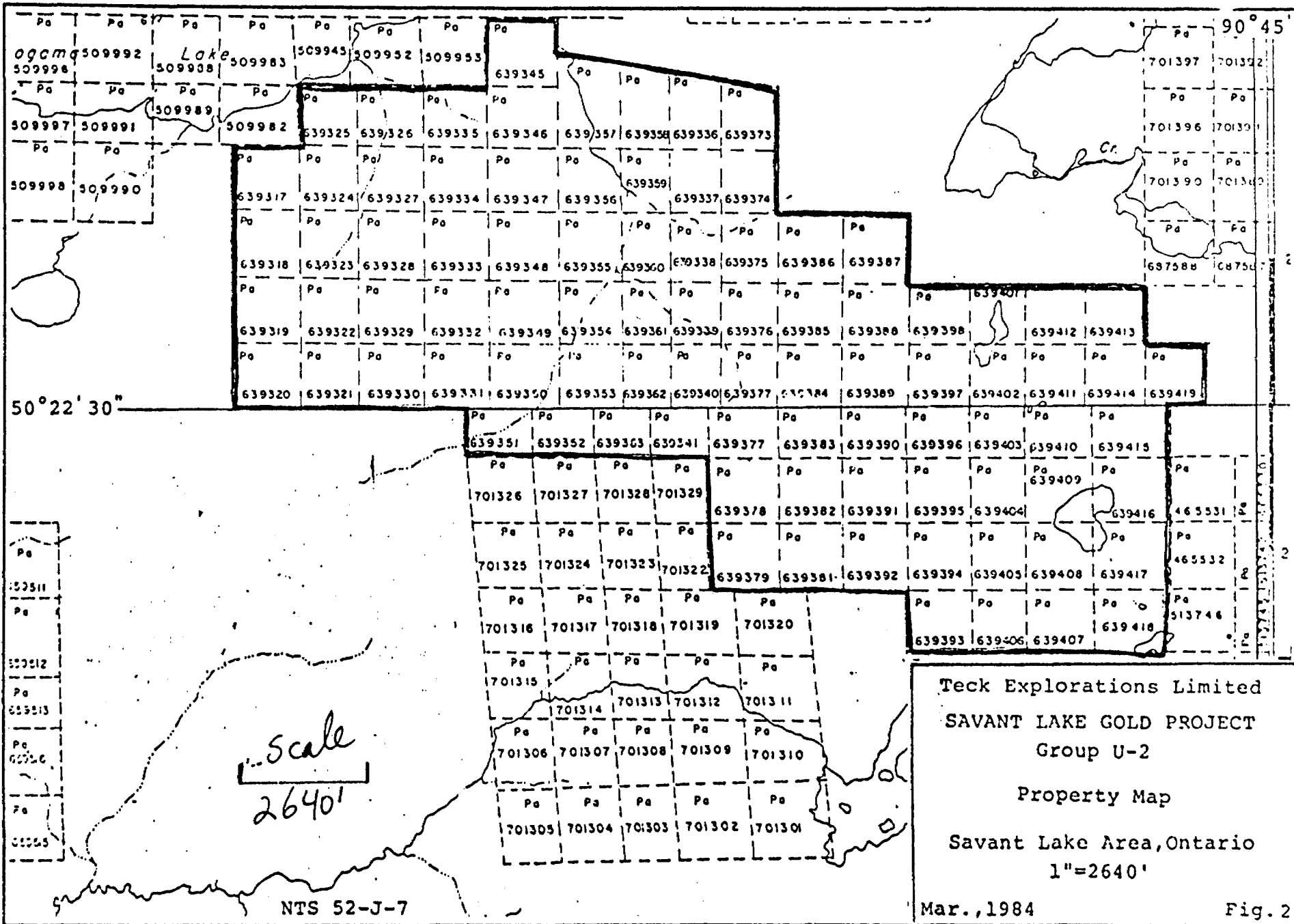
The property is accessible from Hwy. 599 which passes through the area north of the town of Savant Lake.

EXPLORATION PROGRAM

(for the period July 19 to November 30, 1983)

Group U-2

Reconnaissance of the area revealed the presence of a thick sand plain. As a result of this, no work was carried out on the property (Fig. 2).



Group U-6

Work on this property consisted of line cutting only. A base line 0.67 km long was cut on an azimuth of 090° and 9.5 km of cross lines were established at approximately 60 m intervals (Fig. 3).

Due to the early onset of winter conditions the originally planned geochemical survey was not undertaken.

Group U-16

Three grids were established on this claim group (Fig. 4). The area is relatively flat with a maximum of 10 m of relief. Outcrop covers approximately 10% of the area. A program summary is presented in Table I.

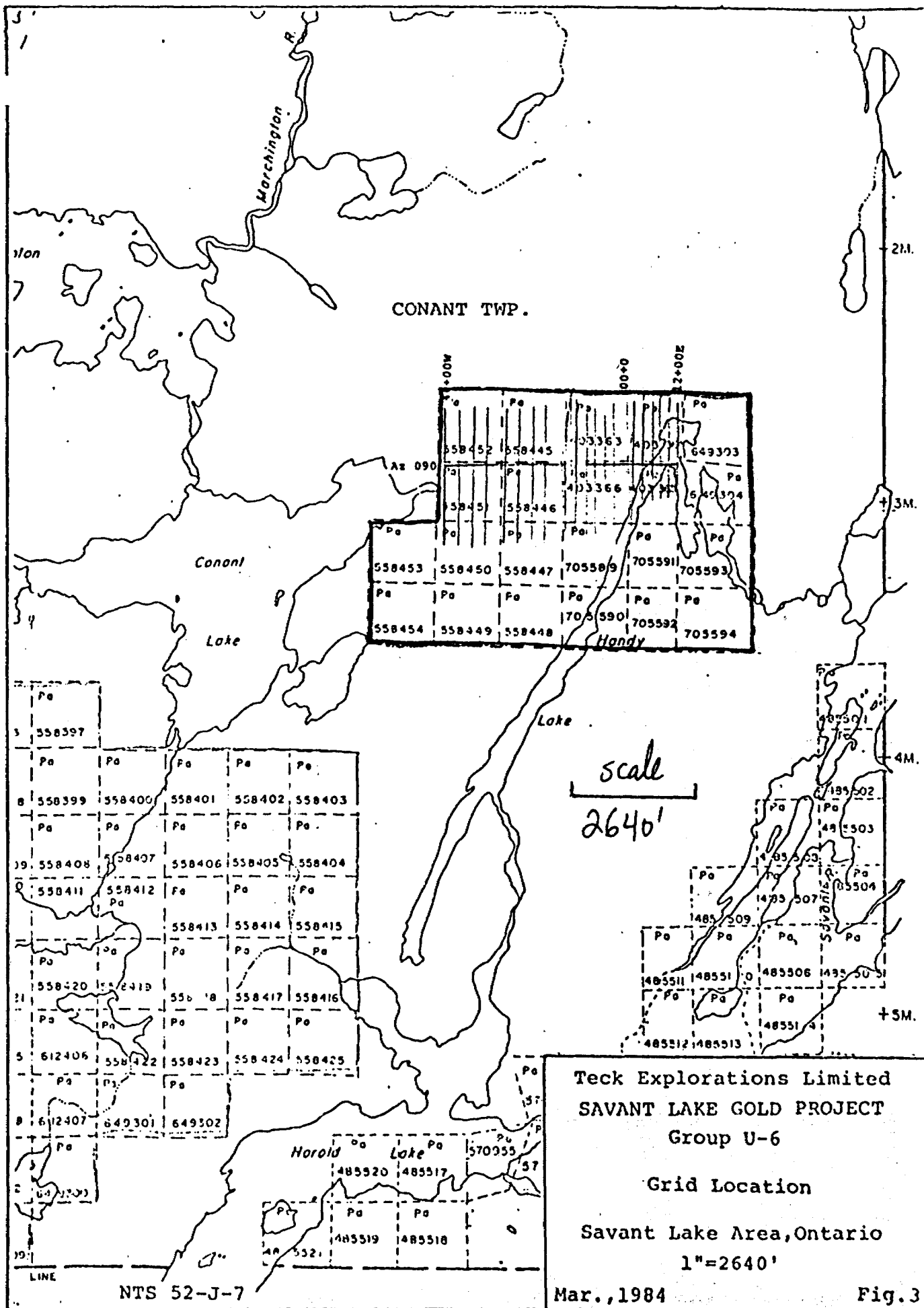
(a) Geophysical and Geochemical Surveys

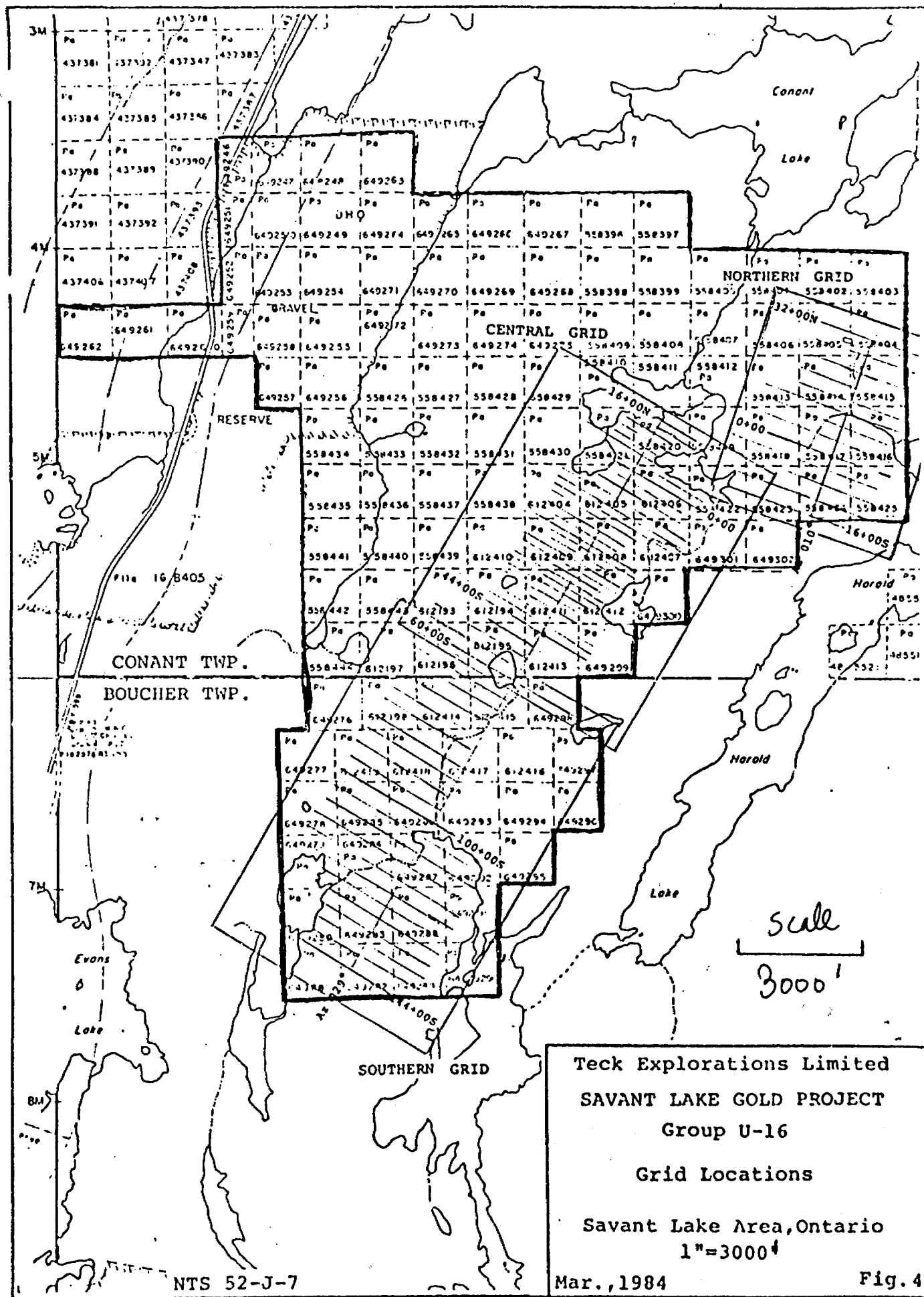
i) Northern Grid

Lines were cut from a central base line (azimuth 010°) at 400-foot intervals and chained with stations established at 100-foot intervals.

TABLE I
 SAVANT LAKE GOLD PROJECT
 GROUP U-16
 Program Summary

| Grid | Line cutting | | | | Surveys | | |
|----------|------------------------|---------|------------------|-------------------------|--|--|------------|
| | Base line | | Lines | | Geophysical | Geochemical | Geological |
| | Length | Azimuth | Spacing | Total length | | | |
| Southern | 1.9 miles (3 km) | 029° | 400' (~120 m) | 14 miles (22.4 km) | Crone CEM 1830 Hz & 390 Hz Readings at 100' Coil separation 400' | Selective areas of grid only (28 samples) | X |
| Central | 1.1 miles (1.8 km) | 029° | 200' (60 m) | 15.2 miles (24.3 km) | Magnetometer (Scintrex MF2) Readings at 25' | Selective areas of grid only (89 samples) | X |
| Northern | 0.9 miles (1.45 km) | 010° | 400' (~120 m) | 7.2 miles 1.15 km | Crone CEM 1830 Hz & 390 Hz Readings at 100' Coil separation 400' | B horizon (where present) soil survey entire grid | X |





Shootback readings (1830 and 390 Hz, Crone CEM) were taken at 100-foot intervals along the lines using a 400-foot coil spacing. Five relatively strong conductors were located. The conductors are from 400 to 1,600 ft. long and display sharp shoulder characteristics indicating shallow depth (Dwg. 5513-1b). The four conductors on the southeastern portion of the grid may be folded equivalents of the same horizon.

A soil geochemical survey was conducted from the grid (approximately 761 samples). B horizon soils (where present) were sampled, using a grub hoe, at 50-foot intervals. The 50 g samples were dried, sieved to -80 mesh, and analyzed for gold at X-Ray Assay Laboratories using the fire assay DC plasma method, detection limit 2 ppb. Humus samples were analyzed by neutron activation, detection limit 1 ppb. The results have been plotted in Dwg. 5513-1c and contoured.

ii) Central Grid

Lines were cut from a central base line (azimuth 029°) at 200-foot intervals and chained with stations established at 100-foot intervals.

Magnetometer readings were taken at 25-foot intervals along the lines. Base stations were established at the intersection of the base line and cross lines and all readings were corrected for diurnal change. Extremely erratic results are apparent in the central portion of the grid whereas, the remainder of the area is relatively flat. The extremely erratic results were impossible to contour normally, so only the areas of very high readings are outlined (Dwg. 5513-2c). It is expected that these areas are underlain by oxide iron formation.

A total of 81 soil samples were collected from three areas of the grid and analyzed at X-Ray Assay Laboratories. Fifty-five of the samples were taken from approximately 3+00E to 1+25W on lines 13S to 16S. Thirteen samples were taken from 6+00E to 9+00E on line 28S and thirteen samples were taken from 1+00E to 4+00E on line 36S.

Where present, the B horizon material was sampled and analyzed for gold by the fire assay DC plasma

emission method, detection limit 2 ppb. Humus samples were analyzed by neutron activation, detection limit 1 ppb. The results appear on Drawing 5513-2a.

The sampling was confined to areas known to be favourable from past geochemical surveys.

iii) Southern Grid

The Southern grid is an extension of the Central grid. The lines were cut at 400-foot intervals and chained with stations established at 100-foot intervals.

Shootback readings (Crone CEM, 1830 and 390 Hz) were taken at 100-foot intervals along the lines using a 400-foot coil spacing (Dwg. 5513-3b, 2b).

Several short strong discontinuous conductors were outlined. The continuity of the axes is arbitrary but the direction of the axes has been chosen to parallel the regional geological strike. The strength of the conductors indicates they are located close to surface and the discontinuous nature indicates folding or faulting.

The soils were sampled in two areas in the northwestern section of the grid (Dwg. 5513-3a). A total of 28 samples were collected and analyzed for gold at X-Ray Laboratories in Toronto. B horizon soils were analyzed by fire assay DC plasma emission method with a detection limit of 2 ppb and humus samples were analyzed by neutron activation with a detection limit of 1 ppb.

(b) Geological Survey

The entire U-16 property was mapped geologically and selective outcrop areas were sampled and assayed for gold at X-Ray Assay Laboratories by the fire assay DC plasma method. The assay results are shown on Drawings 5513-1a, 2a, and 3a.

i) Geology

According to Bond (1979), the geology in the vicinity of Claim Group U-16 consists of an east-facing, homoclinal sequence of greywacke, mafic flows and felsic tuff. To the north, this sequence is observed to be folded about a northeast-trending anticlinal axis.

Detailed geological mapping has revealed a somewhat more complex picture. Bond's (1979) homoclinal sequence is now known to be isoclinally folded about a north-south axis, which predates the northeast trending one. Intricately interbanded sediment and mafic tuff were found in the core of the early fold structure, and not mafic flows.

1. Amphibolite

Most of the Au anomalies, and all of the Au mineralization uncovered so far on the property is confined to a broad band of amphibolite, which runs through the centre of the claim block. This band corresponds to Bond's (1979) mafic flow unit, which has now been shown to be quite heterogeneous, and almost devoid of flow material.

For the most part, these rocks consist of medium- to coarse-grained dark green amphibole, in a fine-grained, granular, buff-coloured quartz (\pm carbonate) matrix. The proportion of porphyroblast to matrix is quite variable, although for the most part,

it ranges from 50-75%. These rocks are also highly variable texturally. Massive "gabbroic" and coarse-laminated textures are the most common, but a variegated variety is also present and appears to have resulted from the cross-folding of bedded amphibolite.

These rocks have been mapped in terms of their amphibolite content and texture. They are thought to represent metamorphosed, interbanded and deformed siliceous dolomite, calcareous siltstone, basaltic tuff and minor silicate-facies iron formation.

2. Basalt

Thin bands of basalt were recognized within the amphibolite unit, and these were mapped separately. Rocks mapped as basalt are mostly fine grained, dark green, weakly laminated and tuffaceous. However, a pillowed flow was identified at 13+50W, L108+00S. Also, a gradation between fine grained basaltic tuff and medium grained gabbroic rock was observed between the base line at L104+00S and at L116+00S, 8+00E. Carbonate-rich basaltic

tuff, gradational between this and the above unit, are well exposed at 12+75W, on line 117+00S.

3. Actinolite-Talc Rock

Several bands of soft, light grey-weathering rocks have been mapped on the South and Central grids. These consist of roughly equal proportions of fine grained, matted, fibrous black amphibole (ferro actinolite?) and interstitial talc. Porphyroblasts of ankeritic carbonate are present locally, and weak lamination is often discernable. These bands are often found in contact with pyritiferous chert, and are thought to represent metamorphosed Fe-Mg-Ca-Si sinter.

4. Sediment

Fine grained clastic sediment separates the above three units from the surrounding felsic volcanics on all three grids. Massive to coarse-bedded silty greywacke predominates, but graphitic argillite is also present between lines 24+00N and 32+00N on the North grid. These sediments may grade into felsic tuff in the vicinity of 18+00W, line 124+00S

and into amphibolite near 21+00W, line 56+00S. Bands of silty greywacke increase in abundance in the amphibolite towards the North grid, which suggests a change to a relatively distal mafic volcanic depositional facies in this direction.

5. Intermediate-felsic Volcanics

A distinct band of "mixed" tuff is present on the eastern margin of the amphibolite unit in the central part of the property. This band is lensoid, extends from line 26+00S to line 100+00S and attains a maximum width of approximately 800' near line 74+00S. It consists of finely interbedded andesitic and dacitic tuff, with subordinate intermediate lapilli tuff and silty greywacke. This unit appears to grade into fine-laminated felsic tuff to the north and south.

6. Felsic Volcanics

Abundant felsic volcanics bound all of the above lithologies to the east and west. Fine-laminated dacitic ash tuff is the predominant felsic rock type but weakly laminated feldspar crystal tuff is also

common, particularly east of the base line on the North grid. Massive to weakly flow-banded(?) rhyodacitic flows are present at the north end of the Central grid and in the southeastern part of the North grid.

7. Felsic Hypabyssal Rocks

A number of high-level, feldspar-porphyrific felsic intrusive bodies have been recognized on the property, and appear to be particularly abundant at the north end of the Central grid. These rocks are massive, dacitic and are characterized by abundant, coarse euhedral feldspar phenocrysts and a fine grained to aphanitic? groundmass. Coarse bluish-grey quartz phenocrysts are also present on lines 16+00S and 8+00S of the North grid.

The presence of these intrusive bodies, and their association with rhyodacitic flows in the Central part of the property, suggests proximity to a local felsic volcanic centre. This contrasts with the distal mafic volcanic facies observed in the same area.

8. Diorite

Two concordant bodies of dioritic rock have been mapped on the North grid. These are similar to the amphibole-rich, "gabbroic"-textured amphibolites mapped elsewhere but in contrast to the latter, they have a medium-grained, crystalline plagioclase-rich matrix. The presence of a formational shootback anomaly in association with one of these bodies suggests that they are less homogeneous than was apparent in the field.

ii) Structure and Metamorphism

North-south trending isoclinal folds were mapped or inferred in basalt or actinolite-talc rock at a number of localities on the South and Central grids. These appear to pre-date the northeast trending open regional fold shown on Bond's (1979) map. As indicated above, cross folding of F_1 and F_2 structures probably account for much of the complexity found in the amphibolite zone. In any case, an amphibolite-cored, steeply north plunging isoclinal F_2 syncline, on which major F_2 faulting

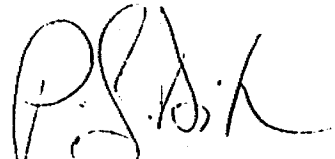
has been superimposed, is seen as the main structural feature of the grids.

The rocks in the area appear to have been metamorphosed to the lower greenschist facies.

