



091813

REPORT ON A GROUND MAGNETOMETER, VLF
ELECTROMAGNETOMETER AND GEOCHEMISTRY
SURVEY IN THE PELLY RIVER AREA,
YUKON TERRITORY

WHITEHORSE MINING DIVISION

CLAIMS: GAL 1-16
105-4-13

LATITUDE 62 48'N, LONGITUDE 135 35'W

091813

FOR GALLAGHER EXPLORATIONS LTD.,
311-543 GRANVILLE STREET,
VANCOUVER, B.C.
V6C 1X8

SURVEY DATES JUNE 6 - JUNE 25, 1985



April 10, 1986
Vancouver, B.C

Apex Airborne Surveys Ltd.
Ronald F. Sheldrake

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 1,600.

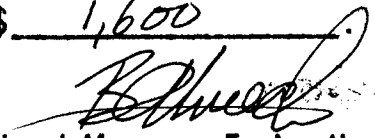

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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CERTIFICATION

1. SUMMARY

Although the magnetic survey confirmed the presence of the magnetic anomaly detected first by a 1980 airborne survey (Sheldrake, 1980), geochemical and VLF Electromagnetic examinations did not indicate the presence of massive sulphide gold mineralization.

Although the testing done to date is by no means conclusively negative, because of the cost of working in this area it is recommended that no further work is done on these claims.

2. INTRODUCTION

This report discusses the results of ground magnetometer, VLF electromagnetic and geochemical surveys undertaken June 6 to June 25, 1985 over the GAL group of claims held by GALLAGHER RESOURCES LTD. of Vancouver, B.C. The claims are located on Pelmac Ridge near the confluence of the Pelly and Macmillan rivers. The terrain in the area is hilly to gentle slopes, with elevations from 185 meters to 370 meters.

The purpose of the surveys was to verify and further study a magnetic anomaly indicated by an airborne helicopter survey (Sheldrake 1980).

APPENDIX I gives the details of the geophysical equipment used for this survey.

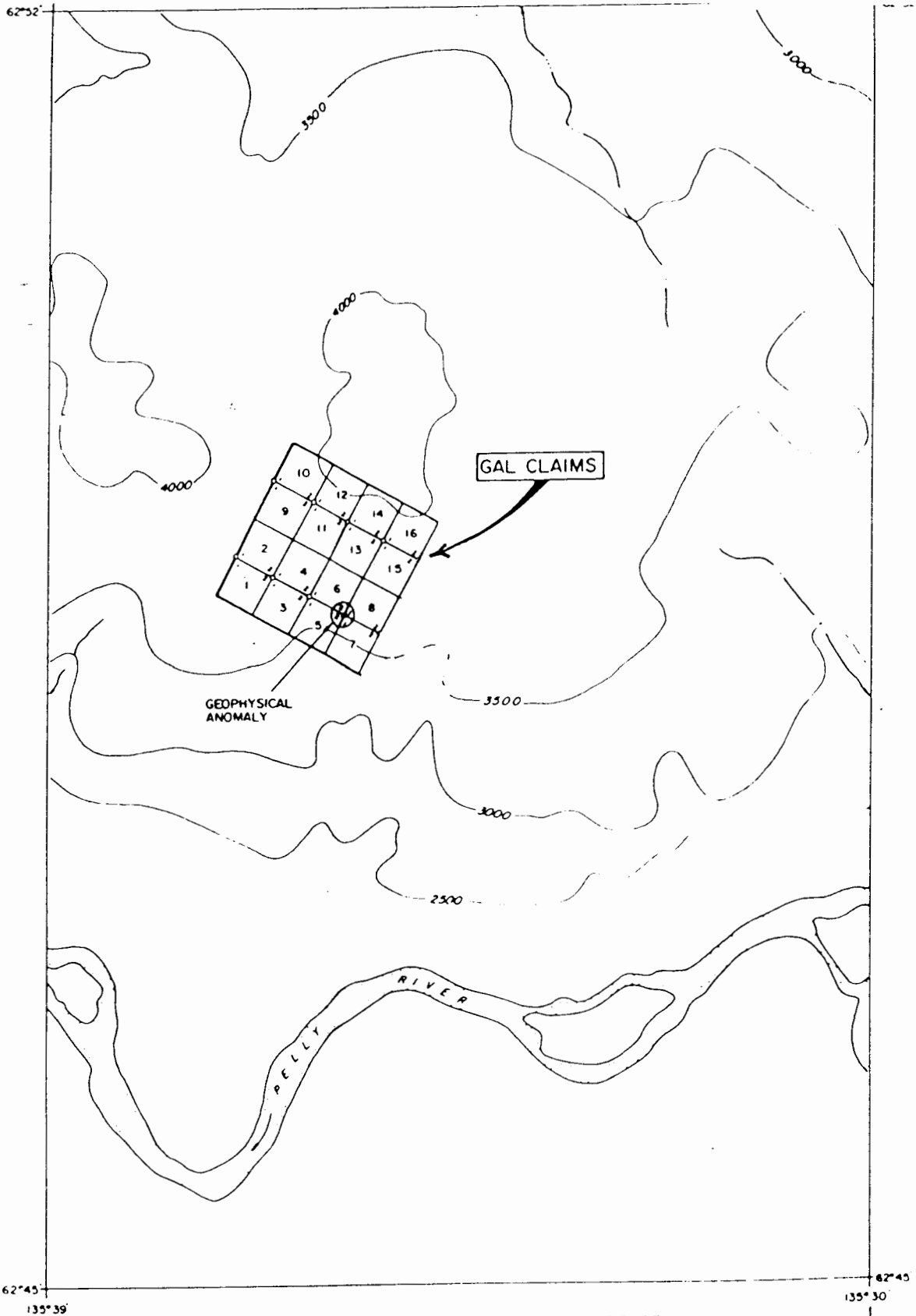
CLAIMS:

The claims covered for purposes of this reporting are:

| CLAIM NAME | RECORD NO. | NO. OF UNITS |
|--------------------|-----------------------|--------------|
| GAL 1-16 inclusive | YA81558-YA81573 incl. | 16 |

LOCATION AND ACCESS:

The property is located in the Whitehorse Mining District at latitude 62 48'N and longitude 135 35'W, N.T.S. map sheet 105L, Glenlyon. The claims are situated on the Pelmac Ridge between the Pelly and MacMillan Rivers, 18 km. East of their confluence. Access to the GAL claims is by helicopter based in



LEGEND

- TWO POSTS CLAIM POST
- 3000 CONTOUR AT 500 INTERVAL
- CREEK

FIGURE 1

GALLAGHER RESOURCES LTD
GAL CLAIMS
CLAIM LOCATION MAP
NTS 105L-13 WHITEHORSE M.D. YUKON

SCALE 1:31,880 APRIL 1986

Carmacks, Y.T., 85 km. to the South. The nearest town is Pelly Crossing, Y.T., 45 km to the West, on the Klondike Highway. 21 kilometers to the East there is a good landing strip near the Clear Lake Massive Sulphide Deposit. A winter road suitable for bulldozer and sled passes within 10 km. of the GAL claims.

GEOLOGY AND MINERALIZATION:

The area lies within the Yukon Crystalline Terrane which is bordered by the Selwyn Fold Belt with the Tintina fault as contact, 16 km. to the Northeast of the GAL claims. Directly 12 km. to the east is the tip of the Omenica Crystalline Belt as represented by the Askin Group, the presumed host of the Clear Lake Massive Sulphide Deposit 21 km. East of the GAL claims. There is no outcrop on the GAL claims. Bedrock is covered by Pleistocene glacial deposits, bogs and soils. The nearest outcrops to the GAL claims are within a kilometer's distance (Sookochoff, 1984).

3. DATA PRESENTATION

MAGNETIC DATA

A contour map (PLATE 1) of the total field magnetic values has been provided at a scale of 1:2,500. The magnetic contour maps were compiled by hand from diurnally corrected data then contoured. The magnetic data are uncorrected for regional gradient. The contour interval is 25 gammas.

VLF ELECTROMAGNETIC DATA

The VLF Electromagnetic data were Fraser Filtered and presented as a contour map at a scale of 1:2,500 (PLATE 2). Field and Fraser Filtered data are included in APPENDIX IV.

GEOCHEMICAL DATA

The soil samples were collected every 25 meters along the survey traverses, however only samples collected at 50 meter intervals were sent for analysis. Samples were analysed for gold, lead and copper by Chemex Labs Ltd., of Vancouver, B.C.

The distribution of gold values was not anomalous and was not contoured. The copper values are presented in contour (10 ppm interval) at a scale of 1:2,500 (PLATE 3). The data are tabulated in APPENDIX V.

4. DISCUSSION OF RESULTS

MAGNETIC DATA

The magnetic data confirmed the presence of the magnetic anomaly indicated by the 1980 airborne survey (Sheldrake, 1980) and provided an approximate view of its dimensions. The magnetic feature indicates a "plug" about 300 meters in length and 50 meters wide. The plug appears to be faulted into 2 parts.

VLF ELECTROMAGNETIC

Although there are VLF responses near the "plug" feature, no convincing relationship with the "plug" is evident.

GEOCHEMISTRY

The geochemistry data indicate there are no gold or lead geochemistry responses convincingly related to the "plug" feature.

The distribution of copper values displayed on Plate 3 offers no information as to the nature of the magnetic feature.

5. CONCLUSIONS AND RECOMMENDATIONS

Ground surveys confirmed the magnetic anomaly discovered by the airborne survey of 1980. The ground VLF-EM survey gave no responses indicative of sulphide mineralization. Geochemistry gave no anomalous gold results.

