Report on an Airborne Magnetometer Survey of the Stone Group of Mineral Claims near Ross River, Y.T.

for
Golden Gate Explorations Ltd. (N.P.L.)
714 West Hastings Street,
Vancouver, B.C.

Survey by
Husky Industries and Services Ltd.
97 - 845 Hornby Street,
Vancouver, B.C.

Interpretation by
Joseph Sullivan, P.Eng.,
201 - 525 Seymour Street
Vancouver, B.C.

September 23, 1966.

A Report on

The Stone Group of Mineral Claims

Whitehorse M.D.

Yukon Territory

Introduction:

The Stone group of mineral claims was covered by an airborne magnetometer survey, conducted by Husky Industries and Services Limited, 845 Hornby Street, Vancouver, B.C. on Sept. 2, 1966. This is a small group, eight claims, owned by Golden Gate Explorations Ltd., 714 West Hastings Street, Vancouver 1, B.C.

The instrumentation was done by Mr. R. Robillard of the "Husky" staff.

The survey control was one ground marker at the south end of the group, and a camera carried with the airborne equipment.

Location: (Lat. 62° 40', Long. 134° 00')

The claims are in the Whitehorse Mining Division about 68 air miles northwest of the Ross River townsite.

The new road being built from Ross River to Pelly Crossing will pass within 30 miles of these claims, but at this time the only direct access to the group is by helicopter from Ross River.

Status of Property:

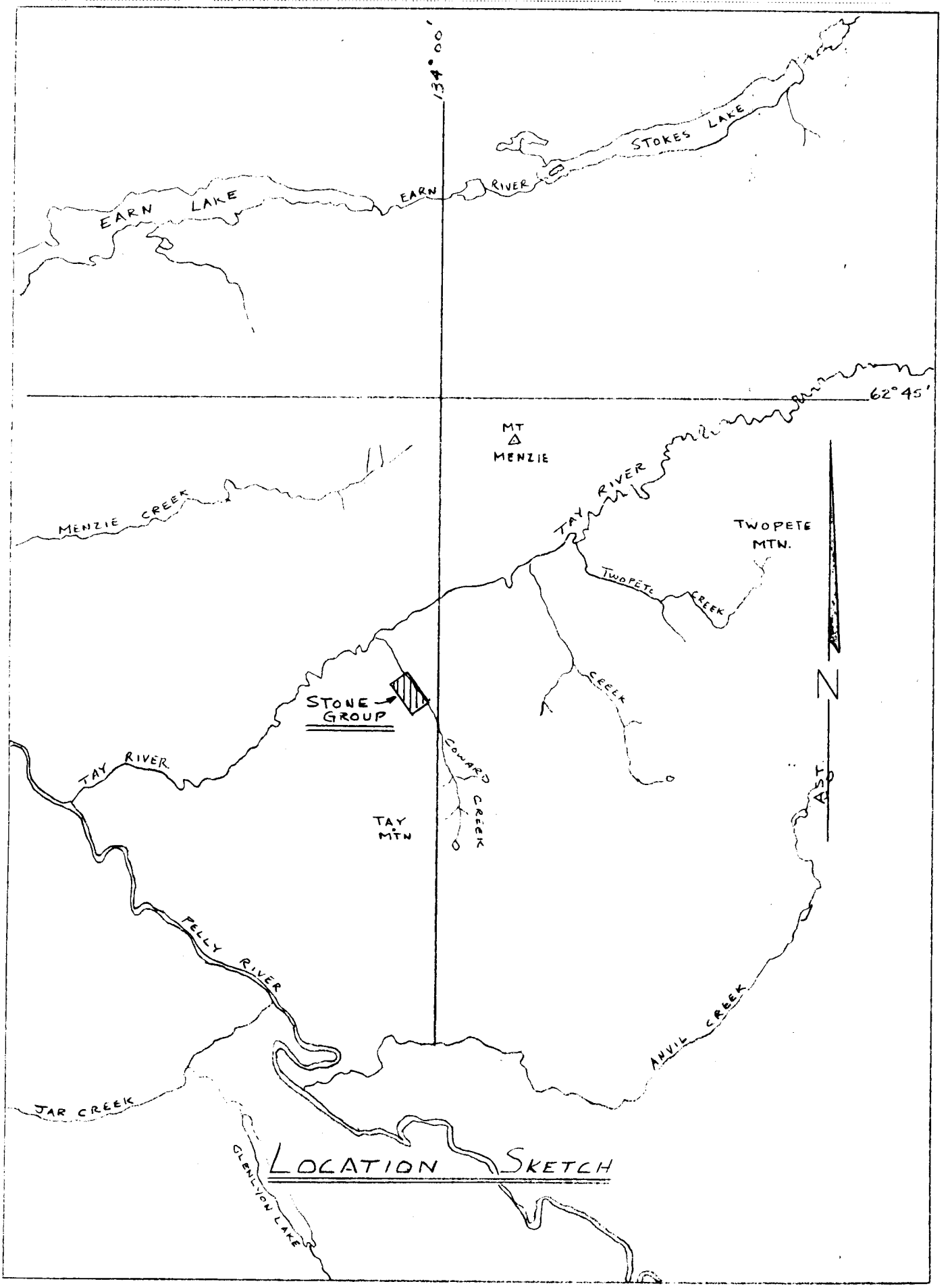
There are eight contiguous claims, Stone No's. 1 to 8, owned by location in the name of:

Golden Gate Exploration Ltd.,
714 West Hastings Street,
Vancouver 1, B.C.

BY D.M.F. DATE 21/9/66 SUBJECT HUSKY INDUSTRIES & SERVICES LTD SHEET NO. ..... OF .....

CHKD. BY ..... DATE ..... AIRBORNE MAGNETOMETER SURVEY FOR JOB NO. 4-A

SCALE 1" = 4 MILES GOLDEN GATE EXPLORATIONS LTD (N.P.L.) STONE GROUP

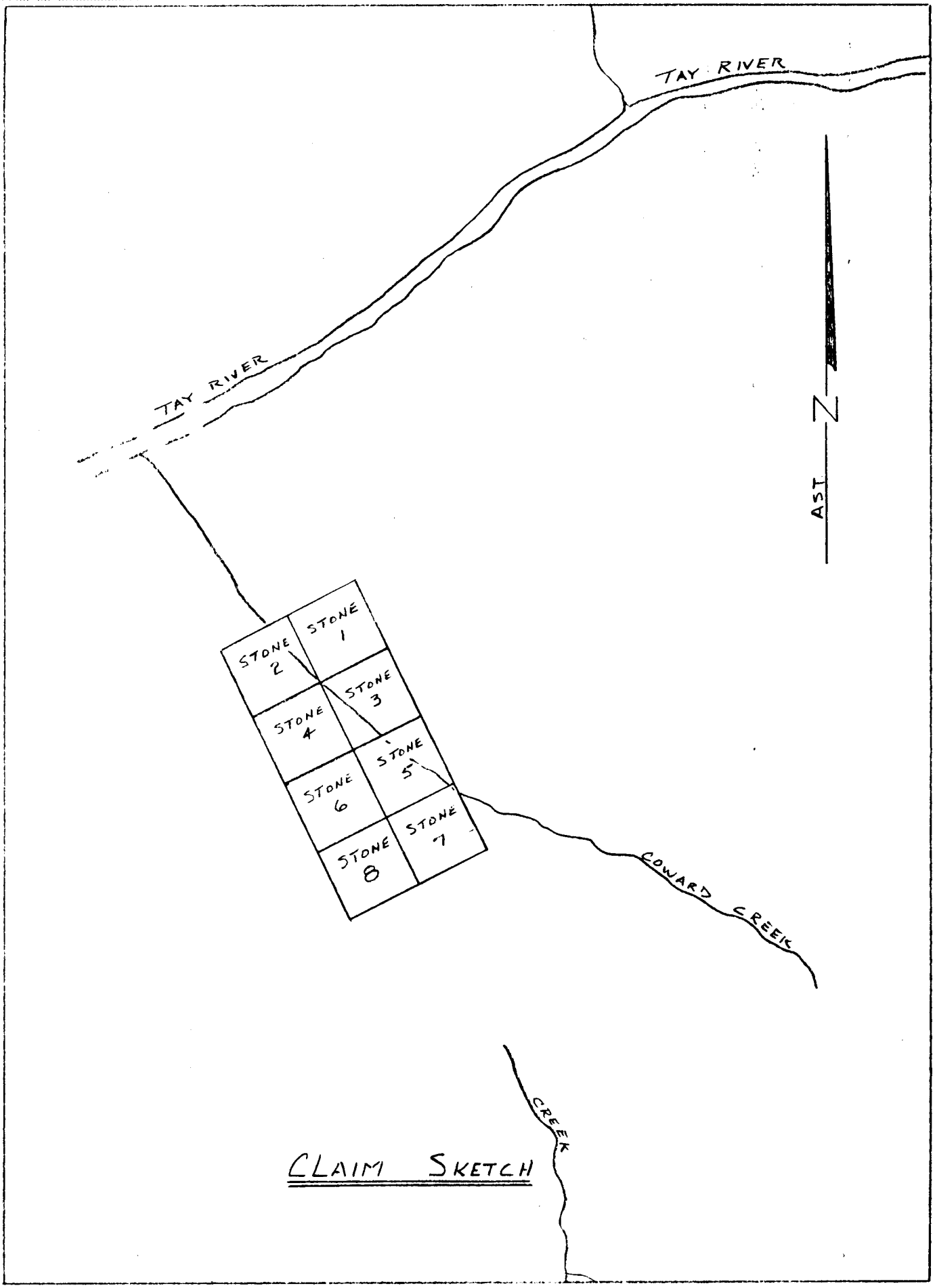