FINANCIAL REPORT

One-third of the project cost was funded by the applicant. A statement of expenditures, contributed by the applicant for the period July 19 to November 30, 1983, appears in Appendix I along with the completed OMEP Form 2. Eligible expenditures total \$14,413.

Respectfully submitted,
TECK EXPLORATIONS LIMITED



P.J. Dillon
March 23, 1984

#922T
NTS 52J/78
Z PJD-379

REFERENCES

BOND, W.D., 1979. Geology of Conant, Jutten and Smye Townships (Savant Lake Area), District of Thunder Bay, O.G.S. GR 182.

FOX, J.S., 1984. Interim Rept. on Area U Gold, Savant Lake Area, for the Dighem Syndicate. Teck Explorations Rept # 921T.

Z PJD-379

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: TECK EXPLORATIONS LIMITED
ATTN: KEN THORSEN
2189 ALGONQUIN AVENUE
NORTH BAY, ONTARIO
P1B 4Z3

CUSTOMER NO. 700

DATE SUBMITTED
8-JUL-83

REPORT 13722

REF. FILE 14032-P3

515 SOIL, 252 HUMUS

WERE ANALYSED AS FOLLOWS:

| | METHOD | DETECTION LIMIT |
|--------|--------|-----------------|
| AU PPB | FADCP | 2.000 |
| AU PPS | NA | 1.000 |

AREA U.

DATE 29-AUG-83

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 

| SAMPLE | AU PPB |
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| 1-SOIL | <2 |
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| 3-SOIL | <2 |
| 4-SOIL | <2 |
| 5-SOIL | <2 |
| 6-SOIL | 2 |
| 7-SOIL | <2 |
| 8-SOIL | <2 |
| 9-SOIL | <2 |
| 10-SOIL | <2 |
| 11-SOIL | 2 |
| 12-SOIL | <2 |
| 13-SOIL | <2 |
| 14-SOIL | 5 |
| 15-SOIL | 6 |
| 16-SOIL | <2 |
| 17-SOIL | 4 |
| 18-SOIL | <2 |
| 19-SOIL | 7 |
| 20-SOIL | 3 |
| 21-SOIL | <2 |
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| 36-SOIL | <2 |
| 37-SOIL | <2 |
| 38-SOIL | 5 |
| 40-SOIL | 3 |
| 41-SOIL | <2 |
| 43-SOIL | <2 |
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| 46-SOIL | <2 |
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| 48-SOIL | 7 |
| 49-SOIL | <2 |
| 50-SOIL | 7 |
| 51-SOIL | 4 |
| 52-SOIL | <2 |
| 54-SOIL | <2 |
| 55-SOIL | 2 |
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| 73-SOIL | 3 |
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| 76-SOIL | 9 |
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| 79-SOIL | 8 |
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| 84-SOIL | <2 |
| 85-SOIL | <2 |
| 86-SOIL | 53 |
| 87-SOIL | <2 |
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| 107-SOIL | <2 |
| 145-SOIL | 3 |
| 146-SOIL | 3 |
| 148-SOIL | <2 |
| 150-SOIL | 23 |
| 151-SOIL | 3 |
| 152-SOIL | <2 |
| 153-SOIL | <2 |
| 154-SOIL | <2 |
| 155-SOIL | <2 |
| 156-SOIL | 12 |

| SAMPLE | AU PPB |
|----------|--------|
| 158-SOIL | 7 |
| 159-SOIL | 3 |
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| 164-SOIL | 10 |
| 165-SOIL | 2 |
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| 177-SOIL | 14 |
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| 180-SOIL | 6 |
| 186-SOIL | <2 |
| 187-SOIL | <2 |
| 190-SOIL | <2 |
| 191-SOIL | 16 |
| 192-SOIL | 130 |
| 193-SOIL | 5 |
| 194-SOIL | 4 |
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| 196-SOIL | <2 |
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| 198-SOIL | <2 |
| 199-SOIL | 3 |
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| 207-SOIL | <2 |
| 208-SOIL | <2 |
| 209-SOIL | 130 |
| 210-SOIL | 3 |
| 211-SOIL | 210 |
| 212-SOIL | 11 |
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| 214-SOIL | 9 |
| 215-SOIL | 65 |
| 216-SOIL | 4 |
| 217-SOIL | 14 |
| 218-SOIL | 9 |
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| 220-SOIL | 4 |
| 221-SOIL | 5 |
| 222-SOIL | 11 |
| 223-SOIL | 10 |
| 225-SOIL | 2 |
| 226-SOIL | 4 |
| 227-SOIL | 19 |

| SAMPLE | AU PPB |
|----------|----------|
| 228-SOIL | 7 |
| 229-SOIL | 3 |
| 230-SOIL | 13 |
| 231-SOIL | 99 |
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| 233-SOIL | 4 |
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| 235-SOIL | 48 |
| 236-SOIL | 13 |
| 237-SOIL | <2 |
| 238-SOIL | 14 |
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| 240-SOIL | 6 |
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| 242-SOIL | <2 |
| 243-SOIL | 7 - |
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| 284-SOIL | 82 |
| 285-SOIL | 200 |
| 286-SOIL | 6 |
| 287-SOIL | 6 |
| 288-SOIL | 7 |
| 289-SOIL | 13 |
| 290-SOIL | 29 |
| 291-SOIL | 53 |
| 292-SOIL | 7 |
| 293-SOIL | 38 |
| 294-SOIL | 21 |

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

| SAMPLE | AU PPB |
|----------|----------------|
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| 296-SOIL | 7 |
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| 305-SOIL | 5 |
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| 308-SOIL | 8 |
| 309-SOIL | 2 |
| 310-SOIL | 11 |
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| 315-SOIL | <2 |
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| 323-SOIL | 3 |
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| 326-SOIL | <2 |
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| 330-SOIL | 2 |
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| 335-SOIL | <2 |
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| 340-SOIL | 2 |
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| 345-SOIL | 13 |
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| 352-SOIL | <2 |
| 353-SOIL | <2 |
| 354-SOIL | 3 |
| 355-SOIL | <2 |
| 356-SOIL | 2 |
| 358-SOIL | 2 |
| 364-SOIL | 3 |

| SAMPLE | AU PPB |
|----------|--------|
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| 366-SOIL | <2 |
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| 380-SOIL | <2 |
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| 401-SOIL | 29 |
| 402-SOIL | <2 |
| 403-SOIL | 4 |
| 404-SOIL | 5 |
| 405-SOIL | 5 |
| 501-SOIL | 48 |
| 506-SOIL | 5 |
| 507-SOIL | <2 |
| 508-SOIL | 30 |
| 509-SOIL | 8 |
| 510-SOIL | 130 |
| 511-SOIL | 2 |
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| 513-SOIL | <2 |
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| 515-SOIL | 4 |
| 516-SOIL | <2 |
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| 518-SOIL | 12 |
| 519-SOIL | 4 |
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| 521-SOIL | 35 |
| 522-SOIL | 8 |
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| 526-SOIL | 3 |
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| 531-SOIL | 15 |
| 532-SOIL | <2 |
| 533-SOIL | <2 |
| 534-SOIL | 6 |
| 535-SOIL | <2 |
| 536-SOIL | 2 |
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| 538-SOIL | <2 |
| 539-SOIL | <2 |
| 540-SOIL | <2 |
| 541-SOIL | <2 |
| 542-SOIL | <2 |
| 543-SOIL | <2 |
| 544-SOIL | 340 |
| 545-SOIL | 3 |
| 546-SOIL | 6 |

| SAMPLE | AU PPB |
|-----------|----------|
| 547-SOIL | <2 |
| 548-SOIL | <2 |
| 549-SOIL | 4 |
| 550-SOIL | 7 |
| 551-SOIL | 35 |
| 552-SOIL | <2 |
| 553-SOIL | <2 |
| 554-SOIL | <2 |
| 557-SOIL | 9 |
| 558-SOIL | 22 |
| 559-SOIL | 11 |
| 560-SOIL | <2 |
| 561-SOIL | <2 |
| 562-SOIL | <2 |
| 563-SOIL | 11 |
| 564-SOIL | 5 |
| 565-SOIL | <2 |
| 566-SOIL | 27 |
| 567-SOIL | <2 |
| 568-SOIL | <2 |
| 569-SOIL | <2 |
| 571-SOIL | <2 |
| 573-SOIL | 5 |
| 577-SOIL | SMP MISS |
| 578-SOIL | <2 |
| 579-SOIL | <2 |
| 591-SOIL | <2 |
| 592-SOIL | 2 |
| 593-SOIL | <2 |
| 594-SOIL | 14 |
| 595-SOIL | 4 |
| 596-SOIL | 7 |
| 597-SOIL | 5 |
| 598-SOIL | 9 |
| 599-SOIL | 10 |
| 600-SOIL | 18 |
| 600A-SOIL | 22 |
| 601-SOIL | <2 |
| 602-SOIL | <2 |
| 603-SOIL | <2 |
| 604-SOIL | <2 |
| 605-SOIL | <2 |
| 606-SOIL | 120 |
| 607-SOIL | 18 |
| 608-SOIL | 3 |
| 609-SOIL | 6 |
| 610-SOIL | 13 |
| 611-SOIL | 9 |
| 612-SOIL | 41 |
| 613-SOIL | 7 |

SMP MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

| SAMPLE | AU PPB |
|-----------|----------|
| 614-SOIL | 4 |
| 615-SOIL | <2 |
| 619-SOIL | SMP MISS |
| 620-SOIL | 16 |
| 620A-SOIL | 8 |
| 621-SOIL | 12 |
| 622-SOIL | 3 |
| 623-SOIL | <2 |
| 625-SOIL | <2 |
| 626-SOIL | 2 |
| 627-SOIL | 3 |
| 628-SOIL | 2 |
| 629-SOIL | 11 |
| 630-SOIL | 3 |
| 631-SOIL | 5 |
| 632-SOIL | 3 |
| 633-SOIL | 5 |
| 634-SOIL | 5 |
| 635-SOIL | 3 |
| 636-SOIL | 3 |
| 637-SOIL | 3 |
| 638-SOIL | 3 |
| 639-SOIL | 12 |
| 640-SOIL | c |
| 641-SOIL | 9 |
| 644-SOIL | <2 |
| 645-SOIL | 18 |
| 646-SOIL | 4 |
| 647-SOIL | <2 |
| 648-SOIL | <2 |
| 649-SOIL | <2 |
| 650-SOIL | <2 |
| 651-SOIL | 7 |
| 652-SOIL | <2 |
| 653-SOIL | <2 |
| 654-SOIL | 7 |
| 655-SOIL | 5 |
| 663-SOIL | <2 |
| 664-SOIL | 3 |
| 665-SOIL | 4 |
| 666-SOIL | <2 |
| 667-SOIL | 2 |
| 668-SOIL | <2 |
| 670-SOIL | 3 |
| 671-SOIL | 8 |
| 672-SOIL | 13 |
| 673-SOIL | 31 |
| 674-SOIL | 17 |
| 675-SOIL | <2 |
| 676-SOIL | 2 |

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

| SAMPLE | AU PPB |
|-----------|--------|
| 677-SOIL | 3 |
| 676-SOIL | <2 |
| 682-SOIL | 2 |
| 683-SOIL | <2 |
| 683A-SOIL | <2 |
| 686-SOIL | 6 |
| 687-SOIL | <2 |
| 688-SOIL | 2 |
| 689-SOIL | <2 |
| 690-SOIL | 5 |
| 691-SOIL | 31 |
| 692-SOIL | <2 |
| 693-SOIL | 2 |
| 694-SOIL | 43 |
| 695-SOIL | 10 |
| 696-SOIL | 3 |
| 697-SOIL | 4 |
| 698-SOIL | 2 |
| 699-SOIL | <2 |
| 699A-SOIL | <2 - |
| 700-SOIL | 9 |
| 703-SOIL | <2 |
| 704-SOIL | <2 |
| 705-SOIL | <2 |
| 706-SOIL | 6 |
| 707-SOIL | <2 |
| 708-SOIL | <2 |
| 709-SOIL | <2 |
| 710-SOIL | <2 |
| 711-SOIL | <2 |
| 712-SOIL | <2 |
| 713-SOIL | <2 |
| 714-SOIL | 2 |
| 715-SOIL | 8 |
| 717-SOIL | <2 |
| 718-SOIL | <2 |
| 719-SOIL | <2 |
| 720-SOIL | <2 |
| 721-SOIL | 5 |
| 727-SOIL | <2 |
| 802-SOIL | <2 |
| 803-SOIL | <2 |
| 804-SOIL | 2 |
| 805-SOIL | 11 |
| 806-SOIL | 8 |
| 807-SOIL | <2 |
| 808-SOIL | 19 |
| 809-SOIL | 19 |
| 810-SOIL | 49 |
| 811-SOIL | 7 |

| SAMPLE | AU PPB |
|----------|----------|
| 812-SOIL | 2 |
| 813-SOIL | 2 |
| 814-SOIL | 3 |
| 817-SOIL | <2 |
| 818-SOIL | 17 |
| 819-SOIL | <2 |
| 820-SOIL | 23 |
| 821-SOIL | 26 |
| 824-SOIL | <2 |
| 825-SOIL | 2 |
| 826-SOIL | 9 |
| 827-SOIL | <2 |
| 828-SOIL | <2 |
| 829-SOIL | 4 |
| 831-SOIL | 6 |
| 832-SOIL | <2 |
| 833-SOIL | < |
| 834-SOIL | < |
| 835-SOIL | <2 |
| 836-SOIL | <2 |
| 843-SOIL | SMP MISS |
| 844-SOIL | SMP MISS |
| 852-SOIL | 2 |
| 853-SOIL | <2 |
| 854-SOIL | 4 |
| 856-SOIL | 2 |
| 857-SOIL | 3 |
| 878-SOIL | 8 |
| 880-SOIL | 260 |
| 881-SOIL | 43 |
| 882-SOIL | 3 |
| 883-SOIL | 2 |
| 884-SOIL | 2 |
| 885-SOIL | <2 |
| 886-SOIL | 3 |
| 887-SOIL | <2 |
| 888-SOIL | <2 |
| 894-SOIL | 2 |
| 895-SOIL | 4 |
| 896-SOIL | 7 |
| 898-SOIL | <2 |
| 899-SOIL | 6 |
| 901-SOIL | 4 |
| 902-SOIL | 3 |
| 907-SOIL | 9 |
| 908-SOIL | 5 |
| 909-SOIL | 7 |
| 910-SOIL | 7 |
| 911-SOIL | 9 |
| 912-SOIL | 2 |

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

| SAMPLE | AU PPB |
|----------|--------|
| 913-SOIL | <2 |
| 914-SOIL | 2 |
| 915-SOIL | 11 |
| 916-SOIL | <2 |
| 917-SOIL | 15 |
| 918-SOIL | 42 |
| 919-SOIL | 12 |
| 920-SOIL | 64 |
| 921-SOIL | 4 |
| 922-SOIL | <2 |
| 923-SOIL | <2 |
| 928-SOIL | 5 |
| 929-SOIL | 3 |
| 930-SOIL | <2 |
| 931-SOIL | 17 |

| SAMPLE | AU PP8 |
|-------------|------------|
| 23-HUMUS ✓ | 2 <i>A</i> |
| 24-HUMUS ✓ | 4 |
| 33-HUMUS ✓ | 4 |
| 39-HUMUS ✓ | 5 |
| 42-HUMUS ✓ | 1 |
| 53-HUMUS ✓ | <1 |
| 65-HUMUS ✓ | 11 |
| 71-HUMUS ✓ | 4 |
| 72-HUMUS ✓ | <1 |
| 74-HUMUS ✓ | 1 |
| 89-HUMUS ✓ | 1 |
| 90-HUMUS ✓ | 1 |
| 91-HUMUS ✓ | <1 |
| 92-HUMUS ✓ | 1 |
| 93-HUMUS ✓ | 3 |
| 94-HUMUS ✓ | <1 |
| 105-HUMUS ✓ | 1 |
| 108-HUMUS ✓ | 1 |
| 109-HUMUS ✓ | 10 |
| 110-HUMUS ✓ | 1 |
| 111-HUMUS ✓ | 2 |
| 112-HUMUS ✓ | 4 |
| 113-HUMUS ✓ | 4 |
| 114-HUMUS ✓ | 4 |
| 115-HUMUS ✓ | 3 |
| 116-HUMUS ✓ | 1 |
| 117-HUMUS | 4 |
| 118-HUMUS | 3 |
| 119-HUMUS | 4 |
| 120-HUMUS | 1 |
| 121-HUMUS | 1 |
| 122-HUMUS | 1 |
| 123-HUMUS | 3 |
| 124-HUMUS | 6 |
| 125-HUMUS | 6 |
| 126-HUMUS | 6 |
| 127-HUMUS | 2 |
| 128-HUMUS | 1 |
| 129-HUMUS | 3 |
| 130-HUMUS | 1 |
| 131-HUMUS | 1 |
| 132-HUMUS | <1 |
| 133-HUMUS | 5 |
| 134-HUMUS | NH |
| 135-HUMUS | 3 |
| 136-HUMUS | 5 |
| 137-HUMUS | 1 |
| 138-HUMUS | 1 |
| 139-HUMUS | 1 |
| 140-HUMUS | 2 |

NH - NOT HUMUS

| SAMPLE | AU PP3 |
|-------------|--------|
| 141-HUMUS | 1 |
| 142-HUMUS | 3 |
| 143-HUMUS | 3 |
| 144-HUMUS ✓ | 1 |
| 147-HUMUS | 3 |
| 149-HUMUS | 4 |
| 157-HUMUS | 11 |
| 161-HUMUS | 7 |
| 163-HUMUS | 6 |
| 166-HUMUS | 2 |
| 167-HUMUS | <1 |
| 168-HUMUS | 2 |
| 169-HUMUS | 1 |
| 170-HUMUS | <1 |
| 181-HUMUS | NH |
| 182-HUMUS | 6 |
| 183-HUMUS | 2 |
| 184-HUMUS | 2 |
| 185-HUMUS | 2 |
| 188-HUMUS | 2 |
| 189-HUMUS ✓ | 15 |
| 201-HUMUS | <1 |
| 202-HUMUS | 5 |
| 203-HUMUS | 47 |
| 204-HUMUS | 44 |
| 205-HUMUS | 59 |
| 224-HUMUS | 25 |
| 247-HUMUS | 5 |
| 248-HUMUS | 3 |
| 249-HUMUS | 3 |
| 255-HUMUS | 7 |
| 266-HUMUS | 1 |
| 267-HUMUS | 1 |
| 268-HUMUS | 3 |
| 269-HUMUS | 3 |
| 272-HUMUS | 1 |
| 273-HUMUS | 2 |
| 274-HUMUS | 3 |
| 275-HUMUS | 2 |
| 276-HUMUS ✓ | 1 |
| 277-HUMUS ✓ | 1 |
| 278-HUMUS | 4 |
| 279-HUMUS | <1 |
| 280-HUMUS | <10 |
| 297-HUMUS | 34 |
| 298-HUMUS | 9 |
| 299-HUMUS | 30 |
| 301-HUMUS | 5 |
| 311-HUMUS | 3 |
| 316-HUMUS | 1 |

NH - NOT HUMUS

| SAMPLE | AU PPB |
|-------------|--------|
| 319-HUMUS | NH |
| 320-HUMUS | 9 |
| 331-HUMUS | 3 |
| 332-HUMUS | <1 |
| 333-HUMUS | NH |
| 342-HUMUS | 8 |
| 350-HUMUS | <1 |
| 351-HUMUS | 25 |
| 357-HUMUS | NH |
| 359-HUMUS ✓ | 3 |
| 360-HUMUS | 4 |
| 361-HUMUS | 4 |
| 362-HUMUS | 4 |
| 363-HUMUS | 2 |
| 367-HUMUS | 2 |
| 368-HUMUS | <1 |
| 369-HUMUS | 4 |
| 370-HUMUS | 9 |
| 371-HUMUS | 3 |
| 372-HUMUS | 6 |
| 373-HUMUS | 3 |
| 374-HUMUS | 5 |
| 375-HUMUS | 8 |
| 376-HUMUS | 8 |
| 377-HUMUS | 7 |
| 378-HUMUS | <1 |
| 392-HUMUS | <1 |
| 392-HUMUS | <1 |
| 393-HUMUS | 1 |
| 394-HUMUS | 3 |
| 395-HUMUS | 1 |
| 396-HUMUS | 5 |
| 397-HUMUS | 17 |
| 398-HUMUS | 9 |
| 399-HUMUS | 4 |
| 400-HUMUS ✓ | 4 |
| 502-HUMUS | 1 |
| 503-HUMUS | 2 |
| 504-HUMUS | 13 |
| 505-HUMUS | 7 |
| 527-HUMUS | 16 |
| 528-HUMUS | 15 |
| 555-HUMUS | 2 |
| 556-HUMUS | 3 |
| 570-HUMUS | 4 |
| 572-HUMUS | 2 |
| 574-HUMUS | 6 |
| 575-HUMUS | 5 |
| 576-HUMUS | 4 |
| 580-HUMUS | 4 |

• NH - NOT HUMUS

| SAMPLE | AU PPB |
|-----------|-------------|
| 581-HUMUS | 3 |
| 582-HUMUS | 4 |
| 583-HUMUS | 3 |
| 584-HUMUS | 1 |
| 585-HUMUS | <1 |
| 586-HUMUS | 3 |
| 587-HUMUS | 3 |
| 588-HUMUS | 2 |
| 589-HUMUS | 1 |
| 590-HUMUS | 5 |
| 616-HUMUS | <1 |
| 617-HUMUS | 1 |
| 618-HUMUS | 13 |
| 624-HUMUS | 3 |
| 642-HUMUS | 5 |
| 643-HUMUS | 2 |
| 656-HUMUS | 1 |
| 657-HUMUS | 1 |
| 658-HUMUS | 1 |
| 659-HUMUS | 4 |
| 660-HUMUS | 3 |
| 661-HUMUS | 9 |
| 662-HUMUS | 17 |
| 669-HUMUS | <1 |
| 679-HUMUS | 14 |
| 680-HUMUS | NH |
| 681-HUMUS | 9 |
| 684-HUMUS | 6 |
| 685-HUMUS | 7 |
| 701-HUMUS | <1 |
| 702-HUMUS | 5 |
| 716-HUMUS | NH |
| 722-HUMUS | <1 |
| 723-HUMUS | <1 |
| 724-HUMUS | <1 |
| 725-HUMUS | <1 |
| 726-HUMUS | <1 |
| 728-HUMUS | 3 Not Found |
| 800-HUMUS | 17 |
| 801-HUMUS | NH |
| 815-HUMUS | 7 |
| 816-HUMUS | 11 |
| 822-HUMUS | 4 |
| 823-HUMUS | 8 |
| 830-HUMUS | 13 |
| 837-HUMUS | <1 |
| 838-HUMUS | <1 |
| 839-HUMUS | 15 |
| 840-HUMUS | <1 |
| 841-HUMUS | <1 |

NH - NOT HUMUS

| SAMPLE | AU PPR |
|------------|--------|
| 842-HUMUS | 2 |
| 845-HUMUS | 3 |
| 846-HUMUS | 1 |
| 847-HUMUS | 3 |
| 848-HUMUS | 1 |
| 849-HUMUS | 3 |
| 850-HUMUS | 1 |
| 851-HUMUS | NH |
| 855-HUMUS | 1 |
| 858-HUMUS | 4 |
| 859-HUMUS | 1 |
| 860-HUMUS | <1 |
| 861-HUMUS | <1 |
| 862-HUMUS | 2 |
| 863-HUMUS | 1 |
| 864-HUMUS | 3 |
| 865-HUMUS | 3 |
| 866-HUMUS | 1 |
| 867-HUMUS | 1 |
| 868-HUMUS | 1 |
| 869-HUMUS | 1 |
| 870-HUMUS | <1 |
| 871-HUMUS | 1 |
| 872-HUMUS | <1 |
| 873-HUMUS | 1 |
| 874-HUMUS | 1 |
| 875-HUMUS | 1 |
| 876-HUMUS | NH |
| 877-HUMUS | 25 |
| 879-HUMUS | 61 |
| 889-HUMUS | 2 |
| 890-HUMUS | 1 |
| 891-HUMUS | <1 |
| 892-HUMUS | 2 |
| 893-HUMUS | 3 |
| 897-HUMUS | 5 |
| 900-HUMUS | 1100 |
| 903-HUMUS | 22 |
| 903A-HUMUS | NH |
| 904-HUMUS | 7 |
| 905-HUMUS | 3 |
| 906-HUMUS | NH |
| 924-HUMUS | 5 |
| 925-HUMUS | 3 |
| 926-HUMUS | 5 |
| 927-HUMUS | 4 |
| 932-HUMUS | 45 |
| 933-HUMUS | 10 |
| 934-HUMUS | 4 |
| 935-HUMUS | 2 |

? 903A not in Notes.

