

REPORT ON
MAGNETIC AND ELECTROMAGNETIC SURVEY

DOE, DOLL AND JESS CLAIM GROUPS

ANVIL- VANGORDA DISTRICT

CLAIM SHEET 105-K-3

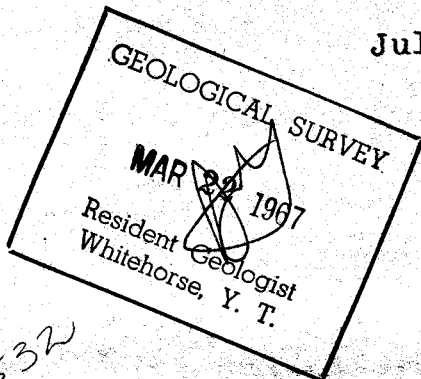
FOR

VAN-TINA MINES LTD.

VANCOUVER, BRITISH COLUMBIA.

R.J. Cathro, P. Eng.

July 1- Dec. 1, 1966.



This report has been examined by
the Geological Evaluation Unit.
Approved as to technical worth by:

R. J. Cathro
RESIDENT GEOLOGIST

Approved as to cost in the amount
of: \$ 14,909.00

H. G. Redden
RESIDENT MINING ENGINEER

Accepted as representation work
under Section 53(4) Yukon
Mining Act.

[Signature]
COMMISSIONER OF YUKON

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MAPS

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INTRODUCTION

During the 1966 field season, a program of linecutting and geophysical surveys was conducted on the Doe, Doll and Jess Claim groups under the supervision of Mr. R.A. Granger. The writer has not personally visited the claims but has studied the results of these surveys and is closely familiar with this mineral district.

The claims straddle the route of the new Ross River-Carmacks highway on the southwest side of the Pelly River.

FIELD WORK

Linecutting has been completed over the entire property at 400 foot intervals, a total of 92,8 line miles. The ground geophysics has been completed on the eastern half of the claims only. Some 46 line miles, or 50% of the property has been surveyed with a magnetometer, and 72 line-miles, about 65% of the property has been covered electromagnetically. All readings were at 100 foot intervals. The EM unit used was a Sharpe SE 300 vertical loop.

Since the claims lie within the Pelly River valley, no outcrop exists on the claims. The claims have not been intensively prospected but two areas of sub-outcrop were

located by the linecutters and this is reported to consist of porphyritic material. The geophysical response of the area has been surprisingly high indicating that overburden depths are probably less than 50 feet.

The results of the surveys completed to date reveal a narrow, fairly strong magnetic anomaly with a weak coincident electromagnetic anomaly on the north east portion of the claims. In addition, several stronger electromagnetic anomalies have been found further west where magnetic surveys have not yet been done.

The first mentioned anomaly lies close to the supposed position of the Tintina Fault, as shown on G.S.C. Map 13- 1961. A branch of this fault follows the southern boundary of the property. Two nearby outcrops shown on the G.S.C. Map, one to the east and one to the northwest, were mapped as Mississippian schist and suggest that this rock type probably underlies at least part of the Val-Tina property.

SUMMARY & CONCLUSIONS

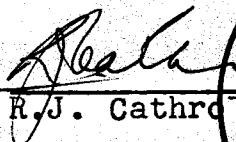
The property appears to be well located with respect to the favourable schist formation and is accessible by road.

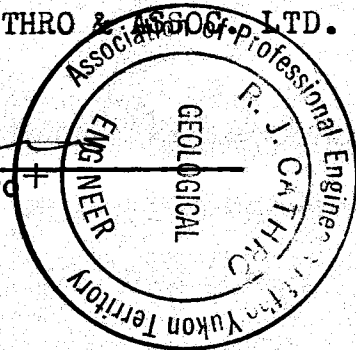
Geophysical results to date have been encouraging and several areas meriting further investigation have

been located.

Further work should include completion of magnetic and electromagnetic surveys, followed by geochemical and gravity surveys over the significant anomalies and drilling of targets so located.