LOCATION SKETCH

BY D.M.F. DATE 21-9-66 SUBJECT HUSKY INDUSTRIES & SERVICES SHEET NO. OF

CHKD. BY DATE AIRBORNE MAGNETOMETER SURVEY FOR JOB NO. 4-A

SCALE 1" = ½ MILE GOLDEN GATE EXPLORATIONS LTD. (N.R.L.) STONE GROUP



CLAIM SKETCH

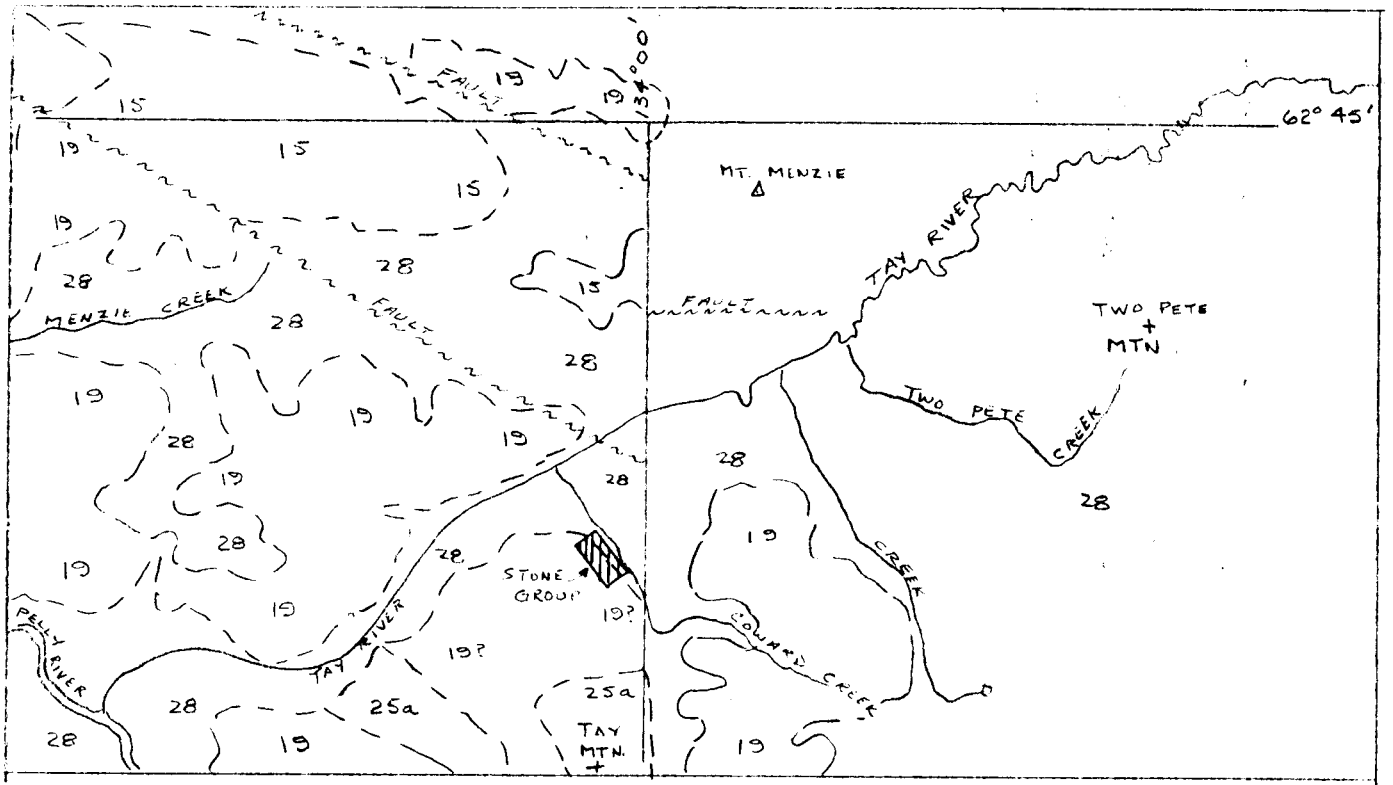
Geological Summary: (G.S.C. Map 25 - 1960)

