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1974 Property Report

LENNAC LAKE DRILL PROGRAM, TITLE March-April, 1974 C.J. Hodgson AUTHOR June, 1974 DATE Cu COMMODITY Babine Lake LOCATION-Area -Mining Division Omineca Latitude 54°45'N Longitude 126°19'W -Coordinates 93 L 9, 16 -NTS Prospect Drilled

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SUMMARY

The Lennac Lake Copper Property, consisting of 132 claims (Thezar 1 - 132 inclusive) is located in Central British Columbia at latitude 54°45'N and longitude 126°19'. It is readily accessible via the Babine Lake Road and by 4-mile bush road constructed by AMAX in the fall of 1971.

The prospect was discovered by AMAX field crews in 1971, and was grid percussion drilled in 1973 under a joint venture agreement between Amax Potash Limited, Standard Oil Company of British Columbia, and the LUC Syndicate of Vancouver. The results of the percussion drilling were considered sufficiently encouraging to warrant a program of follow-up diamond drilling which is the basis of this report.

Between March 18 and April 7, 1974, a total of 3,017 feet were drilled in five holes utilizing a BQ wireline drill in the West Zone of the property. All holes were spotted within an area 1,000 feet in d'an ter which, on the basis of four 1973 percussion holes, grades 40.2% Cu. The aims of the drill program were (1) to test the +0.2% Cu zone to a depth of 600 feet, since several percussion holes showed improved copper grade towards the bottom at 300 feet; (2) to determine the reliability of percussion sample assays; and (3) to test the assumed westerly extension on the +0.2% Cu zone beneath Camp Lake.

Three vertical holes (LL-74-1, 2, 5) were drilled east of Camp Lake, and two inclined holes (LL-74-3, 4) were drilled beneath the lake from the east shore.

Assay highlights from the drilling are as follows:

| Hole | Interval | Length | | Grade |
|---------|----------|--------|---|---------------------|
| LL-74-1 | 14-60' | 46' | 9 | 0.25% Cu |
| | 200-380' | 180' | 9 | 0.35% Cu, 0.003% Mo |
| | 450-480' | 30' | 9 | 0.33% Cu, 0.013% Mo |
| LL-74-2 | 390-606' | 216' | ල | 0.25% Cu, 0.01% Mo |
| | 570-606' | 36' | ල | 0.33% Cu, 0.01% Mo |

| LL-74-3 | 98-127.5' | 129.5' | Q | 0.34% Cu, | 0.003% Mo |
|---------|---------------------------|---------------|--------|-----------------------|-----------|
| | 456 - 477 ' | 21' | Q | 0.69% Cu, | 0.005% Mc |
| | 540-590' | 50' | Q | 0.31% Cu, | 0.006% Mo |
| LL-74-4 | No significant | intersections | | | |
| LL-74-5 | 310-390' 540-590' | 80' 50' | @ @ | 0.28% Cu, 0.26% Cu | 0.004% Mo |

Molybdenite is associated with copper in amounts ranging from 0.003% Mo to 0.013% Mo over the total width of the best copper sections. Composite samples grading +0.3% Cu were re-assayed for silver and gold. These elements ran <0.01% oz./ton and trace respectively.

Comparison of assays from percussion holes LL-73-6 with those in the upper 300 feet of diamond drill hole LL-74-1 suggest that the 1973 percussion assays should be upgraded by 10% of their respective values.

Detailed core logging revealed three separate intrusive phases on the property: early biotite-quartz-feldspar porphyry (BFP), porphyritic quartz diorite, and late post-mineral amphibole-quartzfeldspar porphyry (PMP). The first two phases are mineralized with pyrite, chalcopyrite and minor molybdenite, occurring as disseminations, in quartz veins and on "dry" hairline fractures. Both phases show moderate K feldspar-biotite alteration together with the adjacent intruded Hazelton andesite flows and pyroclastics. Post-Mineral Porphyry post dates both alteration and mineralization although minor molybdenite and chalcopyrite-bearing quartz veins are present. This phase was most prominent in LL-74-3 east of Camp Lake.

CONCLUSIONS AND RECOMMENDATIONS

The program can be considered a limited success in that a narrow (150 feet wide) zone grading 0.35% Cu was intersected in three of the five holes drilled. This higher grade zone within the +0.2% Cu zone dips 35 to 40° to the northeast and is traceable for about 1,000 feet down dip. However, continuity along strike has not been demonstrated. Assuming dimensions of 1,000 x 150 x 400 feet, the zone contains a possible 4 x 10^{6} tons.

Cupriferous zones are preferentially located adjacent to intrusive contacts, although information is inadequate at present to say whether the main 0.35% Cu zone referred to above is localized by the Hazelton-BFP contact or by the BFP-PMP contact. On the basis of scant information from the 1973 percussion drilling it would appear that the northeastward dip of the main intrusive contact is due to tilting of the entire stock rather than to a quaquaversal doming of the stock.

Possible extensions of the 0.35% Cu zone exist north of LL-74-3 and west of LL-73-7, on the west side of the post-mineral porphyry phase beneath Camp Lake and at depth beneath LL-74-2 and further northeastward. It is conceivable that we are looking at the very top of a cylindrical porphyry system which shows topward thinning of the ore zone.

To test the above possibilities would require an additional three holes totalling about 2,000 feet; a westerly inclined hole spotted 400 feet north of LL-74-3, an extension of LL-74-2 to about 1,000 feet, and possibly a third hole inclined easterly from the western shore of Camp Lake.

INTRODUCTION

General Statement

This report presents the results of a diamond drilling program conducted on the Lennac Lake property in March and April, 1974, during which five holes were drilled for a total tootage of 3,017 feet. The program was carried out under a joint venture agreement between Amax Potash Limited, Standard Oil Company of British Columbia, and the LUC Syndicate of Vancouver.

The Lennac Lake property is located in Central British Columbia at latitude 54°45'N, longitude 126°19'. It is readily accessible via the Babine Lake Road and by a four mile road constructed by AMAX in the fall of 1971 (Figure 1).

The prospect was discovered by AMAX prospecting crews in 1971. Detailed geological mapping, geochemical sampling and induced polarization surveys carried out in 1971 and 1972 indicated the presence of a porphyry copper-type target similar in gross aspects to the currently producing Granisle and Bell Copper Mines in the Babine Lake area. In 1973, 44 percussion holes totalling 11,360 feet were drilled on a grid basis in the West and East Zones. The main conclusions derived from this program were as follows:

1. The West (Main) Zone contains an area about 2,500 feet in diameter which grades +0.1% Cu.

2. Within the above area is a crescent-shaped area about 1,000 feet in diameter which contains +0.2% Cu. Four percussion holes in this area all graded between 0.20% and 0.22% Cu over their 300-foot length.

3. Two holes in the East Zone 400 feet apart averaged 0.17% Cu and 0.11% Cu respectively.

Background information to the current program is detailed in AMAX reports by Leary (1972), DePaoli (1972) and Silversides (January, 1973; December, 1973).



1974 Program

Results of the 1973 percussion drilling in the West Zone were considered sufficiently encouraging to warrant additional testing in the form of BQ diamond drilling, the main purposes of which were: 1) To determine the reliability of percussion sample assays.

2) To test the +0.2% Cu zone to a depth of at least 600 feet, since several percussion holes within the zone showed improved grades at depth.

To test the assumed westerly extension of the +0.2%
 Cu zone beneath Camp Lake.

The drill contract was let to D.W. Coates Enterprises Ltd. of Vancouver, who utilized a BQ wireline drill capable of a depth penetration of 1500 feet.

Drill sites were located as follows:

- one vertical hole adjacent to LL-73-6 to determine the vertical extent of +0.5% Cu grades at the bottom of that hole, and to provide a comparison between assays of percussion and diamond drill samples
- one vertical hole in the triangle between LL-73-4, 5 and 21, all of which percussion holes average +0.2% Cu
- one vertical hole between LL-73-21 and 22 to determine the northeasterly extent of the +0.2% Cu zone, whose major axis trends in that direction, and to provide a check on the better-than-average Mo and Cu grades towards the bottom of LL-73-21
- two holes beneath Camp Lake to test (a) the assumed westerly extension of the +0.2% Cu zone beneath the lake, and (b) to test the central induced polarization chargeability low area in the south part of the lake. By analogy with other Babine Lake copper deposits, a central low-sulphide, bornite zone was considered to be a reasonable possibility in this area. Due to the soft

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condition of the ice at the time of drilling, both of these holes were drilled as -45° inclined holes from the east shore of the lake, rather than as vertical holes through the ice.

