

014144

REPORT ON THE PHIL MINERAL CLAIM GROUP

FORTIN LAKE AREA

Watson Lake Mining Division
Yukon Territory

May 20 - July 18, 1968

N.T.S. 105-G-15

Longitude 130°31' West

Latitude 61°55' North

By:

Wayne J. Roberts

ATLAS EXPLORATIONS LIMITED

March 9, 1970

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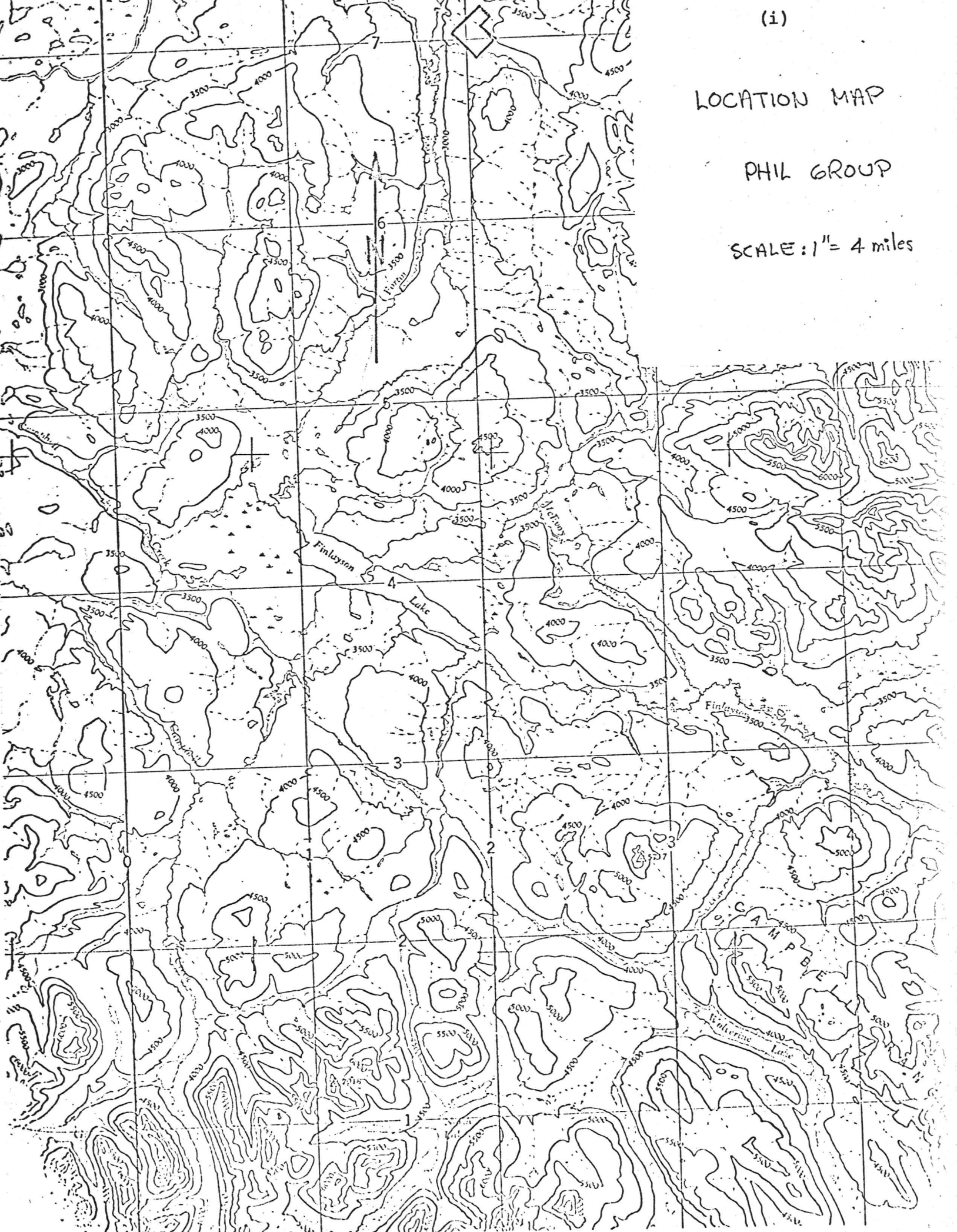
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(i)

LOCATION MAP

PHIL GROUP

SCALE: 1" = 4 miles



LIST OF CLAIMS

<u>Claim Number</u>	<u>Grant Number</u>	<u>Date Recorded</u>
PHIL 7-16	Y19078-Y19087	September 5, 1967
21-25	Y19092-Y19096	"
27	Y19098	"
33-34	Y19104-Y19105	"
35-38	Y19106-Y19109	"
Zn 1-2	Y19017-Y19018	August 16, 1967

ATLAS EXPLORATIONS LIMITED

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

REPORT ON THE PHIL MINERAL CLAIM GROUP FORTIN LAKE AREA

By:

Wayne J. Roberts

INTRODUCTION

In August 1967, Atlas Explorations Limited optioned the Zn 1 and 2 Mineral Claims and staked the surrounding Phil Group to cover possible extensions of zinc mineralization found on the Zn Claims. Follow-up consisted of bulldozer trenching of the showing combined with detailed geological, geochemical and geophysical surveys. Due to inadequate outcrop, emphasis was placed on results from geophysical and geochemical surveys.

