

PROPERTY FILE

150072-07

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE

TEL GROUP OF CLAIMS

WHOLLY OWNED BY:

CANADIAN SUPERIOR EXPLORATION LTD.,

CLAIMS: TEL 1-40

LOCATION: 54°03'N 126°26'W

(25 MILES SSE OF HOUSTON, B.C.)

OMINECA MINING DIVISION

Donald R. Rae,
Smithers, B.C.
17 December 1973

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INTRODUCTION

Spatial relationship of the Goosly and Nadina mineralization to Tertiary intrusives led to interest in a similar intrusive at the north end of Tschigass Lake. A quick recce EML6 survey in the summer of 1972 by W. Thompson for C.S.E. revealed the presence of a conductor, similar to that of the Goosly deposit. A winter EML6-mag program was planned for winter 72-73.

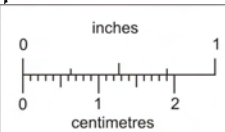
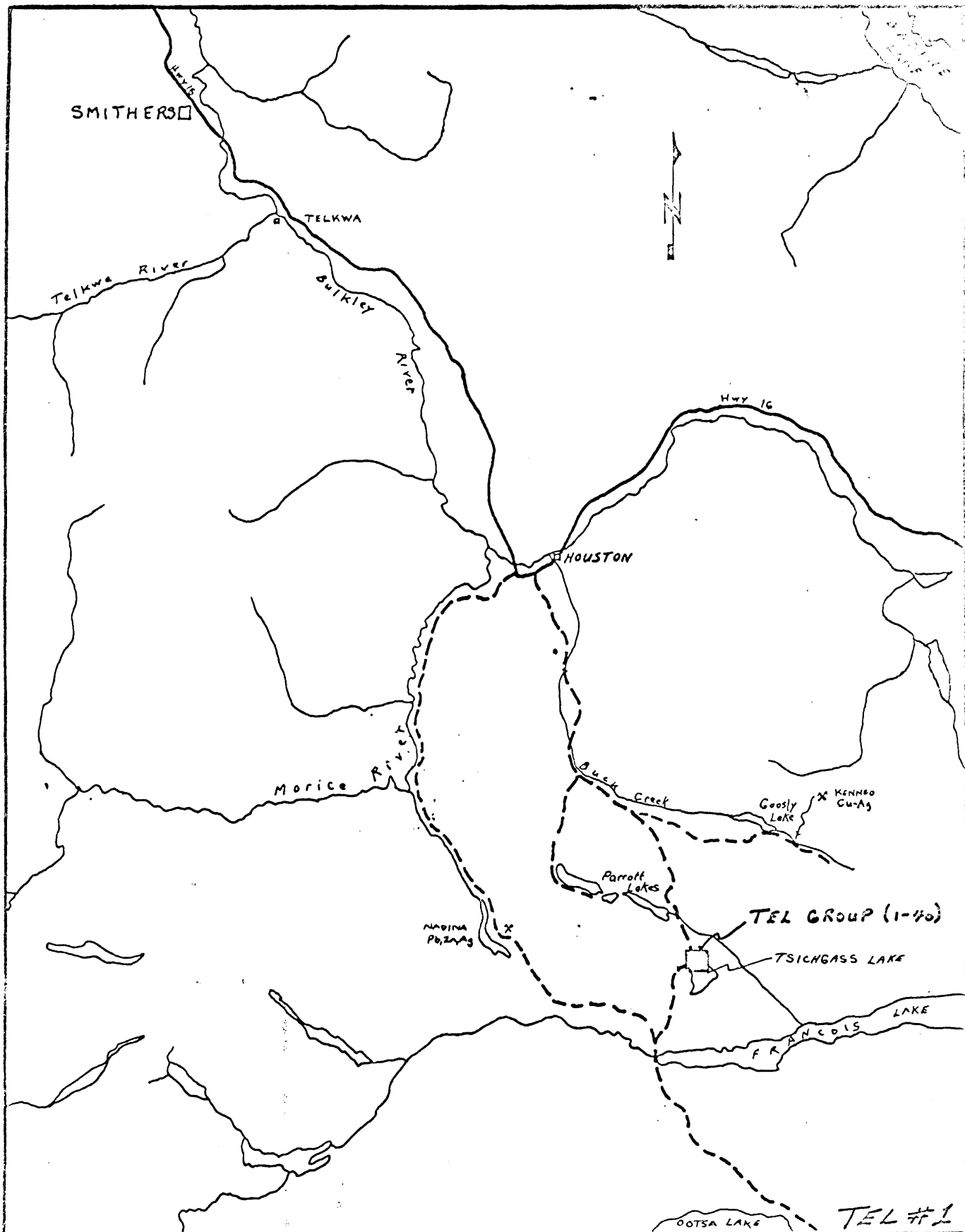
SUMMARY

The monzonitic intrusive 25 miles SSE of Houston at the north end of Tschigass Lake was investigated in the winter of 72-73 first on a reconnaissance and subsequently on a detailed basis using a Geonics EML6 VLF unit and a McPhar M700 fluxgate magnetometer.

Forty claims (Tel 1-40) were staked on the basis of recce geophysical work and the above geologic data by D. Rae for C.S.E. and recorded Jan. 2/73. Subsequently detailed geophysical work, soil geochemistry for Cu, Zn, Ag and Hg, limited rock geochemistry for Cu, Hg and As and geologic work has been done.