Supervision was provided by the writer, assisted by N. Sworyk of Houston, B.C. Core was split, bagged, and shipped to Rossbacher Laboratory, Burnaby for Cu analysis. Samples with ≥0.3% Cu were subsequently assayed for Mo. Drill core from the project is currently in storage at the AMAX warehouse in Smithers. A total of 3,017 feet were drilled in five holes between March 18 and April 7, 1974. Core recovery was essentially 100 per cent in all holes except LL-74-2, where core loss in two shear zones between 108-120 and 150-209 feet reduced over all recovery to 96%.

Claim Status

The Lennac Lake property consists of 132 claims known as Thezar #1 - #132 inclusive. The claims were regrouped (Groups A, B, C, D) on July 18, 1973.

Cost of the March, 1974 drilling program was applied as three years' assessment to each of the 58 centrally located claims (see Table 1, Figure 2). Rental payments were made on the same claims to cover the three year period July 27, 1974 to July 27, 1977. One year's rental payment was made on each of the peripheral claims, together with one year's assessment on 29 of the 74 peripheral claims.

TABLE I

STATUS OF THEZAR CLAIMS AS OF JULY 19, 1974

| Claim Number | Record Number | Anniversary Due Date | Rental Due | Group |
|----------------|------------------------|-------------------------|---------------|-------|
| Thezar 1-10 | 100129-100138 | July 27.1975 | July 27.1975 | No. 2 |
| 11-22 | 100139-100150 | July 27,1975 | July 27,1975 | No. 4 |
| 23 - 25 | 100151-100153 | July 27,1975 | July 27,1975 | No. 2 |
| 26 | 100154 | July 27,1981 | July 27,1977 | No. 2 |
| 27 | 100155 | July 27,1977 | July 27,1975 | No. 2 |
| 28 | 100156 | July 27,1981 | July 27,1977 | No. 2 |
| 29 | 100157 | July 27, 1977 | July 27,1975 | No. 2 |
| 30 | 100158 | July 27,1981 | July 27,1975 | No. 1 |
| 31 | 100159 | July 27,1975 | July 27,1975 | No. 2 |
| 32 | 100160 | July 27,1981 | July 27,1977 | No. 1 |
| 33 | 100161 | July 27,1975 | July 27,1975 | No. 4 |
| 34 | 100162 | July 27,1981 | July 27,1977 | No. l |
| 35 | 100163 | July 27,1975 | July 27,1975 | No. 4 |
| 36 | 100164 | July 27,1981 | July 27,1977 | No. 1 |
| 37 | 100165 | July 27,1975 | July 27,1975 | No. 4 |
| 38 | 100166 | July 27,1981 | July 27,1977 | No. 1 |
| 39 | 100167 | July 27,1975 | July 27, 1975 | No. 4 |
| 40 | 100168 | July 27,1981 | July 27,1977 | No. 1 |
| 41 | 100169 | July 27,1975 | July 27,1975 | No. 4 |
| 42 | 100170 | July 27,1976 | July 27,1975 | No. 3 |
| 43 | 100171 | July 27,1975 | July 27, 1975 | No. 4 |
| 44 | 100172 | July 27,1976 | July 27,1975 | No. 3 |
| 45 | 100173 | July 27,1975 | July 27,1975 | No. 2 |
| 46 | 100174 | July 27,1975 | July 27,1975 | No. 2 |
| 47 | 100175 | July 27,1981 | July 27,1977 | No. 2 |
| 48 | 100176 | July 27,1981 | July 27,1977 | No. 2 |
| 49 | 100177 | July 27,1983 | July 27,1977 | No. 1 |
| 50 | 100178 | July 27,1983 | July 27,1977 | No. 2 |
| 51 | 100179 | July 27,1983 | July 27,1977 | No. 1 |
| 52 | 100180 | July 27,1983 | July 27,1977 | No. 2 |
| 53 | 100181 | July 27,1983 | July 27,1977 | No. 1 |
| 54 | 100182 | July 27,1984 | July 27,1978 | No. l |
| 55 - 62 | 100183-100190 | July 27,1983 | July 27,1977 | No. 1 |
| 63 - 66 | 100191 - 100194 | July 27,1976 | July 27,1975 | No. 3 |
| 67 | 100195 | July 27,1975 | July 27,1975 | No. 2 |
| 68 | 100196 | July 27,1975 | July 27,1975 | No. 2 |
| 69 | 100197 | July 27,1981 | July 27,1977 | No. 2 |
| 70 | 100198 | July 27,1981 | July 27,1977 | No. 2 |
| 71 | 100199 | July 27,1983 | July 27,1977 | No. 2 |
| 72 | 100200 | July 27,1983 | July 27,1977 | No. 3 |
| 73 | 100201 | July 27,1983 | July 27,1977 | No. 2 |

| TABLE | I - | Continued |
|-------|-----|-----------|
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| Claim | Number | Record Number | Anniversary Due Date | Rental Due | Group |
|--------|----------------------------|--|--|--|----------------------------------|
| Thezar | 74-76 77-84 85 86 | 100202-100204 100205-100212 100213 100214 | July 27,1983 July 27,1983 July 27,1980 July 27,1980 July 27,1980 | July 27,1977 July 27,1977 July 27,1977 July 27,1977 July 27,1977 | No. 3 No. 1 No. 1 No. 1 |
| | 87 | 100215 | July 27,1976 | July 27,1975 | No. 3 |
| | 88 | 100216 | July 27,1976 | July 27,1975 | No. 3 |
| | 89 | 100217 | July 27,1975 | July 27,1975 | No. 2 |
| | 90 | 100218 | July 27,1975 | July 27,1975 | No. 2 |
| | 91-94 | 100219-100222 | July 27,1983 | July 27,1977 | No. 3 |
| | 95-104 | 100223-100232 | July 27,1983 | July 27,1977 | No. 1 |
| | 105 | 100233 | July 27,1981 | July 27,1977 | No. 1 |
| | 106 | 100234 | July 27,1981 | July 27,1977 | No. 1 |
| | 107-110 | 100235 - 100238 | July 27,1976 | July 27,1975 | No. 3 |
| | 111 | 100239 | July 27,1975 | July 27,1975 | No. 2 |
| | 112 | 100240 | July 27,1975 | July 27,1975 | No. 2 |
| | 113 | 100241 | July 27,1976 | July 27,1975 | No. 3 |
| | 114 | 100242 | July 27,1975 | July 27,1975 | No. 2 |
| | 115 | 100243 | July 27,1975 | July 27,1975 | No. 3 |
| | 116 117 118 | 100243 100244 100245 100246 | July 27,1976 July 27,1975 July 27,1976 July 27,1975 | July 27,1975 July 27,1975 July 27,1975 July 27,1975 | No. 2 No. 3 No. 2 |
| | 119 | 100247 | July 27,1976 | July 27,1975 | No. 3 |
| | 120 | 100248 | July 27,1975 | July 27,1975 | No. 2 |
| | 121 | 100249 | July 27,1976 | July 27,1975 | No. 3 |
| | 122 | 100250 | July 27,1975 | July 27,1975 | No. 2 |
| | 123-132 | 100251-100260 | July 2/,19/6 | July 27,1975 | No. 3 |

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RESULTS OF THE DRILL PROGRAM

540-590'

The following remarks are based on the drill hole logs and sections, assay data, and thin section descriptions which are reproduced as appendices to the report, and on Figure 3 which presents a compilation of the data in plan and profile.

| Hole | Interval | Length | | Grade |
|---------|----------------|--------------|---|---------------------|
| LL-74-1 | 14-60' | 46' | 0 | 0.25% Cu |
| | 200-380' | 180' | 0 | 0.35% Cu, 0.003% Mo |
| | 450-480' | 30' | 0 | 0.33% Cu, 0.013% Mo |
| LL-74-2 | 390-606' | 216' | @ | 0.25% Cu, 0.01% Mo |
| | 570-606' | 36' | @ | 0.33% Cu, 0.01% Mo |
| LL-74-3 | 98-127.5' | 129.5' | 0 | 0.34% Cu, 0.003% Mo |
| | 456-477' | 21' | 0 | 0.69% Cu, 0.005% Mo |
| | 540-590' | 50' | 0 | 0.31% Cu, 0.006% Mo |
| LL-74-4 | No significant | intersection | S | |
| LL-74-5 | 310-390' | 80' | Q | 0.28% Cu, 0.004% Mo |

50**'**

(d

0.26% Cu

Assay Results

The +0.3% Cu intersections in the middle portion of LL-74-1, in the upper portion of LL-74-3, and at the base of LL-74-2 outline a zone 100-150 feet thick which dips moderately $(35-40^{\circ})$ to the northeast and extends down dip for a distance of 1,000 feet. The zone is slightly transgressive to the main BFP-Hazelton contact, occurring entirely within BFP in LL-74-3, straddling the BFP-Hazelton contact in LL-74-1, and occurring largely (?) within Hazelton andesites in LL-74-2, which hole was terminated within the +0.3% Cu zone before the main BFP contact was reached (Figure 3).

