

105-K-3

1967 FIELD PROGRAM

VAL-TINA MINES

DOLL, DOE, & JESS CLAIMS

ANVIL-VANGORDA DISTRICT

YUKON

MAY15, 1967

Alan R. Archer

Consultant

Vancouver, B.C.

INTRODUCTION

The writer has not personally visited the Doll, Doe and Jess claim groups although he has made several aerial reconnaissances over the general area during 1966. Information for this report is derived from the writers familiarity with the Anvil-Vangorda district, geophysical maps submitted by Val-Tina Mines Ltd. and Geological Survey of Canada 1 inch equals 4 mile mapping (Map 13 - 1961).

LOCATION & ACCESS

The Anvil-Vangorda district is an area five to ten miles wide and some seventy miles long that parallels the Pelly River and, more or less, follows the Anvil Range of mountains. The property lies on the southwest side of the Pelly River at a point ten miles downstream (northwest) from the ferry crossing at the mouth of Blind Creek and forty-five miles downstream from Ross River settlement (see Figure 1 in appendix).

The property is crossed by the Ross River - Carmacks Highway, presently under construction. It can now be reached from Whitehorse via Ross River settlement, a total distance of about 300 miles, and upon completion of the new highway in 1967, a shorter, improved route through Carmacks will be available. Whitehorse is the northern terminus for the White Pass and Yukon Railway.

(2)

PROPERTY

The Doe, Doll and Jess groups comprise a block of 88 contiguous mineral claims adjoining the Mag group of T.C. Explorations Ltd. and Peace River Petroleum Ltd. on the west, the Casca group of Silver City on the south and the Cat group on the east.

The claims are registered in Whitehorse, Yukon as follows -

<u>NAME</u>	<u>GRANT NUMBERS</u>	<u>OWNER</u>	<u>EXPIRY DATE</u>
Doe 1-24	98756 - 98779	Tillman	Feb. 8, 1967
Doll 1-24	98780 - 98803	Explorations	Feb. 8, 1967
Doll 25	99114	Co. Ltd.	Feb. 14, 1967
Doll 26-32	98804 - 98810	"	Feb. 8, 1967
Jess 1-32	98811 - 98842	"	Feb. 8, 1967

The observed ground location of the claim blocks is shown on Figure 2. Fractions and other open ground between the claims will be staked during May, 1967.

GEOLOGY

Regional

The district has been heavily glaciated and the valleys and lower flanks of the mountains are generally covered by glacial till. Because of this, most of the significant structures, contacts and indications of mineralization are obscured and careful geological, geochemical and

(3)

geophysical exploration is especially important in order to detect mineralization.

The main structural feature of the district is the Tintina Fault, which follows the Pelly River valley and is believed to be related to the Rocky Mountain Trench. The ore deposits found to date occur in a Mississippian (or older) schist formation that forms a belt five to ten miles wide and at least fifty miles in length paralleling the northeast side of the Tintina Fault. The geological evidence suggests that mineralization occurs in siliceous units of the schist formation and that ore deposits might be expected where these units are structurally complicated.

Doll, Doe and Jess Claim Groups

The Tintina Fault branches to the east of the property. One branch crosses the southern edge of the claims and the other branch crosses the middle of the claims. Two outcrops of the favourable schist formation, one on the Cat claims and the other to the northwest, indicate that this rock type probably underlies the property.

The property lies in the broad Pelly River valley and is well covered by overburden. Several small outcrops were reported by the geophysical field crew during 1966. Topography is gentle with occasional swampy sections. Ground cover is mainly spruce and light bush.

(4)

EXPLORATION COMPLETED TO DATE

A program of linecutting and ground geophysics was done during the 1966 field season. Lines have been cut over the property at 400 foot intervals and the claim posts have been tagged. A magnetometer survey has been completed on 50% of the lines and an electromagnetic survey, using a Sharpe SE 300 vertical loop, has covered 65% of the lines. Readings for both surveys were taken at 100 foot intervals and both surveys were started from the eastern side of the property. Figure 2 shows the location of the cut lines and the anomalous areas located by the geophysical work.