CONCLUSIONS AND RECOMMENDATIONS

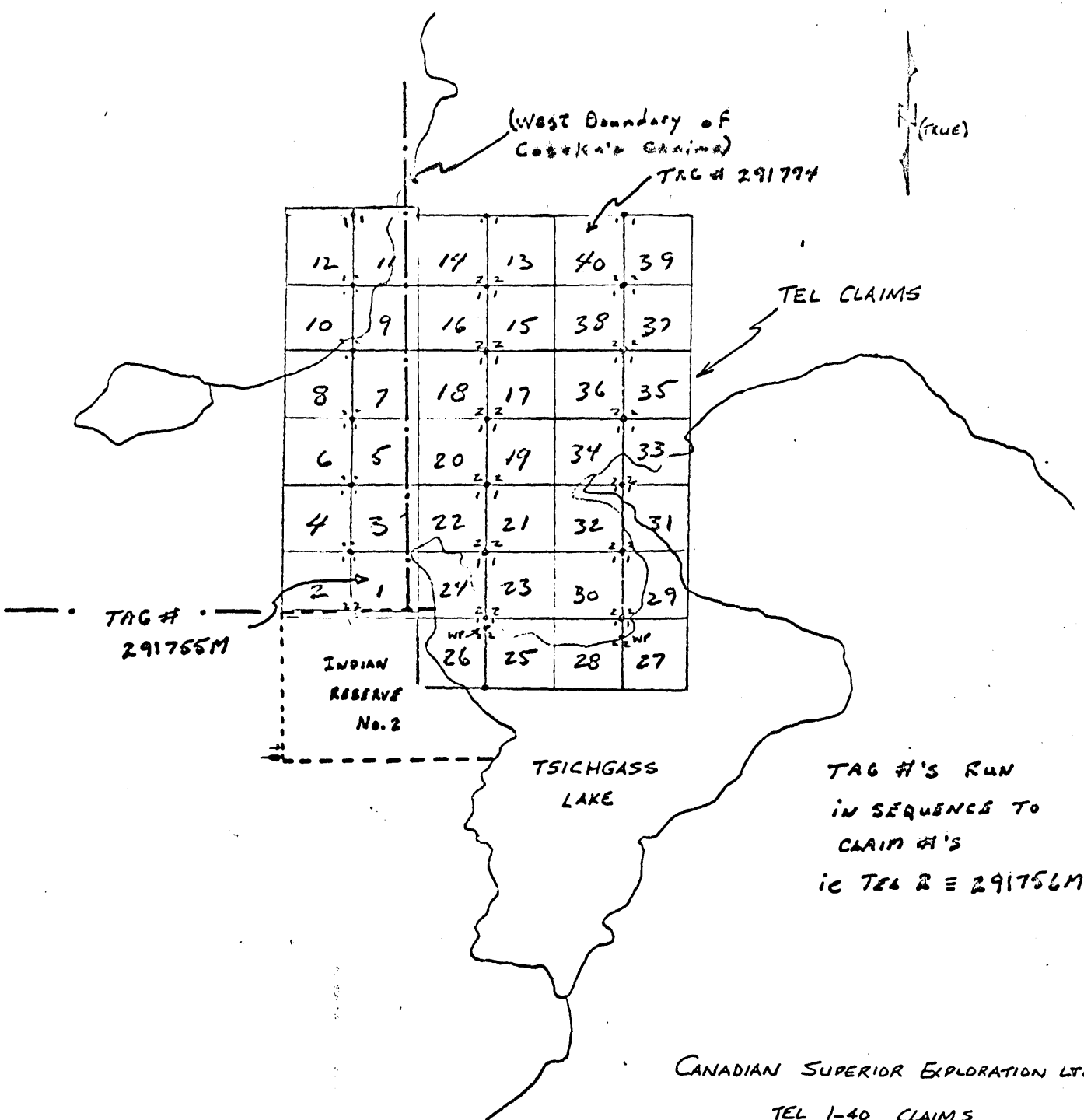
Lack of encouraging soil and bedrock geochemistry as well as the absence of significant mineralization has led to the forfeiting of the claim group. EML6 conductors and elongate mag highs are suspected to be due to local concentrations of magnetite^{near} at the ^{Contact} boundary of the monzonite.



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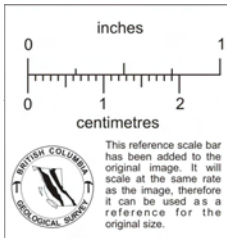


CANADIAN SUPERIOR EXPLORATION LIMITED		
SMITHERS REGIONAL OFFICE		
TEL GROUP		
Location Map		
DRAUGHTSMAN: D.R.	SCALE: 1 in. = 8 mi	DATE: Jan. 1973



SCALE: 1" = 1/2 mile

RECORDED JAN 2 / 72



LOCATION AND ACCESS

The property is situated at 54°03'N; 126°26'W, 25 miles SSE of Houston at the north end of Tsichgass Lake.

Eighteen miles along the Goosly Lake logging road a periodically maintained logging road to the south leads to within two miles of east Parrott Lake. The final eight miles to the Tel Group is south along an expired logging road accessible only by skidoo or on foot. The property may also be reached by a farmer's road through Noralee on Francois Lake, the distance being approximately 10 miles and a 4 x 4 vehicle being required.

HISTORY

Kennco held ground to the north and east, adjoining and partially overlapping the Tel Group from Sept/70 through Sept/72 holding it for one year on the basis of a geologic and geochemical report (#3258).

Coseka submitted a soil geochemical report (Jan/72) holding claims adjoining to the west and northwest and partially overlapping claims of the Tel Group to the west making the latter (much of Tel 1-12) void.

The central conductor was initially located by W. Thompson of C.S.E. in June/72.

REGIONAL GEOLOGY

The oldest rocks in the area are Lower Jurassic andesites and

pyroclastics with some sedimentary horizons. Middle Jurassic grey-wackes, siltstones, mudstones, tuffs and minor conglomerate overlie the above.