Respectfully submitted,
ARCHER, CATHRO & ASSOC. LTD.


R.J. Cathro



The seal is circular with the text "Association of Professional Engineers" around the top edge and "Yukon Territory" around the bottom edge. In the center, it reads "R. J. CATHRO" and "GEOLOGICAL ENGINEER".

RJC:ps

Appendix I

AFFIDAVIT

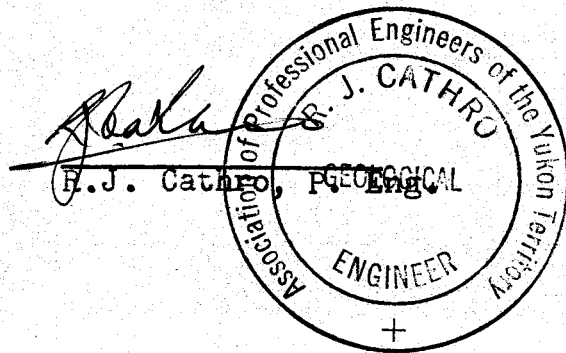
I, Robert J. Cathro, Consulting Geological Engineer, of Whitehorse, agent for Val-Tina Mines Ltd., have compiled the statement of costs presented in Appendix II of this report, and do hereby make oath and say:

That to the best of my knowledge and belief, the statement of costs as presented is a true and accurate representation of expenditures, to be applied as assessment work on the Doe, Doll and Jess Claim Groups.

Sworn and subscribed
to at Whitehorse this
14th day of ^{February} 1967.

[Signature]

A Commissioner for taking Affidavits
in and for the Yukon Territory.



APPENDIX II

STATEMENT OF COSTS

Linecutting- 92.8 LM @ \$90.00	\$8352.00
Magnetometer Survey- 46.3 LM @ \$45.00	2083.50
Electromagnetic Survey- 72.2 LM @ \$45.00	3249.00
Supervision & reports- Archer, Cathro & Associates Ltd.	1225.00
	<hr/> <hr/>
Total	\$14909.00