LOCATION AND ACCESS

The Phil Group is located on the southeast end of Fortin Lake (N.T.S. 105-G-15), approximately 64 miles east of Ross River. It is bounded on the north by the Pay Group which contains low grade zinc mineralization.

Access is by fixed-wing aircraft landing on Fortin Lake, and by tote road from the lake to the main showing.

GEOLOGY

Overburden on the Phil Claims is intense, thus limiting the geologic interpretation. Rock exposures were located along the bank of the major creek which passes close to the main showing. The most abundant rock type is a well-bedded finely-foliated dark to light grey sericitic phyllite thought to be of Middle-Upper Cambrian age. Average strikes of 120 degrees and moderate dips to the southeast predominate. Locally this unit is composed of up to 50 percent interbedded and cross cutting vein quartz.

ECONOMIC GEOLOGY

The main showing located on the Zn Claims consists of a 4 foot wide zone of massive sphalerite assaying 48 percent zinc and 4 percent lead, and appears to be a shear filling forming the contact between an underlying dark grey phyllite and overlying quartz sericite schist. On the above light grey phyllite lenses and discordant veins of quartz contain lead and copper mineralization. A continuous chip sample over 10 feet averaged 6.9 percent lead and 0.49 percent copper. An occasional quartz vein with minor amounts of sphalerite are observed cutting the underlying schist.

No mineralization was observed in other outcrops although quartz veins were usually present.

GEOCHEMICAL RESULTS AND CONCLUSIONS

All geochemical results are in the form of profiles showing anomalous values as peaks or highs along individual soil lines. It may be observed that there is little coincidence between copper, lead and zinc anomalous highs as well as with geophysical results. It was also noted that there is a lack of any relationship between known geology and geochemistry. Zinc values did not reflect any mineralization at the main showing although high lead results did occur just east of the trench.

GEOPHYSICAL RESULTS AND CONCLUSIONS

Magnetic results appear to reflect only the underlying phyllite and metasediments noted through geologic mapping. Float boulders of granodiorite were found close to the aeromagnetic high area and it is possible that the irregular ground magnetics bordering may define an alteration zone which could be related to the alteration in the main showing. No pronounced electromagnetic anomalies were observed. As can be expected with zinc mineralization, both magnetic and electromagnetic results did not indicate the presence of mineralization.

CONCLUSIONS AND RECOMMENDATIONS

Geochemical and geophysical methods so far have not proven satisfactory in determining possible limits of sulphide mineralization. From the geophysical results it is thought that both magnetics and electromagnetics reflect underlying metasediments of uniform southwesterly dipping attitude, and that the northeast sector may be underlain by a near surface intrusive plug.