Mesozoic rocks appear as windows within a cover of Tertiary flows and pyroclastics.

Mineralization at Goosly and Nadina is spatially related to Tertiary intrusives (approx. 50 mill. yrs).

LOCAL GEOLOGY

From magnetics and limited geology the monzonite at the north shore of Tsichgass Lake is inferred to be elongate to dike-like in shape. It varies from fg to cg, is quartz poor, contains 20-40% mafics as hornblende and is rich in magnetite (3-5% estimated).

The east margin intrudes a dacite breccia. Further east from the contact the rock tends more toward a flow of dacitic composition. Bedrock is not exposed near the magnetically inferred west contact although andesite-basalt flows are observed 2500' to 3000' to the NW.

Py and an insignificant amount of chalcopyrite have been noted within the monzonite.

GEOPHYSICS

Fifteen line miles of recce work (200' readings on lines spaced 800' apart), using an EML6 unit and a magnetometer, were

covered from Dec. 11/72 to Dec. 22/72. Four areas of mag - EM16 anomalies are shown on the accompanying maps. Four line miles of detailed work (50' readings on lines 200' apart) using the same instruments was run from Jan. 4/73 to Jan. 16/73.

Anomalies are characterized by local mag highs and conductive zones are delineated by both in phase and quadrature crossovers.

SOIL GEOCHEMISTRY

Results here are shown as scattered mild highs in Cu, Zn, Ag and/or Hg, reminiscent of background noise only. No target was found.

BEDROCK GEOCHEMISTRY

Poorly idistributed outcrop led to an incomplete survey. However, eratic low Cu, Hg and As values are discouraging in view of the fact that, commonly rock in the vicinity or ore deposits in the Hazelton are quite anomalous in these elements. (Church/73).

GEOLOGY

É
/

ROCK

GEOCHEM.



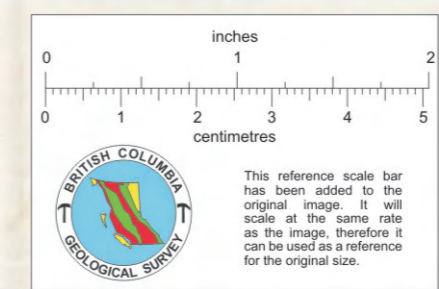
PROPERTY FILE

LEGEND

- MONZONITE
- ANDESITE-BASALT
- DACITE BRECCIA
- DACITE FLOW
- LEACHED ACIDIC VOLCANICS - possible fault zone down Paper Creek

GEOCHEM - ROCKS COPPER/MERCURY/ARSENIC
 ppm ppm ppm

- SHEARING - FOLIATION
- JOINTS
- GLACIAL STRIAE



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GEOLOGY AND ROCK GEOCHEMISTRY
TEL GROUP
 TSICHGASS LAKE AREA

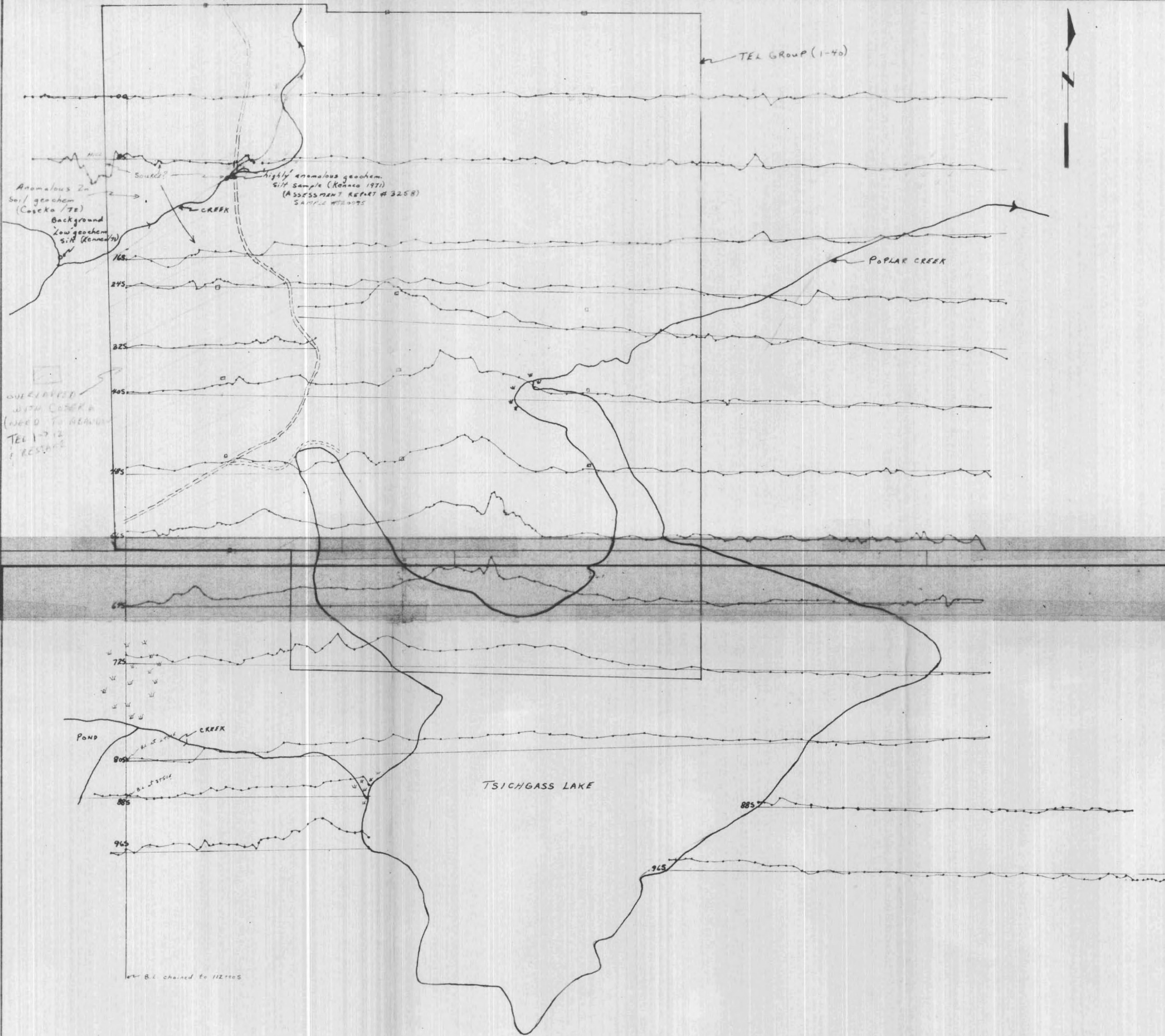
DRAUGHTSMAN: D.K. SCALE: 1" = 500' DATE: Oct/78 93 L 2