The geophysical response of the area has been surprisingly high indicating that overburden depths are probably less than 50 feet. A narrow fairly strong magnetic anomaly with weak coincident electromagnetic anomaly was found on the northeastern portion of the claims. Several significant electromagnetic anomalies have been located on the western side of the property where magnetometer surveys have yet to be done.

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.

(5)

The first stage of further exploration should be completion of ground magnetic and electromagnetic surveys followed by geochemical sampling and geological mapping. The second stage of exploration should be gravity surveys over the areas of interest located by Stage One. The third stage of exploration should be exploration of gravity anomalies by diamond drilling.

COST ESTIMATE

The following costs are estimated on the supposition that the Ross River - Carmacks road will be passable as far as the property at the time work is started.

Stage One

Ground magnetic and electromagnetic surveys will start on May 15, 1967 and be completed by June 1, 1967. Geochemical sampling and geological mapping will start June 1, 1967 and be completed by July 1, 1967.

EM and Mag. survey (contract price).....	\$3,100.00
Labour - soil sampling, geological mapping.....	1,100.00
Camp - includes all consumable supplies.....	450.00
Expediting, accounting, radio rental....	300.00

...6

(6)

Geochemical analysis - assume

900 samples analysed for lead,
zinc and copper using hot acid
extraction at a contract price
of \$2.50 each.....\$2,250.00

Mobilization (mainly truck

rental)..... 600.00

Consulting fees and final report..... 600.00

Drafting and blueprinting..... 400.00

\$8,800.00

plus 10%

contingencies.. 900.00

TOTAL.....\$9,700.00

Stage Two

Gravity surveys will start July 1, 1967 and should
be completed by August 1, 1967 although the exact date will
be contingent on availability of equipment and crews. The
size of survey will be contingent on results of Stage One.

Gravity survey - assume 20%

of the property to be

covered (contract price).....\$7,000.00

Camp costs, supervision..... 1,400.00

Expediting, accounting,

mobilization..... 500.00

(7)

Consulting fees, report.....\$1,000.00
\$9,900.00
plus
contingencies.. 1,000.00
TOTAL.....\$10,900.00

Stage Three

Diamond drilling will start in August or September
1967 contingent on favourable results from Stage Two.

Drilling - assume 4,000 feet
AX contracted at \$10.00
per foot.....\$40,000.00
Camp costs, supervision..... 3,000.00
Consulting fees, reports..... 1,000.00
\$44,000.00
plus
contingencies.. 4,400.00
TOTAL.....\$48,400.00

Total of three
stages.....\$69,000.00

Respectfully submitted,
ARCHER, CATHRO & ASSOC. LTD.

Alan R. Archer

Alan R. Archer, B.A. Sc., P. Eng.

ANVIL - VANGORDA CREEK — ROSS RIVER DISTRICT

Additional copies of this map may be obtained on application to Archer, Cathro & Associates Ltd., Box 1051, Whitehorse, Y.T.



THIS MAP IS DRAWN FROM GOVERNMENT CLAIM MAPS AND IS BELIEVED TO BE CORRECT. INDIVIDUAL LOCATIONS AND OWNERSHIP ARE NOT CERTIFIED.

