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ASSESSMENT REPORT

GEOCHEMICAL SURVEY

NIE #8 CLAIM

ATLIN MINING DIVISION

TATSAMENIE LAKE AREA, B. C.

N.T.S. 104K/Tulsequah Sheet

58° 28' N

132° 18' W

OWNER: CHEVRON CANADA LIMITED

OPERATOR: CHEVRON CANADA RESOURCES LIMITED

Author: Mike Thicke

October 1983

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,964

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LOCATION AND ACCESS

The NIE #8 claim is located at 58°28'N and 132°18'W, approximately 152 kilometers southeast of Atlin, B. C. Access to the property was by helicopter from a base camp at Bearskin Lake, 20 kilometers south.

CLAIM

The NIE #8 claim was staked in September, 1981 (Figure 2).

<u>Claim</u>	<u>Record Number</u>	<u>Record Date</u>	<u>No. of Units</u>
NIE #8	1292	September 18, 1981	20

The property is owned by Chevron Canada Limited with Chevron Canada Resources Limited acting as the operator. The claim was staked on previously unstaked ground.

REGIONAL GEOLOGY

The NIE #8 claim is underlain by Lower or Middle Triassic(?) diorite that intrudes Pre-Upper Triassic greenstone and phyllite (Souther, 1971). To the north Late Cretaceous to Early Tertiary biotite-hornblende quartz monzonite (Souther, 1971) is exposed. Five kilometers both to the east and west of the claim is a diorite gneiss and amphibolite unit of unknown age.

GEOCHEMICAL SURVEY OF CLAIMS

Forty-nine soil samples were collected from contour soil lines on the NIE #8 claim. Contour soil lines were used to complement and fill in soil geochemistry from the previous field season. Soil samples were collected at 50 meter intervals. Soil development is good and B-horizon soil was collected when possible from depths of 0 to 20 centimeters.