PROPERTY FILE

EM 16

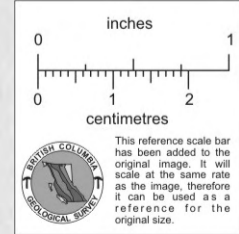
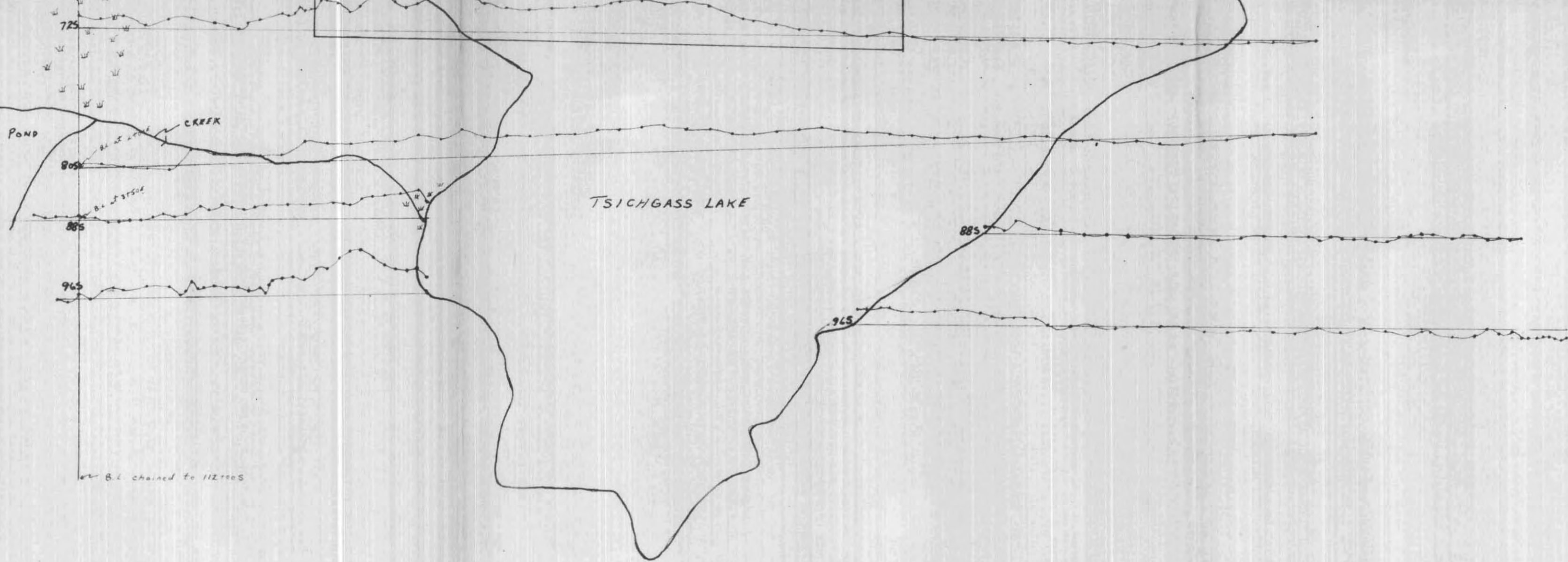
'
E
'