The underlying rocks on this group are not shown to outcrop on the claims according to the "4" - mile" geological sheet of the area. There are therefore, two possibilities of formation. One is a sedimentary volcanic complex (5), shale, argillite, and siliceous limestone, with or without rhyolitic tuff and flows, greenstone and minor hornfels. The other is plutonic, granodiorite, quartz monzonite and quartz diorite (25a). Perhaps both of these formations underlie the group.

BY D M F. DATE 21-9-66 SUBJECT HUSKY INDUSTRIES & SERVICES LTD. SHEET NO. OF

CHKD. BY DATE AIRBORNE MAGNETOMETER SURVEY FOR JOB NO. 4-A

SCALE 1" = 4 MILES GOLDEN GATE EXPLORATIONS LTD. (N.P.L.) STONE GROUP



LEGEND

15	Thin-bedded chert, argillite, and quartzite; minor limestone
19	Andesitic and basaltic flows, breccia, and tuff; diorite; slate, phyllite, slaty limestone, chert, and carbonaceous shale
25a	Biotite granodiorite and quartz monzonite; minor leuco-quartz monzonite and biotite-hornblende quartz diorite
28	Glacial sand, gravel, silt, clay and till; volcanic ash, bog deposits and soil

GEOLOGY

Survey Method:

A magnetometer built to record the vertical component of the earth's magnetic field was mounted in a Hiller 12 E helicopter. The readings were fed into a chart recorder so that a continuous record of the gamma changes appeared on the charts. The claims were covered by four northwest flight-lines at approximately 1000 foot spacings. Survey control was a ground marker on the south central border as a starting point. An airborne camera recorded the noticable westerly drift on each flight.

The operator's field record is included as Appendix 1 at the back of this report.

Interpretation:

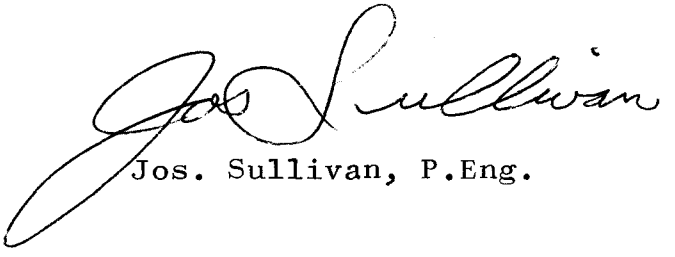
Trend No. 1, apparent on the southerly end of flights 4 and 3, is a small but clear dipole ranging from minus 260 gammas to plus 250 gammas. This is a north-northeast trend in the southwest corner of the claims and, of the three trends noted, it is rated by the writer as having the best possibilities for containing sulphide.

Trend No's. 2 and 3 are broad magnetic highs of about 500 gammas. They both lie at pronounced changes in the magnetic gradients and may indicate rock contacts with the formation of small amounts of magnetite.

Recommendation:

Trend No. 1 shows good response to magnetometers. Thus it is recommended that this zone be located and outlined on the ground by the use of a magnetic method. Further, trends No. 2 and 3 should be prospected to insure that nothing is being missed for if they are contact zones, as the writer suspects, they may still contain economic amounts of sulphide mineralization.

Respectfully submitted,



Jos. Sullivan, P.Eng.

September 23, 1966.

Appendix 1

Airborne Magnetometer Survey

For Golden Gate Exploration Ltd.

Stone Group #1 - 8

Line No.	Direction Flown	No. Pictures	Tape Length	Mileage
1	S - N	15	6.3"	1.36
2	S - N	14	6.2"	1.24
3	S - N	15	6.5"	1.30
4	S - N	15	6.4"	1.28
TOTALS		59		5.08 Miles

Line Bearing - Approximately N 25 W

Date - September 2, 1966

Altitude - 700'

Airspeed - 60 M.P.H.