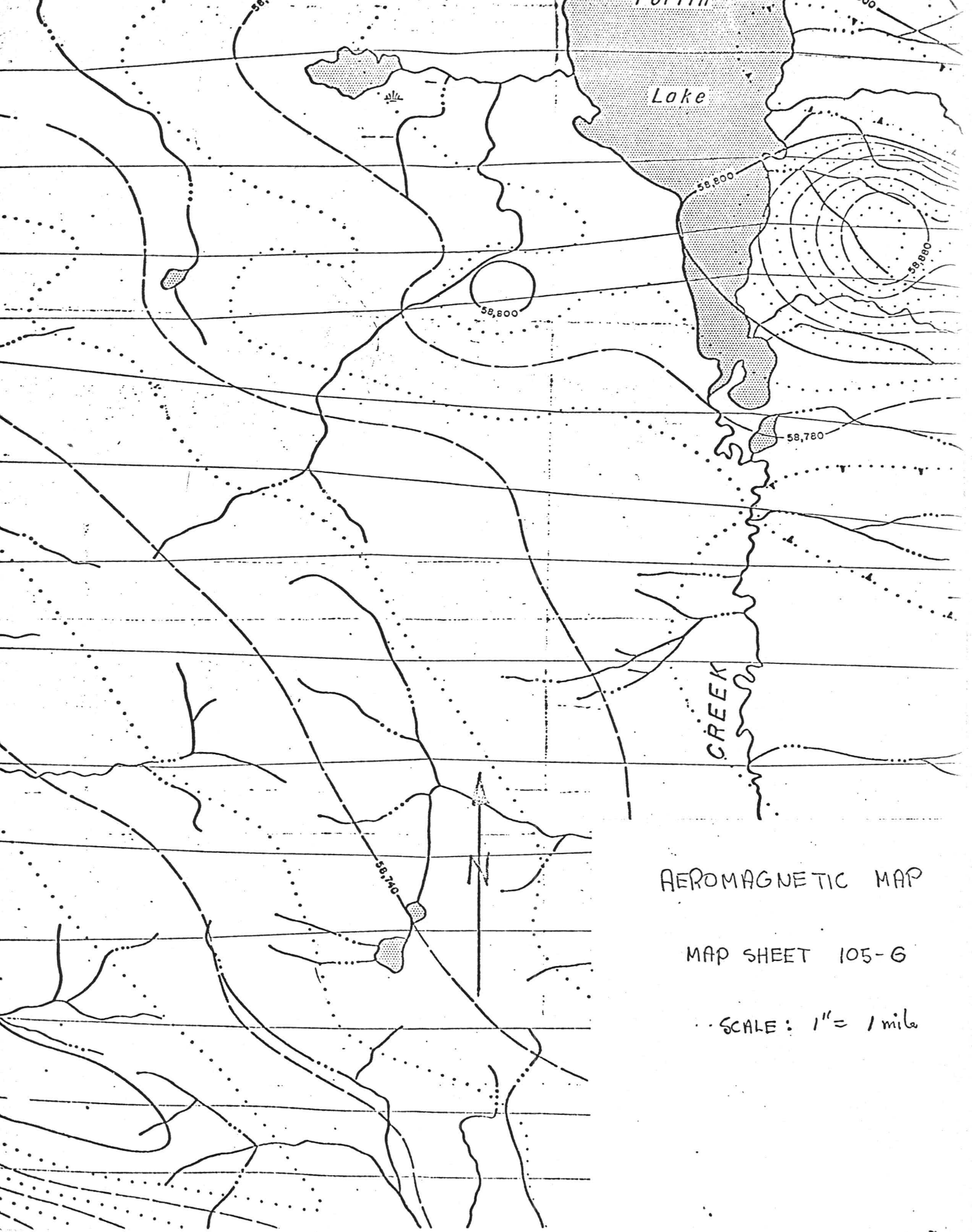
It is recommended that further work on this property to fully test the economic potential of the mineralized zone consist of possible re-routing of the creek and continued trenching near the showing or diamond drilling.

Respectfully submitted,



Wayne J. Roberts,
Geologist.