MAG

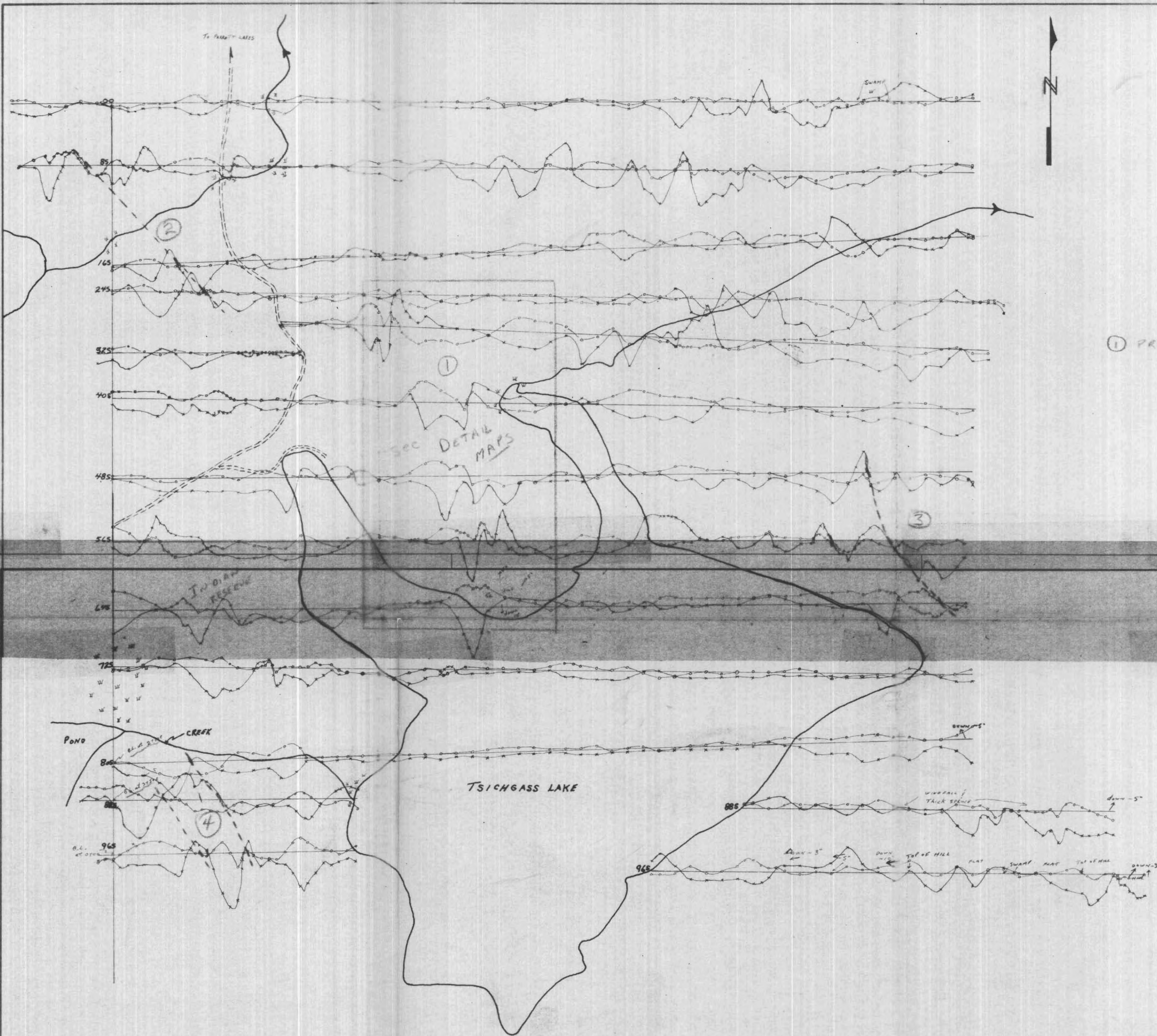


LEGEND
 1" = 800'
 → MAGNETIC RESPONSE
 VERTICAL SCALE: LINE AT 1500Y
 1" = 2000'

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TEL #4
 CANADIAN SUPERIOR EXPLORATION LIMITED
 SMITHERS REGIONAL OFFICE
 RECONNAISSANCE MAGNETIC
 PROFILE TSCHIGASS
 LAKE AREA
 DRAUGHTSMAN O.R. SCALE 1" = 800' DATE JAN 75

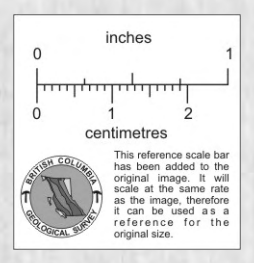


LEGEND
 1" = 800'
 1" = 40% (vertical EM Readings)
 * * IN PHASE RESPONSE
 o o QUADRATURE RESPONSE