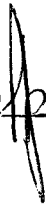
Because of the indefinite results of these surveys and the cost of exploration in the Yukon it is recommended that no further work be undertaken on the property at this time.

Respectfully submitted,


Ronald F. Shel Drake

APEX AIRBORNE SURVEYS LTD.

DATE SIGNED

 April 9, 1986

BIBLIOGRAPHY AND REFERENCES

Sookochoff, L. "Geological Evaluation Report for GALLAGHER
RESOURCES LTD. on the GAL CLAIM GROUP. June 1984".

Sheldrake, R.F., (1980) "Helicopter Magnetic and Electromagnetic
Survey in the Pelly River Area Yukon Territories"

APPENDIX I
INSTRUMENTATION

VLF ELECTROMAGNETOMETER.

The EM-16 VLF Electromagnetometer is manufactured by Geonics Ltd., of Toronto, Ontario and measures the electromagnetic field component that is radiated from VLF Military radio transmitters. The instrument can be used to measure total field strength, and vertical quadrature.

Frequency Range: 15kHz to 25 kHz

Sensitivity Range: 130 uV to 100 mV at 20 kHz, down 3 dB at 14kHz and 24kHz.

MAGNETOMETER

The instrument used on this survey was a Geometrics/Exploranium G806 nuclear precession magnetometer manufactured by Exploranium, Toronto, Canada. The instrument has a sensitivity of 1 gamma.

APPENDIX II

SURVEY PERSONNEL

Field Geophysicists

Ronald F. Sheldrake
1271 W. 22nd Street
North Vancouver, B.C.

Seamus Young
222-744 West Hastings Street
Vancouver, B.C.

Field Technicians

Pat Crook
222-744 W. Hastings Street
Vancouver, B.C.

A. Johnsgard
Whitehorse, Y.T.

D. Evans
222-744 W. Hastings Street
Vancouver, B.C.

APPENDIX III



DONEGAL DEVELOPMENTS LTD.

222 - 744 West Hastings Street, Vancouver, B.C.

SEAMUS YOUNG RES: (604) 738-581
Bus. (604) 689-0299

June 26, 1985

GALLAGHER EXPLORATIONS LTD.
#311 - 543 Granville Street
Vancouver, B.C.

Our Ref. J-7-85

Attn: Mr. M. Boyle

* STATEMENT OF EXPENSES *

Professional services rendered re Gallagher Claim Block for the period June 3 to June 25 inclusive.

SALARIES & FRINGE:

| | | | | |
|--------------|--------------|--------------------|-----------------|---------------------------|
| S. Young | June 6 - 21 | 16 days @ \$200.00 | \$3,200.00 | + 490 |
| P. Crook | June 3 - 25 | 23 days @ \$100.00 | 2,300.00 | } + 540 divide profits |
| A. Johnsgard | June 22 - 25 | 4 days @ \$100.00 | 400.00 | |
| D. Evans | June 8 - 25 | 18 days @ \$50.00 | 900.00 | |
| | | | <u>6,800.00</u> | |
| | | Fringe Benefits | <u>1,020.00</u> | \$ 7,820.00 |

DISBURSEMENTS:

| | | |
|--|-----------------|-----------|
| Air Charter | 4,649.82 | T |
| Vehicle Expenses (incl. truck rental) | 1,519.60 | T |
| Accommodation/Board | 1,132.54 | Acc meals |
| Travel (S. Young plane ticket) | 578.00 | T |
| Camp Equipment Rental - 4 men @ \$10/day/man | 920.00 | Equipment |
| Field Supplies | 237.27 | |
| Project related bookkeeping/secretarial | 120.00 | Misc F+D |
| Maps, Reproductions | 9.00 | |
| | <u>9,166.23</u> | |

This figure → 16,986.23

ADVANCES RECEIVED TO DATE 5,000.00

BALANCE DUE AS AT JUNE 25, 1985 \$ 11,986.23

*PAID
June 28*

Gallagher Resources Ltd.
311-543 Granville Street
Vancouver, B.C.
V6C 1X8

"GAL"

June 25, 1985

INVOICE

| | |
|--|---------------|
| Geophysical Services (June 6 to 21) 16 days @ \$ 300 (R. F. Sheldrake - geophysicist) | \$ 4,800.00 |
| Equipment rental | |
| Genie Horizontal Loop Electromagnetometer 16 days @ \$ 175.00 | \$ 2,800.00 |
| Rental Ground Equipment | |
| Geonics EM-16 @ \$ 25.00/day | |
| Self-Potential System @ \$ 25.00/day | |
| Geometrics Magnetometer @ \$ 50.00/day | |
| Insurance for all geophysical gear @ \$ 10.00/day | |
| TOTAL \$ 110.00/day | |
| 16 days at \$110.00 per day | \$ 1,760.00 |
| Expenses as per attached expense sheet | \$ 1,046.04 |
| TOTAL AMOUNT DUE | \$ 10,406.04 |
| LESS ADVANCE AT START OF PROJECT | (\$ 5,000.00) |
| FINAL AMOUNT DUE TO DATE | \$ 5,406.04 |

THIS IS THE EXPENSE ACCT OF

R.SHELDRAKE....

FOR WHICH PROJECT

GALLAGHER

| DATE 1984 | TO WHOM PAID | DESCRIPTION | O/H | AMOUNT PROJECT |
|--------------|--------------|-----------------------|------------------------------|-------------------|
| 1 | MAY 31 | G.S.C. | MAG MAPS | 1.07 |
| 2 | JUNE 6 | TRAVEL AGENT | AIRFARE TO WHTHRSE RTRN | 411.00 |
| 3 | JUNE 5 | WESTERN REPPORDUCERS | COPY GALL GEOCHEM MAPS | 34.20 |
| 4 | JUNE 6 | RESTARAUNT | DINNER FOR THREE (with R.S.) | 34.75 |
| 5 | JUNE 6 | CAMERA SHOP | FILM | 5.87 |
| 6 | JUNE 7 | SHOPPERS DRUG MART | BATTERIES AND STATIONARY | 54.03 |
| 7 | JUNE 7 | HOUGANS DEPT STORE | UTILITY KNIFE | 9.50 |
| 8 | JUNE 7 | GREEK RESTARAUNT | DINNER FOR THREE | 65.60 |
| 9 | JUNE 8 | BRAEBURN LODGE | LUNCH FOR 1 | 2.10 |
| 10 | JUNE 8 | CARMACKS HOTEL | BRKFST FOR THREE | 25.00 |
| 11 | JUNE 8 | GREEK RESTARAUNT | DINNER SEAMUS AND RON | 39.00 |
| 12 | JUNE 9 | KLONDIKE INN | LUNCH S.Y., R.S., M. SMIT | 18.50 |
| 13 | JUNE 9 | STATIONARY | TAPE | 3.50 |
| 14 | JUNE 10 | HARDWARE STORE | BATTERIES, WRENCH, HARDW | 84.15 |
| 15 | JUNE 10 | BRENDENES | LUNCH | 4.75 |
| 16 | JUNE 10 | GENERAL STORE | BREAD | 5.37 |
| 17 | JUNE 21 | T & M HOTEL | ROOMS AND FOOD | 146.20 |
| 18 | JUNE 21 | AIRPORT CHALET (Y.T.) | LUNCH | 4.75 |
| 19 | JUNE 21 | TAXI CAB | AIRPORT TO HOME | 31.90 |
| 20 | JUNE 20 | GOLDEN GARTER REST. | DINNER S.Y. & R.S. | 64.80 |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | | | | |
| 32 | | | | |
| 33 | | | | |
| 34 | | | | |
| 35 | | | | |
| TOTALS | | | 0 | 1046.04 |

0 1046.04

APPENDIX IV

| <u>L 150</u> <u>South</u> | % | SUM | F.F. | <u>L 200</u> <u>South</u> | % | SUM | F.F. | <u>L 250</u> <u>South</u> | % | SUM | F.F. | APPENDIX IV |
|---------------------------------|-----|-----|------|------------------------------|-----|----------|------|------------------------------|-----|-----|------|-------------|
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| PAST | | -11 | | | 12 | | | | | -50 | | |
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| | | -9 | -11 | | 6 | 13 | | | | -40 | -38 | |
| 450 | -3 | | | +2 | | | | | -11 | | | |
| | | 0 | -10 | | -1 | 17 | | | | -12 | -40 | |
| 425 | +3 | | | -3 | | | | | -1 | | | |
| | | 1 | 9 | | -11 | 9 | | | | 0 | -8 | |
| 400 | -2 | | | -8 | | | | | +1 | | | |
| | | -9 | 15 | | -14 | -8 | | | | -4 | 22 | |
| 375 | -7 | | | -2 | | | | | -5 | | | |
| | | -14 | 2 | | -3 | -7 | | | | -22 | 29 | |
| 350 | -7 | | | -1 | | | | | -17 | | | |
| | | -11 | -6 | | -3 | -4 | | | | -33 | 4 | |
| 325 | -4 | | | -2 | | | | | -14 | | | |
| | | -8 | -4 | | 1 | -13 | | | | -26 | 22 | |
| 300 | -4 | | | +3 | | | | | -10 | | | |
| | | -7 | -2 | | 10 | -15 | | | | -11 | -33 | |
| 275 | -3 | | | +7 | | | | | -1 | | | |
| | | -6 | -2 | | 16 | -11 | | | | 7 | -44 | |
| 250 | -3 | | | +9 | | | | | +8 | | | |
| | | -5 | -2 | | 21 | -8 | | | | 33 | -35 | |
| 225 | -2 | | | +12 | | | | | +25 | | | |
| | | -4 | 2 | | 24 | 2 | | | | 42 | -3 | |
| 200 | -2 | | | +12 | | | | | +17 | | | |
| | | -7 | 7 | | 19 | 10 | | | | 36 | 1 | |
| 175 | -5 | | | +7 | | | | | +19 | | | |
| | | -11 | 9 | | 14 | 8 | | | | 41 | -10 | |
| 150 | -6 | | | +7 | | | | | +22 | | | |
| | | -16 | 8 | | 11 | 10 | | | | 46 | -2 | |
| 125 | -10 | | | +4 | | | | | +24 | | | |
| | | -19 | 0 | | 4 | 12 | | | | 43 | 12 | |
| 100 | -9 | | | 0 | | | | | +19 | | | |
| | | -16 | -14 | | -1 | 8 | | | | 34 | 15 | |
| 75 | -7 | | | -1 | | | | | +15 | | | |
| | | -5 | -25 | | -4 | 7 | | | | 28 | 10 | |
| 50 | +2 | | | -3 | | | | | +13 | | | |
| <small>in Verified Held</small> | | 9 | -24 | | -8 | 3 | | | | 24 | 7 | |
| 25 | +7 | | | -5 | | | | | +11 | | | |
| | | 19 | -16 | | -7 | -1 | | | | 21 | 2 | |
| 0 | +12 | | | -2 | | | | | +10 | | | |