NH - NOT HUMUS

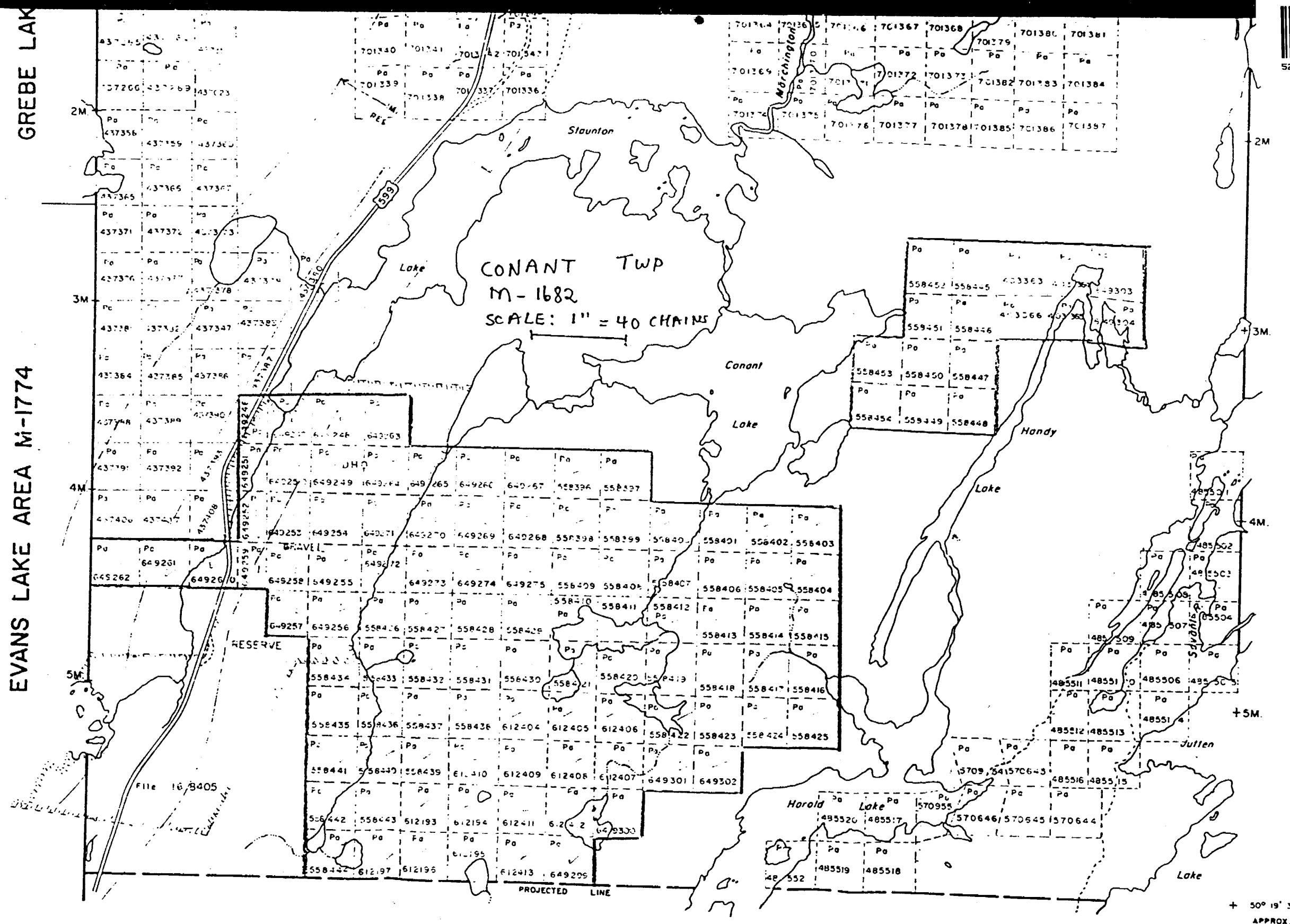
| SAMPLE | AU PPB |
|-----------|----------|
| 936-HUMUS | 1 |
| 937-HUMUS | SMP MISS |

P.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



52J075E8821 63.4476 CONANT

900



JUTTEN TWP. M-1767

- PATENTED LAND
 - PATENTED FOR SURFACE
 - LEASE
 - LICENSE OF OCCUPATION
 - CROWN LAND SALES
 - LOCATED LAND
 - CANCELLED
 - MINING RIGHTS ONLY
 - SURFACE RIGHTS ONLY
 - HIGHWAY & ROUTE NO.
 - ROADS
 - TRAILS
 - RAILWAYS
 - POWER LINES
 - MARSH OR MUSKEG
 - MINES
- *used only with summer reso

TOWN
CON
 DISTRICT
 THUNDER
 PATENT
 MINING
 SCALE: 1 INCH

DR. R.W. NOBLE
 DATE MAY 21, 71
 PLAN NO

ON
 HISTORY OF NA
 SURVEYS

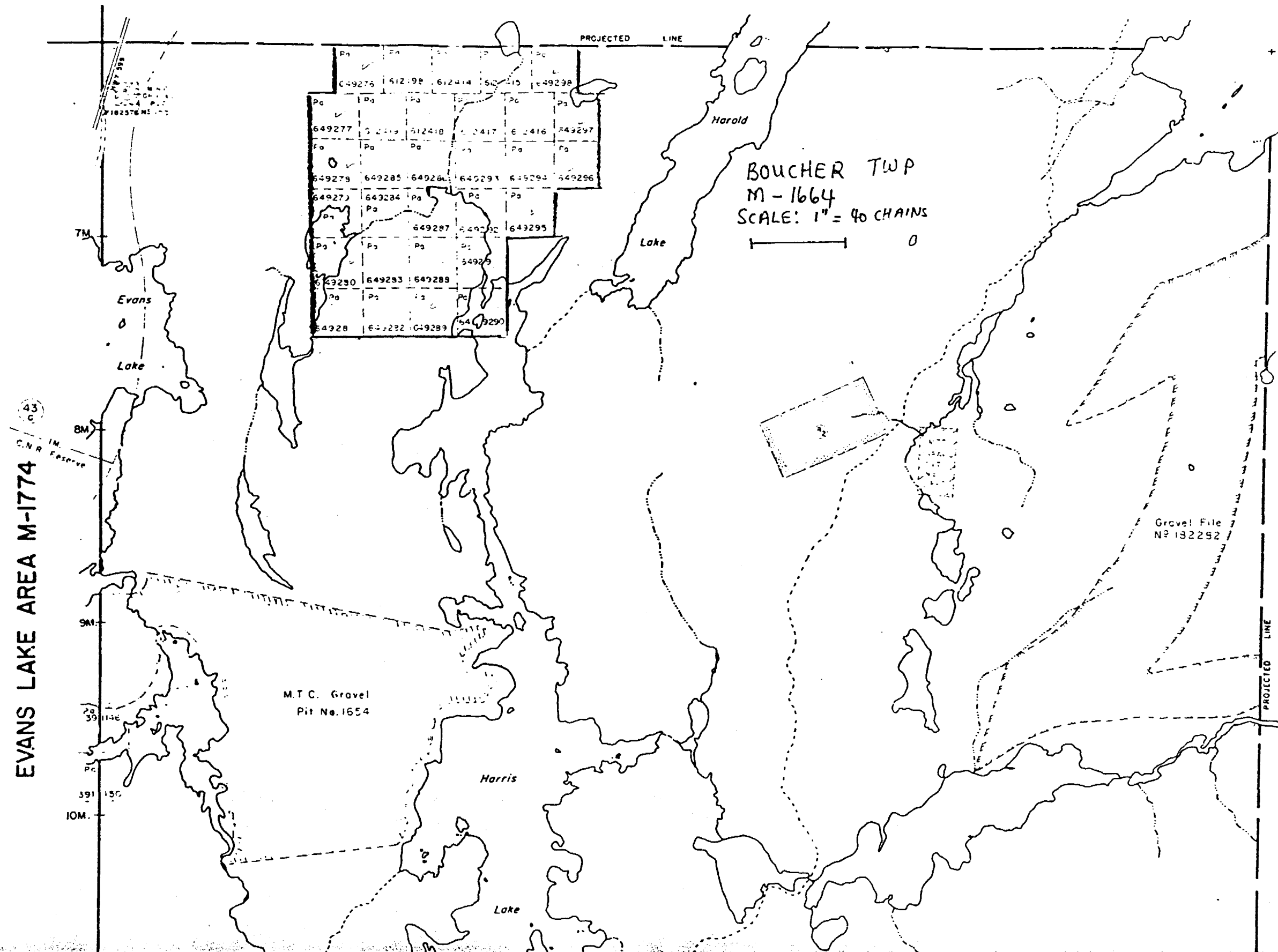
BOUCHER TWP. M-1664

+ 50° 19' 30"
APPROX.
90° 33' 20"

EVANS LAKE AREA M-1774

GREBE LAK

CONANT TWP. M-1682



EVANS LAKE AREA M-1774

CHEVRIER TWP. M-1673

BOUCHER TWP
 M-1664
 SCALE: 1" = 40 CHAINS

M.T.C. Gravel
 Pit No. 1654

Gravel File
 N# 192292

PROJECTED LINE

PROJECTED LINE

TM

BM

SM

20 59 1146

391 150

IOM

B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

ARMIT LAKE - M.2744

ARE

HO

SO

DI

PATE

LEAS

LICE

ROAD

IMPR

KING

RAILV

POWE

MAR

MINE

CANC

400

sho

S.R.

90°45'

50°22'30"

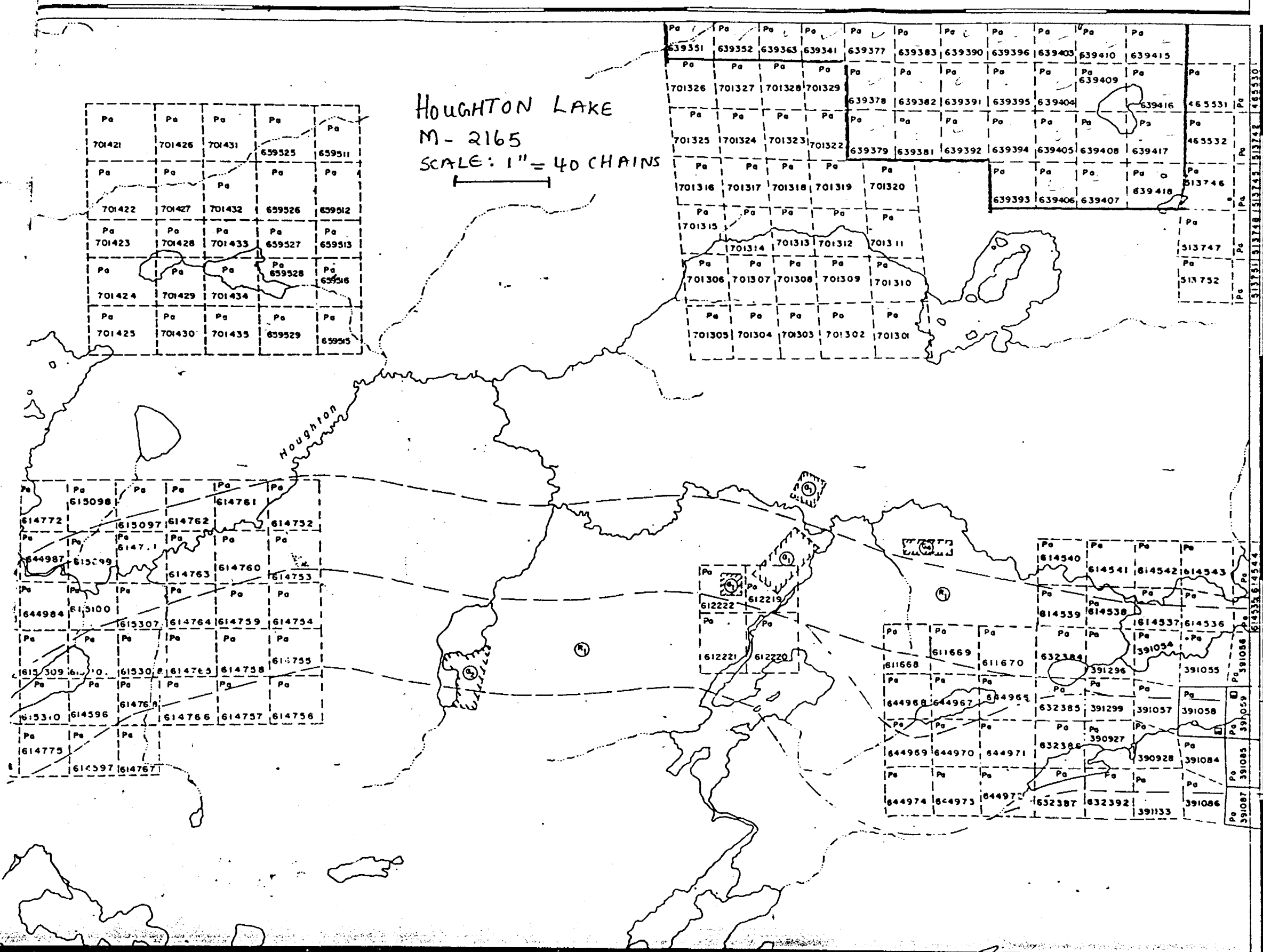
22'

21'

20'

19'

HOUGHTON LAKE
M-2165
SCALE: 1" = 40 CHAINS

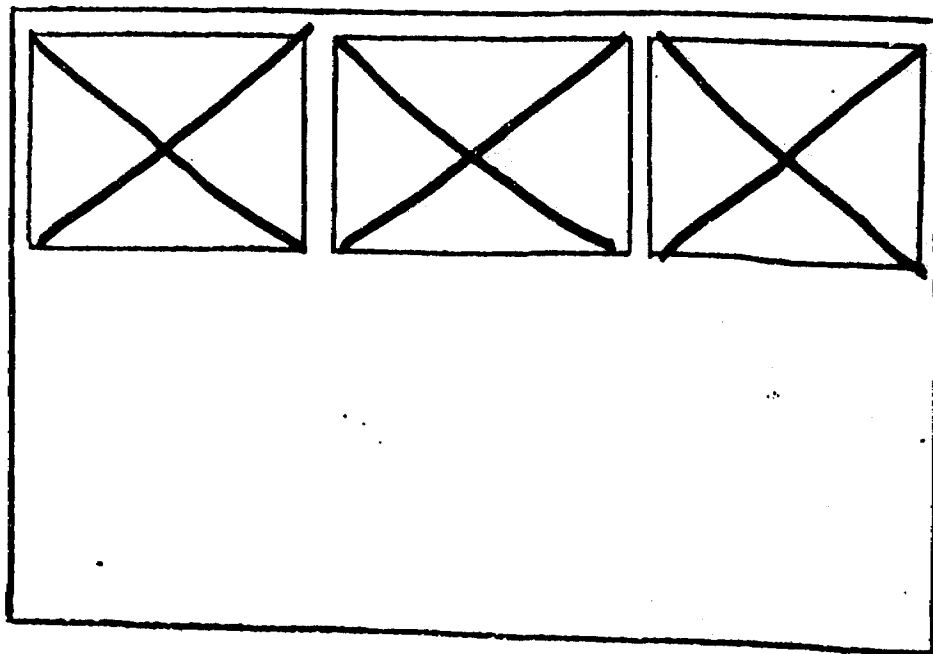


NS LAKE - M.1774

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52J/07SE-0074 #1-3

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)