① PRIORITY ANOMALIES

CANADIAN SUPERIOR EXPLORATION LIMITED
 SMITHERS REGIONAL OFFICE
 DRAUGHTSMAN SCALE DATE

PROPERTY FILE

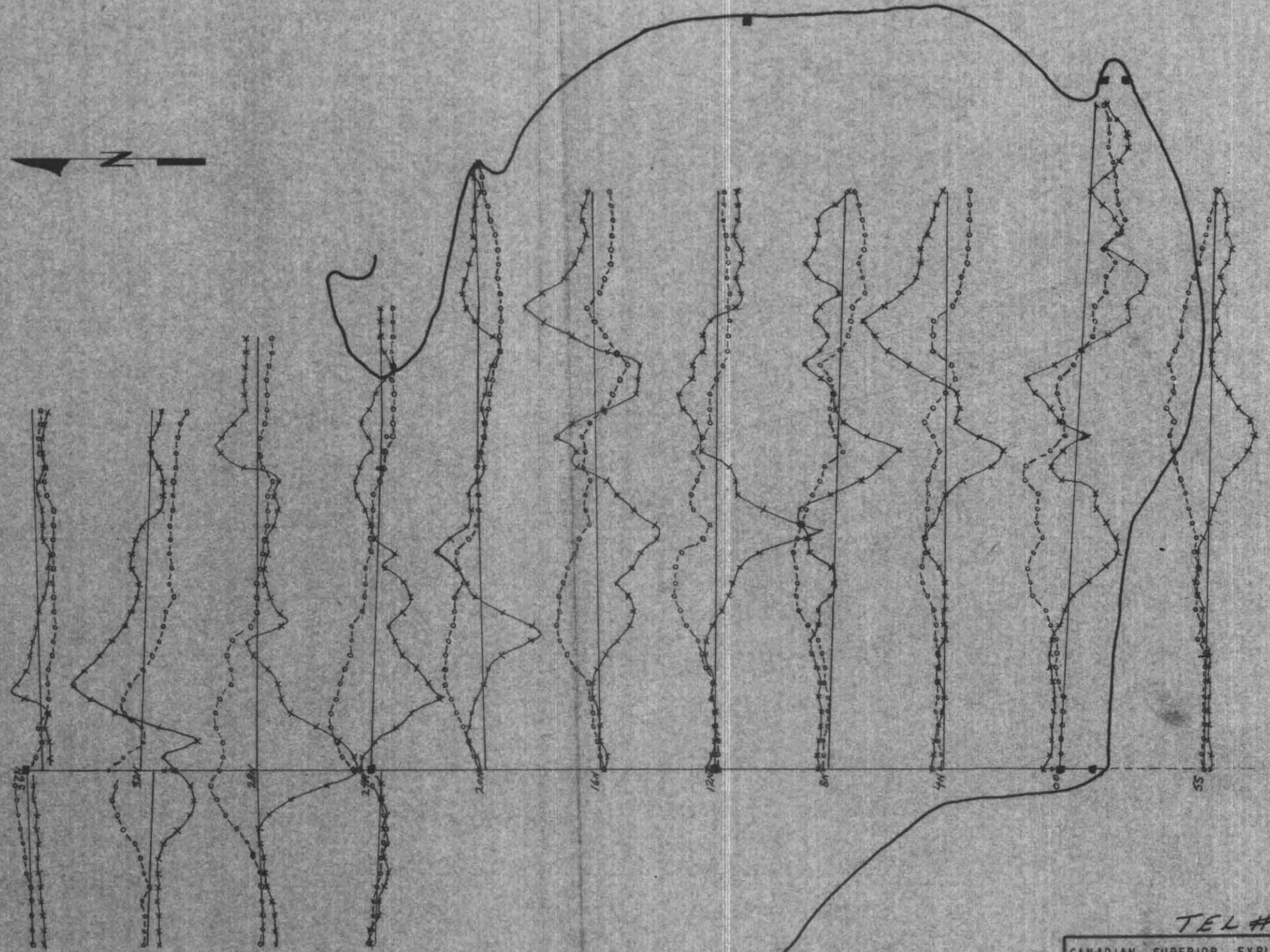


TEL #3
 CANADIAN SUPERIOR EXPLORATION LIMITED
 SMITHERS REGIONAL OFFICE
 RECONNAISSANCE EM 1G
 IN PHASE - QUADRATURE
 PROFILES TSICHGASS
 LAKE AREA
 DRAUGHTSMAN DR SCALE 1" = 800' DATE JAN / 73

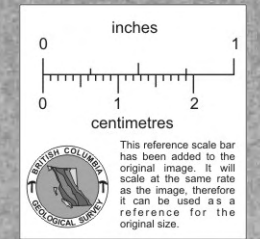
LEGEND

1" = 400'
— IN PHASE RESPONSE
o-o QUADRATURE RESPONSE
VERTICAL SCALE 1" = 40%

Direction of all
EM 16 Readings
→



TSICHGASS LAKE



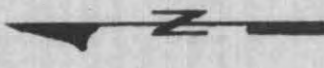
TEL #5

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EM 16 RESPONSE
FOR DETAIL #1
TSICHGASS LAKE AREA

DRAUGHTSMAN: D.R. SCALE 1" = 400' DATE JAN. 16, 1975

PROPERTY FILE



→ Direction of Magnetic Readings

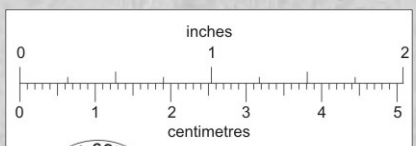
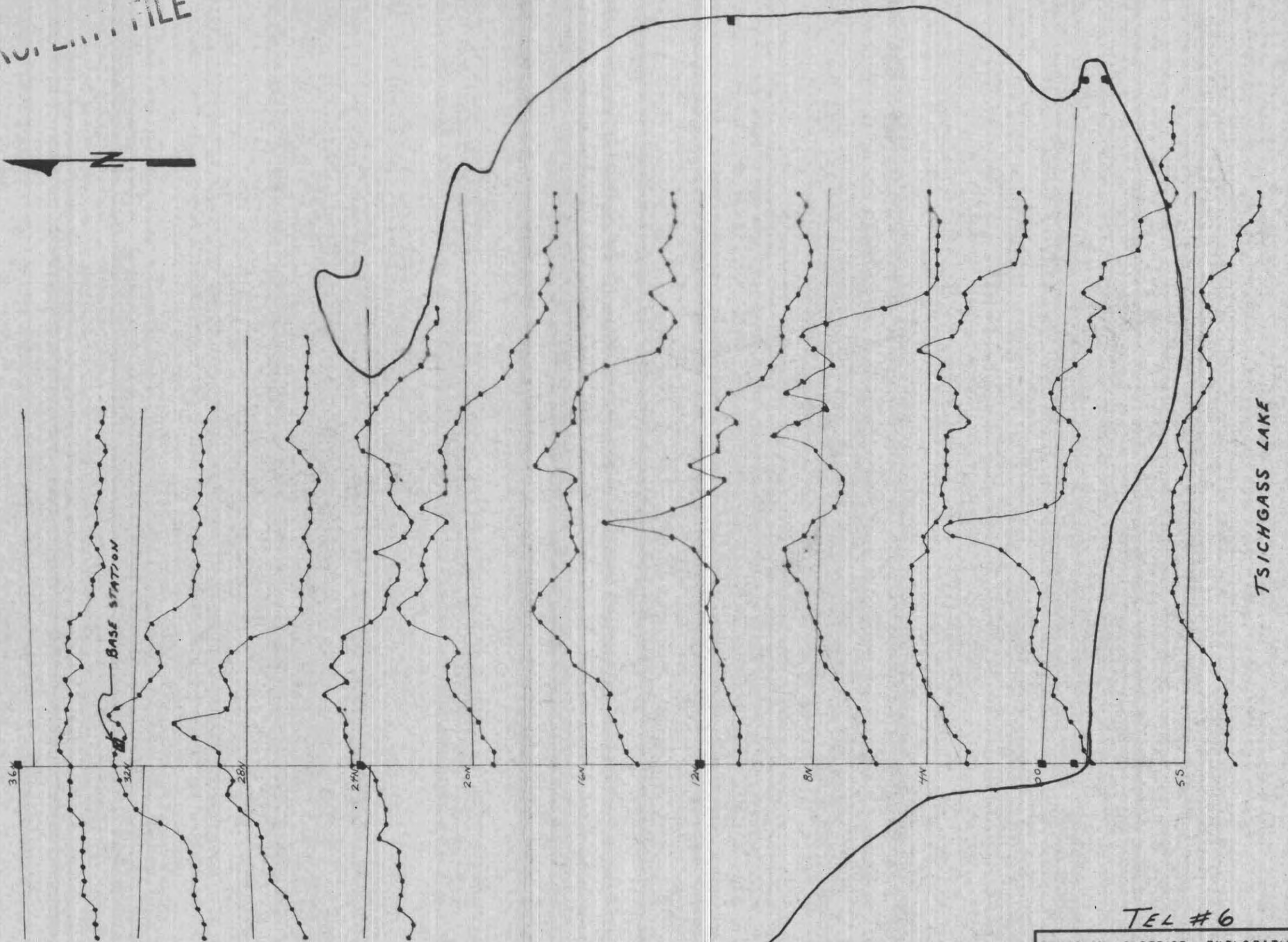
LEGEND