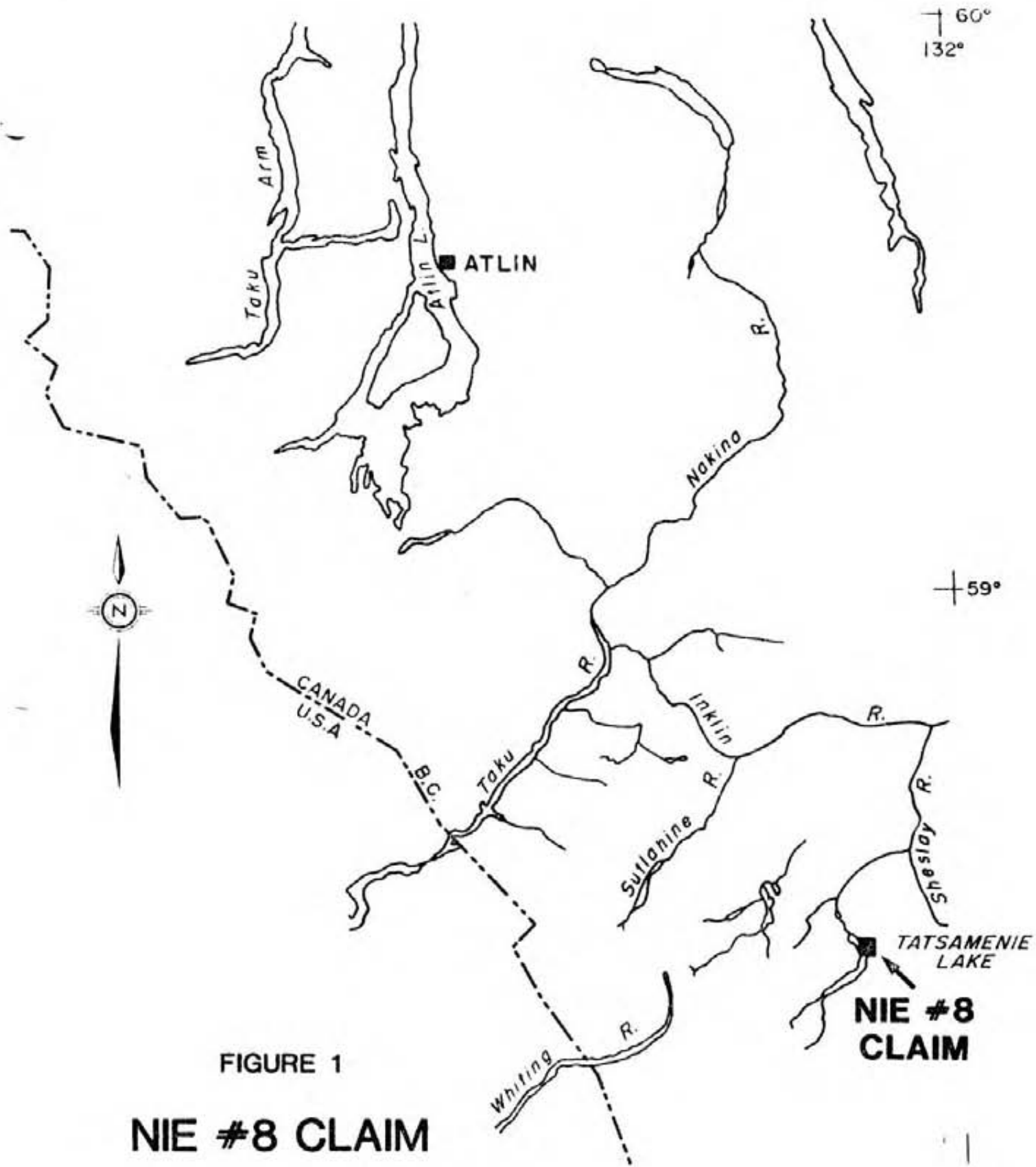


FIGURE 1
NIE #8 CLAIM
LOCATION MAP
 M523

0 30
 Km

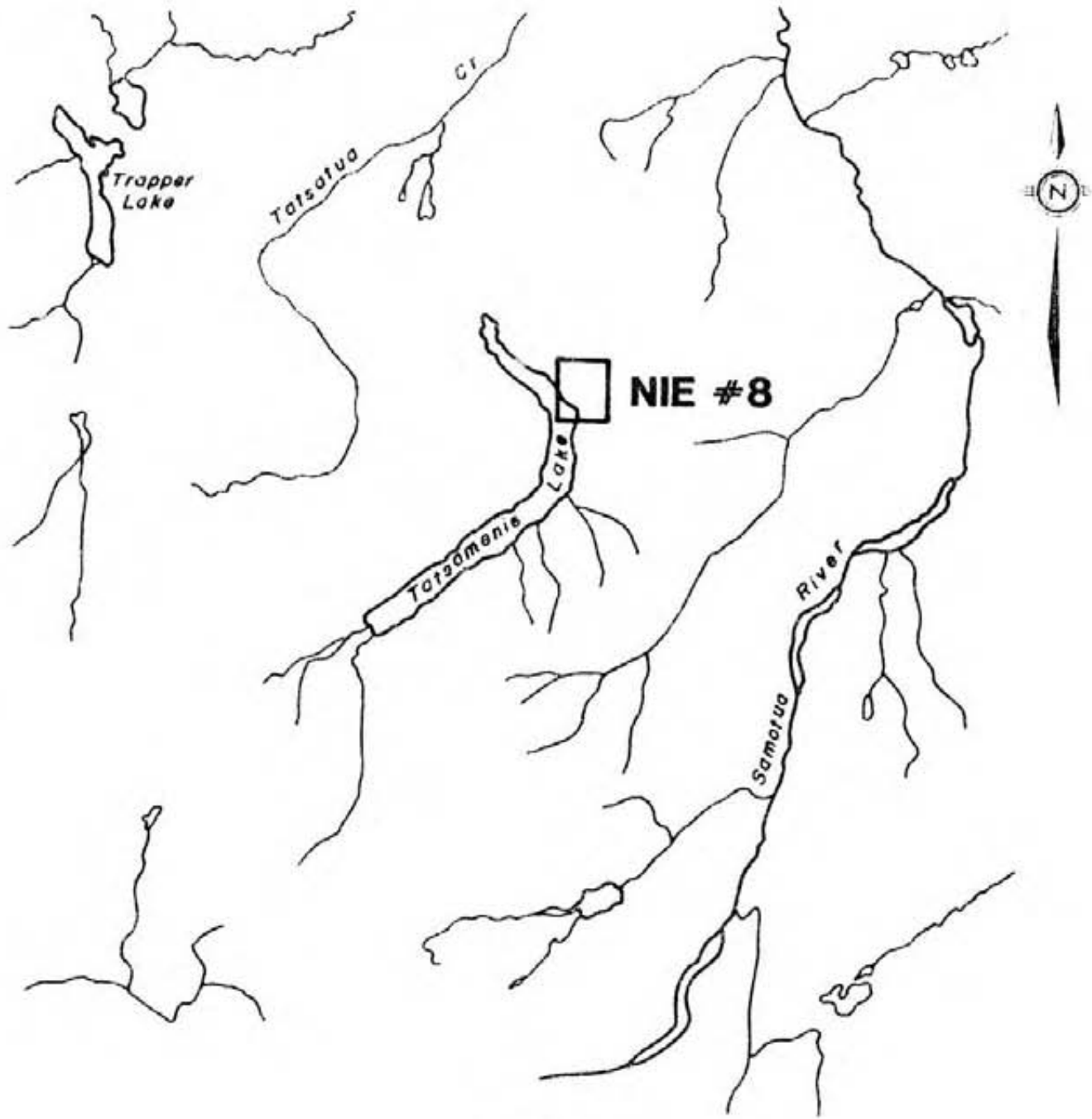


FIGURE 2

NIE #8 CLAIM MAP



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Soil samples were placed in kraft wet strength soil bags, and shipped to Chemex Labs Limited of North Vancouver, B. C. The samples were further dried and then sieved, with the -80 mesh fraction retained for analysis. For Au determination, a fire assay - atomic absorption technique is used with the fire assay bead being dissolved in HCl and HNO₃ then analysed by conventional atomic absorption techniques. For silver, a mixture of HClO₃ and HNO₃ is used to digest the sample, which is followed by atomic absorption spectrophotometry.

For arsenic a 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with NaBH₄ and the arsenic content determined using flameless atomic absorption.

For Sb a 2.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe⁺² state and the Sb complexed with I⁻. The complex is extracted with TOPO-MIBK and analyzed via A.A.

GEOCHEMICAL RESULTS

Soil sample locations are illustrated on Figure 3. Gold and silver values are plotted on Figure 4, while arsenic and antimony values are found on Figure 5. Only three samples contain greater than 50 ppb gold. Silver, arsenic and antimony values are all background.

