GEOPHYSICAL, GEOCHEMICAL-KAT GROUP
RETALLACK, SLOCAN M.D., B.C.
50° 117° S.E.
DONALD W. SMELLIE, P.Eng.
D.W. SMELLIE
SEPT. 21-24, 1967

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GEOPHYSICAL AND GEOCHEMICAL REPORT

KAT GROUP

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INTRODUCTION

Magnetic and geochemical soil surveys have been carried out on the KAT group. This property is located east of Retallack, B.C., and is owned by the author. Field work was carried out on September 21, 22, 23 and 24, 1967, by the author assisted by D.B. Trussell. Work was carried out on KAT 3, 13 and 15 FR claims.

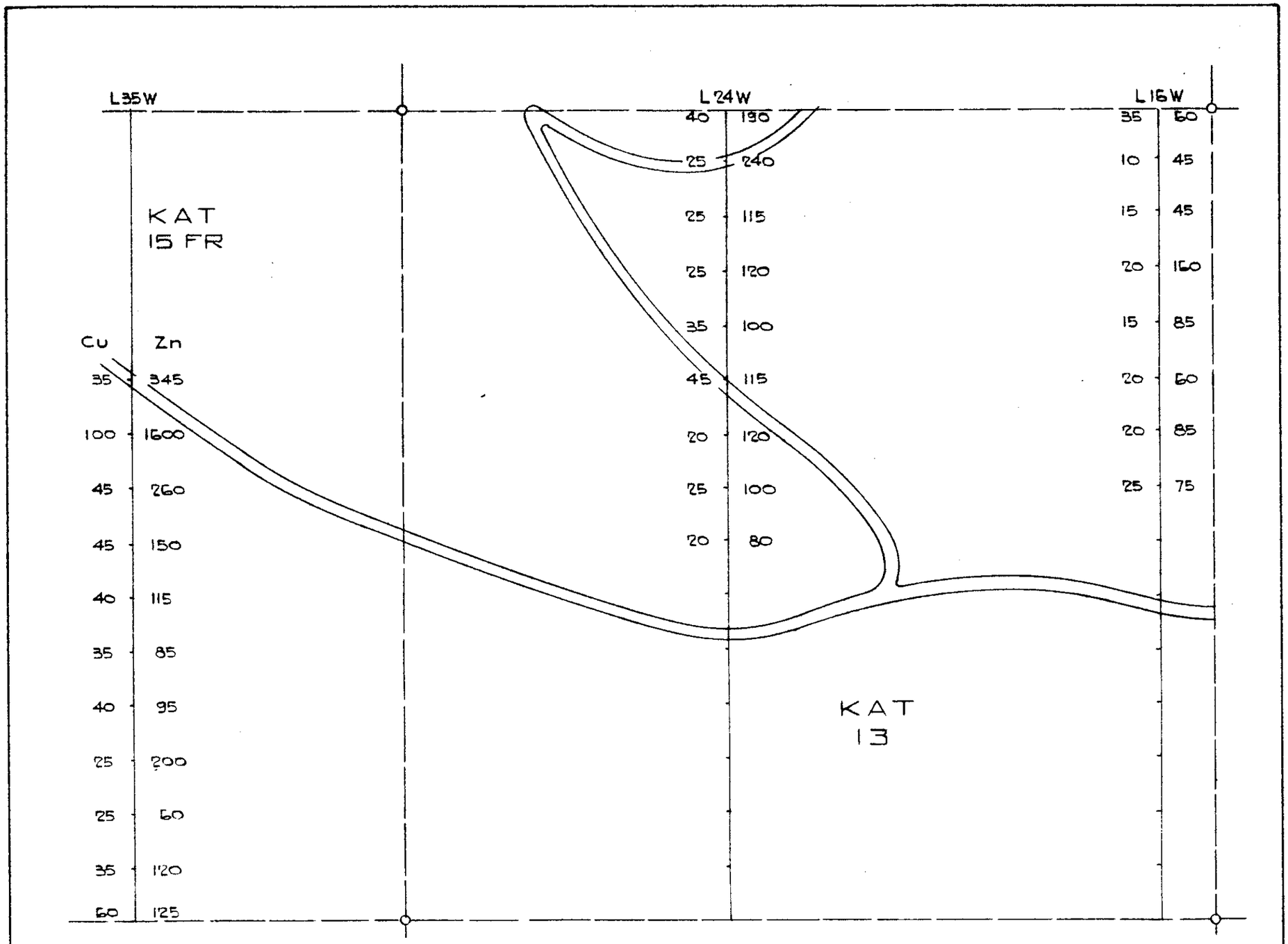
INSTRUMENTATION

The magnetic survey was carried out using the MZ-4 torsion magnetometer of A.B. Elektrisk Malmletning of Stockholm, Sweden. This measures the vertical magnetic intensity with an accuracy of 2 gammas. The geochemical soil samples were analyzed by Coast Eldridge Engineers and Chemists Ltd. using a hot acid extraction and atomic absorption determination.

FIELD PROCEDURE

The magnetometer was read at 100 ft. intervals along the picket lines. The base station was read about every two hours to measure the diurnal field variation. The reduced vertical magnetic intensity values are estimated to have an accuracy of 10 gammas.

Geochemical soil samples were taken at 100 ft. intervals. The C horizon was sampled.



GEOCHEMICAL SURVEY

KAT GROUP

"C" Horizon soil - P.P.M.

Sept. 1967

GEOPHYSICAL RESULTS

The electromagnetic survey shows two strong anomalies. Anomaly 1 is at 100 S from the upper Base Line on lines 2W and 0. Anomaly 2 is at 850 S from the main Base Line on lines 12W, 8W and 4W.

GEOCHEMICAL RESULTS

The soil sample analyses for lead are plotted on the accompanying figure. A weak indication appears at 100 S on line 0, correlating with E.M. anomaly 1. Strong lead anomalies occur at 750 S on 4W and 790 S on 8W, correlating with E.M. anomaly 2.

RESULTS

The reduced vertical magnetic intensity values are plotted on the accompanying plan (in pocket). Magnetic relief is small and no significance can be attributed to it.

The copper and zinc values in parts per million for the C horizon soil samples are shown on the figure (in text). A strong anomaly in both copper and zinc occurs at 900 N on line 35W.

Respectfully submitted,

D.W. SMELLIE, P.Eng.

DWS/sd

November 30, 1967

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ADDENDUM

GEOPHYSICAL AND GEOCHEMICAL REPORT

KAT GROUP

November 30, 1967

FIELD PROCEDURE

Soil Samples - The samples were taken with a spade, and were packaged in wet kraft heavy duty envelopes specially designed for soil samples. The samples were air dried, and screened in an 80 mesh stainless steel screen.

Respectfully submitted,

D.W. SMELLIE, P.Eng.

DWS/sd

MAGNETIC SURVEY

KAT GROUP

Scale - 1" = 200'

Vertical intensity in gammas

D.W. Smellie, P.Eng.

To accompany Geophysical and Geochemical report by Donald W. Smellie, P.Eng. on the KAT group dated November 30, 1967

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