1" = 400'

MAGNETICS: LINE AT 2500γ

VERTICAL 1" = 1000γ

• STATION FOR MAGNETIC READING (FLAGGED)



BRITISH COLUMBIA GEOLOGICAL SURVEY

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TEL #6

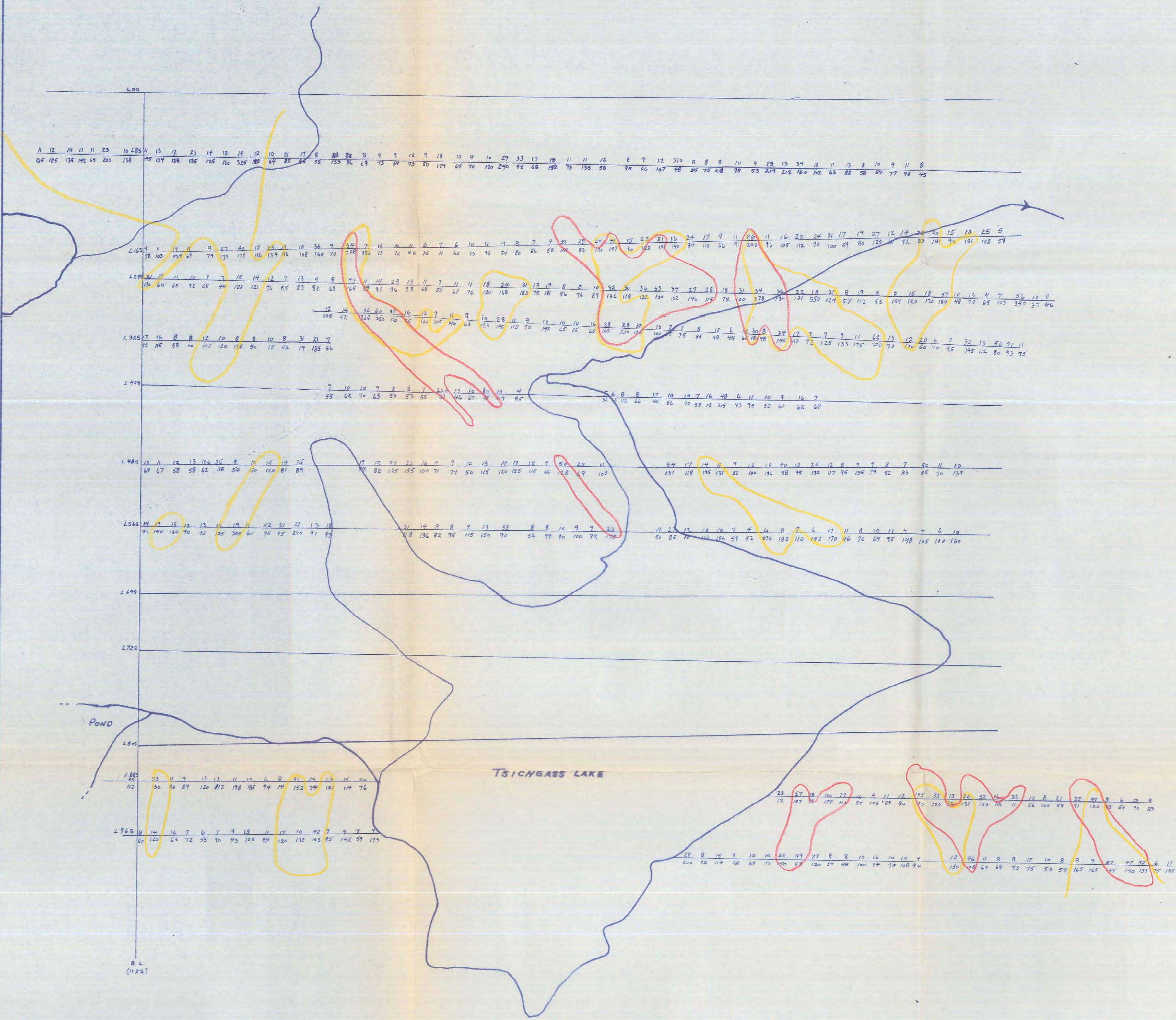
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SMITHERS REGIONAL OFFICE

MAGNETIC PROFILE OF
DETAIL #1 TSICHGASS
LAKE AREA

DRAUGHTSMAN: D.R. SCALE 1" = 400' DATE Jan./73

SOIL

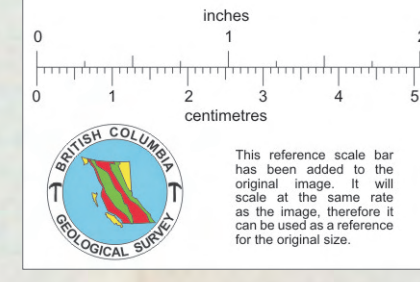
GEOCHEM.



