

GEOPHYSICAL REPORT - GCM GROUP
MAMIT LAKE, KAMLOOPS M.D.
50° 120° S.W.
D.W. SMELLIE, G.A. BRAND
GUMP CREEK MINING LTD.
July 6 - September 15, 1966

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GEOPHYSICAL REPORT**GCM GROUP****CONTENTS**

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INTRODUCTION

An Induced Polarization survey was carried out on the GCM group. This property is located north of Mamit Lake, between Guichen Creek on the east and Gump and Tupper lakes on the west. It is owned by Gump Creek Mining Ltd.

Field work was carried out between July 6 and September 15, 1966, by Jacob van der Linde, John Turner and James Higgins under the supervision of Gordon A. Brand of Intercontinental Mining Development Ltd.

Work was carried out on claims GCM 9-13 incl., 26, 28, 48, 49, 50-58 incl., 106, 117, 118, 129, 130, 132.

INSTRUMENTATION

The Induced Polarization equipment was manufactured by Hewitt Enterprises Limited of Sandy, Utah, U.S.A. A D.C. current is applied to two current electrodes, in the case of this survey for 4 seconds. On interruption of the current, two potential electrodes are used for the measurement of the decay voltage. This is integrated for 1.6 seconds after a 0.25 second interval from cessation of the primary pulse. The measured value in

millivolt-seconds is divided by the primary voltage (voltage when the current pulse is on) to yield the chargeability in milliseconds.

FIELD PROCEDURE

Induced Polarization measurements were carried out using the Wenner four-electrode array. The sequence of electrodes was current, potential, potential, current, with electrode spacings of 300 feet in the case of some lines and 400 feet in the case of others. The results are plotted at the midpoint between potential electrodes.

RESULTS

The Induced Polarization "chargeability" results are plotted in milliseconds on the accompanying plan. Moderate anomalies occur at 9200 M on line B and 8200 M on line C, 5300 M on B, 4700 M on B and 3900 on C. A strong anomaly occurs at 2350 on B-64. A zone of complex I.P. response occurs between 3000 S and 200 S on lines A, B, C, D, E and F. Since pyrite mineralization is a major source of I.P. anomalies, individual peaks are

likely controlled by the intensity of this mineralization which in turn does not necessarily have a direct relationship with possible economic mineralization.

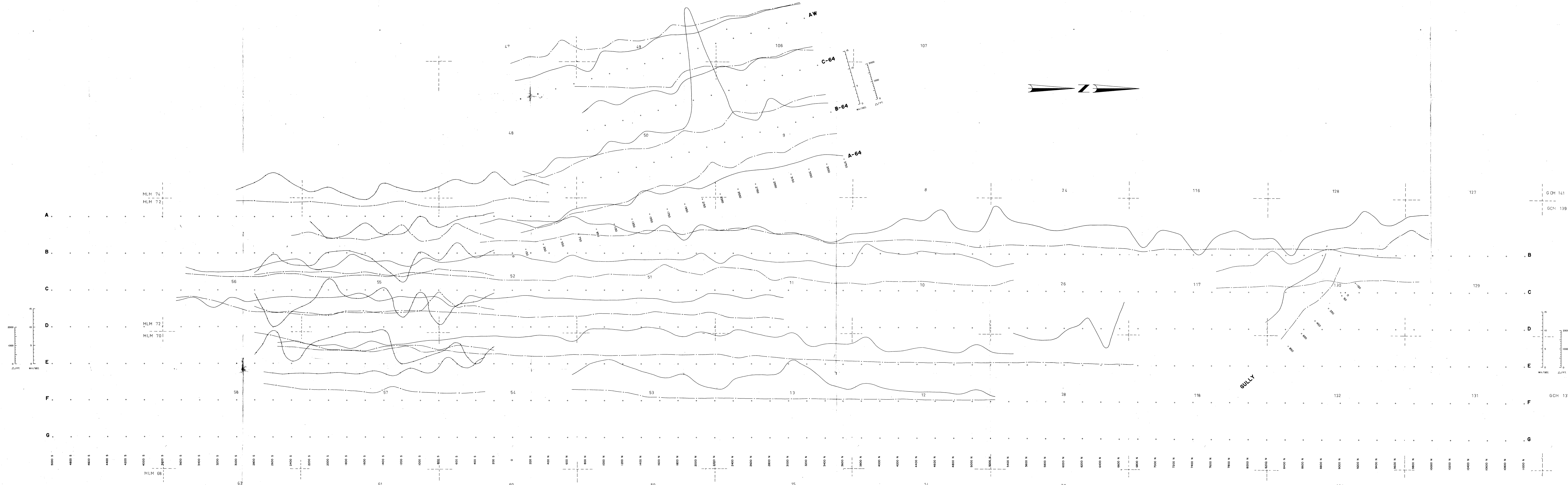
Respectfully submitted,



D.W. SMELLIE, P.Eng.

DWS:sd

December 20, 1966



LEGEND

- I.P. (m-sec) at 300' INDUCED POLARIZATION
- R. (Δ-13) at 300' RESISTIVITY
- I.P. (m-sec) at 400' INDUCED POLARIZATION
- R. (Δ-13) at 400' RESISTIVITY

PULSE TYPE I.P.
 HEWITT ENTERPRISES - SANDY, UTAH, U.S.A. - SERIAL # 20
 PULSE ON DURATION OF 4 SECONDS
 INTERGRATION 1.6 SECONDS AFTER 0.25 SECOND INTERVAL
 FROM CESSATION OF PULSE.



Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 873 MAP 1

GUMP CREEK MINING LTD.
 I.P. SURVEY & SELF POTENTIAL
 GUICHON BATHOLITH EAST MARGIN HIGHLAND VALLEY AREA
 BETWEEN GUICHON CREEK EAST & GUMP AND TUPPER LAKES WEST
 NORTH OF MAMIT LAKE
 DATE: SUMMER, 1965
 SCALE: HORIZ. 1" = 200'