L200S

| <u>L150S</u> | % | SUM | FF | % | SUM | FF |
|--------------|-----|-------|-----|----|-----|-------------------|
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|) | v | 25 | 16 | | -7 | 0 |
| 25 | +13 | | | -5 | | |
| | v | +3 | 47 | | -7 | -12 |
| 50 | +10 | | | -2 | | |
| | v | -22 | 15 | | 5 | -21 |
| 75 | -12 | | | +7 | | |
| | v | -12 | -26 | | 14 | -3 |
| 100 | 0 | | | +7 | | |
| | v | 4 | -15 | | 8 | 14 |
| 125 | +4 | | | +1 | | |
| 1 | | 3 | 10 | | 0 | 8 |
| 150 | -1 | | | -1 | | |
| | | -6 | 12 | | 0 | -5 |
| 175 | -5 | | | +1 | | |
| | | -9 | 2 | | 5 | -9 |
| 200 | -4 | | | +4 | | |
| | | -8 | 1 | | 7 | -7 |
|) | | | | +5 | | |
| 225 | -4 | | | | 12 | ⁽²⁾ -2 |
| | | -10 | 2 | | | |
| 250 | -6 | | | +7 | | |
| | | -10 | -3 | | 11 | 9 |
| 275 | -4 | | | +4 | | |
| | | -7 | 0 | | 3 | 14 |
| 300 | -3 | | | -1 | | |
| | | -10 | 8 | | -3 | 6 |
| 325 | -7 | | | -2 | | |
| | | -15 | 5 | | -3 | -5 |
| 350 | -8 | | | -1 | | |
| | | -15 | -5 | | 2 | -8 |
| 375 | -7 | | | +3 | | |
| | | -10 | -15 | | 5 | 2 |
| 400 | -3 | | | +2 | | |
| | | ⊙ -20 | | | 0 | 11 |
| 425 | +3 | | | -2 | | |
|) | | 10 | -22 | | -6 | 13 |
| 450 | +7 | | | -4 | | |
| | | 22 | -12 | | -13 | 13 |
| 475 | +15 | | | -9 | | |
| | | | | | | |

| <u>L250S</u> | % | SUM | FF |
|--------------|-----|-----|-----|
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| | +12 | | |
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| | +16 | | |
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| | +14 | | |
| | | 26 | 3 |
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| | +15 | | |
| | | 32 | -5 |
| | +17 | | |
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| | | 36 | -13 |
| | +21 | | |
| | | 45 | -6 |
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| | | 42 | 15 |
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| | | 19 | 20 |
| | +7 | | |
| | | 10 | 15 |
| | +3 | | |
| | | 4 | 9 |
| | +1 | | |
| | | 1 | 3 |
| | 0 | | |
| | | 1 | 2 |
| | +1 | | |
| | | -1 | 5 |
| | -2 | | |
| | | -4 | 0 |
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| RAST | % | SUM | F.F. | % | SUM | F.F. |
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| 475 | -1 | | | -(-1) } +11 | | |
| | | +1 | -5 | +1(-14) | +10 | +8 |
| 450 | +2 | | | =+15 | +7 | |
| | | -1 | +15 | | +12 | +11 |
| 425 | -3 | | | +5 | | |
| | | -14 | +27 | | +7 | +12 |
| 400 | -11 | | | +2 | | |
| | | -28 | +26 | | 0 | +13 |
| 375 | -17 | | | -2 | | |
| | | -40 | +9 | | -6 | +8 |
| 350 | -23 | | | -4 | | |
| | | -37 | -19 | | -8 | -3 |
| 325 | -14 | | | -4 | | |
| | | -21 | -22 | | -3 | -11 |
| 300 | -7 | | | +1 | | |
| | | -15 | -7 | | +3 | -10 |
| 275 | -8 | | | +2 | | |
| | | -14 | -7 | | +7 | -9 |
| 250 | -6 | | | +5 | | |
| | | -8 | -17 | | +12 | -8 |
| 225 | -2 | | | +7 | | |
| | | +3 | -26 | | +15 | -4 |
| 200 | +5 | | | +8 | | |
| | | +18 | -28 | | +16 | -4 |
| 175 | +13 | | | +8 | | |
| | | +31 | -25 | | +19 | -7 |
| 150 | +18 | | | +11 | | |
| | | +43 | -17 | | +23 | -3 |
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| 75 | +23 | | | +8 | | |
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| 50 | +27 | | | +4 | | |
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| | | +39 | +13 | | -1 | 0 |
| 0 | +18 | | | +1 | | |
| | | +35 | | | +2 | |

| % | SUM | F.F. |
|----|-----|------|
| +8 | | |
| | +16 | |
| +8 | | |
| | +15 | +5 |
| +7 | | |
| | +11 | +8 |
| +4 | | |
| | +7 | +7 |
| +3 | | |
| | +4 | +5 |
| +1 | | |
| | +2 | +1 |
| +1 | | |
| | +3 | -6 |
| +2 | | |
| | +8 | -9 |
| +6 | | |
| | +12 | -5 |
| +6 | | |
| | +13 | +1 |
| +7 | | |
| | +11 | +6 |
| +4 | | |
| | +7 | (+3) |
| +3 | | |
| | +8 | -6 |
| +5 | | |
| | +13 | -8 |
| +8 | | |
| | +16 | -4 |
| +8 | | |
| | +17 | -1 |
| +9 | | |
| | +17 | +3 |
| +8 | | |
| | +14 | +10 |
| +6 | | |
| | +7 | +16 |
| +1 | | |
| | -2 | +14 |
| -3 | | |
| | -7 | |

| L 0+00 | % | SUM | FF | L 505 | % | SUM | FF | L 1005 | % | SUM | FF |
|--------|-----|---------------------|-----|-------|-----|-----|-----|--------|-----|---------------|-----|
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| | | 19 | | | | 19 | | | | 14 | 12 |
| 475 | +10 | 21 | -4 | | +13 | 29 | -10 | | +8 | 17 | 7 |
| 450 | +11 | 23 | -1 | | +16 | 29 | 10 | | +9 | 7 | 25 |
| 425 | +12 | 20 20 | 10 | | +13 | 19 | 20 | | -2 | -8 | 22 |
| 400 | +8 | 13 | 8 | | +6 | 9 | 15 | | -6 | -15 | 18 |
| 375 | +5 | 12 | -1 | | +3 | 7 | 8 | | -9 | -26 | 23 |
| 350 | +7 | 14 | 1 | | +1 | 1 | -5 | | -17 | 38 | 17 |
| 325 | +7 | 11 | 6 | | 0 | 9 | -21 | | -21 | -43 | 6 |
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| 275 | +4 | 9 | -5 | | +13 | 24 | 3 | | -22 | -45 | -1 |
| 250 | +5 | 13 | -11 | | +11 | 19 | 16 | | -23 | -43 | -5 |
| 225 | +8 | 20 | -13 | | +8 | 8 | 14 | | -20 | -40 | -8 |
| 200 | +12 | 26 | -8 | | 0 | 5 | -6 | | -20 | -35 | -13 |
| 175 | +14 | 28 | -4 | | +5 | 14 | -8 | | -15 | -27 | -12 |
| 150 | +14 | 30 | -3 | | +9 | 13 | 8 | | -12 | -23 | -12 |
| 125 | +16 | 31 | 0 | | +4 | 6 | 4 | | -11 | -15 | -21 |
| 100 | +15 | 30 | 4 | | +2 | 9 | -9 | | -4 | -2 | -21 |
| 75 | +15 | 27 | 7 | | +7 | 15 | -7 | | +2 | 6 | -14 |
| 50 | +12 | 23 | 1 | | +8 | 16 | -4 | | +4 | 12 | -10 |
| 25 E | +11 | 26 | -7 | | +8 | 19 | -3 | | +8 | 16 | -8 |
| 0 | +15 | | | | +11 | | | | +8 | | |