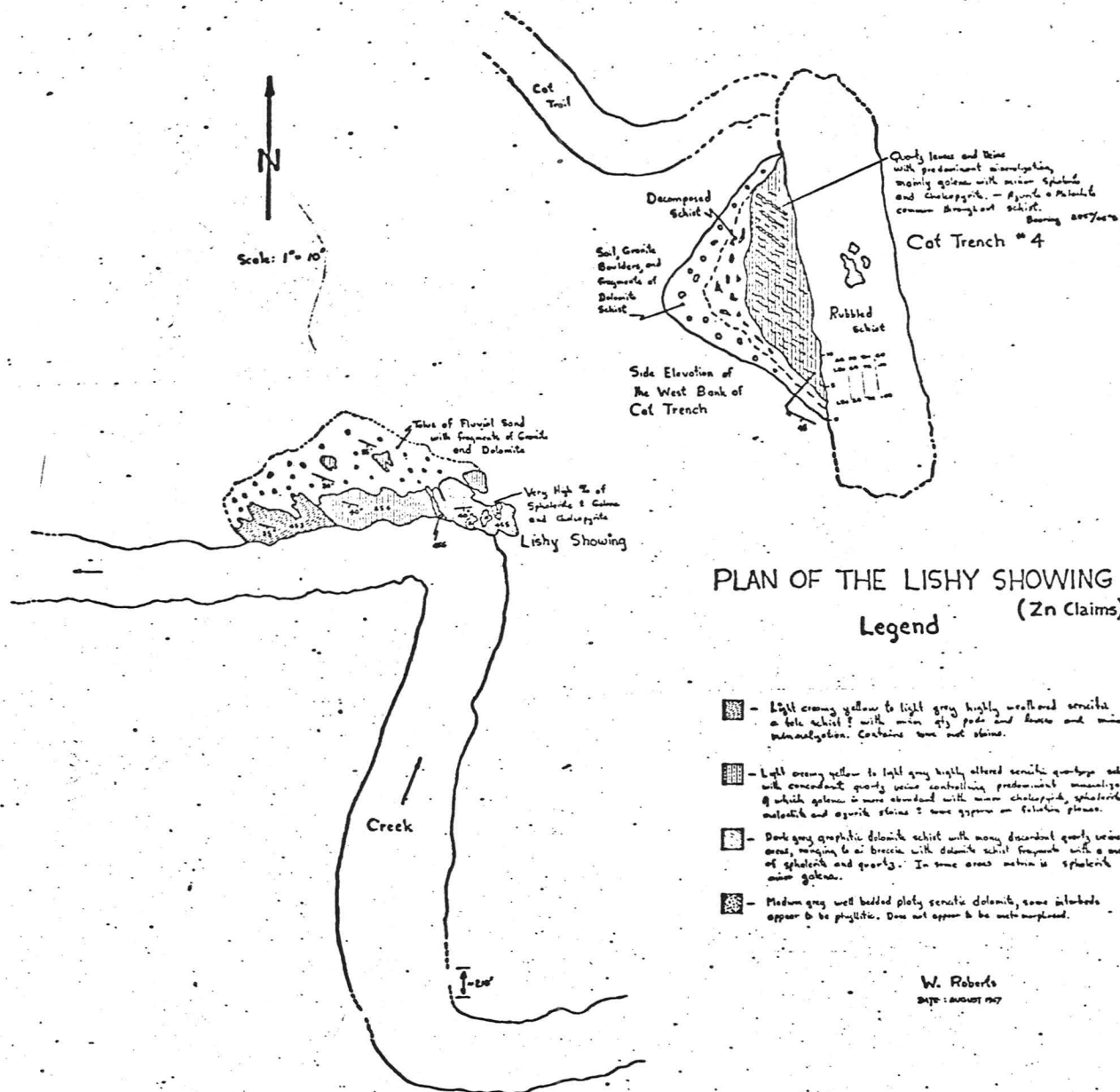
March 1970



AEROMAGNETIC MAP

MAP SHEET 105-6

SCALE: 1" = 1 mile

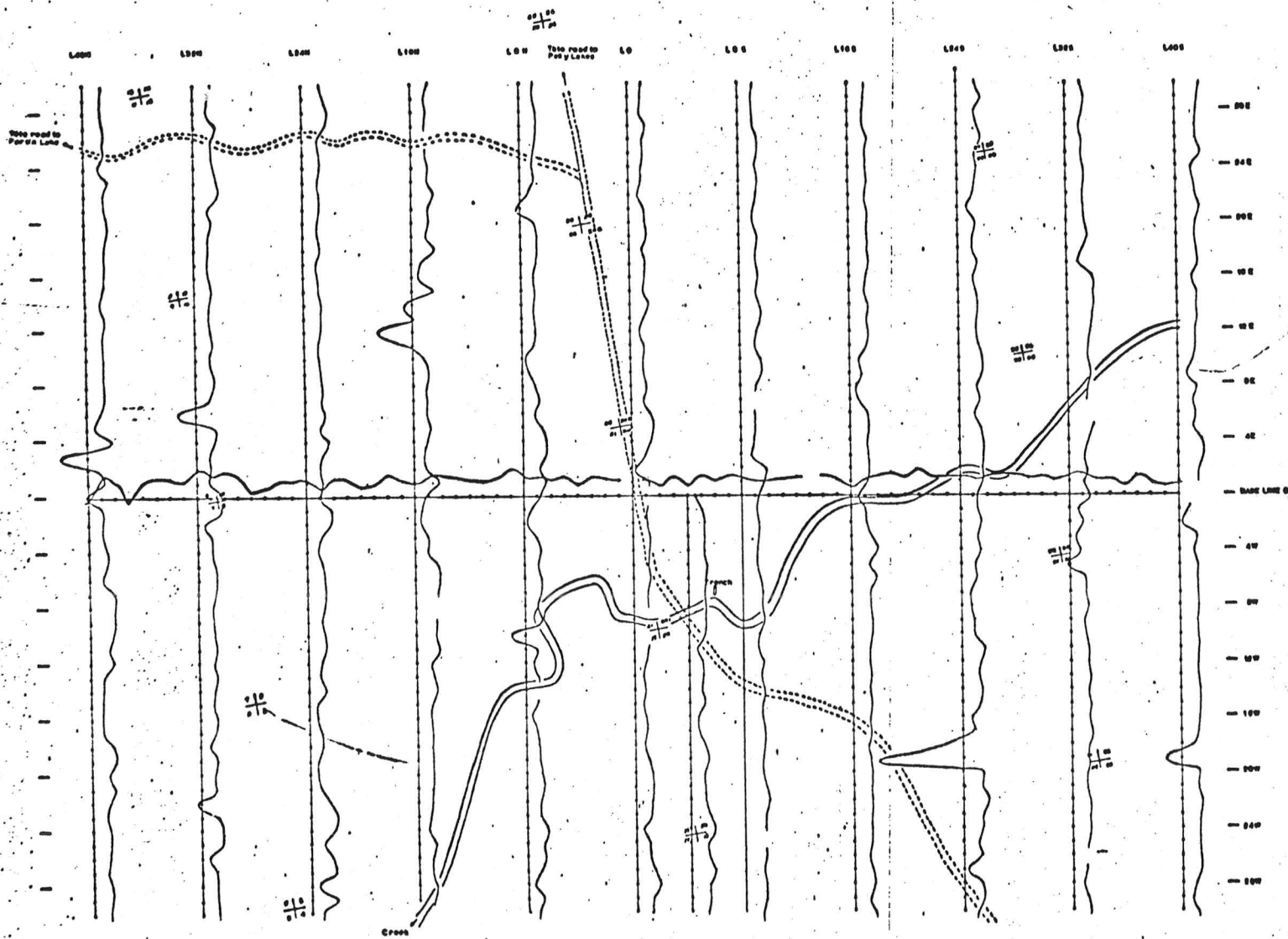


PLAN OF THE LISHY SHOWING
(Zn Claims)
Legend

- - Light cream yellow to light grey highly weathered schist & a felsic schist? with minor sly. pyrite and arsenic and minor mineralization. Contains some metal stains.
- - Light cream yellow to light grey highly altered schist quartzite schist with concordant quartz veins containing predominant mineralization of which galena is more abundant with minor chalcopyrite, sphalerite and malachite and arsenic stains & trace pyrite on foliation planes.
- - Dark grey graphitic dolomitic schist with many discordant quartz veins in areas, ranging to a breccia with dolomitic schist fragments with a matrix of sphalerite and quartz. In some areas matrix is sphalerite with minor galena.
- - Medium grey well bedded platy schist dolomitic some interbeds appear to be phyllitic. Does not appear to be well mineralized.