CONCLUSIONS AND RECOMMENDATIONS

Four man days were spent prospecting and soil sampling the NIE #8 claim. Contour soil lines were used to complement and fill in soil geochemistry from the previous field season. The geochemical survey did not outline any zones of mineralization. No further work is recommended at this time due to the lack of any significant gold or silver mineralization.

REFERENCE

Souther, J.G. (1971). Geology and mineral deposits of Tulsequah map-area, British Columbia. Geological Survey of Canada Memoir 362, 84 p.

1983 EXPLORATION PROGRAM
NIE #8 CLAIM
TATSAMENIE LAKE AREA, B.C.
COST STATEMENT

PERIOD: September 2 - 3, 1983.

LABOUR:

<u>Name</u>	<u>Position</u>	<u>Field Days</u>	<u>Office Days</u>
Mike Thicke	Geologist	2	1
Jim Armstrong	Assistant	<u>2</u>	<u>-</u>
	TOTAL	4	1

Average cost per field man day = \$100/day	\$ 400.00
Average cost per office man day = \$150/day	150.00

ANALYSES:

Soil: 49 soils @\$16.15 each	791.35
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CAMP COSTS:

4 days @\$60.00 per day	240.00.
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DRAFTING:

1 man day @\$100. per day	100.00
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HELICOPTER:

1.3 hrs @\$500. per hr. including fuel	<u>650.00</u>
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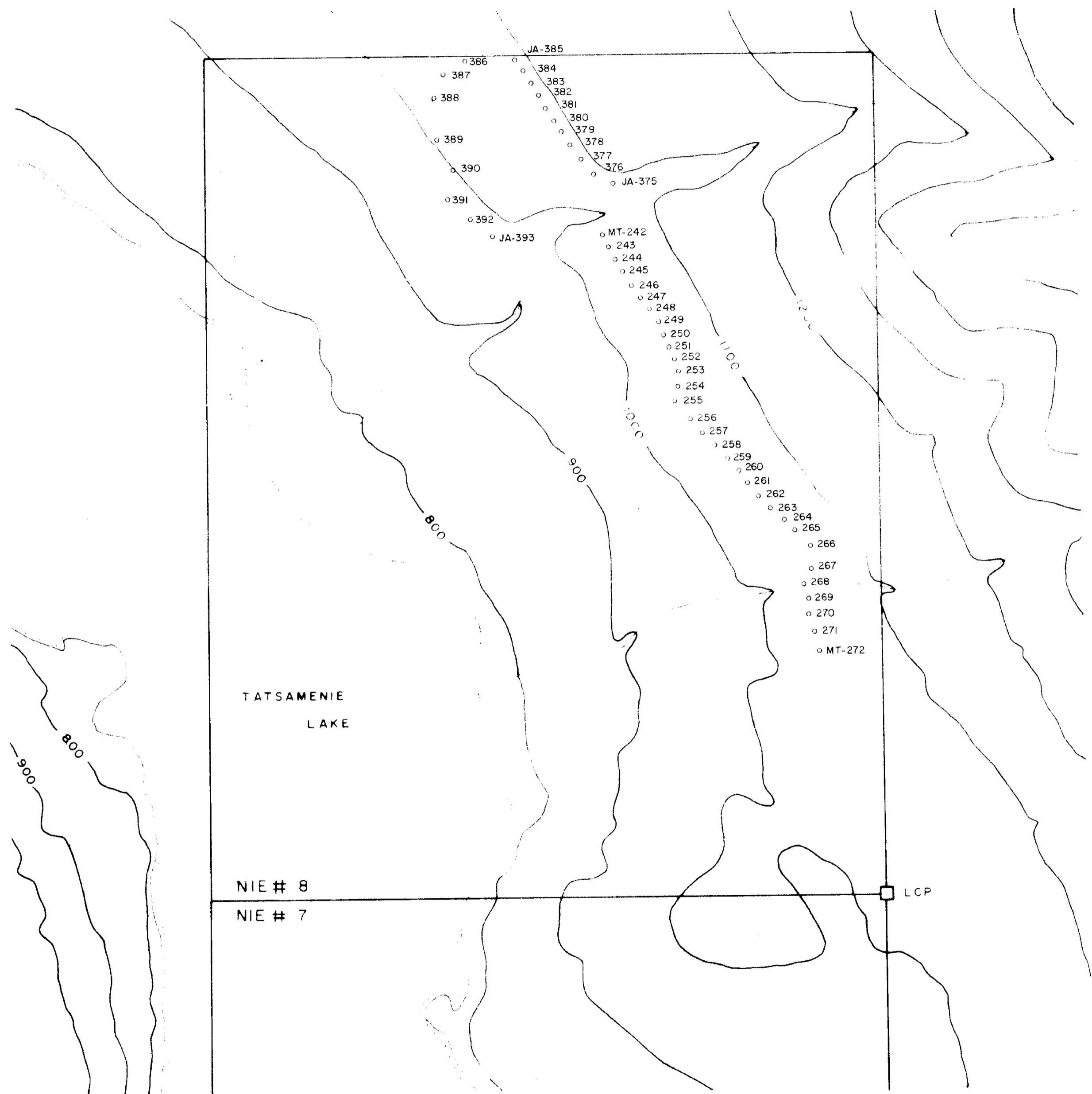
TOTAL	\$2,331.35
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STATEMENT OF QUALIFICATIONS

I, Mike Thicke, graduated from the University of British Columbia in May, 1980 with a B.Sc. degree in geology. Six seasons have been spent working in exploration geology in B.C., including four since graduation. I am presently employed as a geologist by Chevron Canada Resources Limited of Vancouver, B. C.

A handwritten signature in cursive script that reads "Mike Thicke". The signature is written in dark ink and is positioned above the printed name.