This zone was not intersected in either of the two diamond drill holes south of the above panel, although the bottom 50 feet of percussion hole LL-73-5 graded 0.31% Cu. North of the panel, only percussion hole LL-73-7 was drilled anywhere near the presumed strike

extension of the zone. This hole was drilled entirely in Hazelton volcanics, and although grades are low throughout, there is an indication of increasing grade towards the bottom.

Thus a volume of rock measuring 100 feet thick by 1000 feet in down dip extent by, say, 400 feet (?) in strike length, equivalent to about 4 x 10^6 tons, grading 0.35% Cu and 0.005% Mo, has been indicated by the recent drilling.

Comparison of Percussion vs. Diamond Drill Assay Results

Drill hole LL-74-1 was spotted adjacent to LL-73-6 to test, among other things, the assay variance between percussion chip and split drill core samples. The mean assay value over 283 feet (17-300 feet depth) assayed in LL-73-6 was 0.21% Cu, whereas the mean assay value over 286 feet (14-300 feet depth) in LL-74-1 is 0.24% Cu. To determine whether these are statistically significant differences or whether they can be accounted for by a high assay variance between individual 10-foot veins, a Student's "t" test was performed on the two sets of assay data, according to the formula

$$t = \frac{\bar{X}_{1} - \bar{X}_{2}}{s_{p}\sqrt{(1/N_{1}) + (1/N_{2})}}$$
where $\bar{X}_{1} = 0.2075\%$ Cu
 $\bar{X}_{2} = 0.2428\%$ Cu
 $N_{1} = 28$ samples
 $N_{2} = 29$ samples
 $s_{p} = \sqrt{\frac{\left(\leq x_{11}^{2} - \frac{(\leq x_{11})^{2}}{N_{1}} \right) + \left(\leq x_{21}^{2} - \frac{(\leq x_{21})^{2}}{N_{2}} \right)}{N_{1} + N_{2} - 2}}$

Calculating, t = 1.096 for $N_1 + N_2 - 2 = 27$ degrees of freedom, (from Dixon and Massay, 1957, Table A-5), t .80 = 0.855, and t .90 = 1.314.

Thus we can be reasonably certain (i.e. about 85% certain) that the two populations are different. However, since the two holes were drilled a full 25 feet apart, we cannot say whether the difference in population mean is due entirely to differences in the two drilling and sampling methods, or to real differences in copper content of the two holes, or to a combination of these factors.

Tentatively, I would conclude that it is fairly safe to upgrade the 1972 percussion assays by 10% of their value. Such a minimal increase, needless to say, has little effect on the economics of this situation.

Geological Aspects of the Deposit

Several modifications of the previous geological interpretation are required by the drill data. The intrusive stock is somewhat more complex than thought previously in that it is now known to consist of three phases: biotite-quartz-feldspar porphyry (BFP), porphyritic quartz diorite (PQD), and post-mineral amphibolequartz-feldspar porphyry (PMP), in sequence from oldest to youngest.

Biotite-quartz feldspar porphyry is the dominant phase, and may be the only phase exposed in outcrop. It consists of 20-30% euhedral plagioclase phenocrysts ($\stackrel{<}{-}$ 1 cm.), 2-10% euhedral quartz phenocrysts ($\stackrel{<}{-}$ 8 mm.), and 5% biotite (5 mm.). The latter consists of both single chestnut-coloured crystals, and flaky aggregates of green crystals. The latter appear to be pseudomorphs after amphibole, and display typical amphibole rhomb-shaped cross sections. The groundmass is a fine grained mosaic of K-feldspar (25-35%), plagioclase (5%), quartz (25%), with accessory green biotite and chlorite.

Porphyritic quartz diorite (PQD) occurs at depth in holes LL-74-4 and LL-74-5. It differs from BFP in having a slightly coarser groundmass, and smaller and fewer phenocrysts. It is much less uniform in texture, with irregularly alternating sections rich in, and almost devoid of phenocrysts. Mafics display a crude to well-defined foliation which is at high angles to the core axis in

LL-74-5. K-feldspar content of the matrix is low (<10%), and where present leaves the impression of being introduced from adjacent quartz-K feldspar veins. Porphyritic quartz diorite post-date BFP, since numerous BFP fragments were observed as inclusions in this phase in LL-74-5. However, no BFP inclusions were found in the PQD section in LL-74-4.

Post-mineral porphyry (PMP) occurs over a length of 290 feet in LL-74-3, and as a few narrow dykes in LL-74-1 and LL-74-5. It is very similar in appearance to BFP, but in contrast to the latter has an aphanitic to very fine-grained dull grey matrix and phenocrysts of plagioclase ($\leq 1 \text{ cm., } 25\%$), quartz ($\leq 8 \text{ mm., } 6\%$), hornblende (5%), biotite (3%), and apatite (<1%). The rock forms sharp contacts with BFP and truncates quartz-K feldspar-sulphide veins in the latter. BFP inclusions in PMP are common. The phase is very fresh and is the only one in which amphibole is completely unaltered. Large spatite phenocrysts are common in minor amounts in this phase, but were not noted in BFP.

All intrusive phases are texturally more akin to the Tahtsa Lake area porphyries than to the Babine Lake porphyries, and an age date of 77 m.y. on the Lennac Lake porphyry by N. Carter of the B.C. Department of Mines supports this observation. This date is identical to one obtained from the Ox Lake porphyry in the Tahtsa Lake area, and contrasts with the standard 50-55 m.y. dates obtained from other Babine Lake porphyries.

In terms of alteration all five holes were drilled within a moderately well-developed biotite-K feldspar (potassic) zone of alteration. Although the drill logs in a number of places refer to abundant chlorite within the Hazelton flows and fragmentals of andesitic composition, thin sections showed most of this to be fine grained green biotite, which together with plagioclase makes up the bulk of the rock. In BFP and PQD, secondary biotite occurs as fine grained clusters which are pseudomorphous after amphibole. In only

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two thin sections (LL-74-4, 426.5', 524') was any primary amphibole found, the reason for this probably being that both sections are from the low-sulphide core zone of the deposit where potassic alteration is typically weaker (Carson and Jambor, CIM Bull. February, 1974). Biotite occurs rarely in veins; for example, at 142 feet in LL-74-3. Introduced K-feldspar is largely confined to veins (although where a good stockwork is developed may partially fill the intervening areas), forming selvages to quartz veins, occurring alone or with one or several of the minerals; pyrite, chalcopyrite, epidote, chlorite and carbonate.

Other widespread alteration products include sericite, clay, and epidote. Sericite alteration results in a distinctive apple green colouration of the plagioclase phenocrysts in the intrusive rocks. In places it is pervasive (e.g. LL-74-1), but more commonly it is localized over several feet adjacent to barren quartzankerite shear veins and adjacent to contacts (e.g. in PMP adjacent to BFP in LL-74-3, and in BFP adjacent to PQD in LL-74-4). Clay alteration is manifested by a chalky opaque appearance of the plagioclase, and is localized within and adjacent to late stage fractures. Epidote is largely restricted to disseminations and veinlets in andesite, where it is present up to 1/2% and co-exists with K-feldspar, chlorite, carbonate, pyrite and magnetite.

Mineralization consists of chalcopyrite, molybdenite, pyrite, magnetite and rare fluorite, occurring as disseminations, in quartz veins and in dry hairline fractures in BFP, PQD and Hazelton volcanics. The sulphide distribution on average is as follows: 25% in quartz veins, 50% on minor fractures, and 25% disseminated in the rock. Minor skarn development in Hazelton volcanics was noted in one 3.5 foot section between 458 and 461.5 feet in LL-74-3. Here, up to 10% chalcopyrite and 15% pyrite occur with abundant epidote and magnetite within an andesite lense in PMP.