W. Roberts
DATE: AUGUST 1957

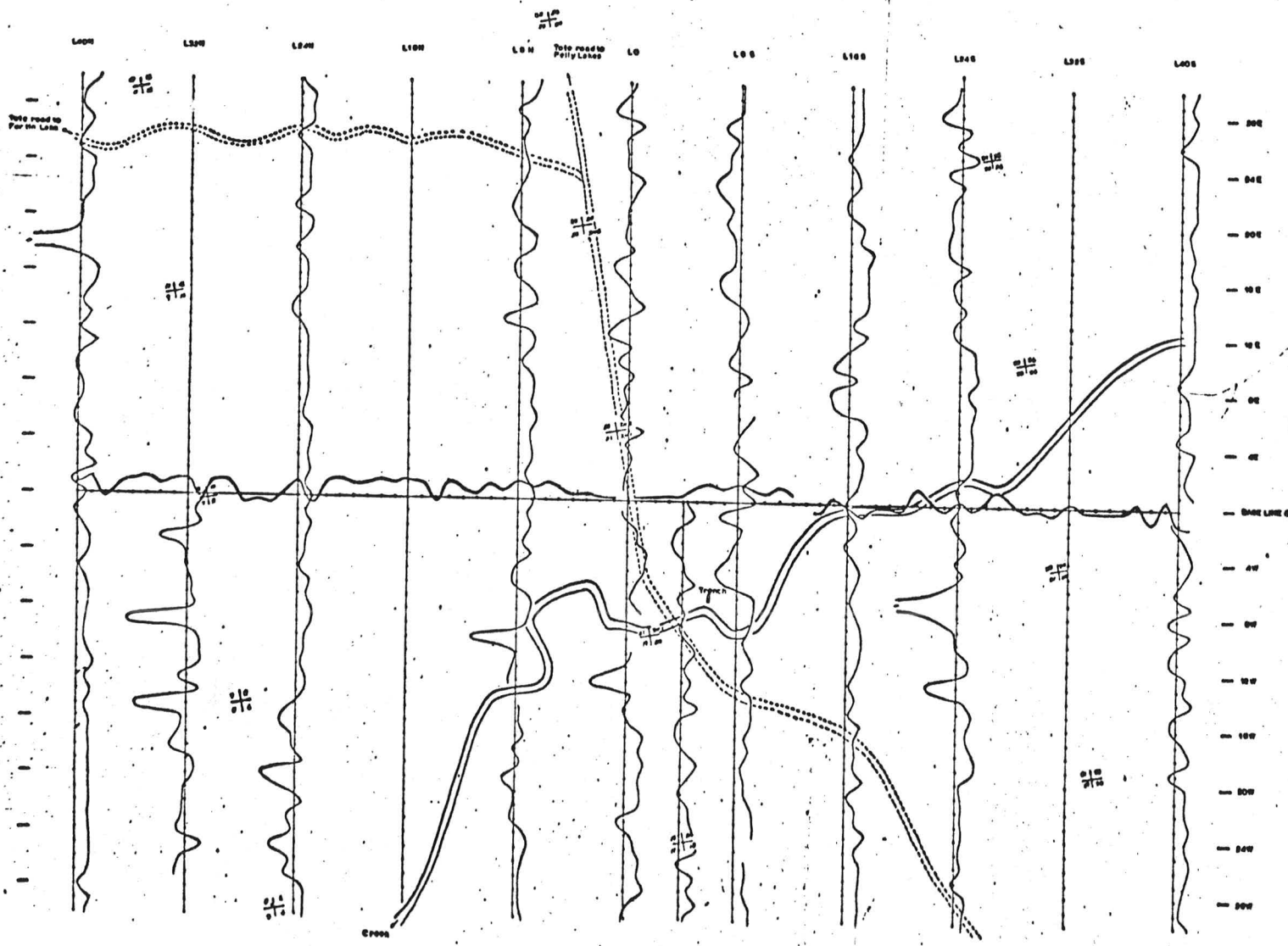




ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION,
PHILMINERAL CLAIMS

GEOCHEMICAL SOIL SAMPLING SURVEY
Zn PROFILE MAP

SOIL SAMPLERS: J. HARPER & R. HENSON
SCALE IN FEET
DRAWN BY: [unclear]
DATE: SEPT [unclear]