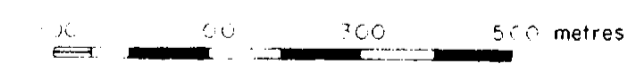
Mike Thicke



○ soil sample

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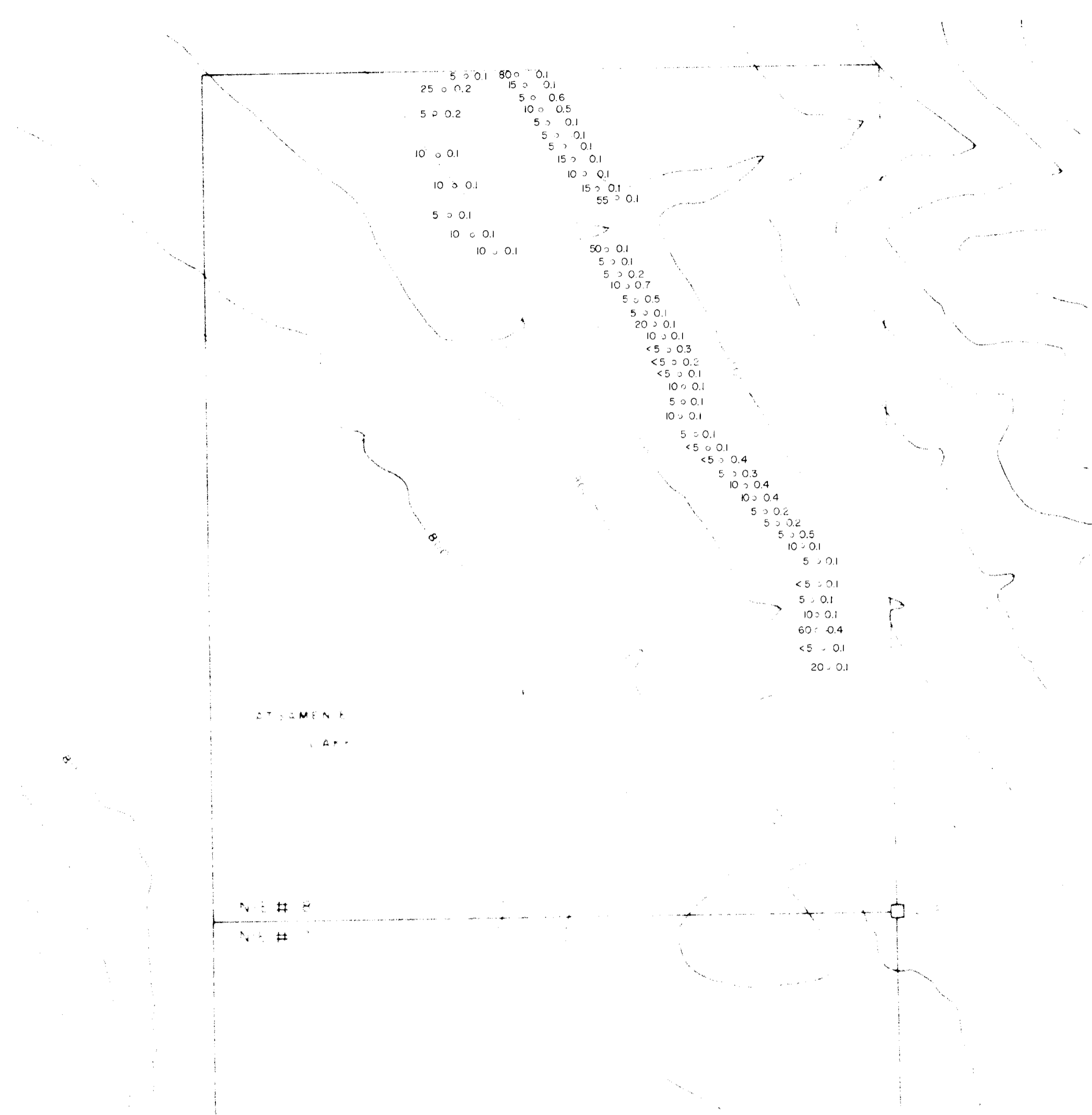
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Chiyon Standard Limited
Minerals Staff

**NIE # 8 CLAIM
SAMPLE LOCATIONS**

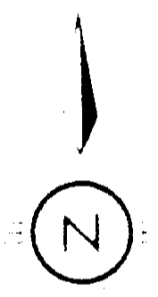
3	M523
OCT/83	
104 K	
M. T.	M-34



o soil sample
 Au (ppb)
 Ag (ppm)