ANVIL - VANGORDA AREA YUKON
 PREPARED BY
 ARCHER, CATHRO & ASSOC. LTD.
 WHITEHORSE

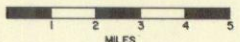


FIG. 1

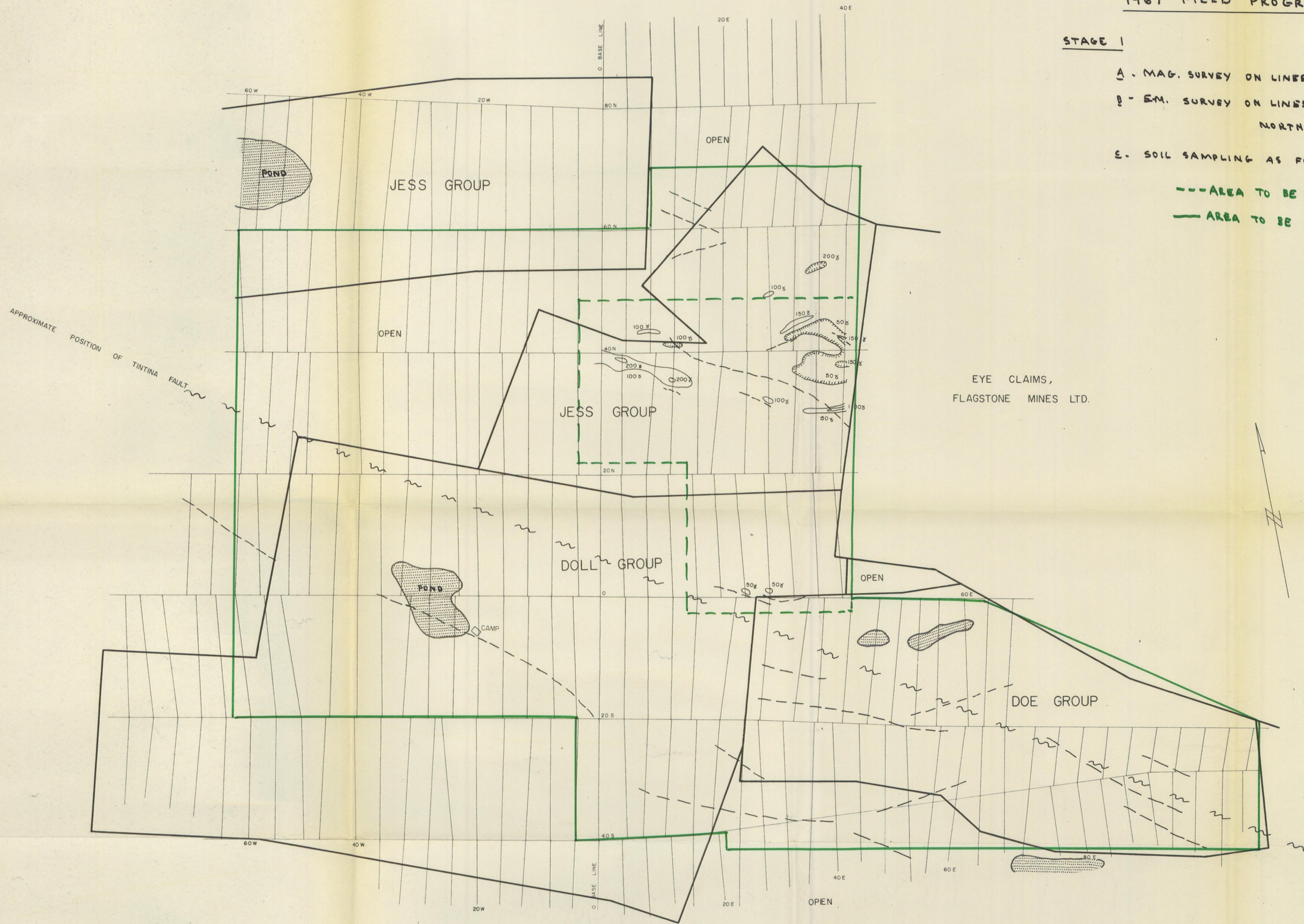
Swim Lake 62°15'N, 133°00'W

1967 FIELD PROGRAM

STAGE 1

- A - MAG. SURVEY ON LINES WEST OF 0 BASE-LINE
- B - E.M. SURVEY ON LINES WEST OF 0 BASE-LINE AND NORTH OF 20N. CROSS-LINE.
- E. SOIL SAMPLING AS FOLLOWS -

--- AREA TO BE SAMPLED AT 200' INTERVALS
 — AREA TO BE SAMPLED AT 400' INTERVALS



EYE CLAIMS,
 FLAGSTONE MINES LTD.

Legend

- E.M. CONDUCTOR
- MAGNETIC HIGH
- ◐ MAGNETIC LOW

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

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