| LO100 | % | SUM | FF | L505 | % | SUM | FF | L1005 | % | SUM | F.F. |
|-------|-----|-----|-----|------|-----|-----|----|-------|-----|-----|------|
| | | 26 | -7 | | | 19 | -3 | | | 16 | -8 |
| 0 | +15 | 30 | -2 | | +11 | 19 | 7 | | +8 | 20 | -3 |
| 25 | +15 | 28 | 8 | | +8 | 12 | 9 | | +12 | 19 | 9 |
| 50 | +13 | 32 | 11 | | +4 | 10 | 1 | | +7 | 11 | 14 |
| 75 | +9 | 17 | 2 | | +6 | 11 | 1 | | +4 | 5 | 7 |
| 100 | +8 | 20 | -9 | | +5 | 9 | 3 | | +1 | 4 | -1 |
| 125 | +12 | 26 | -10 | | +4 | 7 | 0 | | +3 | 6 | 1 |
| 150 | +14 | 30 | -7 | | +3 | 9 | -8 | | +3 | 3 | 12 |
| 175 | +16 | 33 | -6 | | +6 | 15 | -7 | | 0 | -6 | 18 |
| 200 | +17 | 36 | -7 | | +9 | 16 | 1 | | -6 | -15 | 6 |
| 225 | +19 | 40 | -8 | | +7 | 14 | 0 | | -9 | -12 | -13 |
| 250 | +21 | 44 | -5 | | +7 | 16 | -5 | | -3 | -2 | -16 |
| 275 | +23 | 45 | -1 | | +9 | 19 | -8 | | +1 | 4 | -9 |
| 300 | +22 | 45 | -3 | | +10 | 24 | -6 | | +3 | 7 | 2 |
| 325 | +23 | 48 | 12 | | +14 | 25 | 8 | | +4 | 2 | 9 |
| 350 | +25 | 33 | 45 | | +11 | 23 | | | -2 | -2 | -2 |
| 375 | +8 | 3 | 48 | | +5 | 2 | 29 | | 0 | 4 | -13 |
| 400 | -5 | -15 | 27 | | -3 | -3 | 28 | | +4 | 11 | -14 |
| 425 | -10 | -24 | 10 | | -10 | -22 | 21 | | +7 | 18 | -18 |
| 450 | -14 | -25 | -8 | | -16 | -3 | 9 | | +11 | 29 | -13 |
| 475 | -11 | -16 | | | -18 | -35 | | | +18 | 31 | |

~~L 750 NORTH~~

| | % | SUM | F.F. |
|----------|----|-----|------|
| 500 EAST | +2 | | |
| | | +4 | |
| 475 | +2 | | |
| | | +2 | +3 |
| 450 | 0 | | |
| | | +1 | +2 |
| 425 | +1 | 0 | 0 |
| | | | |
| 400 | -1 | | |
| | | +1 | -5 |
| 375 | +2 | | |
| | | +5 | -4 |
| 350 | +3 | | |
| | | +5 | +1 |
| 325 | +2 | | |
| | | +4 | +1 |
| 300 | +2 | | |
| | | +4 | +2 |
| 75 | +2 | | |
| | | +2 | +2 |
| 250 | 0 | | |
| | | +2 | +2 |
| 225 | +2 | | |
| | | 0 | +9 |
| 200 | -2 | | |
| | | -7 | +9 |
| 175 | -5 | | |
| | | -9 | -1 |
| 150 | -4 | | |
| | | -6 | -7 |
| 125 | -2 | | |
| | | -2 | -11 |
| 100 | 0 | | |
| | | +5 | -11 |
| 75 | +5 | | |
| | | +8 | -3 |
| 50 | +4 | | |
| | | +8 | +2 |
| 25 | +4 | | |
| | | +7 | +6 |
| 0 | +3 | | |

~~L 200 NORTH~~

| | % | SUM | F.F. |
|--|----|-----|------|
| | +3 | | |
| | | +6 | |
| | +3 | | |
| | | +7 | -1 |
| | +4 | | |
| | | +7 | +2 |
| | +3 | | |
| | | +5 | +4 |
| | +2 | | |
| | | +3 | +2 |
| | +1 | | |
| | | +3 | -2 |
| | +2 | | |
| | | +5 | 0 |
| | +3 | | |
| | | +3 | +4 |
| | 0 | | |
| | | +1 | +2 |
| | +1 | | |
| | | +1 | +1 |
| | 0 | | |
| | | 0 | +5 |
| | 0 | | |
| | | -4 | +10 |
| | -4 | | |
| | | -10 | +7 |
| | -6 | | |
| | | -11 | -7 |
| | -5 | | |
| | | -9 | -8 |
| | -4 | | |
| | | -3 | -11 |
| | +1 | | |
| | | +2 | -9 |
| | +1 | | |
| | | +6 | +1 |
| | +5 | | |
| | | +1 | +17 |
| | -4 | | |
| | | -11 | +18 |
| | -7 | | |

~~L 750 NORTH~~

| | % | SUM | F.F. |
|--|----|-----|------|
| | +2 | | |
| | | +4 | |
| | +2 | | |
| | | +4 | -2 |
| | +2 | | |
| | | +6 | -6 |
| | +4 | | |
| | | +10 | -6 |
| | +6 | | |
| | | +12 | -3 |
| | +6 | | |
| | | +13 | -2 |
| | +7 | | |
| | | +14 | -3 |
| | +7 | | |
| | | +16 | -3 |
| | +9 | | |
| | | +17 | +1 |
| | +8 | | |
| | | +15 | +8 |
| | +7 | | |
| | | +9 | +13 |
| | +2 | | |
| | | +2 | +10 |
| | 0 | | |
| | | -1 | +3 |
| | -1 | | |
| | | -1 | 0 |
| | 0 | | |
| | | -1 | +1 |
| | -1 | | |
| | | -2 | +2 |
| | -1 | | |
| | | -3 | +2 |
| | -2 | | |
| | | -4 | -2 |
| | -2 | | |
| | | -1 | -5 |
| | +1 | | |
| | | +1 | +1 |
| | 0 | | |

| L150N | % | SUM | FF. |
|-------|-----|------------|-----|
| | | +7 | +6 |
| 0 | +3 | | |
| | | +2 | +10 |
| 25W | -1 | | |
| | | -3 | +6 |
| 50 | -2 | | |
| | | -4 | +2 |
| 75 | -2 | | |
| | | -5 | +5 |
| 100 | -3 | | |
| | | -9 | +6 |
| 125 | -6 | | |
| | | -11 | +2 |
| 150 | -5 | | |
| | | -11 | +2 |
| 175 | -6 | | |
| | | -13 | +4 |
| 200 | -7 | | |
| | | -15 | +1 |
| 225 | -8 | | |
| | | -14 | +4 |
| 250 | -6 | | |
| | | -19 | +11 |
| 275 | -13 | | |
| | | -25 | +8 |
| 300 | -12 | | |
| | | -27 | -3 |
| 325 | -15 | | |
| | | -22 | -17 |
| 350 | -7 | | |
| | | -10 | -21 |
| 375 | -3 | | |
| | | -1 | -18 |
| 400 | +2 | | |
| | | +8 | -16 |
| 425 | +6 | | |
| | | +15 | -15 |
| 450 | +9 | | |
| | | +23 | -10 |
| 475 | +14 | | |
| | | +25 | |

| L200N | % | SUM | FF. |
|-------|---|------------|-----|
| | | -11 | +18 |
| | | -7 | |
| | | -17 | +12 |
| | | -10 | |
| | | -23 | +14 |
| | | -13 | |
| | | -31 | +16 |
| | | -18 | |
| | | -39 | +15 |
| | | -21 | |
| | | -46 | +18 |
| | | -25 | |
| | | -57 | +21 |
| | | -32 | |
| | | -67 | +16 |
| | | -35 | |
| | | -73 | +6 |
| | | -38 | |
| | | -73 | -1 |
| | | -35 | |
| | | -72 | -4 |
| | | -37 | |
| | | -69 | -2 |
| | | -32 | |
| | | -70 | +10 |
| | | -38 | |
| | | -79 | +17 |
| | | -41 | |
| | | -87 | -1 |
| | | -46 | |
| | | -78 | -40 |
| | | -32 | |
| | | -47 | -48 |
| | | -15 | |
| | | -30 | -23 |
| | | -15 | |
| | | -24 | -26 |
| | | -9 | |
| | | -4 | -41 |
| | | +5 | |
| | | +17 | ✓ |

| L250N | % | SUM | FF. |
|-------|---|---------------|-----|
| | | +1 | +1 |
| | | 0 | |
| | | -2 | +7 |
| | | -2 | |
| | | -6 | +6 |
| | | -4 | |
| | | -8 | 0 |
| | | -4 | |
| | | -6 | -7 |
| | | -2 | |
| | | -1 | -10 |
| | | +1 | |
| | | +4 | -8 |
| | | +3 | |
| | | +7 | -3 |
| | | +4 | |
| | | +7 | 0 |
| | | +3 | |
| | | +7 | -1 |
| | | +4 | |
| | | +8 | 0 |
| | | +4 | |
| | | +7 | +1 |
| | | +3 | |
| | | +7 | -1 |
| | | +4 | |
| | | +8 | -1 |
| | | +4 | |
| | | +8 | -2 |
| | | +4 | |
| | | +10 | -5 |
| | | +6 | |
| | | +13 | +5 |
| | | +7 | |
| | | +5 | +30 |
| | | -2 | |
| | | -17 | +30 |
| | | -15 | |
| | | -25 | -3 |
| | | -10 | |
| | | -4 | ✓ |