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Chalcopyrite is the only copper sulphide mineral present and occurs in roughly comparable amounts in all units except the PMP, where Cu assays never exceed 0.1%. Chalcopyrite generally tends to be concentrated near contacts: the BFP - andesite contact in LL-74-1 and 2, the PMP-BFP contact in LL-74-3, and PFP - PQD contacts in LL-74-4 and 5.

Pyrite distribution is outlined in fair detail by the induced polarization survey. Proceeding outwards from the central I.P. low, pyrite content in the center (LL-74-4) is about 0.5% with a pyrite/chalcopyrite ratio of 1:1-2. In the best copper sections (e.g. LL-74-1, 3), pyrite averages about 1% with pyrite/chalcopyrite \sim 1/1. In andesites, pyrite jumps to 3-6% with pyrite/chalcopyrite \geq 5/1.

Molybdenite occurs in widely-spaced quartz veins, generally without associated chalcopyrite. No particular distribution pattern is evident, except that molybdenite veins appear to be most abundant in LL- 4-1, and this is reflected in the slightly higher assays there (average 0.010% Mo) compared to mineralized sections in LL-74-1 and 3 (average 0.003% Mo).

Minor 1 mm. wide quartz-magnetite veinlets occur locally in the drill core. These appear to be late-stage veinlets which cut cupriferous and pyritic veins. In the vertical holes they lie at low angles to the core axis. For the most part they are localized within andesite though a few occur in BFP in LL-73-3 and LL-73-4.

A number of major shear zones were intersected in the drill core, namely at:

LL-74-1 407-429' 507.5-534.5' LL-74-2 108-120' 150-209' 368-370' LL-74-3 69-90' 417-456' 472.5-488'

| LL-74-4 | 339-341' 372-404' 571-572' |
|----------------|----------------------------------|
| LL-74-5 | 40-43' 457-458' 510-528' |

Only those measuring at least 1-foot wide are listed above, but there are probably twice as many zones of lesser width. The 1-2 foot zones listed above are for the most part entirely gouge, whereas the wider ones are composed of alternating gouge and blocky sections. No attempt has been made to portray these faults in Figure 3 since attitudes are unknown. Suffice it to say that the area has been subjected to a great deal of post intrusive faulting.

DISCUSSION

Ore Guides

Several features were noted in the core that bear a direct relationship to copper grades, notably the abundance of quartz veins and the degree of "pinking" (K-feldspar veining) in the rocks. These features were particularly noticeable in LL-74-1, where both pinking and quartz veining reached a maximum intensity in the best mineralized section and tapered off above and below.

On a larger scale, results of the recent drill program would suggest that intrusive contacts are an important guide to cupriferous zones. Holes LL-74-1 and 2 (Figure 4) would suggest that perhaps the BFP-Hazelton contact is the most important, whereas LL-74-3 points to the importance of the BFP-PMP contact, and holes LL-74-4 and LL-74-5 indicate slightly increased copper content at the outer contacts of the PQD phase. It is quite conceivable that sulphide introduction was associated with each intrusive pulse; this is suggest d by the duplication of cupriferous zones in LL-73-6 and LL-74-1, one of which may be related to the BFP, the other to the PMP.

Potential

The recent drilling has considerably reduced the probable size of the +0.2% Cu zone east of Camp Lake, although the results of LL-74-3 suggest that the zone might be more extensive under the lake than previously assumed.

The only indication of higher grade material within this zone consists of sections grading 0.35% Cu in holes LL-74-1, 2 and 3. Figure 3 portrays these assay sections as samples of a continuous zone which dips moderately $(35 - 40^{\circ})$ eastward; however no lateral continuity north and south of this east-west section has been demonstrated.

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If the zone extends south to the vicinity of LL-74-4 and 5; it must be either considerably narrower or dip more steeply. The zone may continue to the northwest of LL-73-7 (beneath Camp Lake) where information is lacking.

Other possible extensions of the zone are even more hypothetical. These include (a) wrapping around the upper contact of the main PMP plug beneath Camp Lake, and extending as a narrow limb down the west side of the plug, and (b) thickening of the eastern limb at depth, since the zone was not completely penetrated by LL-74-2. These possibilities are suggested in Figure 3. What I would like to suggest is that we are looking at the very top of a cylindrical porphyry stem which shows thinning of the ore zone towards the top, analogous to the San Manuel deposit.

To test this possibility would require an additional inclined hole beneath Camp Lake spotted say, 400 feet north of LL-74-3, an extension of LL-74-2 to 800 - 1,000 feet, and possibly a third hole inclined easterly from the western shore of Camp Lake. Total additional footage would be about 2,000 feet.

June, 1974 AMAX Vancouver Office C.J. Hodgson

APPENDIX I

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STATEMENT OF EXPENDITURES

File scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre

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Expenditures to July 18, 1974

| Staff salaries | \$2,350.55 |
|---|------------|
| Fringe costs on above | 383,14 |
| Wages – temporary field personnel | 2,000.00 |
| Fringe costs on above | 134.00 |
| Telephone/Radio telephone | 166.25 |
| Reproduction of maps | 181.02 |
| Hauling of tractor, shipping | 520,10 |
| Diamond drilling | 31,977.05 |
| Contractors - non technical | 1,754.50 |
| Field materials and supplies | 148.03 |
| Maintenance, rental and operation of equipment | 1,372.18 |
| Assays | 1,220.80 |
| Project travel | 672,55 |
| Operator's area office overhead | 4,343.00 |
| Claim rental fee and application for assessment work | 2,622.00 |
| | |

TOTAL

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\$49,845.17

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APPENDIX II

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DRILL HOLE LOGS

File scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre

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LL-74-1

| Company AMAX Potash Limited | Project #515 | B eari ng - | Sheetl of 5 Hole No. |
|-----------------------------|-------------------------|--------------------|----------------------|
| Mining | Property Lennac Lake | Inclination -90° | Coordinaces |
| Division Omineca | Started March 25,1974 | | 114+00N |
| Geographic 54°45'N Lat. | Completed March 26,1974 | | 76+25E |
| Coordinates 126°19'W Long. | Logged by C.J. Hodgson | Depth603' | Altitude 40' above |
| | | | lake |

| Foo | tage | Core | % | Total | _ | Remarks | |
|------------------|-------------------|------------|----------------|-------------------------------|------|--|--------|
| | ··· | Rec | Rec | % Cu % | ω Mo | | |
| | | ļ | | | | | |
| | 14 | | ļ | | | Casing | |
| | ļ | | | | | | |
| | | | | | | 14-206.5 | |
| 14 | 20 | | | .21 | - | Dull grey-green, andesite, fine grained, | |
| | 30 | | | .20 | - | - local plagioclase phenocrysts (2mm. 5-15%) | |
| | 40 | | | .24 | - | - locally subtle breccia texture apparent (flow brecc | :i |
| _40 | 50 | | | .29 | - | - chloritized throughout. Minor epidote in disseminat | e |
| | 60 | | | .33 . | 001 | spots and quartz veins | |
| 60 | 70 | | | 11 | - | - quartz vein stockwork throughout. Veins 1 mm. to 4 | с |
| | 80 | | | .17 | - | wide (av. 5 mm.)., 10-15 per foct, predominantly | |
| | 90 | | | .26 | - | at 45° and 0-10° to core axis. Veins contain py, | |
| 90 | 100 | | | .23 | - | cpy, mag, moly. Quartz-magnetite veins, 1-2 mm., | |
| 100 | 110 | | | | - | parallel to core axis are late-stage, cutting | |
| 110 | 120 | | | .12 | - | all other veins. Vein quartz comprises 2-4% | |
| 120 | 130 | | | .16 | - | of rock between 14 and 182' and 5% of rock between | |
| 130 | 1.40 | | | .17 | - | 182 and 206.5'. Some veins have drusy cavities | |
| 140 | 150 | | | .15 | - | - sulphides total about 3%, with py/cpy approx. 5/1. | |
| 150 | 160 | | | .17 | - | occur on 1 mm, fractures, in quartz veins and | |
| 160 | 170 | | | .17 | - | disseminations | |
| 170 | 180 | | | .15 | - | | |
| 180 | 190 | | | .11 | - | | |
| 190 | 200 | | | .15 | - | <u>30-40' minor magnetite-cpy-py veins at low angles</u> | |
| 200 | 210 | | | .41 . | 001 | (< 10°) to CA | S. |
| | | | | | | 40' trace moly in quartz vein | 9 |
| | | | | | | 56-61' weak shearing and calcite veins | D T |
| | | | | | | | ••• |
| <u>ile scann</u> | ed <u>courtes</u> | v of New C | <u>Cantech</u> | Ventures Ltd. / Don Mac(ntyrə | | P |) t |
| | | | 5 | | ' | | |