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metres

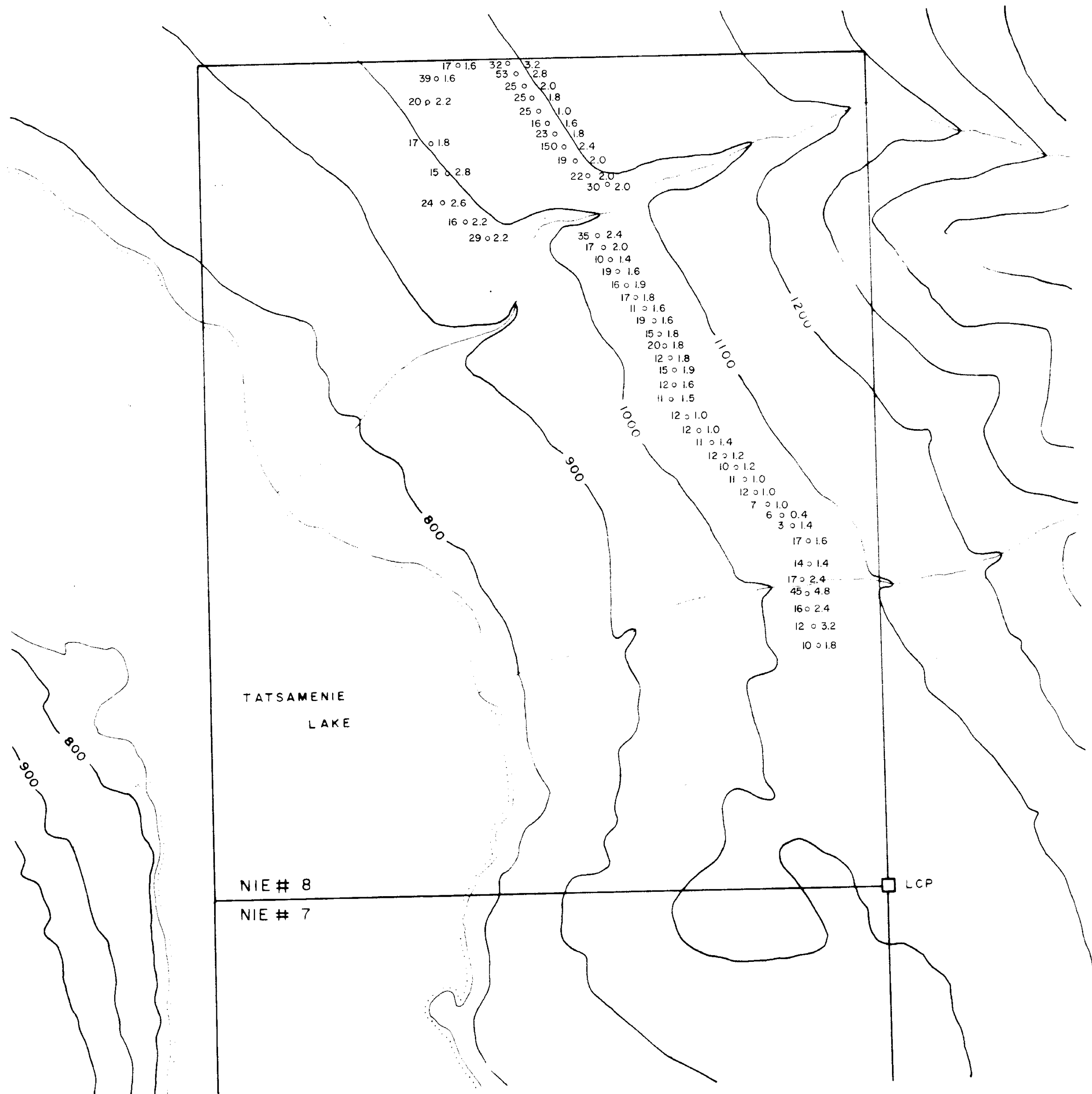
NIE # 8 CLAIM

Au and Ag SOIL GEOCHEMISTRY

4
 OCT./83
 104 K
 M.T.

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M-34



o soil sample
 As (ppm)
 Sb (ppm)

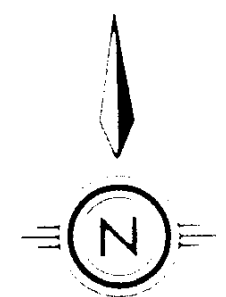
TATSAMENIE
LAKE

NIE # 8
NIE # 7

LCP

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metres

Chesapeake State University
Minerals Staff

NIE # 8 CLAIM

As and Sb SOIL GEOCHEMISTRY

5	M523
OCT/83	
104 K	
M.T.	M-34