Sensitivity - 1000 gammas full scale

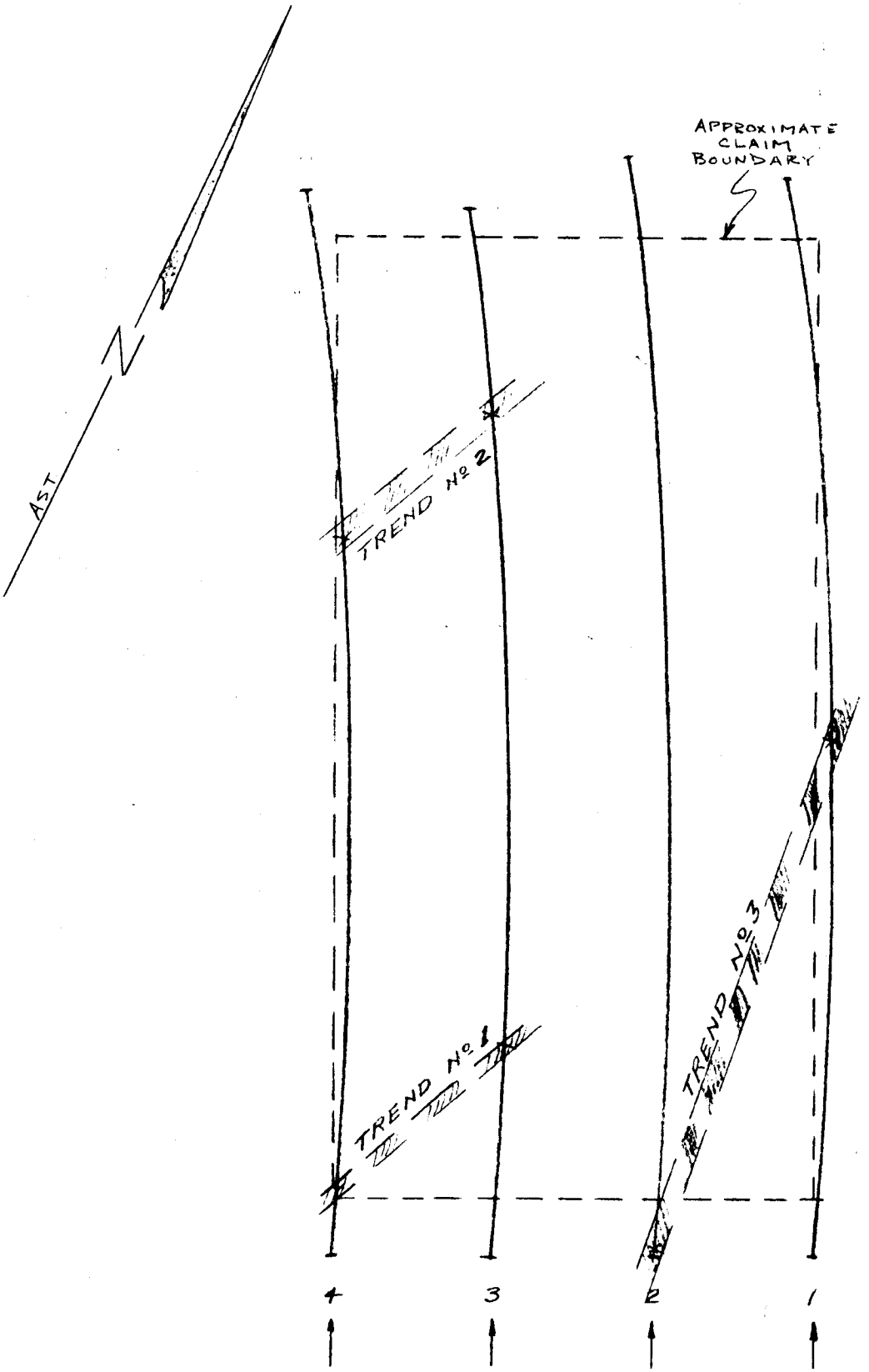
Lines - 1000' apart

Operator - R. Robillard

BY D.M.F DATE 21-9-66 SUBJECT Husky Industries & Services LTD SHEET NO. OF

CHKD. BY DATE Airborne Magnetometer Survey For JOB NO. 4-A

Scale 1" = 1000' Golden Gate Explorations LTD. (N.P.L.) Stone Group



Flight Lines & Trends

PRINTED IN CANADA

START

CAT. NO. 33-01-31

END

PRINTED IN CANADA

STONE GROUP

LINE #4

TREND #1

TREND #2

PRINTED IN CANADA

START

CAT. NO. 33-01-31

CREEK

END

LINE #3

PRINTED IN CANADA

START

CAT. NO. 33-01-31

END

LINE #2

TREND #3

PRINTED IN CANADA

START

CAT. NO. 33-01-31

END

STONE GROUP

SEPT 1966

LINE #1