| Foo | tage | Core | % | c Tota | | | | | | | | al | Remarks |
|-----------------|-----------|--------------------|------------|-----------------|-----------------|----------------|------------------|-------------|---|----------|----|------|---|
| | ····· | Rec | Rec | | | | | | | % 0 | u | % Mo | |
| | ļ | | ļ | | | | | | | | _ | | |
| _210 | 220 | | | | | | | | | <u> </u> | .9 | .003 | 145.5' Bleached andesite adjacent to quartz- |
| | ļ | | | | | | - | | | | | | ankerite vein |
| <u>220</u> | 230 | | | | | | | _ | | 1 | 4 | .001 | 158-168' Magnetite veinlets |
| | | | | | | | | | _ | | | | 173-174' Bleached andesite |
| | | | | | | | | | _ | | | | |
| | | | | | | | | _ | | | | | 206.5-219 Biotite-Feldspar Porphyry (BFP) |
| | ļ | | | | | \square | | | _ | | | | 2 |
| | | | | | | | | | _ | | | | - "per contact at 20° to CA. Rock consists of |
| | | | | | | | | | | | | | 35% plagioclase phenocrysts to 1 cm. (av. 5 mm.), |
| | | | | | | | | | | | | | 5% biotite phenocrysts (5 mm.) |
| | | | | | | | | | | | | | 1% amphibole phenocrysts (8 mm.) |
| | | | | | | | | | | | | | 2% quartz phenocrysts |
| | | | | | | | | | | | | | 57% fine grained groundmass |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | - Predominant alteration is weak-moderate intensity, |
| | | | | | | | | | | | | | apple green sericitization of plagioclase, with |
| | | | | | | | | | | | | | cloudy clay (?) alteration of plagioclase in patches |
| | | | | | | | | | | | | | and adjacent to fractures |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | - Vein guartz is 5% of rock. Sulphides total approx. |
| | | | | | | | | | | | | | 3%, Py/cpy = 1-2/1. Rare moly (e.g. 215.5'). |
| | | | | | | | | | | | | | Sulphides occur in guartz veins (25%), on micro |
| | | | | | | | | | | | | | fractures (50%) and as disseminations (25%) |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 219-224.5 |
| | | | | | | | | | | | | | |
| | | | | | 1 | 1 | | | | | | | - Post-mineral biotite feldspar porphyry. Sharp upper |
| | | | | | | 1- | | | 1 | | _ | | contact at 45°. Similar to main porphyry, but plag- |
| | | | | | | 1 | 1 | 1 | 1 | 1 | -+ | | ioclase phenocrysts only 15-20%. Matrix 75-80%. |
| | | | | | | 1 | 1 | 1 | 1 | 1 | | | darker grey, finer grained, much less altered than at |
| | | | | | + | + | | | 1 | | | | 206.5 - 219. |
| | | | | | | 1 | 1 | 1 | | 1 | | | |
| | | | | | + | | | + | 1 | | | | No quartz veins. Traces disseminated by cov |
| | | | | | | + | + | | 1 | | -+ | | A data of verifies inacco disseminaced py, cby, |
| | | | | | | | | + | + | + | | | 0 |
| <u>_i_we_sc</u> | anned col | <u>intesy of N</u> | ew.Cantecl | <u>ı ventul</u> | <u> es 1.10</u> | <u>. y Doi</u> | <u>1 Iviacli</u> | <u>nyre</u> | + | | | | |

2 2. 14

LL-7 1

| Foo | t 290 | Core | 9 | 1 | | | | | | | | to | tal | Remarks | |
|------------------------|------------|-----------|--------|----------|----------|----------|------------|----------|----------|----------|------------|----------|------|---|----------|
| 100 | Lage | Rec | | . | % Cu | | | | | | | | Mo | i i i i i i i i i i i i i i i i i i i | |
| | r | | I NCC | · | | | | | | | <u> /o</u> | <u> </u> | | · · · · · · · · · · · · · · · · · · · | |
| 220 | 2/0 | | | | | | | | | | | | 000 | | |
| 230 | 240 | | | + | | | | | | | | • 21 | .002 | 224.5 - 242.5 As 206.5-219, Dut grn. sericite | |
| 0/0 | 050 | | | + | | | | | | | | | 000 | alteration is more intense, with relict patches of | |
| 240 | 250 | | | | | | | - | | | _ _ | • 44 | .002 | white clay alteration of plagioclase | ··· |
| | | | | _ | | | ļ | | | · | | | | · · · | |
| 250 | 260 | | | ļ | | | - | _ | | <u> </u> | | .45 | .004 | -quartz veins 5-7%, many at 0° to CA | |
| | | | ļ | ļ | _ | | _ | | _ | <u> </u> | | | | | |
| 260 | 270 | <u> </u> | | | | · · | | | | | | .63 | .003 | -minor barren quartz-carbonate (ankerite?) veins | |
| | | | | | | | | | | | | | | occur in this section and at 206.5-219, at 070° to | CA. |
| 270 | 280 | | | | | | | | | | | .30 | .002 | These cut other quartz veins and are up to 1" wide | • |
| | | | | | | | | | | | | | | | |
| 280 | 290 | | | | | | T | | | | | .42 | .003 | 234' - K-feldspar-quartz-moly vein | |
| | | | | | 1 | | | | | | | | | | |
| 290 | 300 | | | | | | | | | | | .32 | .007 | 242.5-269.5 Andesite | |
| | | 1 | | | 1 | | | | | | | | | Upper contact @ 45° to CA. lower at 30° to CA | |
| 300 | 310 | 1 | | | 1 | | 1 | | 1 | | | .36 | .002 | Quartz veins very abundant, about 10%. Py/cpy appro |)X. |
| | | | 1 | | | | 1 | 1 | 1 | | -[| | | 1-2/1. Total 3% sulphides. Rare late mag-quartz | |
| 310 | 320 | 1 | 1 | | | 1 | + | 1 | 1 | | +- | . 29 | .001 | veins. | |
| <u>J</u> | 020 | | 1 | | 1 | + | | 1 | | | | | | | |
| 320 | 330 | 1 | | | + | 1 | 1 | | 1 | | | 36 | 002 | 247.5'- 4" quartz vein with abundant pyrite | <u> </u> |
| 220 | | | | | <u> </u> | + | <u> </u> | + | | <u> </u> | + | • 30 | | | |
| 330 | 3/10 | <u> </u> | | | 1 | | <u> </u> | | <u> </u> | | - | 38 | 001 | 260 5 226 DED | |
| $\Delta \omega \omega$ | <u>J40</u> | | | | | + | | ┼─── | | + | | • 50 | •001 | 209.5-550 prr | |
| | | | | | | | | | <u> </u> | | + | | | Alteration less than 224.5-242.5. Mainly white clay | y |
| | | | | | | | | <u> </u> | | | | | | alteration. | |
| | | | | | <u> </u> | <u> </u> | | | | | | | | Py/cpy approx. 1/1-2. Total approx. 3% sulphides | |
| | | | | | <u> </u> | | | | | | | | | Quartz veins mainly 30-60 and 0 to CA, about 5%, | |
| | | | | | | | | ļ | ļ | | | | | mainly < 1/2" (av. 1/4") | |
| | | | | | | | ļ | ļ | | | | | | | |
| | | | | | ļ | | | | | | | | | 327-336' - Schistose towards contact | |
| | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | 330' - 2" quartz vein with abundant py, no cpy, | |
|] | | | | | | | | | | | | | | vuggy. | S I |
| | | | | | | | | | | | | | | | he |
| | | | | | | | | | | | | | | | let e |
| | | | | | | | | | | | 1 | | | | JUNZ |
| File so | anned co | urtesy of | New Ca | ntech \ | lentura | s Ltd. | / Don | Maclr | tyrə | | | | | | 10 . |