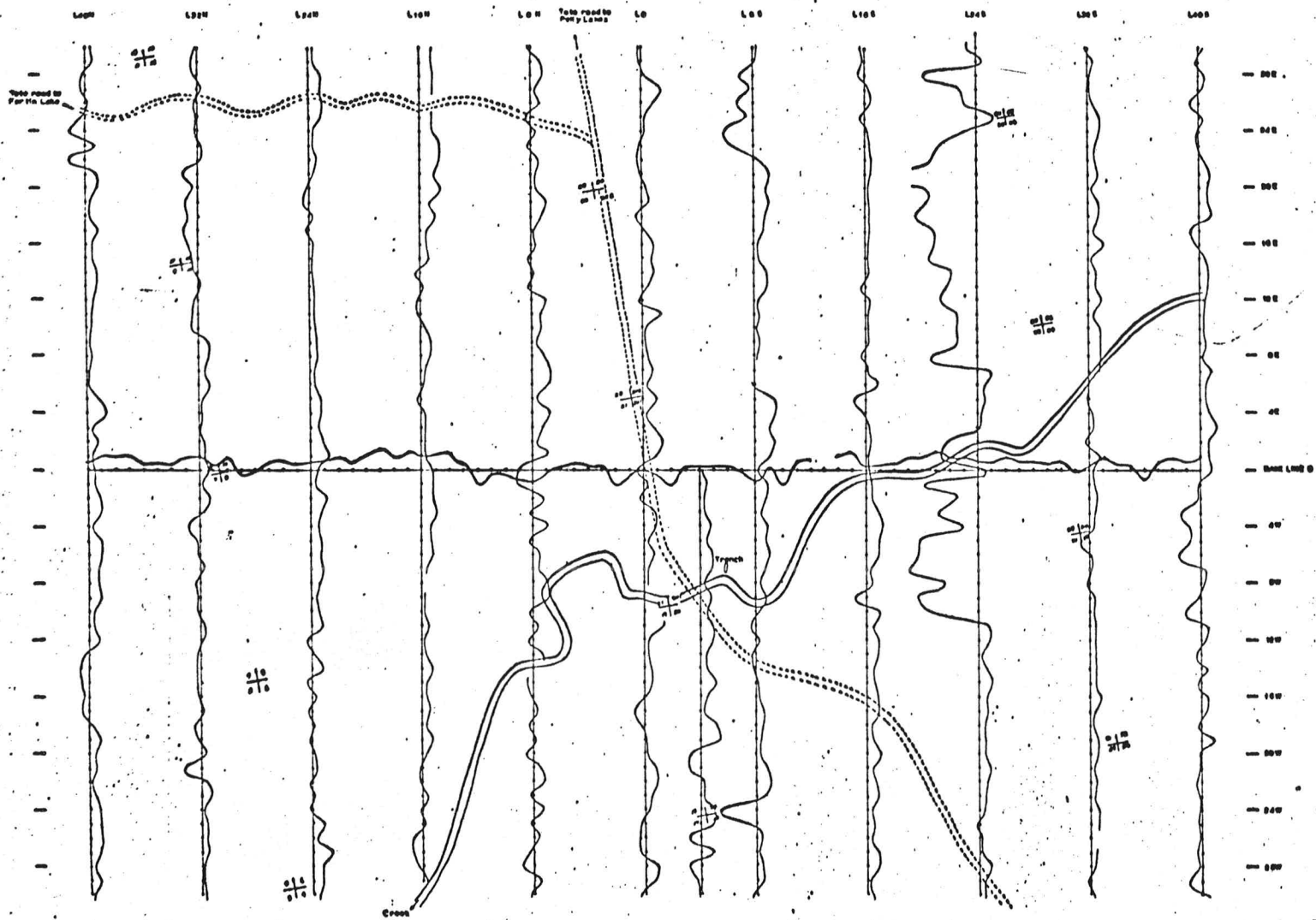


ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION
PHL MINERAL CLAIMS

GEOCHEMICAL SOIL SAMPLING SURVEY
Pb PROFILE MAP

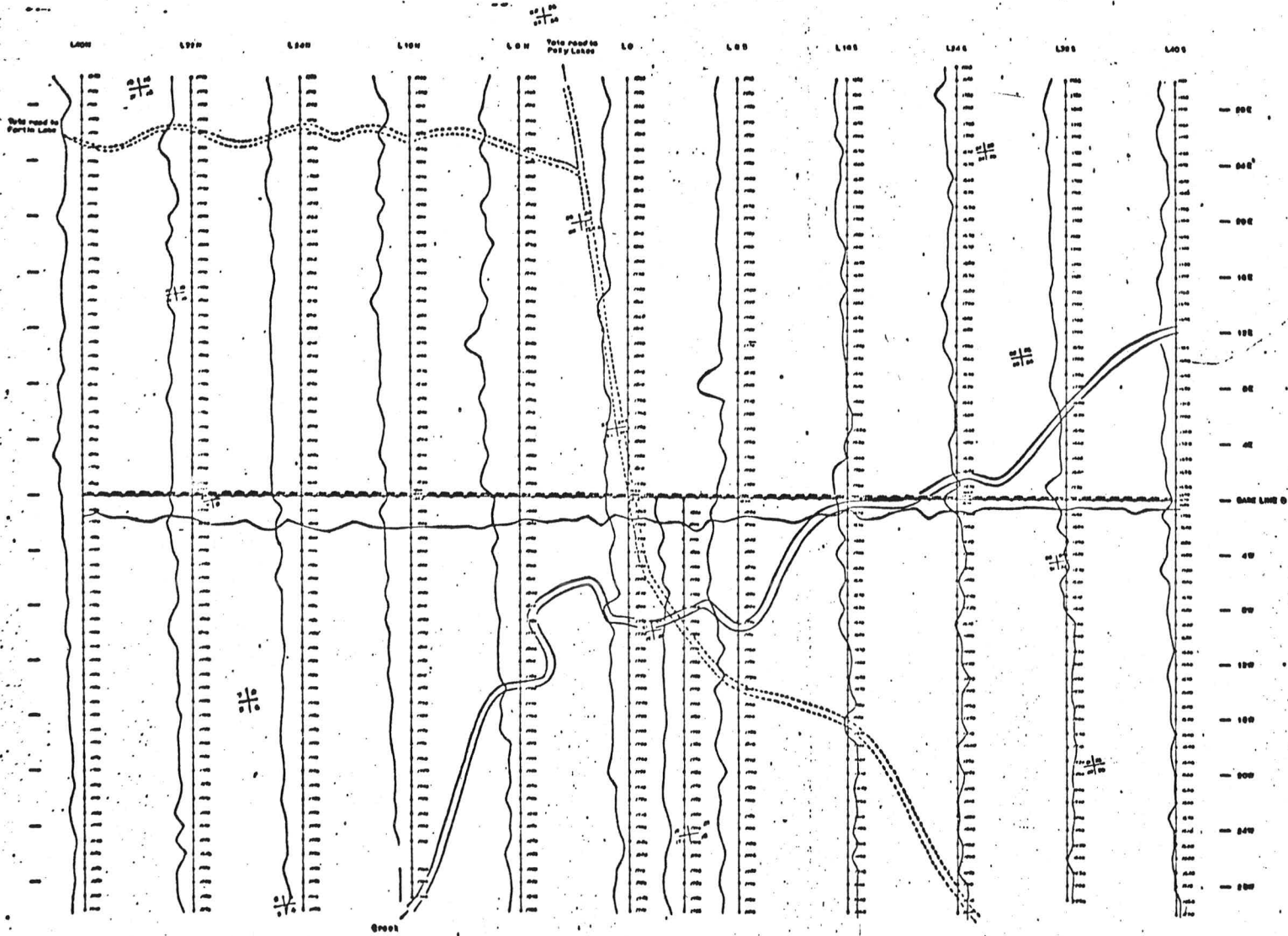
SOIL SAMPLERS I.J. HARPER & H. NEWSON
DATE SEPT. 1961

SCALE IN FEET
0 400 800
1:10" = 1000'



ATLAS EXPLORATIONS LIMITED
 ROSS RIVER (Y.T.)
 SHELDON REGION
 PHIL MINERAL CLAIMS
 GEOCHEMICAL SOIL SAMPLING SURV
 Cu PROFILE MAP