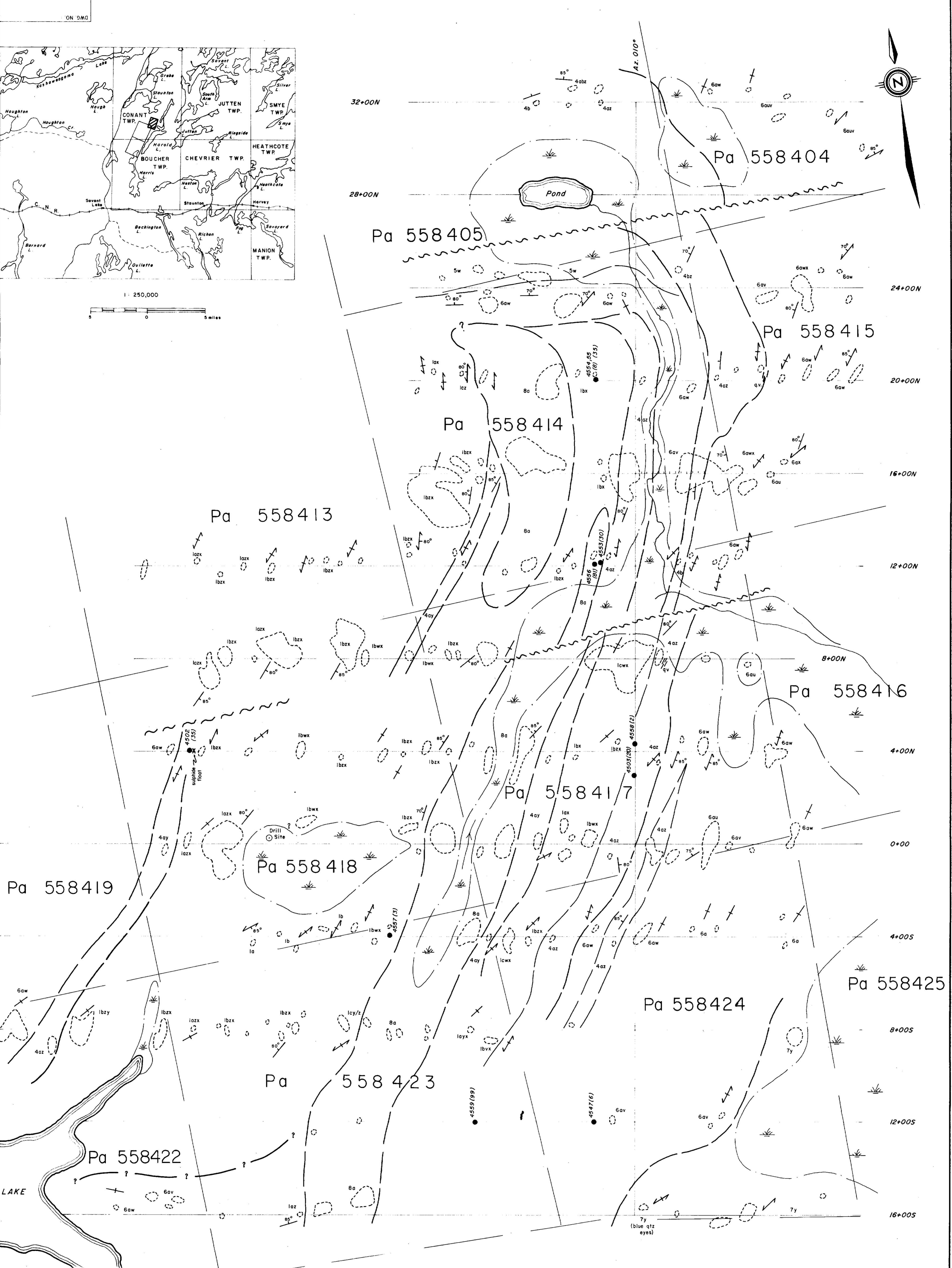
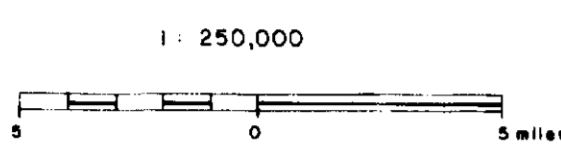
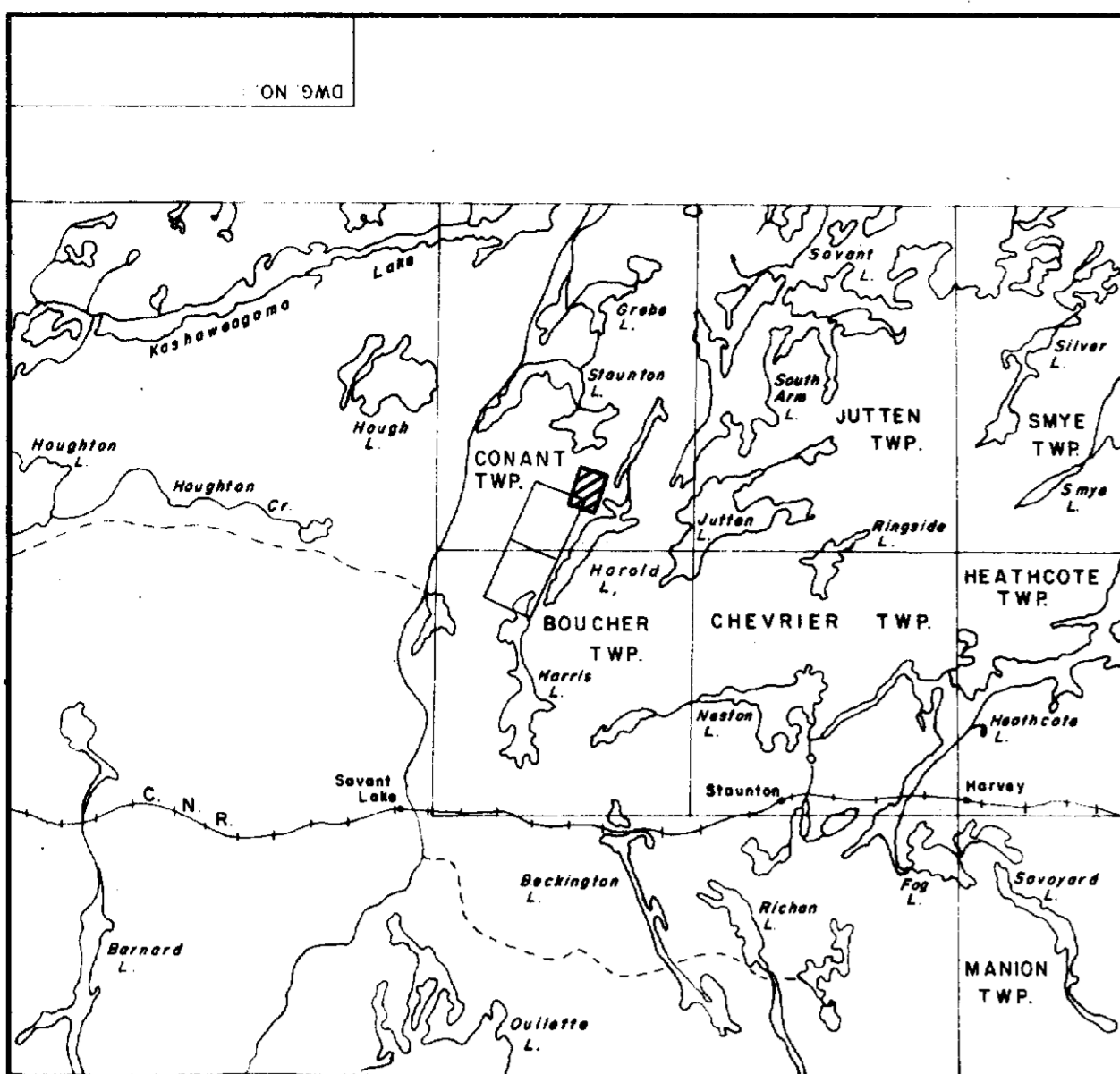


FOR ADDITIONAL

INFORMATION

SEE MAPS:

52 J/075E-0074 #4-E



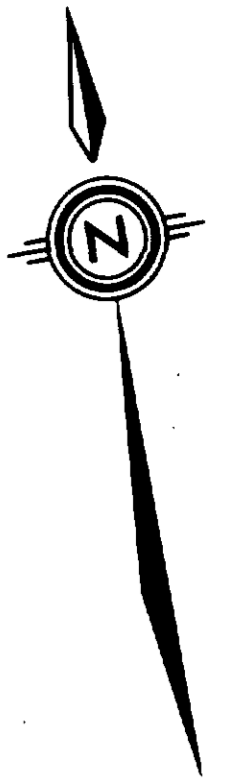
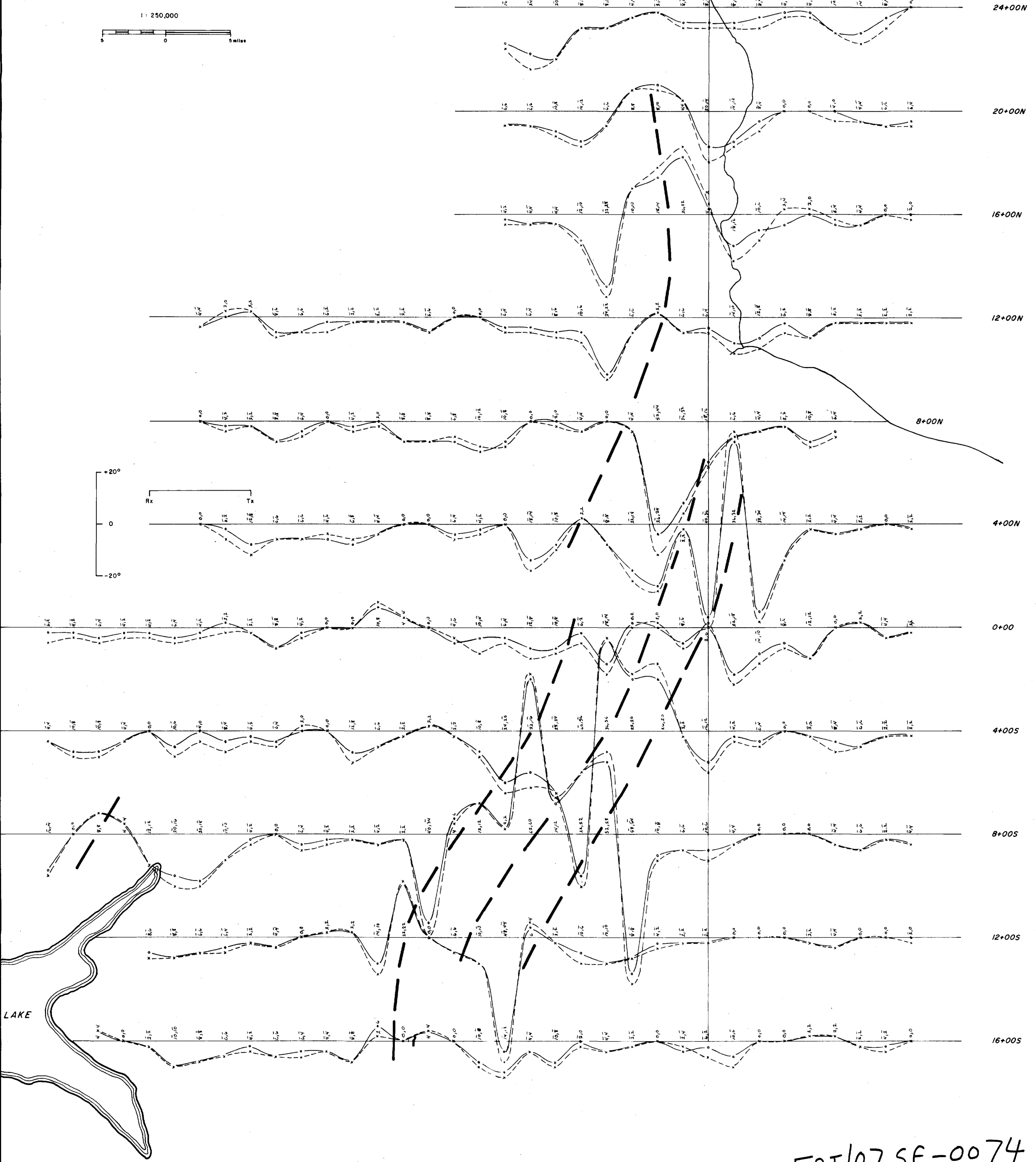
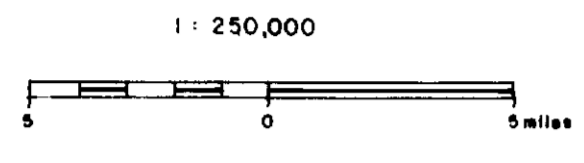
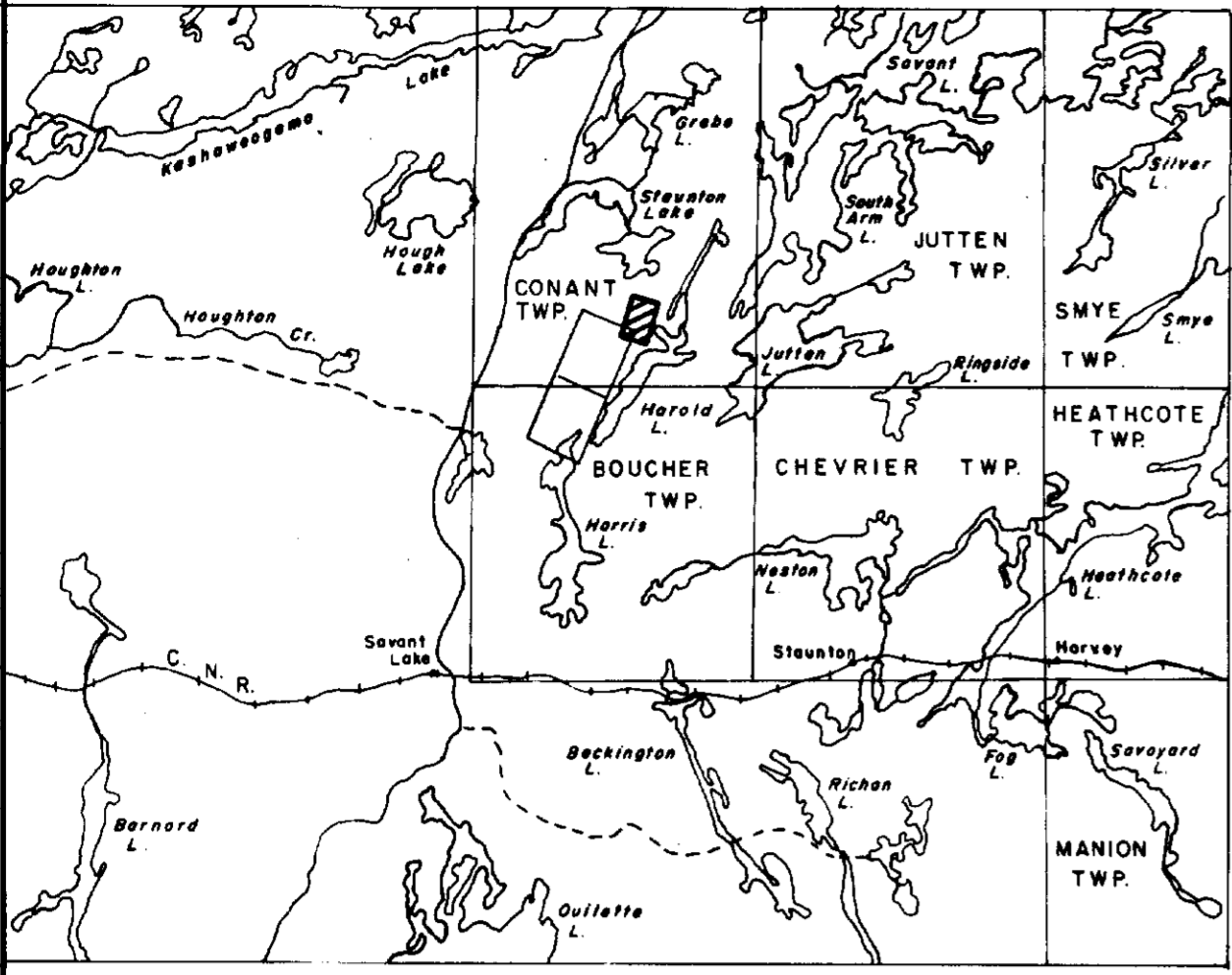
| | |
|---|--|
| 8 | DIORITE |
| 7 | FELSIC HYPABYSSAL (y) quartz-feldspar porphyritic (z) feldspar porphyritic |
| 6 | FELSIC VOLCANICS (a) dacite (b) rhyodacite (u) feldspar-porphyrific (v) massive (flow?) (w) laminated, bedded (tuff) (x) lapilli tuff (y) tuff breccia (z) sericitized |
| 5 | INTERMEDIATE-FELSIC VOLCANICS (v) fine bedded tuff, minor siltstone (w) lapilli tuff |

| | |
|---|--|
| 4 | CLASTIC SEDIMENTS (a) siltstone (b) graphitic argillite (c) sulphide-rich (d) cherty (y) massive (z) laminated, bedded |
| 3 | ACTINOLITE-TALC ROCK |
| 2 | BASALT (a) tuff (b) pillowed |
| 1 | AMPHIBOLITE (a) amphibole content 10-35% (b) amphibole content 35-75% (c) amphibole content >75% (u) garnetiferous (v) variegated (w) massive (x) coarse-grained (y) fine-grained (z) laminated, bedded |

| | |
|---------|--|
| ○ | Outcrop |
| ∕∕ | Bedding |
| ∕∕ | Schistosity (1st, 2nd) |
| — | Contact |
| ~ | Fault |
| ● 51(3) | Grab sample (rock) - No. & Assay (ppb) Au |
| 42+32 | B-horizon soil sample - No. & Assay (ppb) Au |
| ∕∕∕ | Quartz vein |
| ⊕ | Swamp or marsh |

52J/075E-0074
#1
63.4476

| | | | |
|---------------------------|--|---------|------------|
| TECK EXPLORATIONS LIMITED | | | |
| SURVEY | GEOLOGICAL SURVEY | DWG BY | D.A.G. |
| PROPERTY / AREA | GROUP U-16, NORTHERN GRID SAVANT LAKE, ONTARIO | CHK BY | J.S.F. |
| CLIENT | SAVANT LAKE GOLD PROJECT | DATE | 1983-09-09 |
| SCALE | 0 200 400 feet 1 inch = 200 feet | JOB | 98470 |
| | | NTS | 52J/7 |
| | | DWG NO. | 5513-1a |



52J/07 SE-0074
2
63.4476



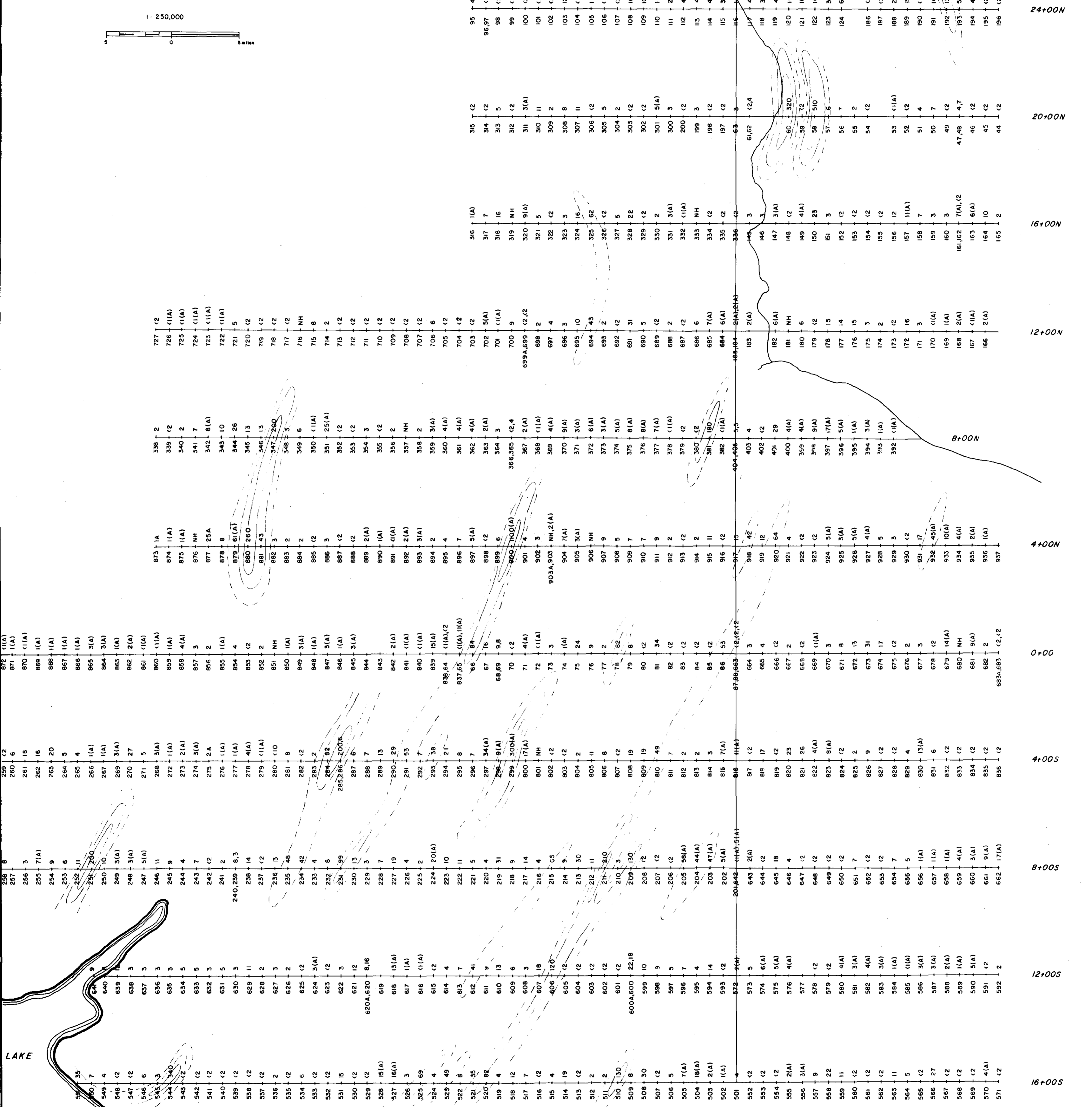
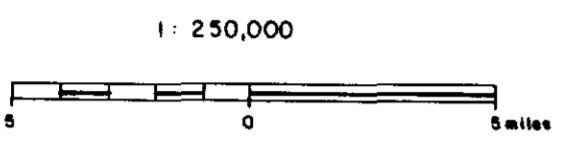
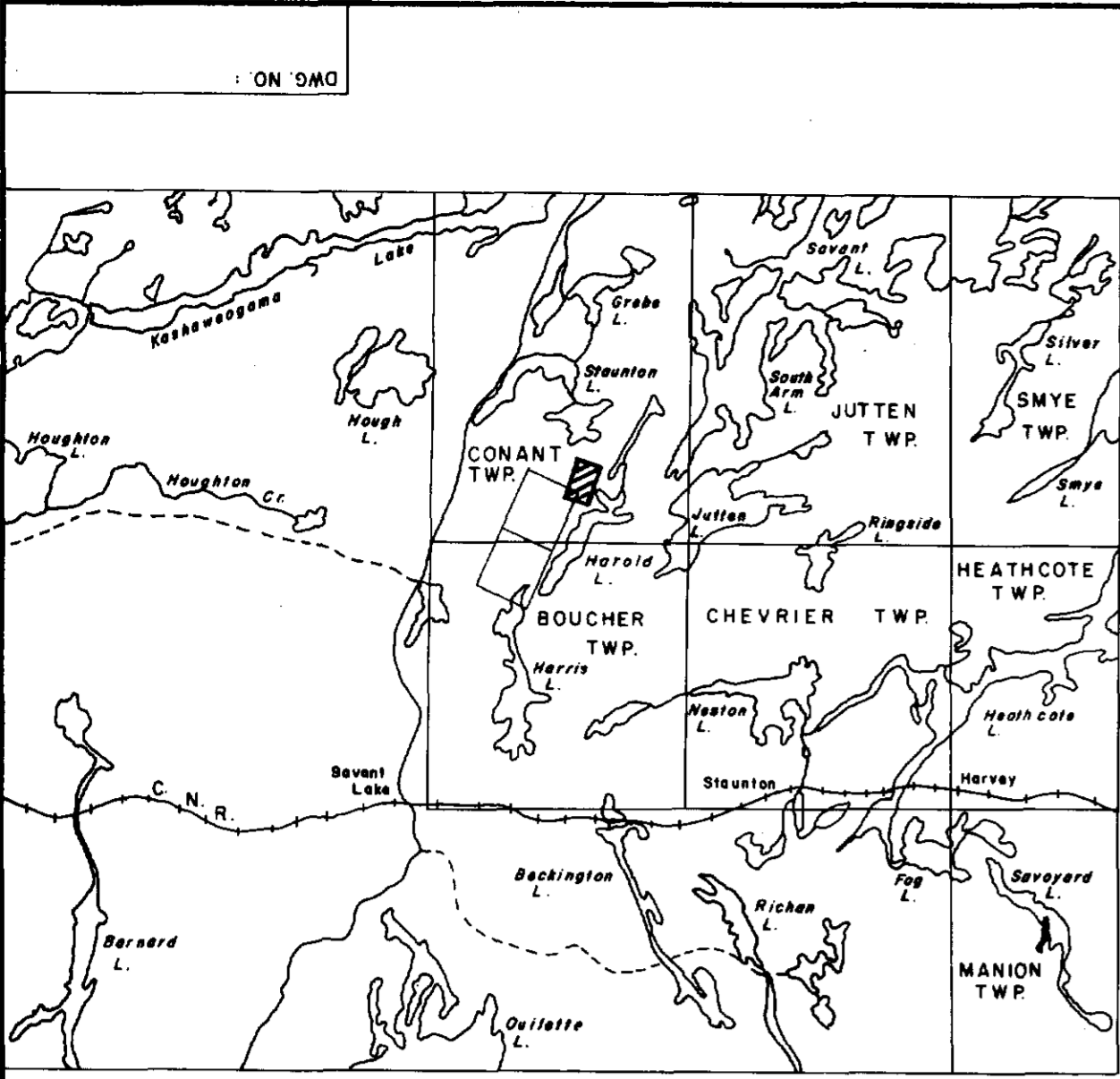
210