13 Cu ppm.
121 Zn

— Zn > 120 ppm
— Cu > 25 ppm

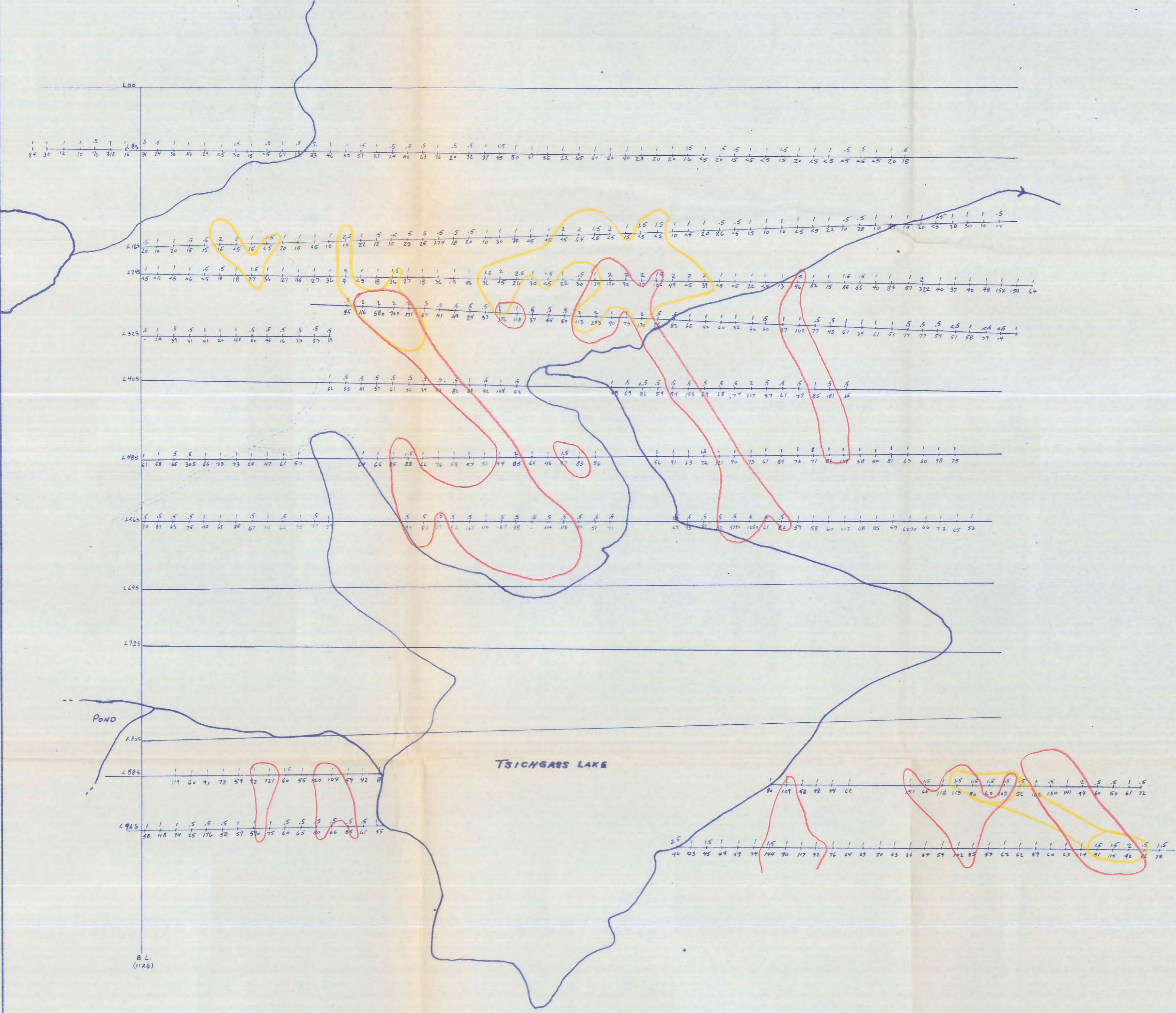
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Cu-Zn SOIL GEOCHEMISTRY
TEL GROUP
TSICHGASS LAKE AREA

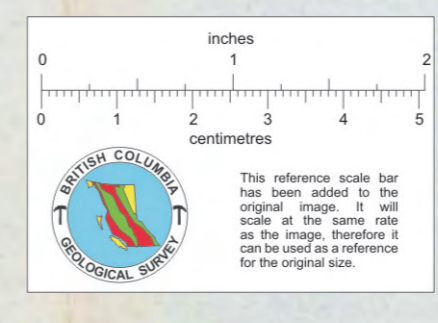
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$\frac{1.5}{77}$ Ag ppm.
 Hg ppb.

PROPERTY FILE

— Ag 1.5+ ppm contour
 — Hg 80+ ppb contour



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A_g - H_g SOIL GEOCHEMISTRY
 TEL GROUP
 TSICHGASS LAKE AREA

DRAUGHTSMAN: [] SCALE: [] DATE: 01/72 932 2