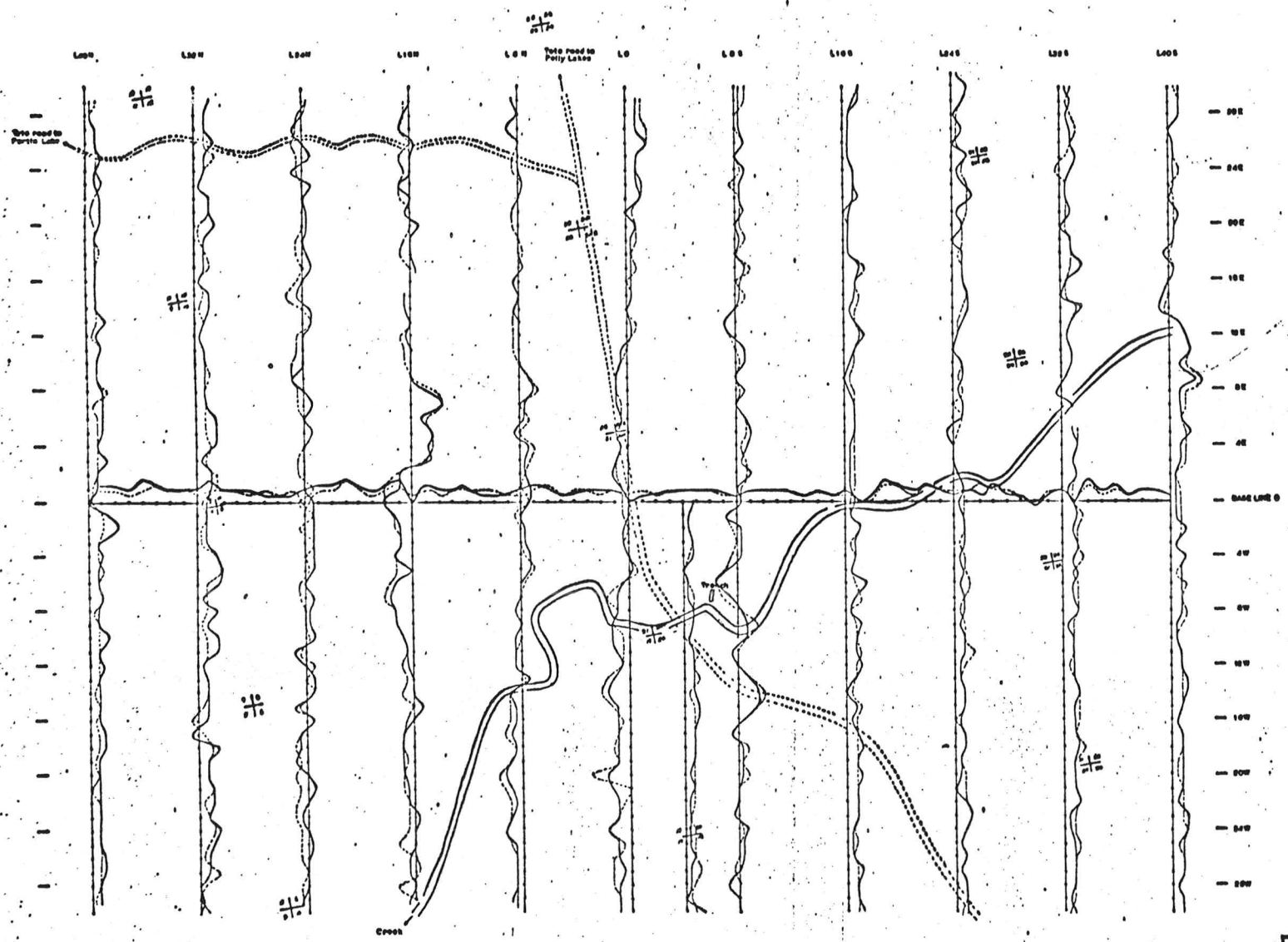
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 1/10" = 1000'
 1 CM = 10 MET



ATLAS EXPLORATIONS LIMITED.
 ROSS RIVER (YT)
 SHELDON REGION
 PHIL MINERAL CLAIMS
 GROUND MAGNETOMETER SURVEY
 VALUES & PROFILE MAP

INSTRUMENT: JALANDEK
 OPERATOR: N NEWSON
 DRAWN BY: S
 DATE: SEPT.

SCALE 1:1000
 METERS



ATLAS EXPLORATIONS LIMITED
 ROSS RIVER (Y.T.)
 SHELDON REGION
 PHIL MINERAL CLAIMS
 GROUND ELECTROMAGNETIC SURVEY
 PROFILE MAP

INSTRUMENT: CROME JEM
 OPERATORS: H. NEWSON & J. HARPER
 1800 rpm 480 rpm
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