— — — Conductor Axis

| | |
|-----------------|---------------------|
| INSTRUMENT | CRONE C.E.M. UNIT |
| OPERATOR | MARION, ASSELIN |
| Tx STATION | |
| COIL SEPARATION | 400 feet |
| FREQUENCY | 1830 Hz. 390 Hz. |

| REVISED DATE | CHK |
|--------------|-----|
| | |
| | |

| | |
|----------------------------------|---|
| TECK EXPLORATIONS LIMITED | |
| SURVEY | ELECTROMAGNETIC SURVEY |
| PROPERTY / AREA | GROUP U-16, NORTHERN GRID SAVANT LAKE, ONTARIO |
| CLIENT | SAVANT LAKE GOLD PROJECT |
| SCALE | 0 200 400 feet 1 inch = 200 feet |
| DWG. BY | C.E.K. |
| CHK BY | K.R.T. |
| DATE | 1983-06-25 |
| JOB | 98470 |
| NTS. | 52J/7 |
| DWG. NO. | 5513-1b |



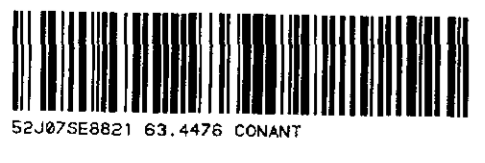
Au Geochemical Contour Interval
 high background (67th-92nd percentile)=37-70ppb
 second order anomalous (92nd-97.5th percentile)=71-190ppb
 first order anomalous (>97.5th percentile)=190ppb
 P.50 (background)=28 ppb

Sample Numbers 330 2
 331 3(A) ppb Au

(A) Sample taken from "A" horizon (humus)
 NH Not humus
 < Less than

All samples taken from "B" horizon (soils) except where indicated.
 Analysis Done By: X-Ray Assay Laboratories
 Method: FADCP/NA
 Detection Limit: 2.000/1.000

52J/07SE-0074 #3
 63,476

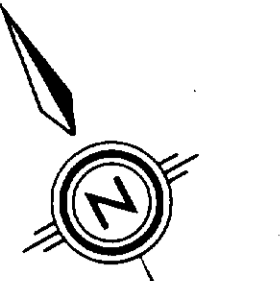
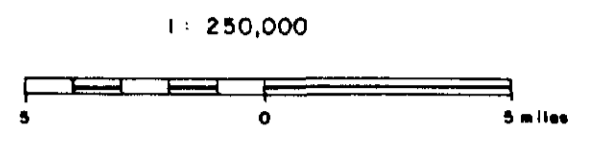
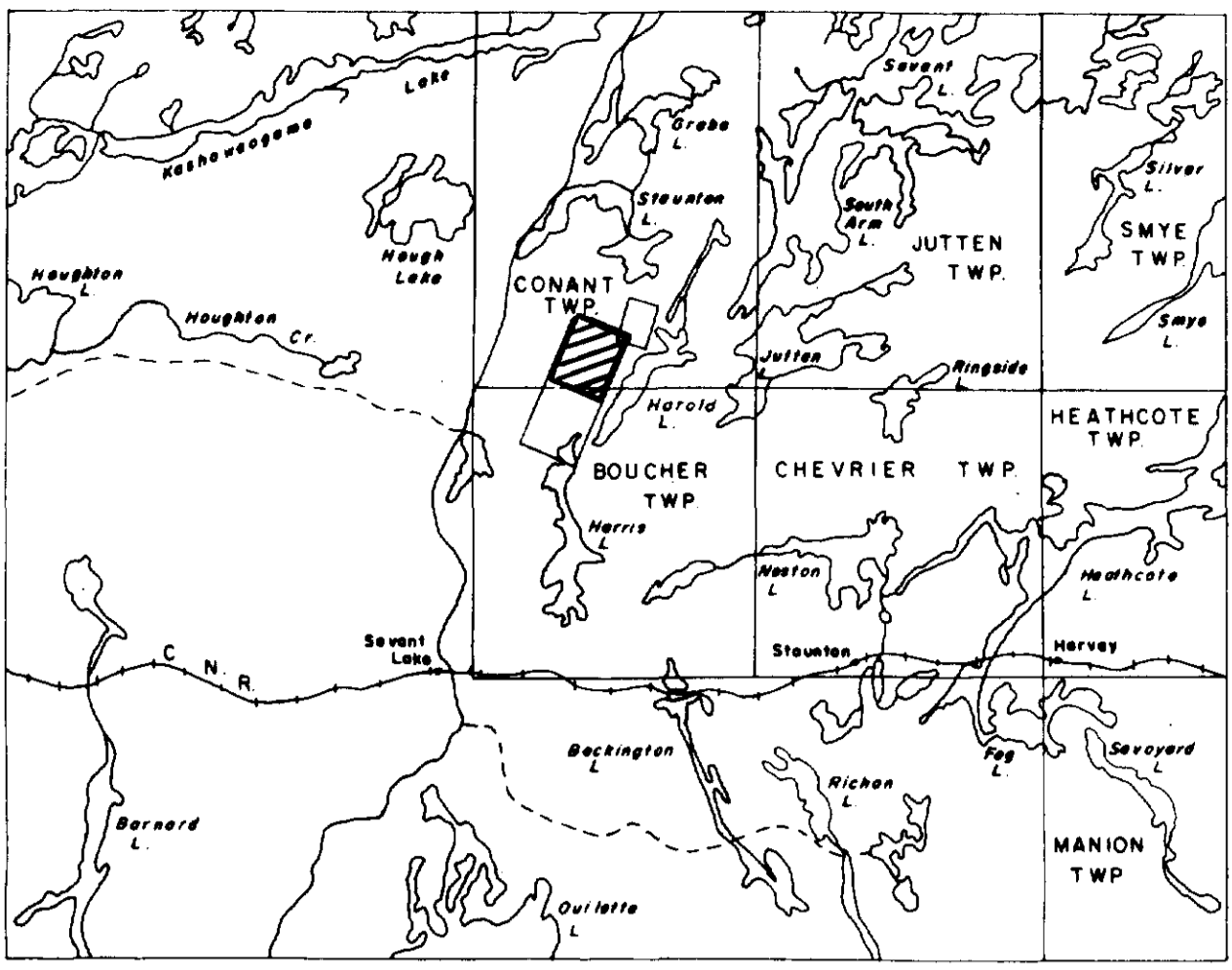


220

| | |
|-----------------|-----|
| INSTRUMENT | |
| OPERATOR | |
| TR. STATION | |
| COIL SEPARATION | |
| FREQUENCY | |
| REVISED DATE | CHK |

| | |
|---|-------------------|
| TECK EXPLORATIONS LIMITED | |
| SURVEY: GEOCHEMICAL SURVEY | DWG. BY: D.A.G. |
| PROPERTY / AREA: GROUP U-16, NORTHERN GRID SAVANT LAKE, ONTARIO | CHK BY: K.R.T. |
| CLIENT: SAVANT LAKE GOLD PROJECT | DATE: 1983-06-25 |
| SCALE: 0 200 400 feet 1 inch = 200 feet | JOB: 98470 |
| | NTS: 52J/7 |
| | DWG. NO.: 5513-1c |

52J/07 SE - 0074 #4



TECK EXPLORATIONS LIMITED
NORTH BAY ONTARIO

GEOLOGICAL SURVEY

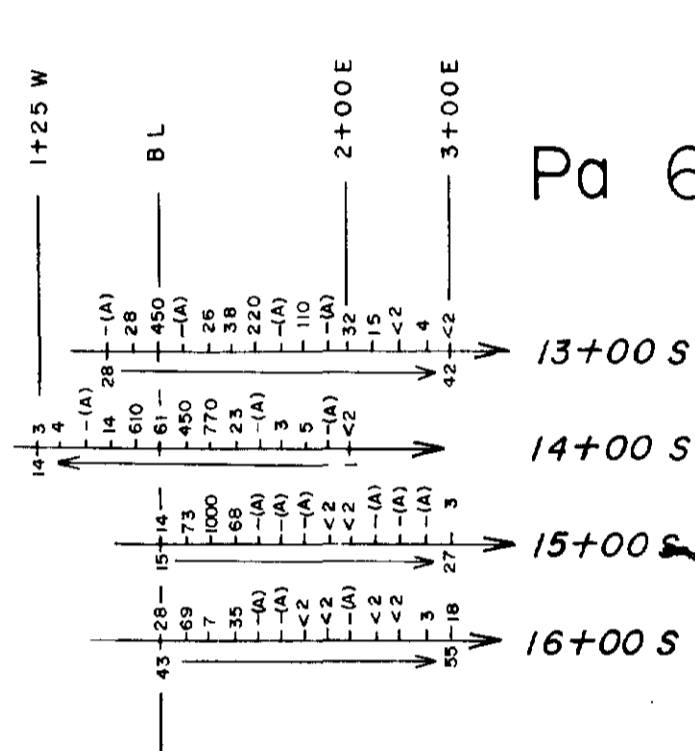
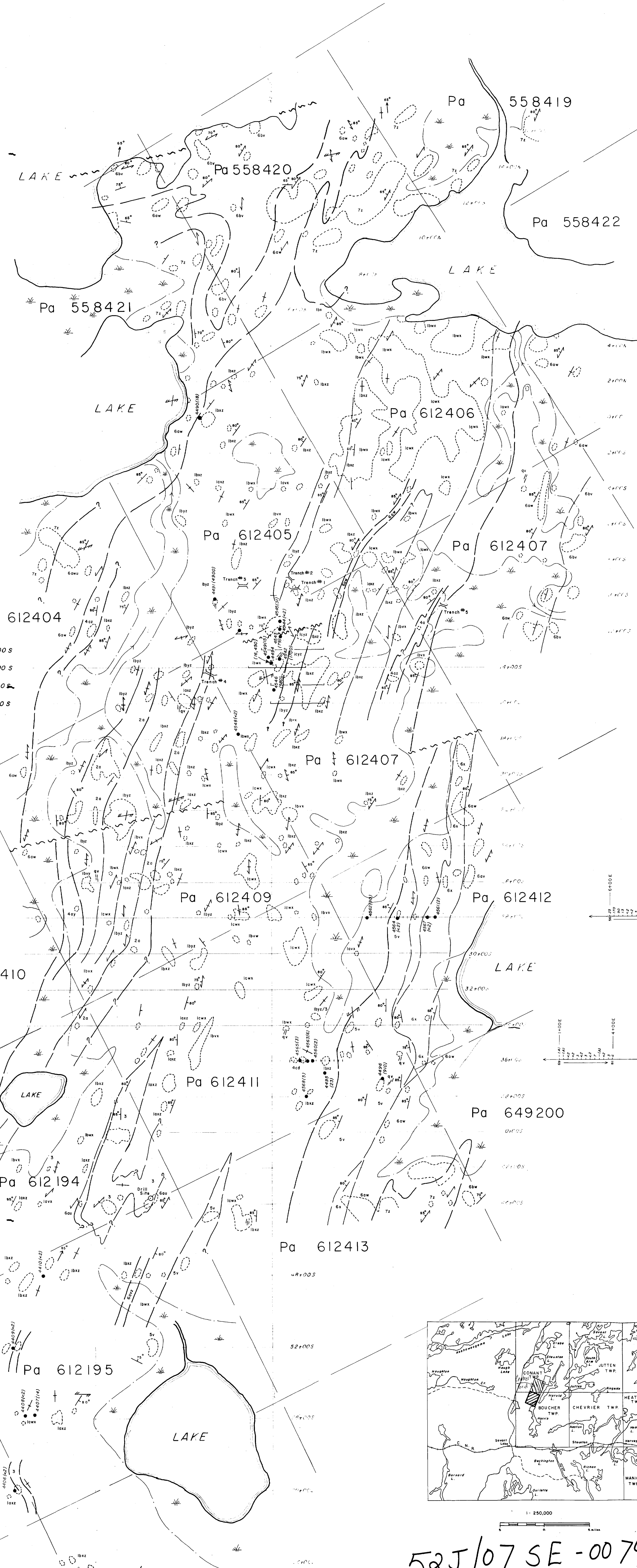
PROJECT AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO

CLIENT: SAVANT LAKE GOLD PROJECT

SCALE: 1 inch = 200 feet

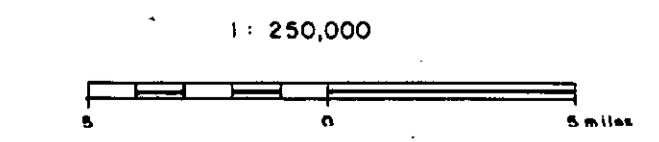
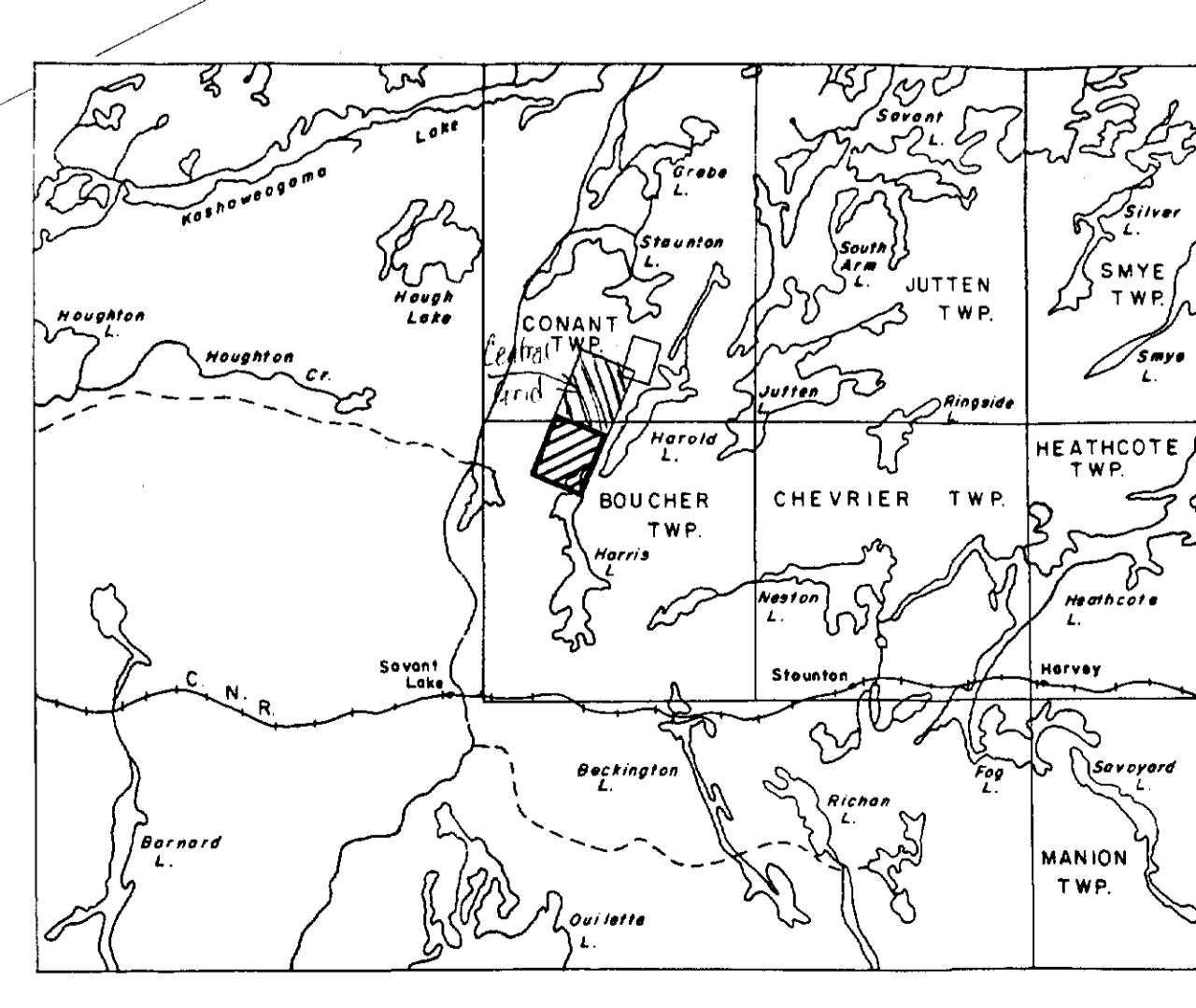
DWG NO: 5513-2a

DWG BY: D.A.G.
CHK BY: J.S.F.
DATE: 1983-09-07
JOB: 98470
FS: 52J/7



- LEGEND**
- 8 DIORITE
 - 7 FELSIC HYPABYSSAL
 - (q) quartz-feldspar porphyritic
 - (f) feldspar porphyritic
 - 6 FELSIC VOLCANICS
 - (a) dacite
 - (b) rhyodacite
 - (u) feldspar-porphyritic
 - (v) massive (flow?)
 - (w) laminated, bedded (tuff)
 - (x) lapilli tuff
 - (y) tuff breccia
 - (z) sericitized
 - 5 INTERMEDIATE-FELSIC VOLCANICS
 - (v) fine bedded tuff, minor siltstone
 - (w) lapilli tuff
 - 4 CLASTIC SEDIMENTS
 - (a) siltstone
 - (b) graphitic argillite
 - (c) sulphide-rich
 - (d) cherty
 - (e) massive
 - (f) laminated, bedded
 - 3 ACTINOLITE-TALC ROCK
 - 2 BASALT
 - (a) tuff
 - (b) pillowed
 - 1 AMPHIBOLITE
 - (a) amphibole content 10-35%
 - (b) amphibole content 35-75%
 - (c) amphibole content >75%
 - (d) garnetiferous
 - (e) variegated
 - (f) massive
 - (g) coarse-grained
 - (h) fine-grained
 - (i) laminated, bedded
- Outcrop
- Bedding
- Schistosity (1st, 2nd)
- Contact
- Fault
- 5/10 Grab sample (rock) - No. & Assay (ppb) Au
- 4+30 B-horizon soil sample - No. & Assay (ppb) Au
- /// Quartz vein
- Swamp or marsh

- LEGEND**
- 8 DIORITE
 - 7 FELSIC HYPABYSSAL
 - (q) quartz-feldspar porphyritic
 - (f) feldspar porphyritic
 - 6 FELSIC VOLCANICS
 - (a) dacite
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 - (u) feldspar-porphyritic
 - (v) massive (flow?)
 - (w) laminated, bedded (tuff)
 - (x) lapilli tuff
 - (y) tuff breccia
 - (z) sericitized
 - 5 INTERMEDIATE-FELSIC VOLCANICS
 - (v) fine bedded tuff, minor siltstone
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 - 4 CLASTIC SEDIMENTS
 - (a) siltstone
 - (b) graphitic argillite
 - (c) sulphide-rich
 - (d) cherty
 - (e) massive
 - (f) laminated, bedded
 - 3 ACTINOLITE-TALC ROCK
 - 2 BASALT
 - (a) tuff
 - (b) pillowed
 - 1 AMPHIBOLITE
 - (a) amphibole content 10-35%
 - (b) amphibole content 35-75%
 - (c) amphibole content >75%
 - (d) garnetiferous
 - (e) variegated
 - (f) massive
 - (g) coarse-grained
 - (h) fine-grained
 - (i) laminated, bedded
- Outcrop
- Bedding
- Schistosity (1st, 2nd)
- Contact
- Fault
- 5/10 Grab sample (rock) - No. & Assay (ppb) Au
- 4+30 B-horizon soil sample - No. & Assay (ppb) Au
- /// Quartz vein
- Swamp or marsh



52J/07 SE - 0074 #4

TECK EXPLORATIONS LIMITED
NORTH BAY ONTARIO

GEOLOGICAL SURVEY

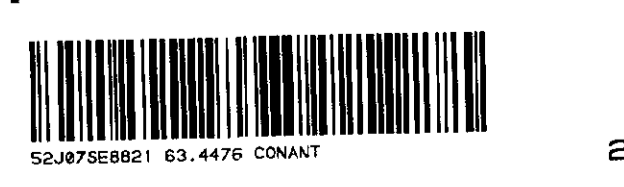
PROJECT AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO

CLIENT: SAVANT LAKE GOLD PROJECT

SCALE: 1 inch = 200 feet

DWG NO: 5513-2a

DWG BY: D.A.G.
CHK BY: J.S.F.
DATE: 1983-09-07
JOB: 98470
FS: 52J/7



INSTRUMENT: 230

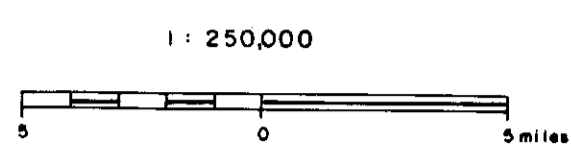
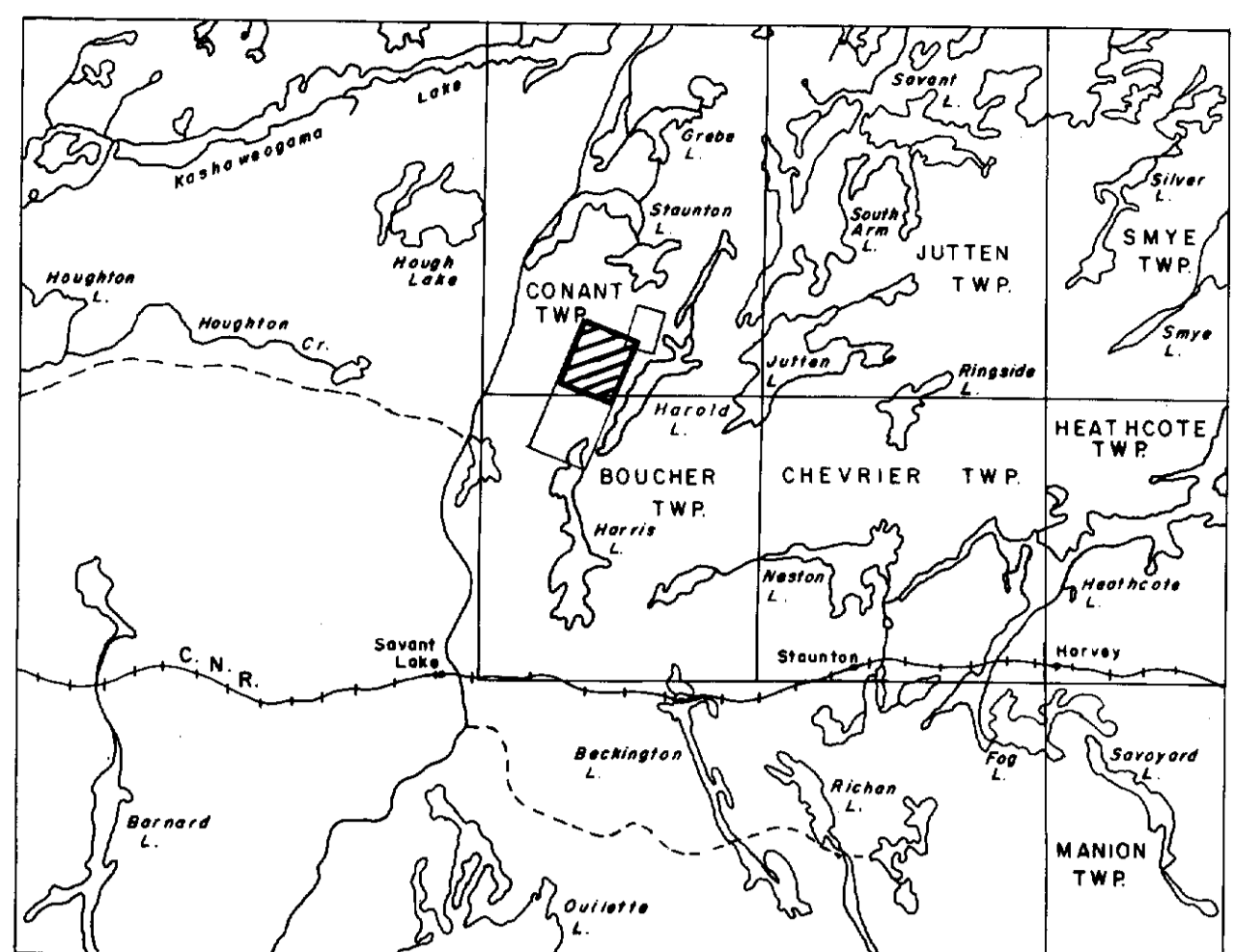
OPERATOR:

STATION:

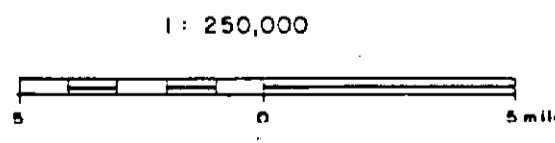
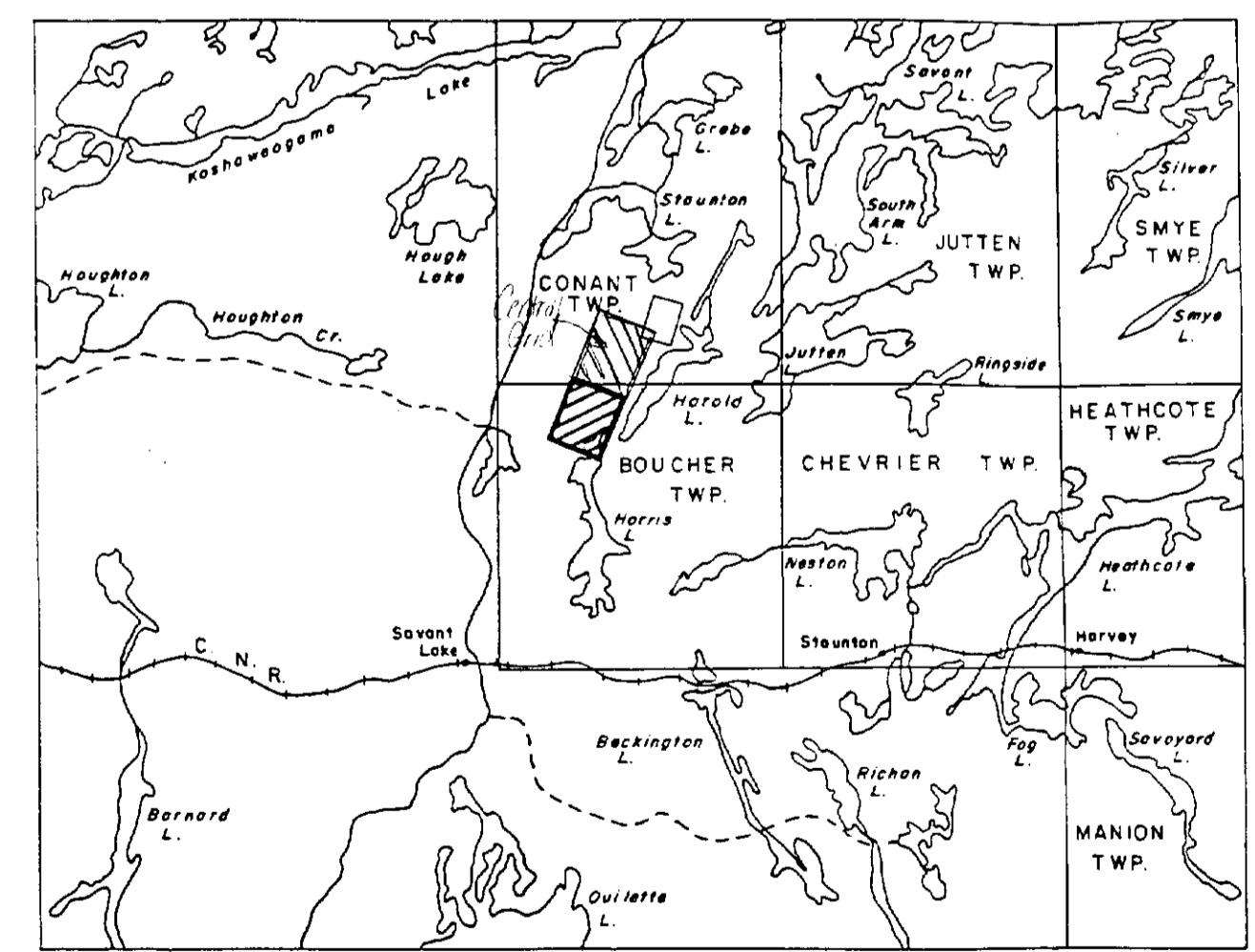
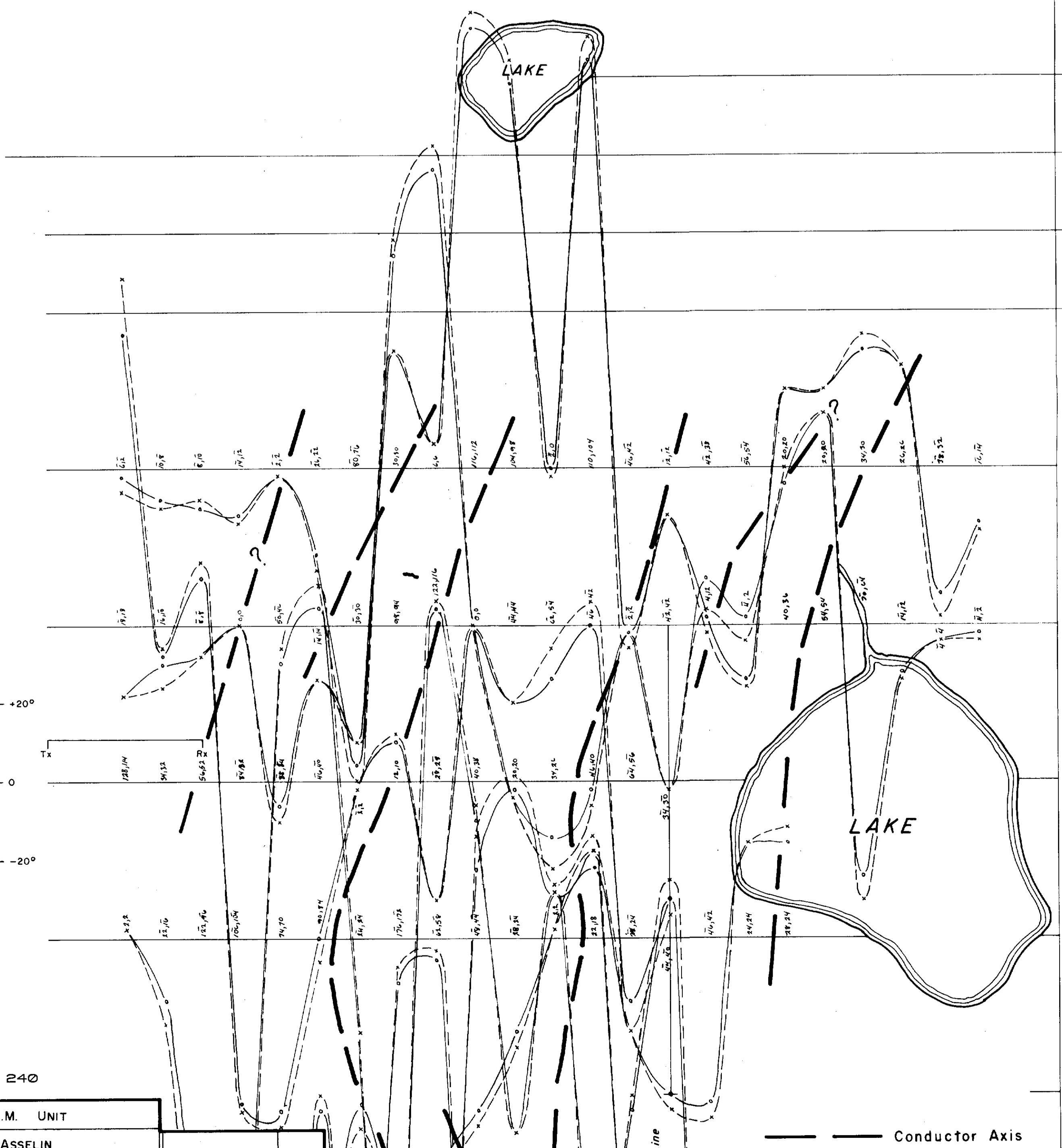
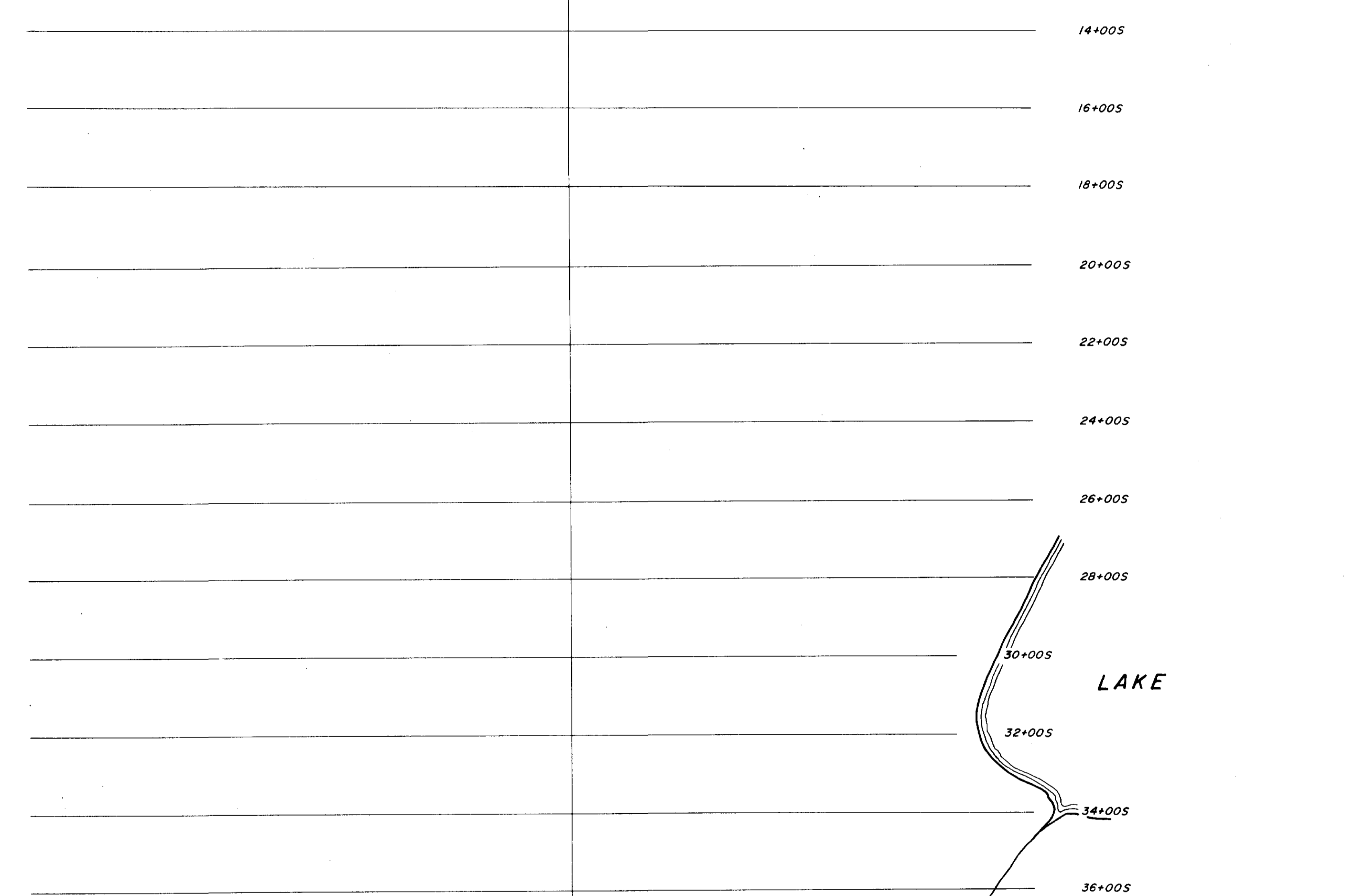
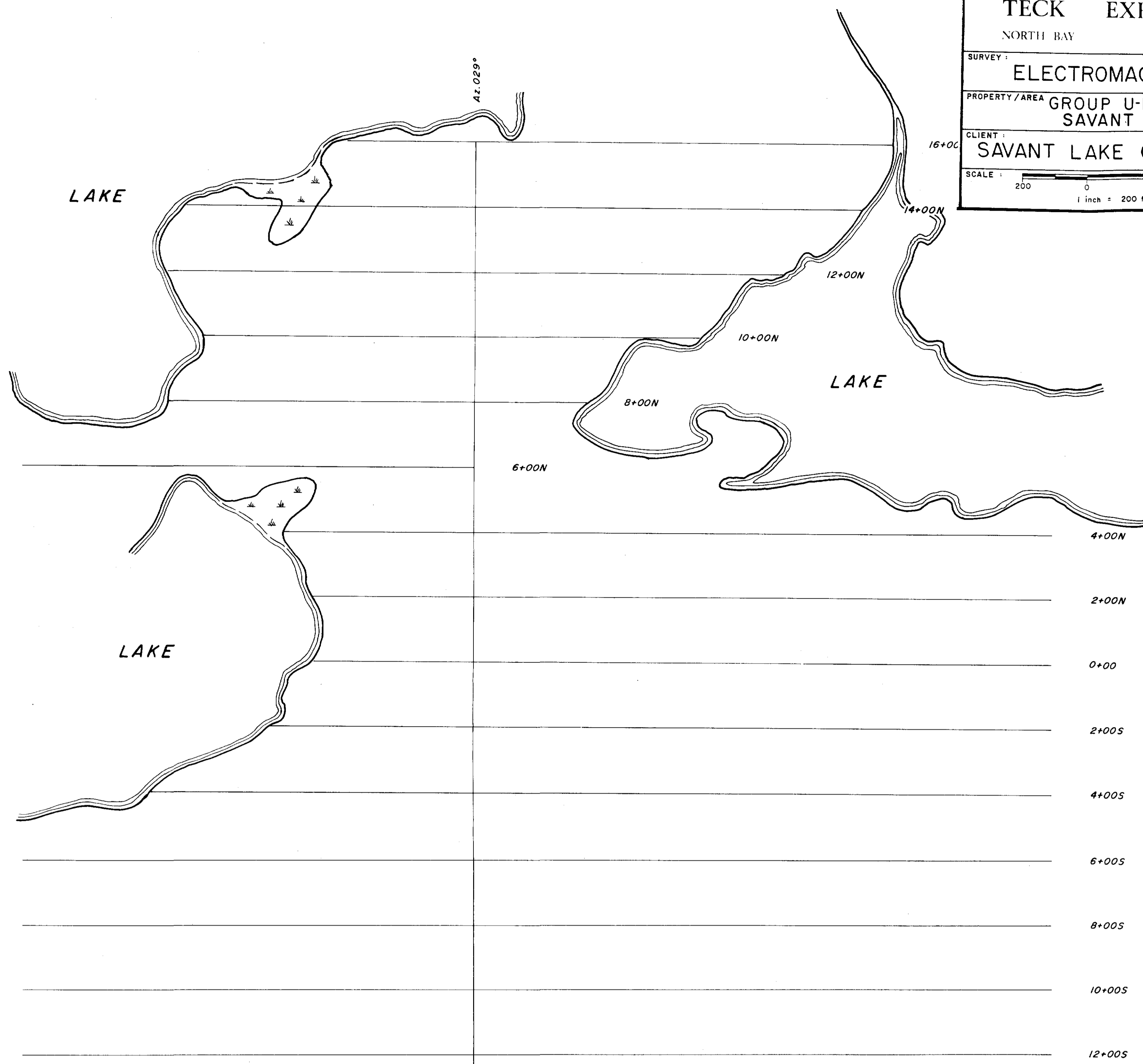
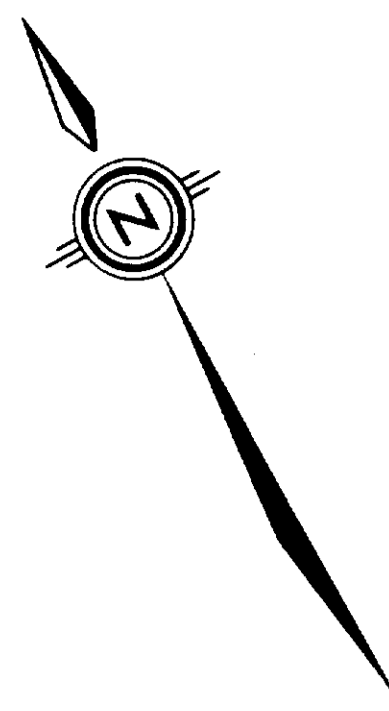
SOIL SEPARATION:

FREQUENCY:

52J/07SE - 0074 #5



| | | | |
|--|--|----------------------------------|--|
| TECK EXPLORATIONS LIMITED NORTH BAY ONTARIO | | DWB BY: C.E.K. CHK BY: K.R.T. | |
| SURVEY: ELECTROMAGNETIC SURVEY | | DATE: 1983-06-25 | |
| PROPERTY/AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO | | JOB: 98470 | |
| CLIENT: SAVANT LAKE GOLD PROJECT | | NTS: 52J/7 | |
| SCALE: 1 inch = 200 feet | | DWB NO.: 5513-2b | |

