RESULTS OF DETAIL ELECTROMAGNETOMETER SURVEY OVER PORTIONS OF THE PROPERTY OF GREAT YUKON MINES LTD.

VANGORDA CREEK AREA

YUKON TERRITORY

INDEX

Results of detail Electromagnetometer
survey over Portions of the property of
Great Yukon Mines Ltd.
Vangorda Creek Area
Yukon Territory

INTRODUCTION

In July and August, 1966 a magnetometer and E. M. Survey was conducted over the property held by Great Yukon Mines Ltd. On the North eastern portion of the property, no null values were obtained over a large area.

In order to determine if any conductive structures were present in the area, where no nulls were obtained, a detail survey was run.

PROPERTY DATA

The details of location, access, property, topography, geology, etc. have been covered in the report of August 17, 1966, and will not be covered herein.

SURVEY DETAILS

The detail survey was conducted using a McPhar R.E.M. Mark V electromagnetometer in a tandem configuration, with the transmitter on the north-west side, and a spacing of 300 feet. Readings were taken over all areas where no null values were obtained in the previous survey. These results have been plotted on the

accompanying map.

RESULTS OF THE SURVEY

All areas previously returning no null values were checked, and readings obtained. A series of seven conductive zones were encountered, which were numbered from A-I to G-I.

None of these corresponded in detail with the magnetometer results, although A-I, B-I, C-I and D-I were located in the faulted area surrounding the lake, that was presumed to be a zone of weakness, and thus amenable to mineral diposition. Of these only D-I could be considered of significance. The other zones do not show sufficient strength to be of sufficient interest to warrant further work.

CONCLUSIONS

Only one conductive zone was located of sufficient strengh and intensity to warrant further work.

Although a considerable magnetic anomaly is present in this area, and one reasonably good E.M. conductor (D-I) is associated with a portion of this anomaly, it is not felt that sufficient information or encouragement has been found to warrant the expenditure necessary for a drill programme, that would comprise, at most, two holes.

RECOMMENDATIONS

It is recommended that no further work be done on this ground at this time. Such assessment work credits as have been

obtained should be applied to maintain the ground in good standing.

Should information become available on adjoining properties, then a re-assessment should be made making use of this information.

Respectfully submitted,

H.H. Sutherland Jr.
B.A.Sc.M.E. P. Eng.

DATED AT Toronto this 4th day of January, 1967.

CERTIFICATE

I, the undersigned, do hereby certify:

(1) I am a Mining Geologist with offices located at No. 12 Richmond St. E., in Toronto.

(2) I have been practicing my profession continuously for over 14 years.

(3) I am a graduate of the University of Toronto, 1952, with a degree in Mining Engineering.

(4) I have no interest, nor expect to receive any interest in the property or securities of Great Yukon Mines Ltd.

(5) I am a member of the Association of Professional Engineers of Ontario.

(6) This report was based on personal supervision and interpretation of all surveys and results during the period of the Survey, during October, 1966.

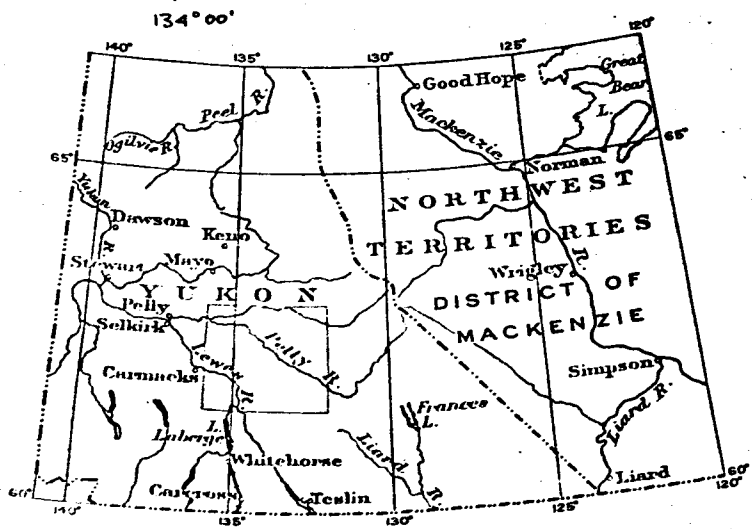
DATED at Toronto this 4th day of January, 1967.

H.H. Sutherland Jr.
B.A.Sc. P.Eng. M.E.

MAP 4
GEOLOGY

GREAT YUKON MINES LTD.

1- YUKON SCHISTS
2- LOWER GROUP SCHISTS
3- MIDDLE GROUP SEDS.
4- UPPER GROUP (CONGLOM)
5- ANDESITES ETC.
6- GRANODIORITE
7- SYENITE
8- SEDIMENTS
9- CONGLOMERATE
10- ANDESITE



Scale, 1 Inch to 200 Miles

GEOLOGY & LOCATION MAP
GREAT YUKON MINES LTD.
VANGORDA CREEK AREA
YUKON TERRITORY
From Map 394A GSC
1 INCH = 8 MILES

MAGNETOMETER & ELECTROMAGNETOMER SURVEY

- FOR -

GREAT YUKON MINES LTD.

VANGORDA CREEK AREA

YUKON TERRITORY

— BY —

EARTH SCIENCES INTERNATIONAL

JULY, AUGUST, 1966

12 RICHMOND ST. E.
TORONTO
CANADA

Scale - 1 INCH = 200 FEET.

Legend

- E.M. PROFILES
- CLIFF
- CLAIM LINE AND POST
- WATER COURSE
- E.M. CONDUCTORS

VALUES SHOWN AS DEGREES OF TILT ANGLE. SCALE SHOWN BELOW.

DETAIL MAP.

TRANSMITTER
300'
RECEIVER

North

ORCHAY CR.

NEXT 19 | NEXT 18 | NEXT 9

NEXT 21 | NEXT 20 | NEXT 11 | NEXT 10 | NEXT 1 | NEXT 2

NEXT 23 | NEXT 22 | NEXT 13 | NEXT 12 | NEXT 3 | NEXT 4

NEXT 25 | NEXT 24 | NEXT 15 | NEXT 14 | NEXT 5 | NEXT 6

NEXT 27 | NEXT 26 | NEXT 17 | NEXT 16 | NEXT 7 | NEXT 8

E1 F1 G1 A1 B1 D1 C1

LAKE

TAHLTAN ROAD

32 36 39 42 45 48 51 54 57 60 63 66 69