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LL-74-1

LL-74-1

| Foo | tage | Core | % | | | | | |] | lot | al | Remarks |
|-----|------|------|-----|-------|-------|----------|---|----------|------|-----|------|---|
| | | Rec | Rec | | | | | | % (| lu | % Mo | |
| | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | | | | | <u>336-376</u> Andesite |
| 340 | 350 | | | | | | | | .52 | 2 | ,002 | Upper contact at 45° to CA, lower at 35° to CA, 5% |
| 350 | 360 | | | | | | | | 1.3 | 5 | .002 | quartz veins |
| 360 | 370 | | | | | | | | .3 | 5 | .004 | Sulphides 3-4%, py/cpy approx. 1/1 |
| 370 | 380 | | | | | | | | .2: | 3 | .003 | |
| 380 | 390 | | | | | | | | .06 | | .002 | 376-603 BFP |
| 390 | 400 | | | | | | | | .09 |) | - | -Weak to moderate clay-sericite alteration of feldspar. |
| 400 | 410 | | | | | | | | .19 | 5 | | local pinking adjacent to quartz veins @ 386', 397-8' |
| 410 | 420 | | | | | | | | .1 | 3 | - | 403' is hematite. |
| 420 | 430 | | | | | | | | 1.32 | 2 | .002 | |
| 430 | 440 | | | | | | | | .10 | | - | -1% sulphides, py/cpy approx. 1/1 |
| 440 | 450 | | | | | | | | .16 | 5 | - | |
| 450 | 460 | | | | | | | | .4 | 3 | .005 | -quartz veins 3% to 467 , then about 1% between 467' |
| | | | | | | | | | | | | and 603' |
| | | | | | | | | | | | | • |
| | 1 | | | | | | | | | | | 380-385' Finer grained lenses at 45° to CA |
| | | | | | | | | | | | | (1-4" thick). Inclusions? |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | 395-407' White clay alteration increases towards |
| | | | | | | | | | | | | fault zone |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | 407-422' Rock is gouged, sheared, rubbly |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | 422-426' 5% quartz veins, with 2% cpy |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | 425-429' clay gouge |
| | | | | | | 1 | | | | | | |
| | | | | | | | | | | | | 422-575' predominant alteration is weak-intense |
| - | | | | | 1 | | | | | | | apple green sericitization of plagioclase |
| | | | | | | | 1 | 1 | 1 | | | |
| | | | | | 1 | | 1 | | 1 | | | 445' 6" clay gouge o |
| | | | | | | | | | 1 | | | ה פ |
| | | | | | | | 1 | 1 | 1 | | | 450-455' Quartz-carbonte veins to 1" in |
| | | | | ¦ | | | 1 | † | 1 | | | sericitized BFP (healed fault zone?) |
| | | | | | | <u> </u> | | <u> </u> | | | | 0 |

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LL-74-1

| Footage | e Core | % | | | | | | | | To | tal | | Remarks |
|----------|---------------|--------|---------|--------|--------|--------------|-------|------|----------|------|------|----------|--|
| | Rec | Rec | : | 1 | 1 | T | 1 | | T | % Cu | % Mo | | |
| | | 1 | 1 | 1 | | | | | 1 | | | 1 | 456.5' Minor moly disseminated in 3" quartz vein |
| 460 470 | | 1 | | 1 | | | 1 | | | .32 | .018 | | |
| 470 480 | | | 1 | | | | | | 1 | .25 | .017 | | 467-603' Quartz veins decrease to approx. 1%. |
| 480 490 | | | | | | | | 1 | | .12 | - | | sulphides 1/2-1% (cpv > pv). Green sericit |
| 490 500 | | 1 | 1 | 1 | | | | 1 | | .08 | - | 1 | alteration continues strong to 575'. |
| 500 510 | | | | | | 1 | 1 | | | .11 | - | | weakens thereafter |
| 510 520 | | | | | | 1 | | | 1 | .23 | - | | |
| 520 530 | | | | 1 | | 1 | | | 1 | .17 | _ | | 476-476.5' sericite-clay gouge |
| 530 540 | | | | | | 1 | 1 | | | .08 | - | | |
| 540 550 | | | | 1 | 1 | | | 1 | | .08 | - | 1 | 507.5-508' Sericitized shear zones @ approx. 45° |
| 550 560 | | 1 | 1 | | | 1 | | | | .10 | - | 1 | 513-514' to CA """ |
| 560 570 | | | | | | | | | | .07 | - | 1 | 518-519' " |
| 570 580 | | 1 | | | | 1 | 1 | | | .19 | - | | 523-527' " |
| 580 590 | | | | | | | | | 1 | .20 | - | | 528-531' " |
| 590 603 | | | | | 1 | | | | | .12 | | 1 | 533-534.5' " |
| | | 1 | | | | 1 | | 1 | | 1 | | | |
| | | | | | | 1 | | | | | | <u> </u> | 543.5-545' clay and sericite shear |
| | | | | | | | | | | | | | 566.5 4" andesite inclusion with 5% quartz veins |
| | | | | | | | | | | | | | most of which terminate at edges of |
| | | | | | | | | | | | | | inclusion |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 584-603' Last box of core. Generally fresher- |
| | | | | | | | | | | | | | looking, fewer sulphides and quartz veins. |
| | | | | | ╂ | | | | | | | 603 | END OF HOLE |
| | | ļ | | | | † | 1 | 1 | 1 | - | | 005 | |
| | | | | | | | | ļ | | 1 | | | |
| | | | | | ļ | <u> </u> | | | <u> </u> | | | <u> </u> | |
| | | | | | | | | -{ | | -{ | | | |
| | | | | | | | | | | | | <u> </u> | : N |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | ļ | | | ļ | <u> </u> | | | <u> </u> | 07 |
| <u> </u> | courtesy of l | Лем Са | ntech M | enture | k Lid. | <u>Z Don</u> | Macli | uyre | | 1 | | | |

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LL-74-2

| Company AMAX Potash Limited | Project #515 | Bearing | Sheet1 of4 Hole No. |
|-----------------------------|-------------------------|------------------|---------------------|
| Mining | Property Lennac Lake | Inclination -90° | Coordinates |
| Division Omineca | Started March 27,1974 | | 114+00N |
| Geographic | Completed March 31,1974 | | 80+00E |
| Coordinates | Logged by C.J.Hodgson | Depth 606' | Altitude 15' above |
| 000141na000 | | | lake |

| Fo | otage | Core | % | | | | | To | tal | Remarks | |
|-------------|------------|-----------|--------|-----------------|-----------|----------|---|------|------|---|-------|
| | | Rec | Rec | | | | | % Cu | % Mo | | |
| | | | | | | | | | | 0-26 Casing | |
| | | | | | | | | | - | 07 000 | |
| _26_ | 40 | | | | | | | .13 | .004 | <u>26-298</u> Dull grey andesite, variable texture from | |
| | 60 | ļ | | | | | | .10 | .005 | fine grained equigranular to porphyritic. For | |
| _70_ | 80 | | | | | | | .09 | .004 | the most part fragmental (flow breccia - no | |
| _90_ | 100 | | | | | | | .21 | .003 | foreign fragments). | |
| <u></u> | _ | | | | | _ | | | | - Well fractured, with quartz veins (+ py, ep, | |
| <u>110</u> | 120 | | | | | | | .07 | - | trace mag, trace cpy) and pyrite veinlets. | |
| | | | | | | | | | | Pyrite and epidote also occurs in disseminated | |
| 130 | 140 | | | | | _ | | .08 | - | grains and clots, | |
| | | | | | | | | | | - Quartz veins 1%, 1 mm - 2 cm.average 1-3 mm. | |
| 150_ | 160 | | | | | | | .07 | | Commonly drusy. Commonly low angles to CA. | |
| | | | | | | | | | | Py 3-5%, Py/cpy ^{>} 5/1, epidote 2% | |
| 170 | 180 | | | | | | | .11 | - | | |
| | | | | | | | | | | Rock is reasonably competent to 150' | |
| 190 | 200 | | | | | _ | | .09 | - | | |
| | .i | | | | | _ | | | | 28' looks like K-feldspar associated with | |
| 210_ | 220 | | | | | | | .13 | - | py-ep vein | |
| <u></u> | | | | | | | | | | | |
| 230 | 240 | | | | | | | .07 | _ | 32.5' traces moly in 1/2" quartz vein | |
| | | | | | | | | | | | |
| 250 | 260 | | | | | | | .27 | .005 | 38.5-39' chloritized plagioclase porphyry | |
| | | | | | | | | | | fragments (dyke?) at 75° to CA | |
| 270 | 280 | | | | | | | .15 | - | | S : |
| | | | | | | | | | | 43-48 Blocky. Calcite veins on fractures. | |
| 290 | 300 | | | | | | | .11 | - | | |
| | | | | | | | | | | | |
| File scar | ned courte | sv of New | Canted | h Ventures I io | . / Don M | acIntvra | 1 | | | | -lo · |
| | T | | T | 1 | | T | | | | | |