L 300 NORTH

| | % | SUM | F.F. |
|-----|-----|-----|------|
| 500 | +1 | | |
| 475 | +1 | +2 | |
| 450 | -1 | 0 | -1 |
| 425 | +4 | +3 | -9 |
| 400 | +5 | +9 | -6 |
| 375 | +4 | +9 | -3 |
| 350 | +8 | +12 | -7 |
| 325 | +8 | +16 | -7 |
| 300 | +11 | +19 | -6 |
| 275 | +11 | +22 | -5 |
| 250 | +13 | +34 | -5 |
| 225 | +14 | +27 | +1 |
| 200 | +9 | +23 | +16 |
| 175 | +2 | +11 | +22 |
| 150 | -1 | +1 | +11 |
| 125 | +1 | 0 | -1 |
| 100 | +1 | +2 | +2 |
| 75 | -3 | -2 | +11 |
| 50 | -6 | -9 | +8 |
| 25 | -4 | -10 | -3 |
| 0 | -2 | -6 | -6 |

~~L 400 SOUTH~~

| | % | SUM | F.F. |
|--|-----|-----|------|
| | -8 | | |
| | -4 | -12 | |
| | -6 | -10 | 0 |
| | -6 | -12 | +4 |
| | -8 | -14 | +7 |
| | -11 | -19 | +5 |
| | -8 | -19 | -5 |
| | -6 | -14 | -9 |
| | -4 | -10 | -11 |
| | +1 | -3 | -17 |
| | +6 | +7 | -19 |
| | +10 | +16 | -16 |
| | +10 | +23 | -9 |
| | +13 | +28 | +4 |
| | +12 | +19 | +7 |
| | +7 | +18 | -11 |
| | +11 | +30 | -13 |
| | +19 | +31 | +17 |
| | +12 | +13 | +35 |
| | +1 | -4 | +23 |
| | -5 | -10 | +8 |
| | -5 | | |

L 400 NORTH

| | % | SUM | F.F. |
|--|-----|-----|------|
| | -6 | | |
| | -2 | -8 | |
| | -4 | -4 | -2 |
| | -2 | -6 | +6 |
| | -4 | -10 | +7 |
| | -6 | -13 | 0 |
| | -7 | -10 | -11 |
| | -3 | -2 | -13 |
| | +1 | +3 | -7 |
| | +2 | +5 | -3 |
| | +3 | +6 | 0 |
| | +3 | +5 | +1 |
| | +2 | +5 | -4 |
| | +3 | +9 | -8 |
| | +6 | +13 | -11 |
| | +7 | +20 | -16 |
| | +13 | +29 | -18 |
| | +16 | +38 | -13 |
| | +22 | +47 | -10 |
| | +25 | +48 | +8 |
| | +23 | +39 | +26 |
| | +16 | | |

APPENDIX V



Cnemex Labs Ltd.

212 Brooksbank Ave.
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Canada V7J 2C1

Analytical Chemists • Geochemists • Registered Assayers

Phone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

** CERT. # : A8513459-001-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|-----------------|----|----|----|
| L000 000 | 201 | 19 | 6 | <5 | -- | -- | -- |
| L000 050E | 201 | 28 | 4 | <5 | -- | -- | -- |
| L000 100E | 201 | 17 | 5 | <5 | -- | -- | -- |
| L000 150E | 201 | 9 | 4 | <5 | -- | -- | -- |
| L000 200E | 201 | 16 | 10 | <5 | -- | -- | -- |
| L000 250E | 201 | 10 | 6 | <5 | -- | -- | -- |
| L000 300E | 201 | 15 | 5 | <5 | -- | -- | -- |
| L000 350E | 201 | 31 | 9 | <5 | -- | -- | -- |
| L000 400E | 201 | 17 | 4 | <5 | -- | -- | -- |
| L000 450E | 201 | 14 | 3 | <5 | -- | -- | -- |
| L000 500E | 201 | 17 | 6 | <5 | -- | -- | -- |
| L000 050W | 201 | 33 | 6 | <5 | -- | -- | -- |
| L000 100W | 201 | 12 | 7 | <5 | -- | -- | -- |
| L000 150W | 201 | 21 | 7 | <5 | -- | -- | -- |
| L000 200W | 201 | 20 | 6 | 10 | -- | -- | -- |
| L000 250W | 201 | 8 | 3 | <5 | -- | -- | -- |
| L000 300W | 201 | 16 | 9 | 5 | -- | -- | -- |
| L000 350W | 201 | 11 | 7 | 50 | -- | -- | -- |
| L000 400W | 201 | 19 | 10 | <5 | -- | -- | -- |
| L000 500W | 201 | 10 | 8 | <5 | -- | -- | -- |
| L050N 000 | 201 | 24 | 5 | <5 | -- | -- | -- |
| L050N 050E | 201 | 17 | 7 | <5 | -- | -- | -- |
| L050N 100E | 201 | 17 | 12 | <5 | -- | -- | -- |
| L050N 150E | 201 | 14 | 9 | <5 | -- | -- | -- |
| L050N 200E | 201 | 16 | 7 | <5 | -- | -- | -- |
| L050N 250E | 201 | 22 | 10 | <5 | -- | -- | -- |
| L050N 300E | 201 | 17 | 9 | <5 | -- | -- | -- |
| L050N 350E | 201 | 13 | 5 | <5 | -- | -- | -- |
| L050N 400E | 201 | 26 | 10 | 10 | -- | -- | -- |
| L050N 450E | 217 | 17 | 3 | <5 | -- | -- | -- |
| L050N 500E | 201 | 22 | 6 | <5 | -- | -- | -- |
| L050N 050W | 201 | 5 | 2 | <5 | -- | -- | -- |
| L050N 100W | 201 | 23 | 7 | 5 | -- | -- | -- |
| L050N 150W | 217 | 15 | 2 | <5 | -- | -- | -- |
| L050N 250W | 201 | 12 | 10 | <5 | -- | -- | -- |
| L050N 300W | 201 | 10 | 8 | <5 | -- | -- | -- |
| L050N 350W | 201 | 11 | 10 | <5 | -- | -- | -- |
| L050N 400W | 201 | 13 | 9 | <5 | -- | -- | -- |
| L050N 450W | 201 | 11 | 6 | <5 | -- | -- | -- |
| L050N 500W | 201 | 10 | 5 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

** CERT. # : A8513459-002-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L050S 000 | 201 | 16 | 1 | <5 | -- | -- | -- |
| L050S 050E | 201 | 17 | 1 | <5 | -- | -- | -- |
| L050S 100E | 201 | 13 | 4 | <5 | -- | -- | -- |
| L050S 150E | 201 | 11 | 7 | <5 | -- | -- | -- |
| L050S 200E | 201 | 12 | 5 | <5 | -- | -- | -- |
| L050S 250E | 201 | 10 | 3 | <5 | -- | -- | -- |
| L050S 300E | 201 | 10 | 5 | <5 | -- | -- | -- |
| L050S 350E | 201 | 13 | 5 | <5 | -- | -- | -- |
| L050S 400E | 201 | 12 | 3 | <5 | -- | -- | -- |
| L050S 450E | 201 | 13 | 5 | <5 | -- | -- | -- |
| L050S 500E | 201 | 20 | 3 | <5 | -- | -- | -- |
| L050S 050W | 201 | 23 | 5 | <5 | -- | -- | -- |
| L050S 100W | 201 | 23 | 4 | <5 | -- | -- | -- |
| L050S 150W | 201 | 20 | 3 | <5 | -- | -- | -- |
| L050S 200W | 201 | 18 | 3 | <5 | -- | -- | -- |
| L050S 250W | 201 | 18 | 4 | <5 | -- | -- | -- |
| L050S 300W | 201 | 7 | 4 | <5 | -- | -- | -- |
| L050S 350W | 201 | 9 | 4 | <5 | -- | -- | -- |
| L050S 400W | 201 | 10 | 9 | <5 | -- | -- | -- |
| L050S 450W | 201 | 9 | 3 | <5 | -- | -- | -- |
| L050S 500W | 201 | 12 | 5 | <5 | -- | -- | -- |
| L100N 050E | 201 | 18 | 4 | <5 | -- | -- | -- |
| L100N 100E | 201 | 10 | 6 | <5 | -- | -- | -- |
| L100N 150E | 201 | 13 | 9 | <5 | -- | -- | -- |
| L100N 200E | 201 | 11 | 7 | <5 | -- | -- | -- |
| L100N 250E | 201 | 10 | 4 | <5 | -- | -- | -- |
| L100N 300E | 201 | 15 | 4 | <5 | -- | -- | -- |
| L100N 350E | 201 | 35 | 9 | <5 | -- | -- | -- |
| L100N 400E | 217 | 21 | 1 | <5 | -- | -- | -- |
| L100N 500E | 201 | 20 | 2 | <5 | -- | -- | -- |
| L100N 050W | 201 | 24 | 4 | <5 | -- | -- | -- |
| L100N 100W | 201 | 21 | 3 | <5 | -- | -- | -- |
| L100N 150W | 217 | 19 | 3 | <5 | -- | -- | -- |
| L100N 200W | 201 | 12 | 1 | <5 | -- | -- | -- |
| L100N 250W | 201 | 10 | 8 | <5 | -- | -- | -- |
| L100N 300W | 201 | 8 | 4 | <5 | -- | -- | -- |
| L100N 350W | 201 | 8 | 6 | <5 | -- | -- | -- |
| L100N 400W | 201 | 11 | 6 | <5 | -- | -- | -- |
| L100N 450W | 201 | 11 | 8 | <5 | -- | -- | -- |
| L100N 500W | 201 | 9 | 7 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