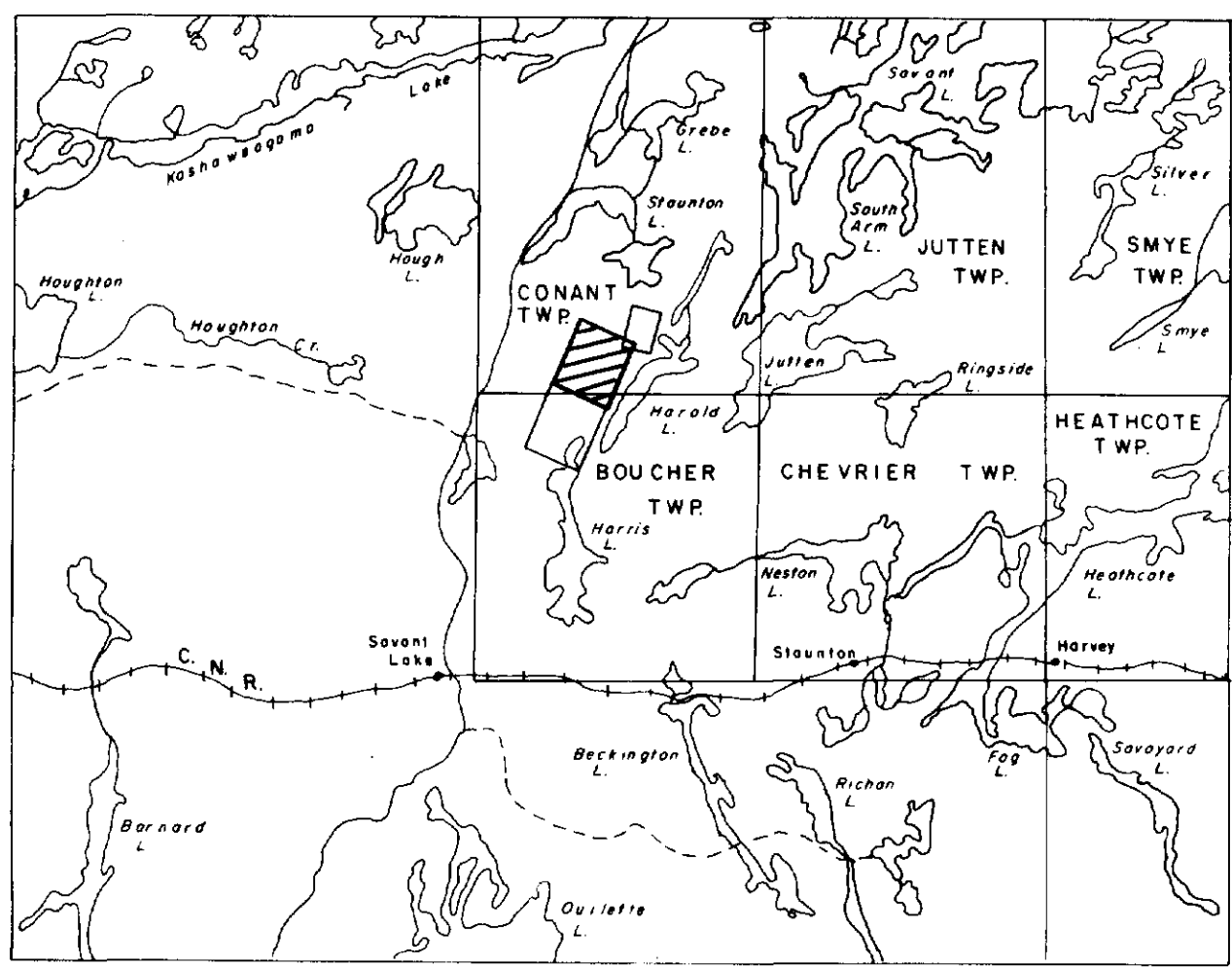


52J/07SE - 0074 #5

| | | | |
|--|--|----------------------------------|--|
| TECK EXPLORATIONS LIMITED NORTH BAY ONTARIO | | DWB BY: C.E.K. CHK BY: K.R.T. | |
| SURVEY: ELECTROMAGNETIC SURVEY | | DATE: 1983-06-25 | |
| PROPERTY/AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO | | JOB: 98470 | |
| CLIENT: SAVANT LAKE GOLD PROJECT | | NTS: 52J/7 | |
| SCALE: 1 inch = 200 feet | | DWB NO.: 5513-2b | |

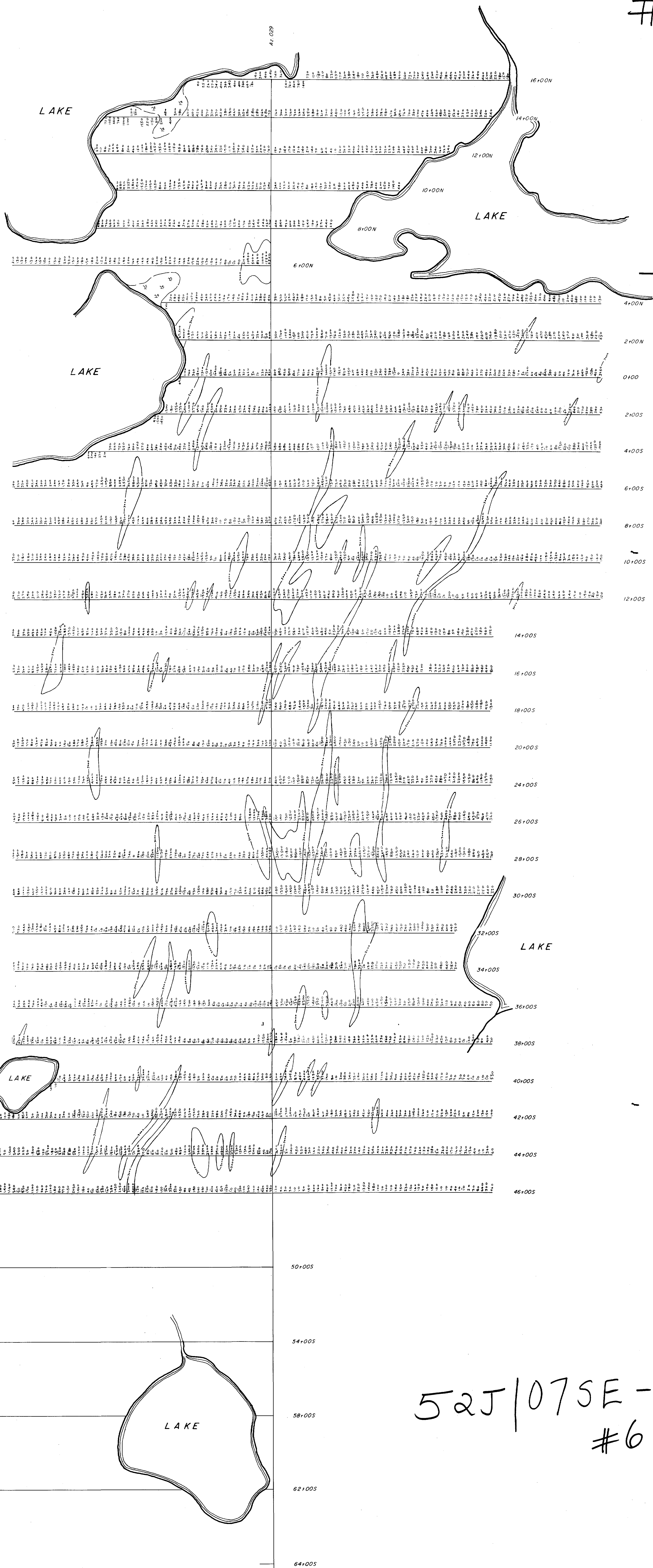
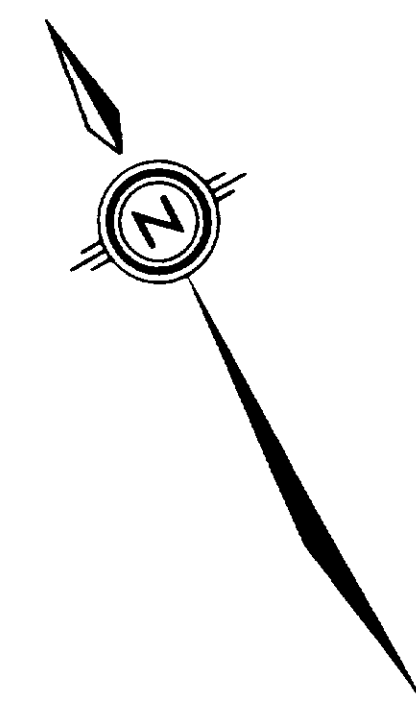
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|-------------------------------|--|---------------|------|
| INSTRUMENT: CRONE C.E.M. UNIT | | REVISIONS: | |
| OPERATOR: MARION ASSELIN | | REVISED DATE: | CHK: |
| TX. STATION: | | REFERENCE: | |
| COIL SEPARATION: 400 feet | | The Line | |
| FREQUENCY: 1500 Hz / 390 Hz | | | |

To Accompany Report No.

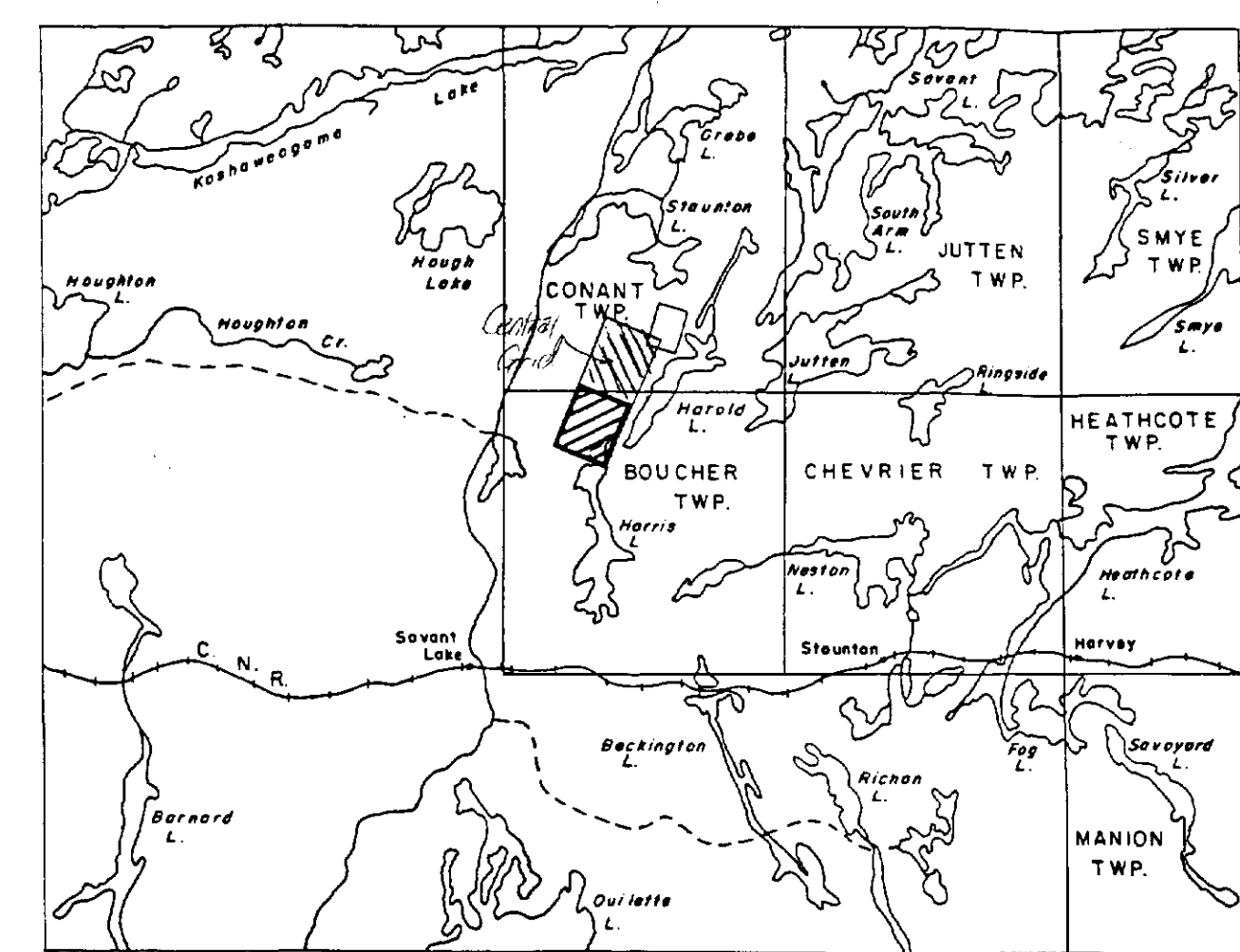


1 : 250,000

52J/07 SE - 0074
#6



| | | | |
|--|--|-------------------|--|
| TECK EXPLORATIONS LIMITED NORTH BAY ONTARIO | | 63-4476 | |
| SURVEY: MAGNETOMETER SURVEY | | DWG. BY: G.S.K. | |
| PROPERTY/AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO | | CHK. BY: K.R.T. | |
| CLIENT: SAVANT LAKE GOLD PROJECT | | DATE: 1983-06-25 | |
| SCALE: 1 inch = 200 feet | | JOB: 98470 | |
| | | NTS: 52J/7 | |
| | | DWG. NO.: 5513-2c | |



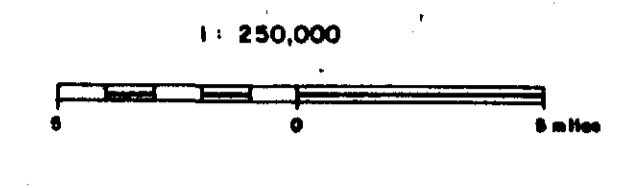
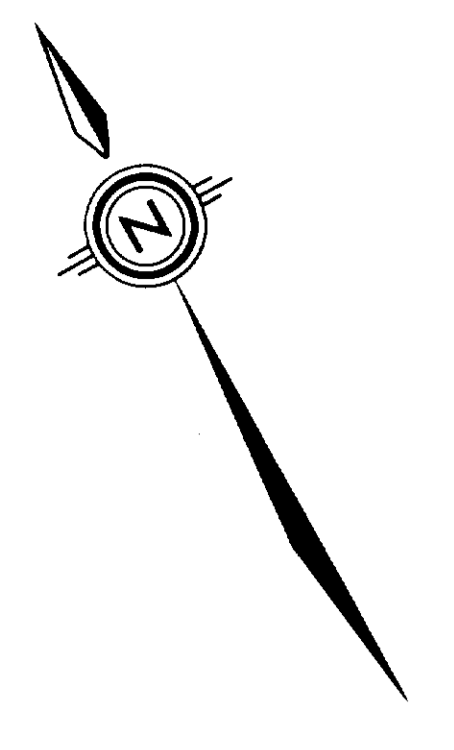
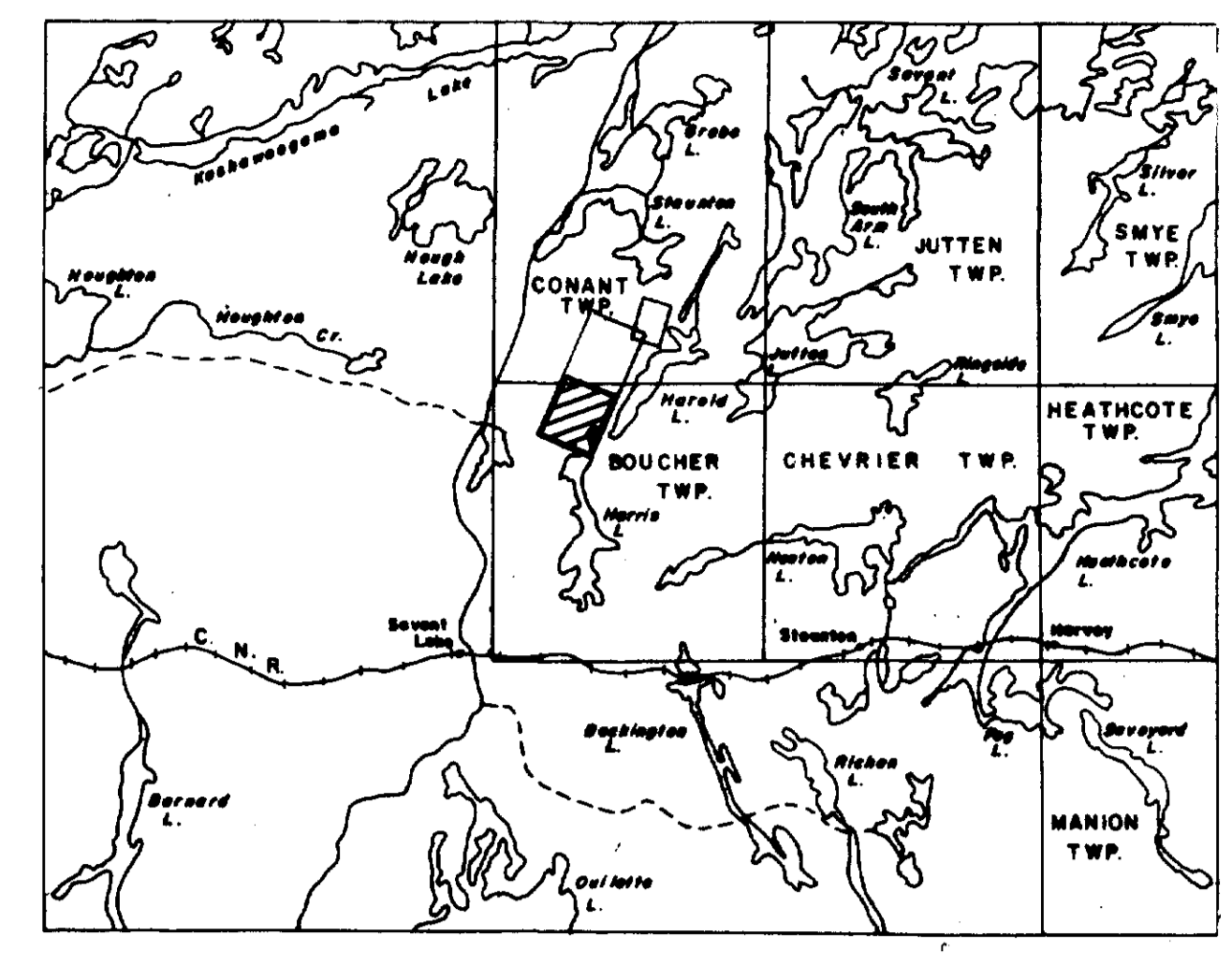
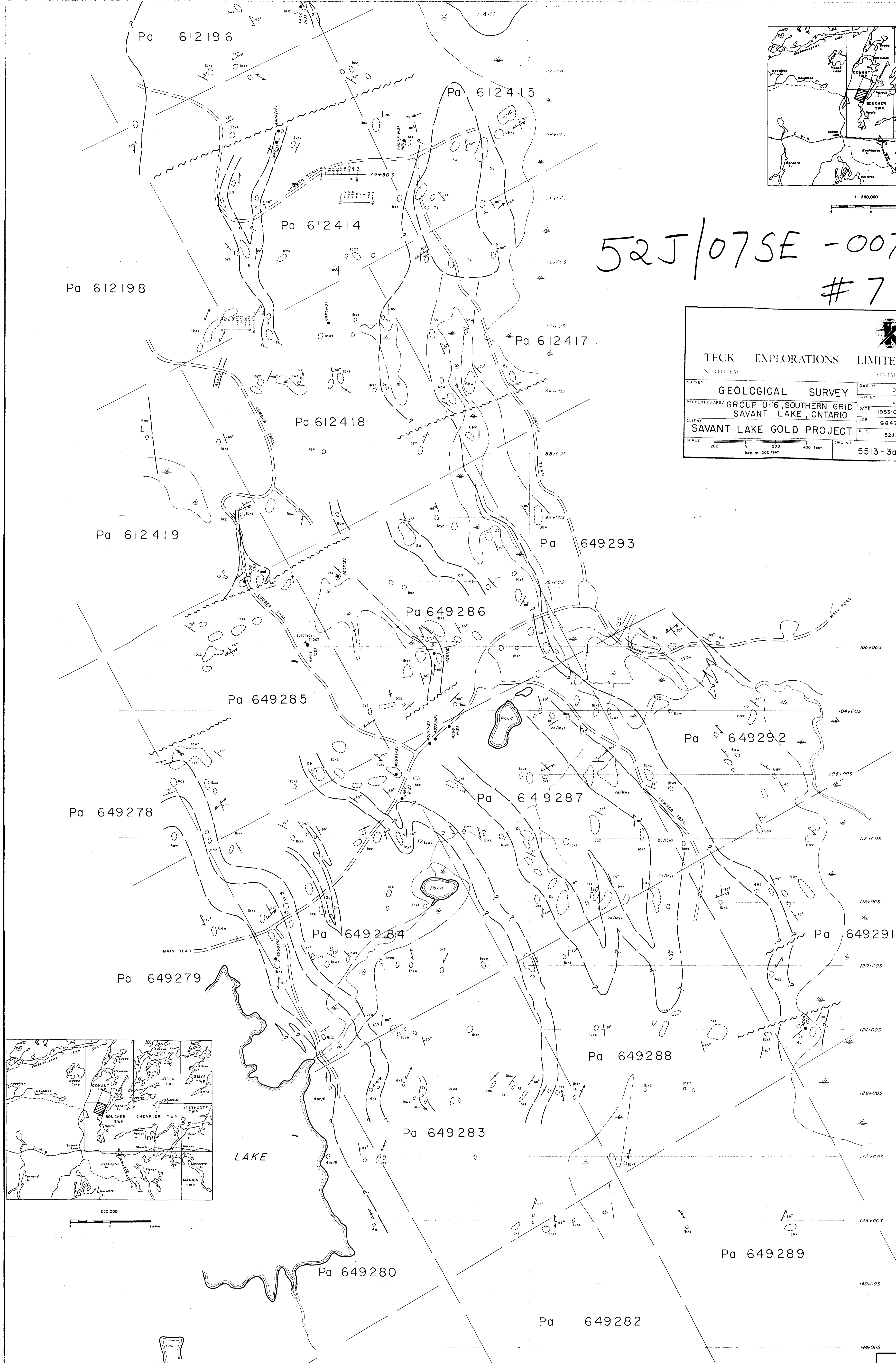
1 : 250,000

52J/07 SE - 0074
#6

63-4476

| | | | |
|--|--|-------------------|--|
| TECK EXPLORATIONS LIMITED NORTH BAY ONTARIO | | 63-4476 | |
| SURVEY: MAGNETOMETER SURVEY | | DWG. BY: G.S.K. | |
| PROPERTY/AREA: GROUP U-16, CENTRAL GRID SAVANT LAKE, ONTARIO | | CHK. BY: K.R.T. | |
| CLIENT: SAVANT LAKE GOLD PROJECT | | DATE: 1983-06-25 | |
| SCALE: 1 inch = 200 feet | | JOB: 98470 | |
| | | NTS: 52J/7 | |
| | | DWG. NO.: 5513-2c | |

| | | |
|--|--------------|------|
| INSTRUMENT: SCINTREX MF-2 MAGNETOMETER | REVISED DATE | CHK. |
| OPERATOR: J. LAITIN | | |
| TA. STATION: | | |
| COIL SEPARATION: | | |
| FREQUENCY: | | |
| REFERENCE: | | |