| Footage | Core | % | 7. Tota 20. % Cu % | | | | | | | tal | Remarks |
|----------------|--------------|----------|-----------------------|----------|----------|----------|-----|---|--|----------|--|
| | Rec | Rec | | | | | | % | Cu | % Mo | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | | | | | |
| | | | | | | <u> </u> | | | | | 59.5' Quartz vein with K-feldspar |
| | | | | | | ļ | | | | | |
| | | | | | - | | | | | | 66.5' Quartz vein with cpy, trace moly, 3 mm. |
| | | | | | | | | | | | K-feldspar selvage |
| | | | | | | ļ | | | | ļ | |
| | | | | | | | | | | | 73.5-97' Light to dark green fragmental structure |
| | | | | | | | | | | ļ | |
| | | | | | | | | | ······································ | | 108-120' Shear zone, blocky |
| | | | | | | | | | | | |
| | | | | | · [| | | | | | 108-112, 2.5 ground (1.5 recovered) |
| | | | | | | | | | | | 112-118155 ground (0.5' recovered) |
| | | | | | + | | | | | | |
| | | | | | | | | | | <u> </u> | 150-209! Major shear zone at $20^{\circ}(?)$ to CA |
| | | | | | | | | | | | Core very blocky throughout Course inter- |
| | | | | | | | | | | | mittently 172-198' Core recovery between |
| | | | | | | | | | | | 160-168 (5'): 168-172 (2'): 172-174 (1'): |
| | | | | | 1 | | | | · | | 174-178 (6"): $178-185.5$ (7.5'): $185.5-$ |
| | | | | | <u> </u> | | | | | | 190 (4.5'): 190-194 (1'): 194-198 (4'): |
| | | | | | 1 | | | | | | 198-200 (1') |
| | | | | | | | | | | | |
| | | | | | | | | | | | 198-202' BFP dyke |
| _ | | | | | | | | | | | |
| <u>310 320</u> | | | | | | | | | .13 | - | 298-323 BFP, grey chloritized, 1/2% disseminated epidote |
| | | | | | | | | | | | |
| | | | | | | | | | | | Upper contact at 30° to CA |
| | | | | | | | | | | | 1-2% quartz veins |
| | | | | | | | | | | | 2% sulphides, pyrite >> chalcopyrite |
| | | | | | | | | | | | Numerous andesite inclusions towards base. |
| | | | | | | | | | | | |
| | | | | | | | | | | | S H |
| | ↓ | | | | | | | | | | |
| | | | | _ | | | | | | | |
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| File scanned c | ourtesy of I | New Car | ntech Venti | ures Ltd | / Don | Macint | yre | 1 | | | |

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| Foo | tage | Core | % | | | | | | Tot | al | Remarks |
|---------------|-----------|--------------------|----------|-------------------|-----|--------|------------|----|---------|------|---|
| | | Rec | Rec | | | | T | % | Cu | % Mo | |
| | | | | | | | | | | | |
| 330 | 340 | | | | | | | .2 | 0 | - | 323-370 Andesite, with BFP dykes |
| | | | | | | | | | | | |
| _350 | 360 | | | | | | | | 9 | .010 | Blocky and chloritized, with minor shears at |
| | | | | | | | | | | ļ | 324.5', 328-330', 342.5'. |
| <u></u> | | | | | | | | | | ļ | |
| | | | | | | | | | | | BFP dykes at 325.5 (6); $332-355$ (lower contact |
| • | | | | | | | | | | | $\frac{45}{10} \text{ to (A); } 342.5-347; \\ 551.5-555; \\ 555.5-559. \\ 1\% \text{ events voirs with oridate purite minor}$ |
| | | | | | | | + | | | | 16 quartz verns with epidote, pyrite, minor |
| <u></u> | | | <u> </u> | | | | + | | | } | magnetite. Tyrite 1-5% |
| | | | | | | - | | | | | 354' 2" quartz-K-feldspar-epidote-pyrite vein |
| | | | | | | | ┼╼╌┼ | | | | 80° to CA |
| | | | | | | - | | | | | |
| | | | | | - | | | | | | 368-370' Gouge zone at lower contact |
| | | | | | | 1 | | | | | X |
| 370 | 380 | | | | | | | .1 | 3 | .025 | 370-384 BFP, dark grey, weakly chloritized |
| | | | | | | | | | | | |
| | | | | | _ | _ | | | | | 1% quartz veins |
| | <u></u> | | | | | | | | | | 1/2 - 1% sulphides, pyrite >> chalcopyrite |
| | | | | | | | | | | | |
| | | | | | | | | | | | 3/4 3/8 quartz vein 20 to CA, with servage |
| | | | | | | | <u> </u> | | | | or mory, minor charcopyrice |
| | | | | | | | | | ~ | 010 | |
| -390 | 400 | | | | | | | 2 | 0 | .010 | <u>384-408</u> Andesite $\frac{1}{2\%}$ |
| | | | | | | | | | | | 3% sulphides (py/cpy = $3/1$), $1%$ quartz vers, $1/2%$ |
| | | | | | | | | | | | $\frac{\text{epidote}}{296-401} = \frac{1}{2}$ |
| | | | | | | | | | | | 0 LO CA. $403 - 1/2$ quartz vein with mory. |
| 400 2 | 15.5 | { | | | | | <u>├</u> ─ | 24 | <u></u> | .010 | $\frac{1}{108}$ BFP fresh |
| 100 | . 1 3 • 3 | | | | | + | | | | .010 | $\frac{100-415.5}{1^{\circ}}$ subhides (pyrite >> chalcopyrite) |
| ·· | | | | | + | | | | | | Upper contact 35 to CA |
| | | | | | | + | | | | | 0 T |
| | | | | | 1 | - | | | | | 0 0 T |
| | | | | | | | | | | | |
| . Eile so | anned coi | u <u>tesy of N</u> | lew_Cant | ech Ventures I.td | Don | MacInt | vre | | | | 0 • Th |
| | | 1 | T | | 1 | | | | | | |

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| Foo | tage | Core | % | | | | | | | | Tot | tal | Remarks |
|---------|----------|-----------|--------|---------|--------|--------|-------|----------|------|---|-------|------|--|
| | | Rec | Rec | : | T | | 1 | | T | | % C11 | % M | a |
| 415.5 | 430 | | | | | | | | | | .21 | .011 | 415.5-521 Andesite breccia. med-dark grey mottled. |
| 430 | 440 | | | | | | | | | | . 39 | .007 | 1-3% quartz veins with pyr, cpy, epidote, some |
| 440 | 450 | | | | | | | | | | . 32 | .009 | with minor moly (e.g. 429', 483', 489'). Many of |
| 450 | 460 | | | | | | | | | | . 32 | .004 | the larger quartz veins (> 1/4") are 0-20° to CA. |
| 460 | 470 | | | | | | | | | | - 38 | .008 | Sulphides approx. 3% (py/cpy approx. 3/1) |
| 470 | 480 | | | | | | | | | | .22 | .011 | 440' - 1/4" cpy seam 10 to CA. |
| /.80 | 490 | | | | | | | | | | .23 | .028 | |
| 490 | 500 | | | | | 1 | 1 | 1 | | | .16 | .015 | 521-534 - BFP |
| | | 1 | | | | | | | | 1 | 1 | 1 | Pale green clay-sericite alteration of feldspar |
| 500 | 510 | | | 1 | 1 | 1 | | | | | .18 | .007 | Rare quartz veins |
| 510 | 520 | | | | | | 1 | | | | 1.18 | .008 | 528' 1/2" vuggy quartz vein with moly. |
| 520 | 530 | | | | | | | | 1 | 1 | .37 | .009 | |
| 530 | 540 | | | | | | 1 | 1 | | | .32 | .007 | 534-606 - Andesite tuff breccia, greywacke, dull grey- |
| 540 | 550 | | | | | | | | | | .12 | .010 | green |
| 550 | 560 | | | | | | | | | | .15 | .013 | 1-2% quartz veins, 2-3% sulphides, pyrite >> cpy |
| 560 | 570 | | | 1 | | | 1 | | 1 | 1 | .25 | .007 | |
| 570 | 580 | | | | | | | | | | .35 | .006 | 538-547' Fine grained, volcanic greywacke, |
| 580 | 590 | | | | | | | | 1 | | .30 | .007 | locally banded at 80° to CA |
| 590 | 600 | | | | | | | | 1 | | .32 | .005 | |
| | | | | | | | | | | | | | 547-590' Andesite breccia (flow breccia?) same as |
| | | | | | İ | | | | | | | | 415.5-521 |
| | | | | | | | | | I | | | | |
| 600 | 606 | | | | | | | Ī | T — | | .34 | .023 | 590-606' Andesitic tuff-breccia with greywacke |
| | | | | | | | | | Τ | | | | matrix. Some banding at 75° to CA |
| | | | | | | | | | | | | | 1/2% disseminated epidote throughout. |
| | | | | | | | | | | | | | Chloritized throughout. Black chlorite |
| | | | | | | | | | | | | | especially apparent adjacent to hairline |
| | | | | | | | | | | | | | quartz seams. |
| | | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | 606 END OF HOLE |
| | | | | | | | | | | | | | |
| | | | | | 1 | | 1 | 1 | | 1 | | | α N |
| | | | | | | | 1 | <u> </u> | | | | | л с е н |
| | | | | | 1 | 1 | 1 | | | 1 | | | |
| | | | | | 1 | | 1 | | | | | | |
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| Company AMAX Potash Limited | Project #515           | Bearing 303°    | Sheet lof 6 Hole No.    |
|-----------------------------|------------------------|-----------------|-------------------------|
| Mining                      | Property Lennac Lake   | Inclination -46 | Coordinates             |
| Division Omineca            | Started March 31,1974  |                 | 112+00N                 |
| Geographic                  | Completed April 2,1974 |                 | 74+64E                  |
| Coordinates                 | Logged by C.J.Hodgson  | Depth 613'      | Altitude Lake elevation |