** CERT. # : A8513459-003-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L100S 000 | 201 | 13 | 3 | <5 | -- | -- | -- |
| L100S 050E | 201 | 10 | 7 | <5 | -- | -- | -- |
| L100S 100E | 201 | 12 | 6 | <5 | -- | -- | -- |
| L100S 150E | 201 | 12 | 7 | <5 | -- | -- | -- |
| L100S 200E | 201 | 7 | 8 | <5 | -- | -- | -- |
| L100S 250E | 201 | 17 | 8 | <5 | -- | -- | -- |
| L100S 300E | 201 | 9 | 10 | <5 | -- | -- | -- |
| L100S 350E | 201 | 20 | 8 | <5 | -- | -- | -- |
| L100S 400E | 201 | 19 | 9 | <5 | -- | -- | -- |
| L100S 450E | 201 | 8 | 7 | <5 | -- | -- | -- |
| L100S 500E | 201 | 13 | 7 | <5 | -- | -- | -- |
| L100S 050W | 217 | 21 | 67 | 5 | -- | -- | -- |
| L100S 100W | 201 | 18 | 3 | <5 | -- | -- | -- |
| L100S 150W | 217 | 18 | 4 | <5 | -- | -- | -- |
| L100S 200W | 201 | 11 | 2 | <5 | -- | -- | -- |
| L100S 250W | 217 | 14 | 2 | <5 | -- | -- | -- |
| L100S 300W | 201 | 14 | 5 | <5 | -- | -- | -- |
| L100S 350W | 201 | 8 | 3 | <5 | -- | -- | -- |
| L100S 400W | 201 | 9 | 6 | <5 | -- | -- | -- |
| L100S 450W | 201 | 6 | 8 | <5 | -- | -- | -- |
| L100S 500W | 201 | 9 | 3 | 10 | -- | -- | -- |
| L150N 000 | 201 | 21 | 5 | 10 | -- | -- | -- |
| L150N 100E | 201 | 17 | 7 | <5 | -- | -- | -- |
| L150N 150E | 201 | 10 | 6 | <5 | -- | -- | -- |
| L150N 200E | 201 | 9 | 4 | <5 | -- | -- | -- |
| L150N 250E | 201 | 30 | 4 | <5 | -- | -- | -- |
| L150N 300E | 201 | 8 | 1 | <5 | -- | -- | -- |
| L150N 350E | 201 | 19 | 5 | <5 | -- | -- | -- |
| L150N 400E | 201 | 22 | 6 | <5 | -- | -- | -- |
| L150N 450E | 201 | 23 | 7 | <5 | -- | -- | -- |
| L150N 500E | 201 | 19 | 3 | <5 | -- | -- | -- |
| L150N 150W | 201 | 20 | 7 | <5 | -- | -- | -- |
| L150N 200W | 201 | 12 | 3 | 15 | -- | -- | -- |
| L150N 250W | 201 | 14 | 2 | 25 | -- | -- | -- |
| L150N 300W | 201 | 10 | 2 | <5 | -- | -- | -- |
| L150N 350W | 201 | 10 | 4 | <5 | -- | -- | -- |
| L150N 400W | 201 | 10 | 3 | 10 | -- | -- | -- |
| L150N 450W | 201 | 9 | 7 | <5 | -- | -- | -- |
| L150N 500W | 201 | 10 | 5 | <5 | -- | -- | -- |
| L150S 000 | 201 | 6 | 3 | <5 | -- | -- | -- |

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** CERT. # : A8513459-004-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

| Sample description | Prep code | Cu ppm | Pb opm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L150S 050E | 201 | 11 | 5 | <5 | -- | -- | -- |
| L150S 100E | 201 | 8 | 8 | <5 | -- | -- | -- |
| L150S 150E | 201 | 11 | 6 | <5 | -- | -- | -- |
| L150S 200E | 201 | 7 | 5 | <5 | -- | -- | -- |
| L150S 250E | 201 | 9 | 5 | <5 | -- | -- | -- |
| L150S 300E | 201 | 13 | 9 | <5 | -- | -- | -- |
| L150S 350E | 201 | 11 | 7 | 10 | -- | -- | -- |
| L150S 400E | 201 | 10 | 5 | <5 | -- | -- | -- |
| L150S 450E | 217 | 11 | 6 | 15 | -- | -- | -- |
| L150S 050W | 201 | 6 | 4 | <5 | -- | -- | -- |
| L150S 100W | 201 | 19 | 2 | <5 | -- | -- | -- |
| L150S 150W | 201 | 13 | 4 | 15 | -- | -- | -- |
| L150S 200W | 201 | 18 | 5 | <5 | -- | -- | -- |
| L150S 300W | 201 | 12 | 5 | <5 | -- | -- | -- |
| L150S 350W | 201 | 14 | 6 | <5 | -- | -- | -- |
| L150S 400W | 201 | 9 | 6 | <5 | -- | -- | -- |
| L150S 450W | 201 | 12 | 10 | <5 | -- | -- | -- |
| L150S 500W | 201 | 8 | 9 | <5 | -- | -- | -- |
| L200N 050E | 201 | 21 | 7 | <5 | -- | -- | -- |
| L200N 100E | 201 | 16 | 7 | 5 | -- | -- | -- |
| L200N 250E | 201 | 20 | 6 | 30 | -- | -- | -- |
| L200N 300E | 201 | 21 | 7 | <5 | -- | -- | -- |
| L200N 350E | 201 | 32 | 9 | <5 | -- | -- | -- |
| L200N 400E | 201 | 40 | 2 | <5 | -- | -- | -- |
| L200N 450E | 201 | 10 | 5 | <5 | -- | -- | -- |
| L200N 500E | 201 | 14 | 4 | <5 | -- | -- | -- |
| L200N 050W | 201 | 20 | 5 | <5 | -- | -- | -- |
| L200N 100W | 201 | 11 | 6 | <5 | -- | -- | -- |
| L200N 150W | 201 | 13 | 5 | <5 | -- | -- | -- |
| L200N 200W | 201 | 21 | 9 | 5 | -- | -- | -- |
| L200N 250W | 201 | 11 | 3 | <5 | -- | -- | -- |
| L200N 300W | 201 | 20 | 5 | <5 | -- | -- | -- |
| L200N 350W | 201 | 14 | 7 | <5 | -- | -- | -- |
| L200N 400W | 201 | 18 | 7 | <5 | -- | -- | -- |
| L200N 500W | 201 | 10 | 7 | <5 | -- | -- | -- |
| L200S 000 | 201 | 9 | 6 | <5 | -- | -- | -- |
| L200S 100E | 201 | 10 | 8 | <5 | -- | -- | -- |
| L200S 200E | 201 | 12 | 8 | <5 | -- | -- | -- |
| L200S 250E | 201 | 8 | 7 | <5 | -- | -- | -- |
| L200S 300E | 201 | 13 | 7 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

** CERT. # : A8513459-005-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L200S 350E | 201 | 12 | 9 | <5 | -- | -- | -- |
| L200S 400E | 201 | 14 | 8 | <5 | -- | -- | -- |
| L200S 450E | 201 | 10 | 7 | <5 | -- | -- | -- |
| L200S 500E | 201 | 9 | 6 | <5 | -- | -- | -- |
| L200S 050W | 201 | 10 | 6 | <5 | -- | -- | -- |
| L200S 100W | 201 | 11 | 9 | <5 | -- | -- | -- |
| L200S 150W | 201 | 10 | 6 | <5 | -- | -- | -- |
| L200S 200W | 201 | 36 | 4 | <5 | -- | -- | -- |
| L200S 250W | 201 | 19 | 6 | <5 | -- | -- | -- |
| L200S 300W | 201 | 22 | 9 | <5 | -- | -- | -- |
| L200S 350W | 201 | 14 | 9 | <5 | -- | -- | -- |
| L200S 400W | 201 | 8 | 6 | <5 | -- | -- | -- |
| L200S 450W | 201 | 8 | 7 | <5 | -- | -- | -- |
| L200S 500W | 201 | 7 | 9 | <5 | -- | -- | -- |
| L250N 000 | 201 | 21 | 5 | <5 | -- | -- | -- |
| L250N 050E | 201 | 19 | 6 | <5 | -- | -- | -- |
| L250N 100E | 201 | 18 | 6 | <5 | -- | -- | -- |
| L250N 150E | 201 | 20 | 10 | <5 | -- | -- | -- |
| L250N 200E | 201 | 14 | 4 | <5 | -- | -- | -- |
| L250N 250E | 201 | 11 | 7 | <5 | -- | -- | -- |
| L250N 300E | 201 | 16 | 9 | <5 | -- | -- | -- |
| L250N 350E | 201 | 31 | 8 | <5 | -- | -- | -- |
| L250N 400E | 201 | 24 | 7 | <5 | -- | -- | -- |
| L250N 450E | 201 | 13 | 6 | <5 | -- | -- | -- |
| L250N 500E | 201 | 17 | 11 | <5 | -- | -- | -- |
| L250N 050W | 201 | 20 | 9 | <5 | -- | -- | -- |
| L250N 100W | 217 | 18 | 5 | <5 | -- | -- | -- |
| L250N 150W | 201 | 19 | 9 | <5 | -- | -- | -- |
| L250N 200W | 201 | 12 | 7 | <5 | -- | -- | -- |
| L250N 250W | 201 | 15 | 8 | <5 | -- | -- | -- |
| L250N 300W | 201 | 20 | 9 | <5 | -- | -- | -- |
| L250N 400W | 201 | 18 | 6 | <5 | -- | -- | -- |
| L250N 450W | 201 | 13 | 5 | <5 | -- | -- | -- |
| L250N 500W | 201 | 19 | 7 | <5 | -- | -- | -- |
| L250S | 201 | 9 | 7 | <5 | -- | -- | -- |
| L250S 000 | 201 | 10 | 8 | <5 | -- | -- | -- |
| L250S 050AE | 201 | 11 | 10 | <5 | -- | -- | -- |
| L250S 050BE | 201 | 8 | 7 | <5 | -- | -- | -- |
| L250S 100E | 201 | 13 | 8 | <5 | -- | -- | -- |
| L250S 150E | 201 | 6 | 5 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