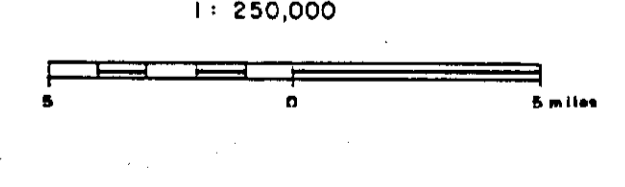
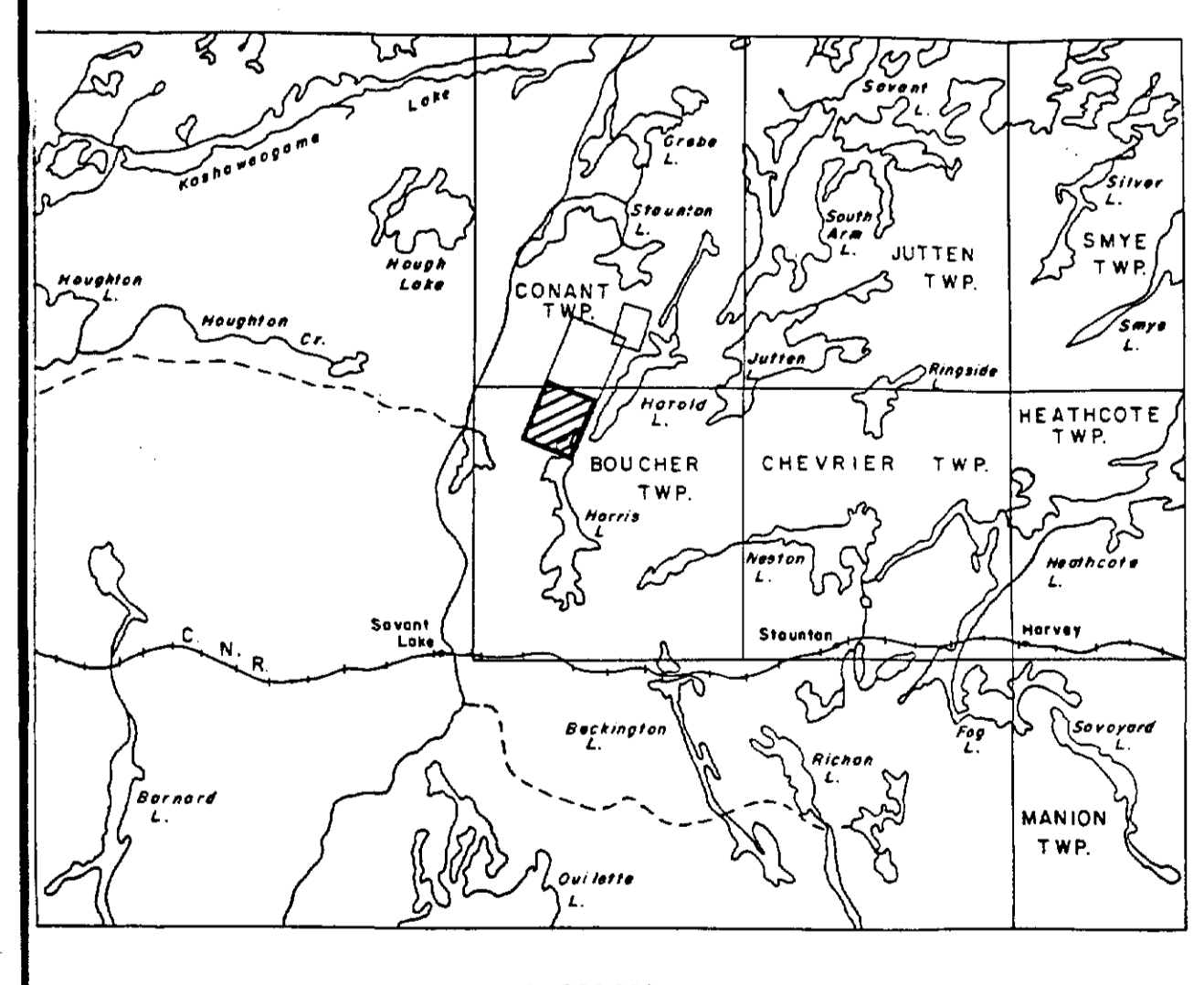
52J/07SE - 0074
#7

TECK EXPLORATIONS LIMITED
NORTH BAY ONTARIO

| | | | | | |
|-----------------|--|--|--|--------|------------|
| SURVEY | | GEOLOGICAL SURVEY | | DWG BY | D.A.G. |
| PROPERTY / AREA | | GROUP U-16, SOUTHERN GRID SAVANT LAKE, ONTARIO | | CHK BY | J.S.F. |
| CLIENT | | SAVANT LAKE GOLD PROJECT | | DATE | 1983-09-08 |
| SCALE | | 1 inch = 200 feet | | JOB | 98470 |
| | | | | NTS | 52J/7 |
| | | | | DWG NO | 5513-3a |

- LEGEND**
- 8 DIORITE
 - 7 FELSIC HYPABYSSAL
 - (y) quartz-feldspar porphyritic
 - (z) feldspar porphyritic
 - 6 FELSIC VOLCANICS
 - (a) dacite
 - (b) rhyodacite
 - (u) feldspar-porphyritic
 - (v) massive (flow?)
 - (w) laminated, bedded (tuff)
 - (x) lapilli tuff
 - (y) tuff breccia
 - (z) sericitized
 - 5 INTERMEDIATE-FELSIC VOLCANICS
 - (v) fine bedded tuff, minor siltstone
 - (w) lapilli tuff
 - 4 CLASTIC SEDIMENTS
 - (a) siltstone
 - (b) graphitic argillite
 - (c) sulphide-rich
 - (d) cherty
 - (y) massive
 - (z) laminated, bedded
 - 3 ACTINOLITE-TALC ROCK
 - 2 BASALT
 - (a) tuff
 - (b) pillowed
 - 1 AMPHIBOLITE
 - (a) amphibole content 10-35%
 - (b) amphibole content 35-75%
 - (c) amphibole content >75%
 - (u) garnetiferous
 - (v) variegated
 - (w) massive
 - (x) coarse-grained
 - (y) fine-grained
 - (z) laminated, bedded
- Outcrop
 // Bedding
 // Schistosity (1st, 2nd)
 --- Contact
 --- Fault
 ● S1/M Grab sample (rock) - No. & Assay (ppb) Au
 ++ B-horizon soil sample - No. & Assay (ppb) Au
 //** Quartz vein
 ≡ Swamp or marsh

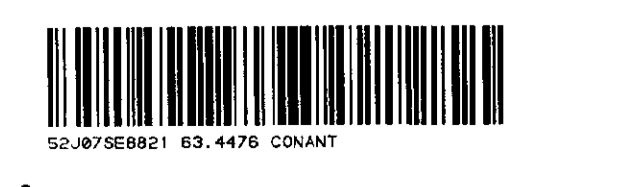
- LEGEND**
- 8 DIORITE
 - 7 FELSIC HYPABYSSAL
 - (y) quartz-feldspar porphyritic
 - (z) feldspar porphyritic
 - 6 FELSIC VOLCANICS
 - (a) dacite
 - (b) rhyodacite
 - (u) feldspar-porphyritic
 - (v) massive (flow?)
 - (w) laminated, bedded (tuff)
 - (x) lapilli tuff
 - (y) tuff breccia
 - (z) sericitized
 - 5 INTERMEDIATE-FELSIC VOLCANICS
 - (v) fine bedded tuff, minor siltstone
 - (w) lapilli tuff
 - 4 CLASTIC SEDIMENTS
 - (a) siltstone
 - (b) graphitic argillite
 - (c) sulphide-rich
 - (d) cherty
 - (y) massive
 - (z) laminated, bedded
 - 3 ACTINOLITE-TALC ROCK
 - 2 BASALT
 - (a) tuff
 - (b) pillowed
 - 1 AMPHIBOLITE
 - (a) amphibole content 10-35%
 - (b) amphibole content 35-75%
 - (c) amphibole content >75%
 - (u) garnetiferous
 - (v) variegated
 - (w) massive
 - (x) coarse-grained
 - (y) fine-grained
 - (z) laminated, bedded
- Outcrop
 // Bedding
 // Schistosity (1st, 2nd)
 --- Contact
 --- Fault
 ● S1/M Grab sample (rock) - No. & Assay (ppb) Au
 ++ B-horizon soil sample - No. & Assay (ppb) Au
 //** Quartz vein
 ≡ Swamp or marsh



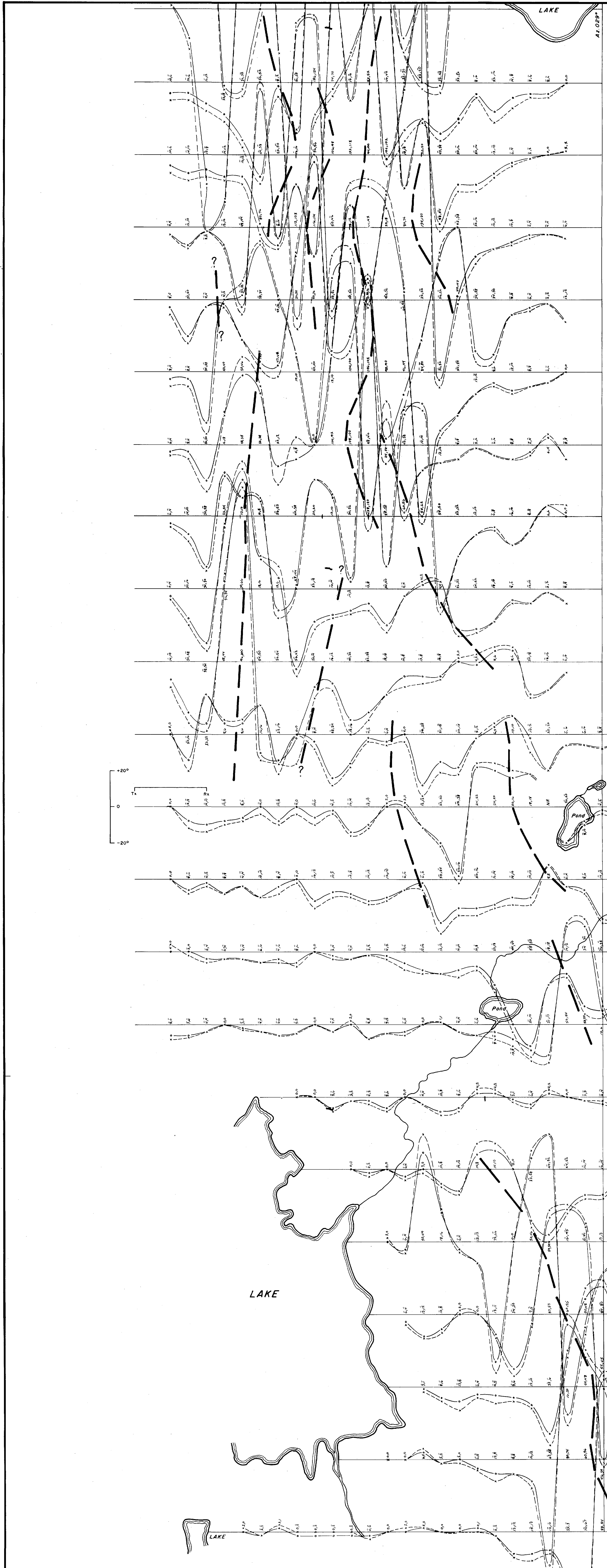
52J/07SE - 0074
#7

TECK EXPLORATIONS LIMITED
NORTH BAY ONTARIO

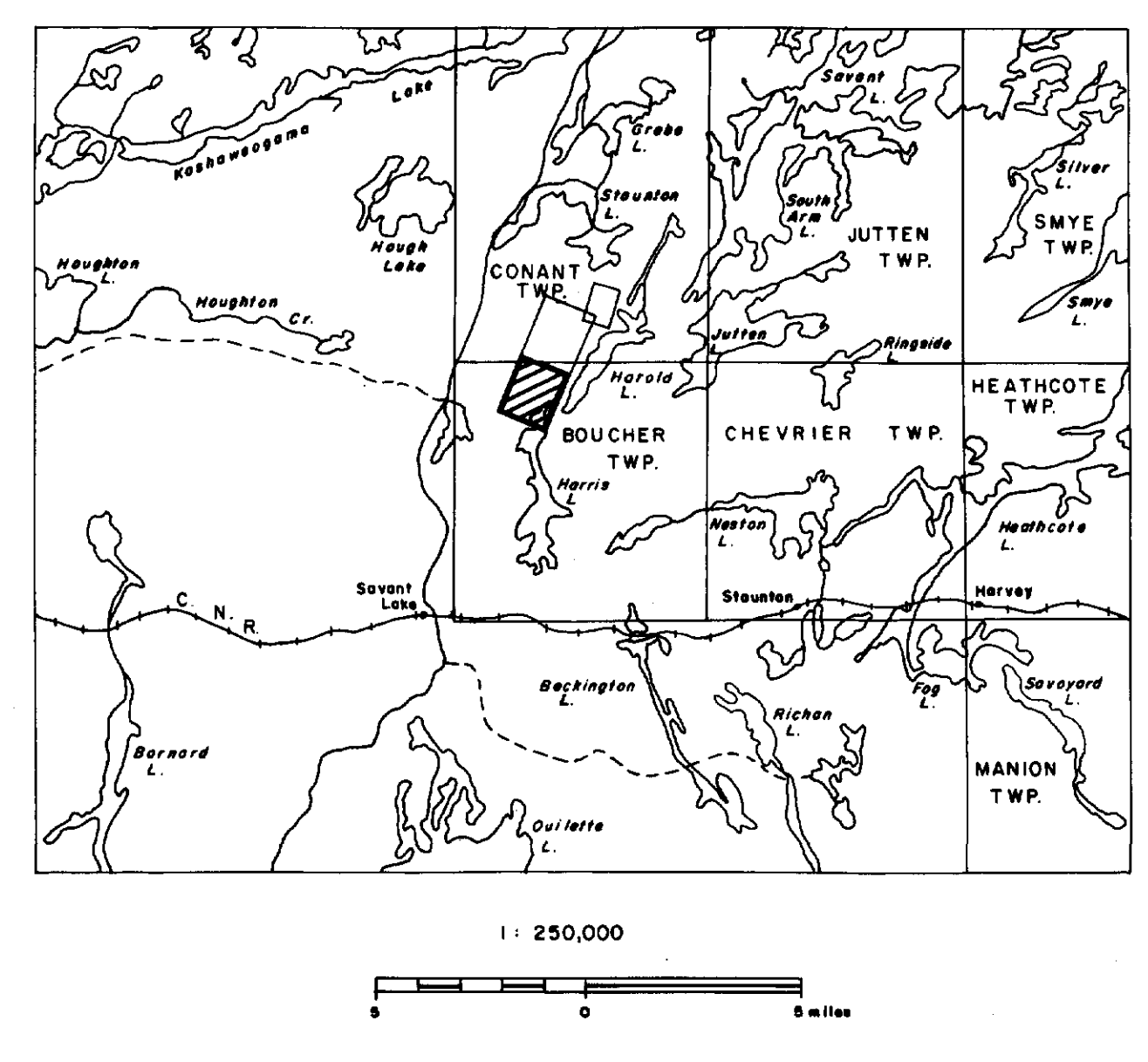
| | | | | | |
|-----------------|--|--|--|--------|------------|
| SURVEY | | GEOLOGICAL SURVEY | | DWG BY | D.A.G. |
| PROPERTY / AREA | | GROUP U-16, SOUTHERN GRID SAVANT LAKE, ONTARIO | | CHK BY | J.S.F. |
| CLIENT | | SAVANT LAKE GOLD PROJECT | | DATE | 1983-09-08 |
| SCALE | | 1 inch = 200 feet | | JOB | 98470 |
| | | | | NTS | 52J/7 |
| | | | | DWG NO | 5513-3a |



| | |
|------------------|--|
| INSTRUMENT | |
| OPERATOR | |
| COLOR SEPARATION | |
| FREQUENCY | |
| REFERENCE | |

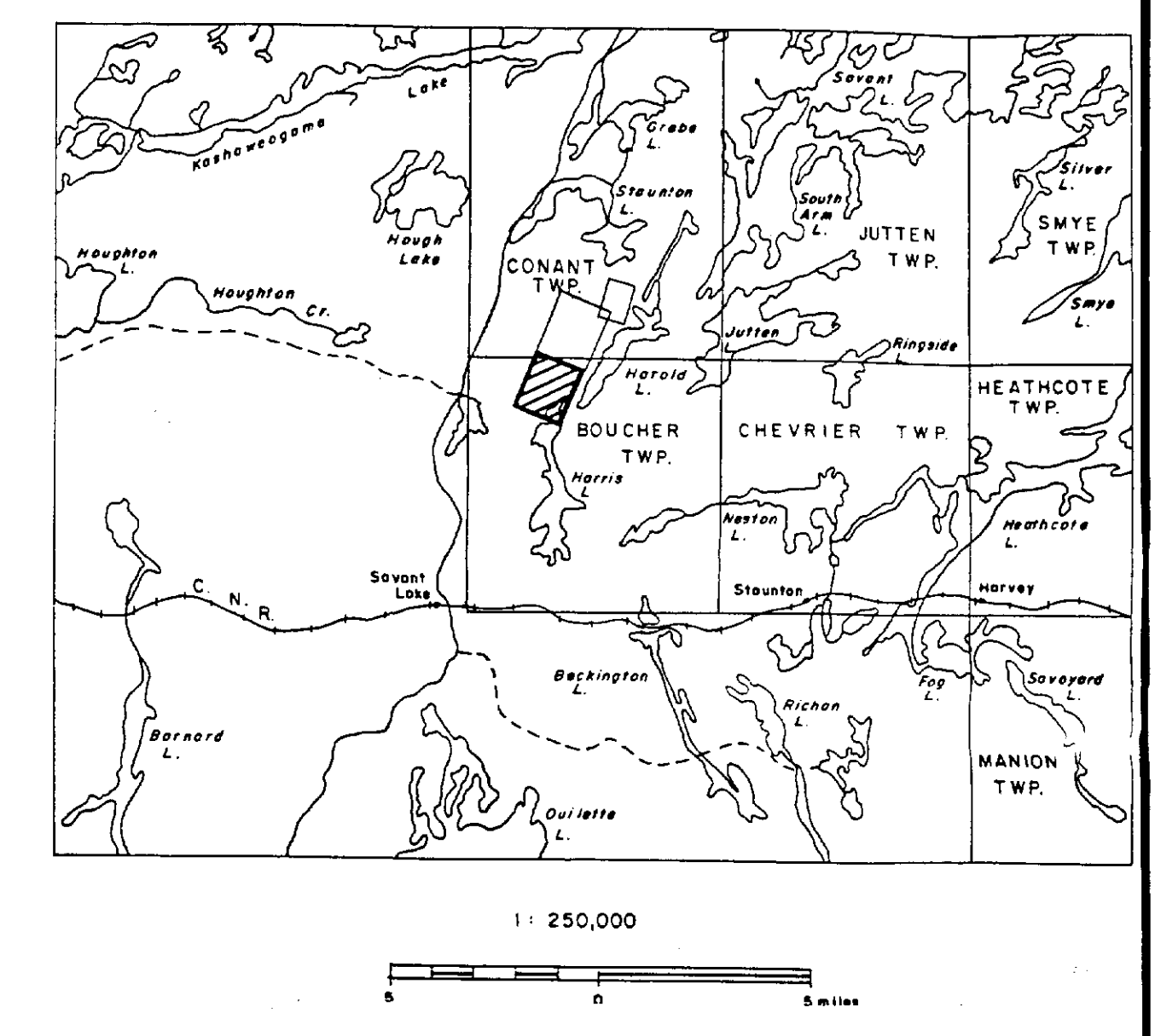


60+00S
64+00S
68+00S
72+00S
76+00S
80+00S
84+00S
88+00S
92+00S
96+00S
100+00S
104+00S
108+00S
112+00S
116+00S
120+00S
124+00S
128+00S
132+00S
136+00S
140+00S
144+00S



52J/07SE - 0074
8

| | | |
|--|--|------------------|
| TECK EXPLORATIONS LIMITED | | |
| NORTH BAY ONTARIO | | |
| ELECTROMAGNETIC SURVEY | | DRW BY: C.E.K. |
| PROPERTY/AREA GROUP U-16, SOUTHERN GRID SAVANT LAKE, ONTARIO | | CHK BY: K.R.T. |
| CLIENT: SAVANT LAKE GOLD PROJECT | | DATE: 1983-06-25 |
| SCALE: 1 inch = 200 feet | | JOB: 98470 |
| 1:250,000 | | WTS.: 52J/7 |
| 1:250,000 | | DRW NO.: 5513-3b |



63,4476

52J/07SE - 0074
8

| | | | | |
|-------------------------------|--|----------|------|-----|
| INSTRUMENT: Crone C.E.M. UNIT | | REVISION | DATE | CHK |
| OPERATOR: MARION ASSELIN | | | | |
| TR. STATION: | | | | |
| COIL SEPARATION: 400 feet | | | | |
| FREQUENCY: 1350 Hz, 390 Hz | | | | |

— Conductor Axis

| | | |
|--|--|------------------|
| TECK EXPLORATIONS LIMITED | | |
| NORTH BAY ONTARIO | | |
| ELECTROMAGNETIC SURVEY | | DRW BY: C.E.K. |
| PROPERTY/AREA GROUP U-16, SOUTHERN GRID SAVANT LAKE, ONTARIO | | CHK BY: K.R.T. |
| CLIENT: SAVANT LAKE GOLD PROJECT | | DATE: 1983-06-25 |
| SCALE: 1 inch = 200 feet | | JOB: 98470 |
| 1:250,000 | | WTS.: 52J/7 |
| 1:250,000 | | DRW NO.: 5513-3b |