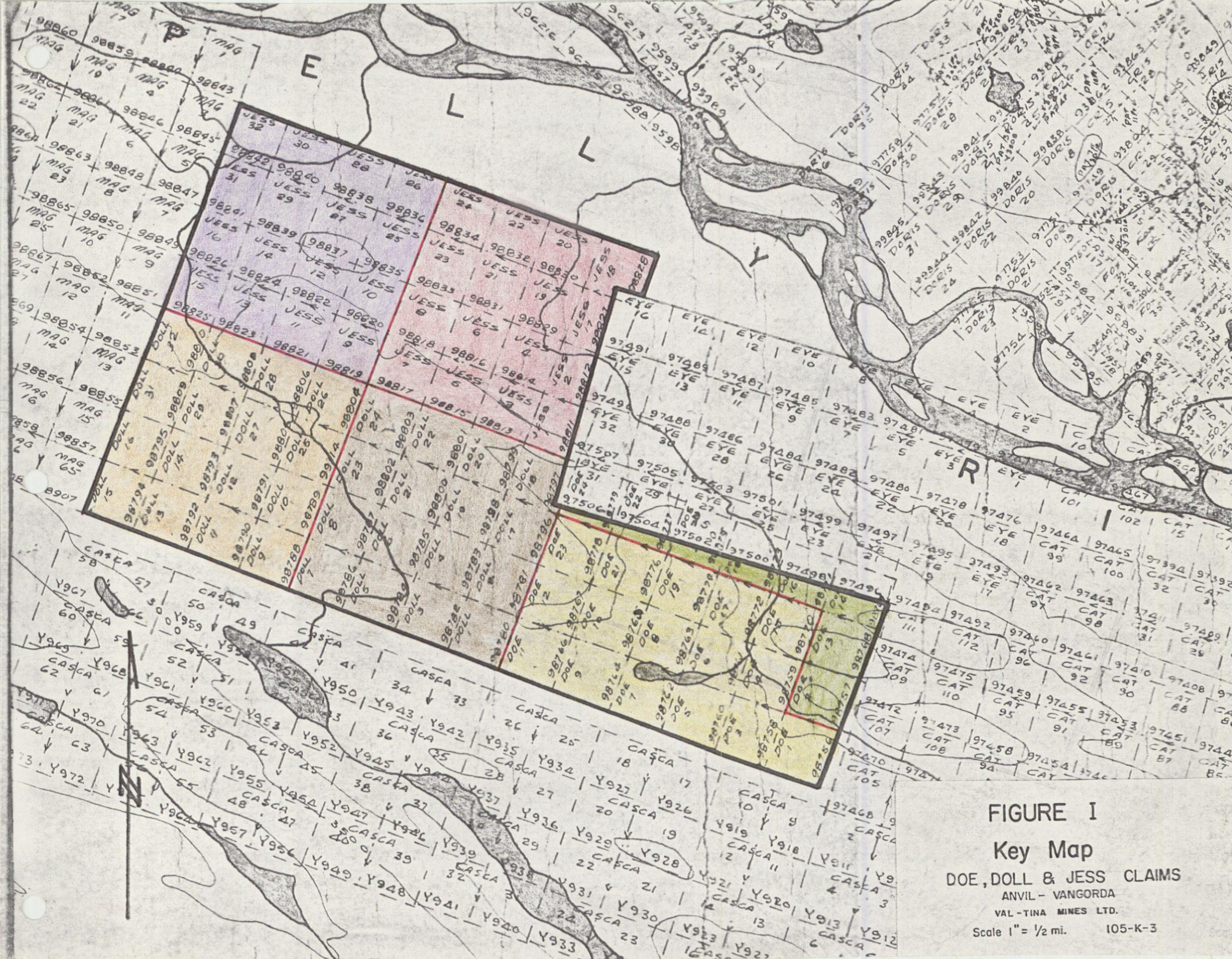


FIGURE I

Key Map

DOE, DOLL & JESS CLAIMS

ANVIL - VANGORDA

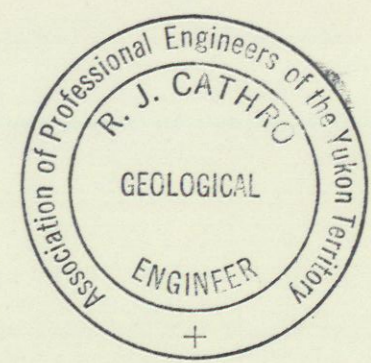
VAL - TINA MINES LTD.

Scale 1" = 1/2 mi.

105-K-3



EYE CLAIMS,
FLAGSTONE MINES LTD.



Magnetometer & E.M. Survey

CONDUCTED BY R.A. GRANGER, 1966

E.M. INSTRUMENT - SE-300
E.M. FREQUENCY - 1600 CPS

NOTE - MAG SURVEY COMPLETED EAST OF 0 BASELINE ONLY

- Legend**
- E.M. CONDUCTOR
 - MAGNETIC HIGH
 - MAGNETIC LOW

DOE, DOLL & JESS PROPERTY	
VALTINA MINES LTD.	
ANVIL - VANGORDA DISTRICT, YUKON	
ARCHER & CATHRO Consulting Geological Engineers	
DATE	7 Jan 1967
DRAWN	M. Horwood
SCALE	1" = 1000'
DWG. No.	2.

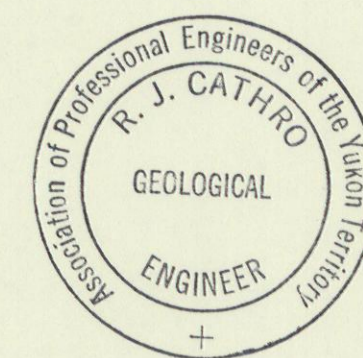


Figure 3

MAGNETOMETRA SURVEY

By

R.A. Granger

Nov. 1966

Scale 1" = 400'



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