** CERT. # : A8513459-006-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

| Sample description | Prep code | Cu ppm | Pb ppm | AU ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L250S 200E | 201 | 12 | 8 | <5 | -- | -- | -- |
| L250S 300E | 201 | 20 | 10 | <5 | -- | -- | -- |
| L250S 350E | 201 | 10 | 7 | <5 | -- | -- | -- |
| L250S 400E | 201 | 15 | 10 | <5 | -- | -- | -- |
| L250S 450E | 201 | 11 | 6 | <5 | -- | -- | -- |
| L250S 500E | 201 | 10 | 12 | <5 | -- | -- | -- |
| L250S 050W | 201 | 13 | 9 | <5 | -- | -- | -- |
| L250S 100W | 201 | 10 | 5 | <5 | -- | -- | -- |
| L250S 150W | 201 | 14 | 8 | <5 | -- | -- | -- |
| L250S 300W | 201 | 17 | 4 | <5 | -- | -- | -- |
| L250S 350W | 201 | 17 | 8 | <5 | -- | -- | -- |
| L250S 450W | 201 | 8 | 8 | <5 | -- | -- | -- |
| L250S 500W | 201 | 9 | 8 | <5 | -- | -- | -- |
| L300N 000 | 201 | 26 | 10 | <5 | -- | -- | -- |
| L300N 050E | 201 | 24 | 9 | <5 | -- | -- | -- |
| L300N 100E | 201 | 26 | 10 | <5 | -- | -- | -- |
| L300N 150E | 201 | 22 | 9 | <5 | -- | -- | -- |
| L300N 200E | 201 | 28 | 12 | <5 | -- | -- | -- |
| L300N 350E | 201 | 18 | 7 | <5 | -- | -- | -- |
| L300N 400E | 201 | 13 | 10 | <5 | -- | -- | -- |
| L300N 450E | 201 | 35 | 13 | <5 | -- | -- | -- |
| L300N 500E | 201 | 19 | 9 | <5 | -- | -- | -- |
| L300N 050W | 201 | 15 | 5 | <5 | -- | -- | -- |
| L300N 100W | 201 | 17 | 9 | <5 | -- | -- | -- |
| L300N 200W | 201 | 12 | 7 | <5 | -- | -- | -- |
| L300N 250W | 201 | 10 | 3 | <5 | -- | -- | -- |
| L300N 300W | 201 | 15 | 5 | <5 | -- | -- | -- |
| L300N 350W | 201 | 22 | 9 | <5 | -- | -- | -- |
| L300N 400W | 201 | 16 | 1 | <5 | -- | -- | -- |
| L300N 450W | 201 | 17 | 9 | <5 | -- | -- | -- |
| L300N 500W | 201 | 21 | 5 | <5 | -- | -- | -- |
| L300S 000 | 201 | 12 | 7 | <5 | -- | -- | -- |
| L300S 050E | 201 | 10 | 7 | <5 | -- | -- | -- |
| L300S 100E | 201 | 18 | 7 | <5 | -- | -- | -- |
| L300S 150E | 201 | 10 | 7 | <5 | -- | -- | -- |
| L300S 200E | 201 | 12 | 6 | <5 | -- | -- | -- |
| L300S 250E | 201 | 14 | 7 | <5 | -- | -- | -- |
| L300S 300E | 201 | 12 | 6 | <5 | -- | -- | -- |
| L300S 350E | 201 | 15 | 5 | <5 | -- | -- | -- |
| L300S 400E | 201 | 10 | 7 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

** CERT. # : A8513459-007-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L300S 450E | 201 | 11 | 7 | <5 | -- | -- | -- |
| L300S 500AE | 201 | 12 | 7 | <5 | -- | -- | -- |
| L300S 500BE | 201 | 13 | 9 | <5 | -- | -- | -- |
| L300S 100W | 201 | 18 | 7 | <5 | -- | -- | -- |
| L300S 150W | 201 | 8 | 8 | <5 | -- | -- | -- |
| L300S 200W | 201 | 11 | 5 | <5 | -- | -- | -- |
| L300S 250W | 201 | 8 | 5 | <5 | -- | -- | -- |
| L300S 300W | 201 | 6 | 5 | <5 | -- | -- | -- |
| L300S 350W | 201 | 5 | 1 | <5 | -- | -- | -- |
| L300S 400W | 201 | 12 | 7 | <5 | -- | -- | -- |
| L300S 450W | 201 | 15 | 4 | <5 | -- | -- | -- |
| L300S 500W | 201 | 13 | 8 | <5 | -- | -- | -- |
| L400N 000 | 201 | 15 | 3 | <5 | -- | -- | -- |
| L400N 050E | 201 | 17 | 10 | <5 | -- | -- | -- |
| L400N 100E | 201 | 14 | 4 | <5 | -- | -- | -- |
| L400N 150E | 201 | 15 | 3 | <5 | -- | -- | -- |
| L400N 200E | 201 | 15 | 5 | <5 | -- | -- | -- |
| L400N 250E | 201 | 13 | 4 | <5 | -- | -- | -- |
| L400N 300E | 201 | 8 | 4 | <5 | -- | -- | -- |
| L400N 350E | 201 | 36 | 9 | <5 | -- | -- | -- |
| L400N 400E | 201 | 17 | 6 | 10 | -- | -- | -- |
| L400N 450E | 201 | 12 | 3 | <5 | -- | -- | -- |
| L400N 050W | 201 | 22 | 4 | <5 | -- | -- | -- |
| L400N 100W | 201 | 21 | 4 | <5 | -- | -- | -- |
| L400N 150W | 201 | 35 | 8 | <5 | -- | -- | -- |
| L400N 200W | 201 | 31 | 3 | <5 | -- | -- | -- |
| L400N 250W | 201 | 21 | 7 | <5 | -- | -- | -- |
| L400N 300W | 201 | 20 | 7 | <5 | -- | -- | -- |
| L400N 350W | 201 | 16 | 4 | <5 | -- | -- | -- |
| L400N 400W | 201 | 33 | 3 | <5 | -- | -- | -- |
| L400N 450AW | 201 | 21 | 7 | <5 | -- | -- | -- |
| L400N 450BW | 201 | 12 | 6 | <5 | -- | -- | -- |
| L400N 500W | 201 | 18 | 3 | <5 | -- | -- | -- |
| L400S 000 | 201 | 8 | 5 | <5 | -- | -- | -- |
| L400S 050E | 201 | 14 | 8 | <5 | -- | -- | -- |
| L400S 100E | 201 | 9 | 8 | <5 | -- | -- | -- |
| L400S 150E | 201 | 11 | 8 | <5 | -- | -- | -- |
| L400S 200E | 201 | 18 | 7 | <5 | -- | -- | -- |
| L400S 250E | 201 | 20 | 6 | <5 | -- | -- | -- |
| L400S 300E | 201 | 16 | 7 | <5 | -- | -- | -- |

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CERTIFICATE OF ANALYSIS

TO : DONEGAL DEVELOPMENT LIMITED

222 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

** CERT. # : A8513459-008-A
INVOICE # : I8513459
DATE : 10-JUL-85
P.O. # : NONE
J-7-85

| Sample description | Prep code | Cu ppm | Pb ppm | Au ppb FA+AA | | | |
|--------------------|-----------|--------|--------|--------------|----|----|----|
| L400S 350E | 201 | 12 | 7 | <5 | -- | -- | -- |
| L400S 400E | 201 | 12 | 6 | <5 | -- | -- | -- |
| L400S 450E | 201 | 7 | 6 | <5 | -- | -- | -- |
| L400S 050W | 201 | 13 | 5 | <5 | -- | -- | -- |
| L400S 100W | 201 | 7 | 3 | <5 | -- | -- | -- |
| L400S 150W | 201 | 17 | 3 | <5 | -- | -- | -- |
| L400S 200W | 201 | 6 | 9 | <5 | -- | -- | -- |
| L400S 250W | 201 | 7 | 9 | <5 | -- | -- | -- |
| L400S 300W | 201 | 5 | 6 | <5 | -- | -- | -- |
| L400S 350W | 201 | 6 | 9 | <5 | -- | -- | -- |
| L400S 400W | 201 | 7 | 6 | <5 | -- | -- | -- |
| L400S 500W | 201 | 13 | 5 | <5 | -- | -- | -- |
| BL 350N 00 | 201 | 19 | 8 | <5 | -- | -- | -- |
| BL 350S 00 | 201 | 8 | 8 | <5 | -- | -- | -- |
| BL 450N 00 | 201 | 18 | 5 | <5 | -- | -- | -- |
| BL 450S 00 | 201 | 7 | 8 | <5 | -- | -- | -- |
| BL 500N 00 | 201 | 21 | 5 | <5 | -- | -- | -- |
| BL 500S 00 | 201 | 9 | 10 | <5 | -- | -- | -- |

Hart Buchler

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CERTIFICATION

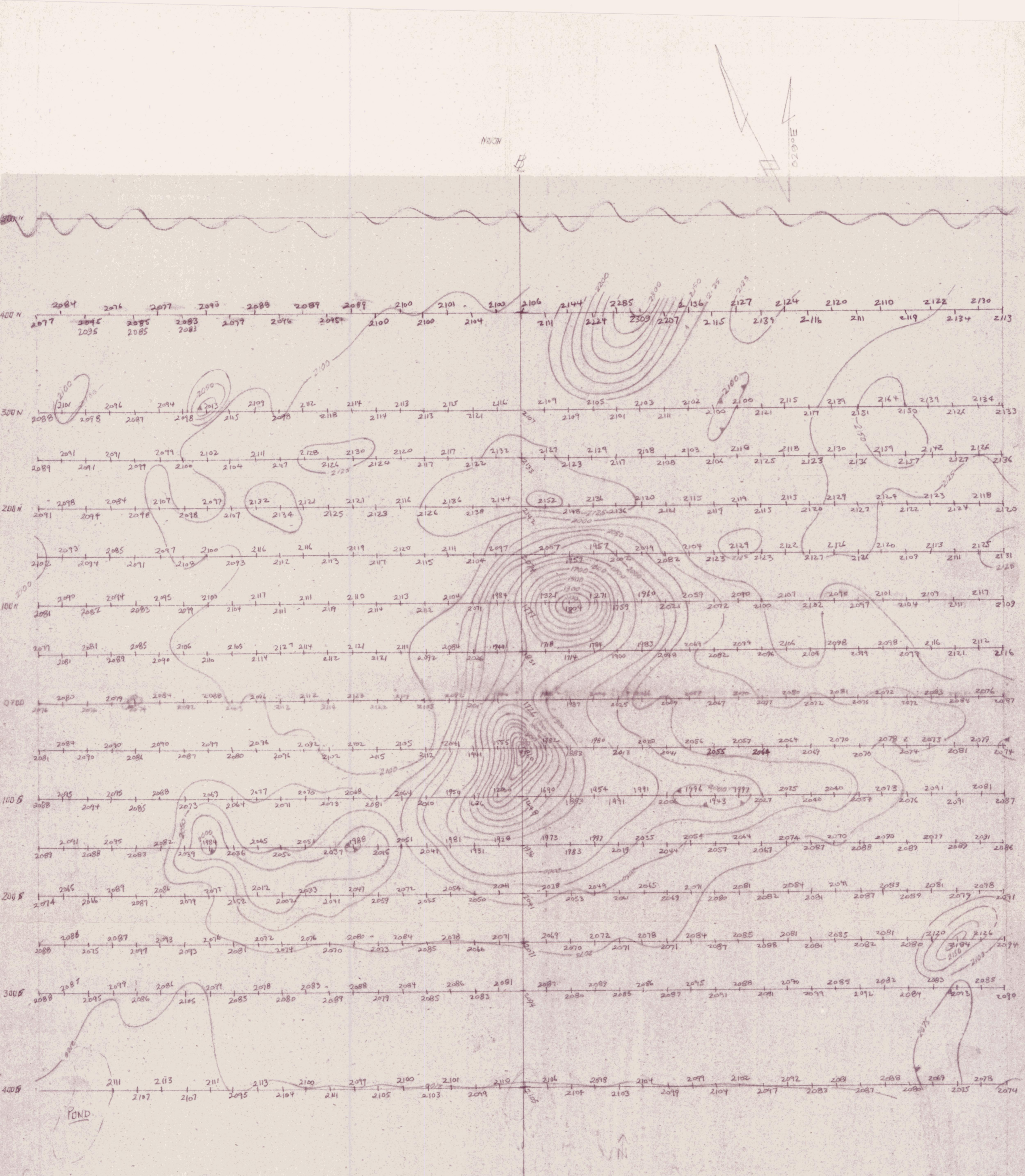
I, RONALD F. SHELDRAKE, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am President of Apex Airborne Surveys Ltd., a company incorporated under the laws of the Province of British Columbia.
2. The Vancouver office of Apex Airborne Surveys Ltd. is located at Suite 810 - 625 Howe Street, Vancouver British Columbia.
3. I received my degree in Geophysics (B.Sc.) from the University of British Columbia in May 1974.
4. I have practised my profession since that date.
5. I have interest in the properties or claims of GALLAGHER RESOURCES LTD. in that I am a shareholder and director of Gallagher.

April 10, 1986

Ronald F. Sheldrake

Apex Airborne Surveys Ltd.

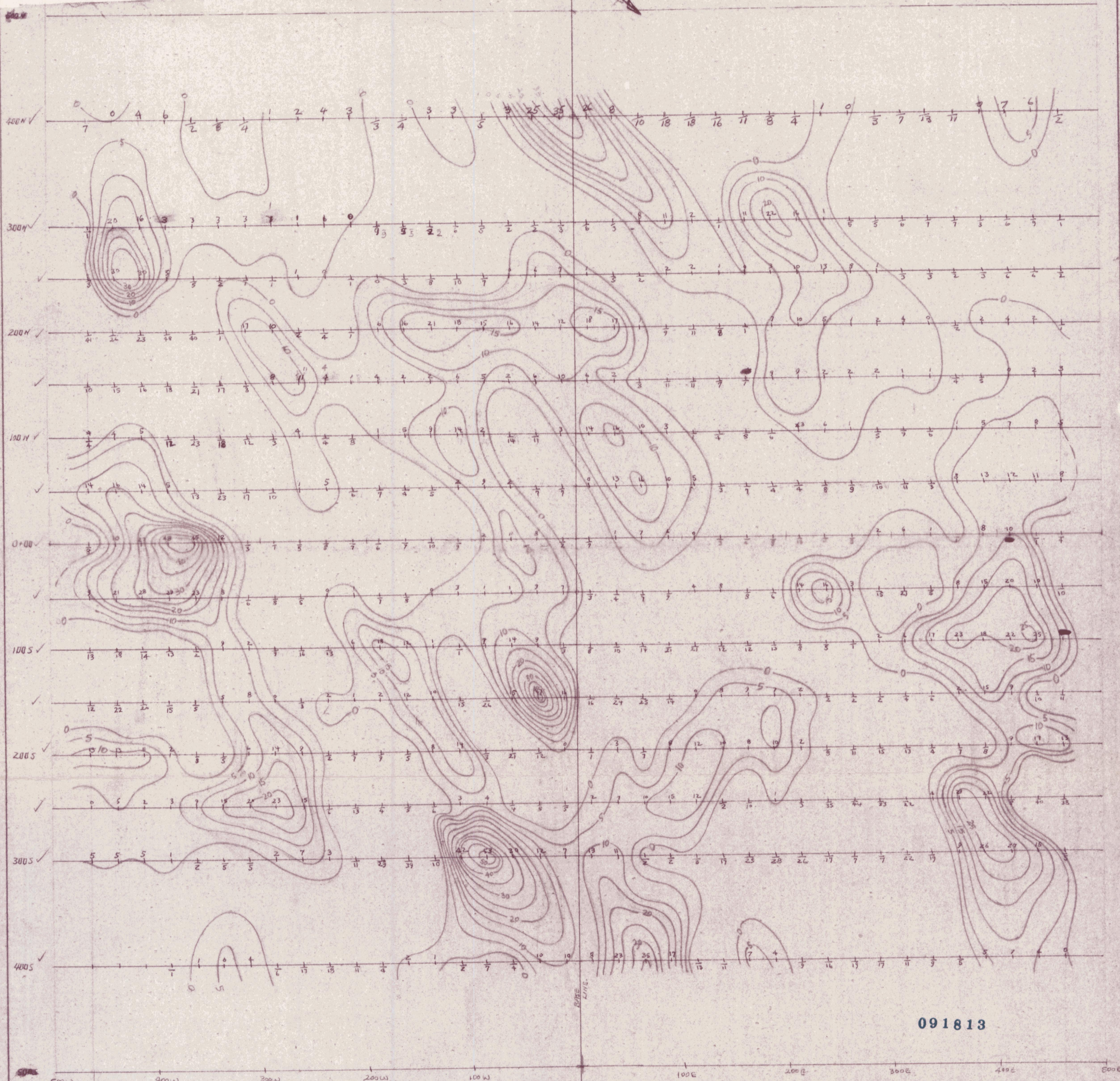
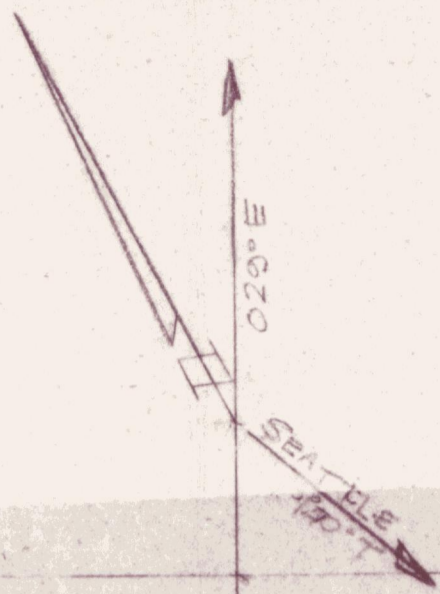


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PLATE 1
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 TOTAL FIELD LESS 56,000 GAMMAS
 GAL CLAIMS -YT

SCALE 1:2500
 CONTOUR INTERVAL 25 & 100
 (AS INDICATED)

APEX AIRBORNE SURVEYS LTD APRIL 1986



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PLATE 2
GALLAGHER RESOURCES LTD.
FRASER-FILTERED VLF-SEATTLE
FACING WEST
GAL CLAIMS -Y.T.

SCALE 1:2500

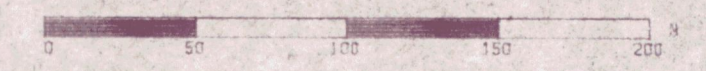
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PLATE 3.

APEX AIRBORNE SURVEYS LTD.
 GALLAGHER RESOURCES LTD.
 GAL CLAIMS YUKON TERRITORY
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 SCALE 1: 2500.0



DATE: APRIL 1986. PREPARED BY R.T. McLEOD

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