| Foc       | tage       | Core      | %        | Total Remarks                                          |        |
|-----------|------------|-----------|----------|--------------------------------------------------------|--------|
|           |            | Rec       | Rec      | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                  |        |
|           |            |           |          |                                                        |        |
| _0        | 60         | <u> </u>  |          |                                                        |        |
|           |            |           |          |                                                        |        |
| 60        | 70         |           |          | .15 .006 60-82 BFP                                     |        |
|           |            | ļ         |          | -Fairly fresh - plagioclase is translucent t           | o pale |
|           | 82         | ļ         |          | .25 .002 green, in brownish-grey very fine grained to  |        |
|           |            |           |          | aphanitic matrix                                       |        |
| 82        | 98         |           |          | .07 .001 -Quartz veins about 3-4%, up to 1" wide, som  | e      |
| ****      |            |           |          | drusy. Stockwork with numerous attitudes               |        |
| 98        | 110        |           |          |                                                        | inor   |
|           | L          | L         |          | magnetite (<1%), associated with sulphides i           | n      |
| _110      | 120        |           |          | .46 .004 narrower quartz veins                         |        |
|           |            |           | P        |                                                        | ated   |
| _120      | 130        |           |          | .31 .004 (25%).                                        |        |
|           |            |           |          | -Rare K-feldspar veins (e.g. 74')                      |        |
| _130_     | 140        |           |          | .39 .001                                               |        |
|           |            |           |          | 60-90' Quite blocky with several clay goug             | ;e     |
| _140      | 150        |           |          |                                                        | .ere-  |
|           |            |           |          | after, down to at least 345', very                     |        |
| _150      | 160        |           |          | 34 .002 competent.                                     |        |
|           |            |           |          |                                                        |        |
| _160      | 170        |           |          | .13 .016 82-98 Grey, unaltered post-mineral porphyry ( | (PMP)  |
|           |            |           |          | <u>Contacts at approx. 45° to CA</u>                   |        |
| _170      | 180        |           |          | .18 .002 Very minor py. cpy. (1/4% total) in rare 1 m  | m. s   |
|           |            |           |          | quartz veins                                           |        |
| _180      | 190        |           |          | .94 .001                                               |        |
|           |            |           |          |                                                        | ~ 8    |
| File scan | ned courte | sy of New | v Cantec | h Ventures Ltd. / Don MacIntyre                        | 0•     |
| :         |            | រំ        | ì        |                                                        |        |

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| Footess         | Core     | 0/        |                          | <br>       |                     | <br>         | Remarks                                                 |
|-----------------|----------|-----------|--------------------------|------------|---------------------|--------------|---------------------------------------------------------|
| rootage         | Dec      | Doo       |                          | <br>       | - <u> </u> <u> </u> | <br><u> </u> |                                                         |
|                 | Rec      | Rec       | <b>├</b> ──- <b>├</b> ─- | <br>       |                     | <br>         |                                                         |
|                 |          |           | <b>├</b> ──- <b>├</b>    | <br>       | ┼╌╌┼                | <br>         | <u>90-110 BFP, as 60-82</u>                             |
|                 |          |           |                          | <br>       |                     | <br>         | Quartz veins up to 5-7%; pyrite 2 cpy. About            |
|                 |          |           |                          | <br>       |                     | <br>         | 0.5% Cu ?                                               |
|                 |          |           |                          | <br>       |                     | <br>         | 100.5-102.5' Andesite inclusion                         |
|                 |          |           |                          |            |                     | <br>         |                                                         |
|                 |          |           |                          |            |                     |              | 116-133.5 Andesite. Contacts at 45-60° to CA            |
|                 |          |           |                          |            |                     |              | Vein quartz up to approx. 10%                           |
|                 |          |           |                          |            |                     |              | Sulfides 3% (py ~ cpy). Cpy locally in coarse           |
|                 |          |           |                          |            |                     |              | splashes (e.g. 132')                                    |
|                 |          |           |                          |            |                     |              | K-feldspar locally in guartz veins                      |
|                 |          |           |                          |            |                     | <br>Í        | Magnetite 1/2% 1 mm. veins                              |
|                 |          |           |                          |            |                     |              |                                                         |
|                 |          |           |                          |            | ++                  |              | 133.5-226.5 BFP                                         |
|                 |          |           |                          |            |                     |              | -Quartz veins approx. 10%, mainly subparallel at        |
|                 |          |           |                          |            |                     |              | approx. 60° to CA. Py/cpy approx. 1/1. total 3%.        |
|                 |          |           |                          | <br>1      |                     |              | at least half the sulphides are on hairline             |
|                 |          |           |                          |            |                     |              | fractures at $60-70^{\circ}$ to CA, which appear to cut |
|                 |          |           |                          |            |                     |              | quartz veinsor move out from them. Minor mag.           |
|                 |          |           |                          | <br>       |                     |              | (1/4%), trace moly. Veins are $(1/4'')$ wide, 20/ft.    |
|                 |          |           |                          | -          | <u> </u>            |              | rarely 2-3" wide with green sericitized plagioclase     |
|                 |          |           |                          | <br>1      | <u>†</u> †          |              | -Alteration generally is minor-weak local bleaching     |
|                 |          |           |                          | <br>       | 11                  |              | of plagioclase and weak K-feldspar adjacent to          |
|                 |          |           |                          |            |                     | <br>         | guartz veins                                            |
|                 |          |           |                          | <br>       | <u>├</u> ├          | <br>         |                                                         |
|                 |          |           |                          | <br>       |                     | <br>         | 142' 1/2" bleached (kaolinized)vein with                |
|                 |          |           |                          | <br>       |                     | <br>         | sulphides sooty secondary biotite                       |
|                 |          |           |                          | <br>       | ┼───┼╴              | <br>         | Minor moly in quartz voins at 159 162 170               |
|                 |          |           |                          | <br>+      | ┼                   | <br>         | minor mory in quartz verns at 137,102,170               |
|                 |          |           |                          | <br>       | ┼──┼                | <br>         | 172-175' Croop scripto alteration on either side        |
|                 |          |           |                          | <br>       |                     | <br>         | 1/2-1/5 Green sericite alteration on either side        |
|                 |          |           |                          | <br>       |                     | <br>         | or qtzankerite vein at 1/4                              |
|                 |          |           |                          | <br>       | -                   | <br>         |                                                         |
|                 |          |           |                          | <br>       | ┝┡                  | <br>         | Trace purple fluorite on joint                          |
|                 |          |           |                          | <br>       | <u> </u>            | <br>         | Opaque white clay alteration gradually                  |
|                 |          |           |                          | <br>       |                     | <br>         | increases in intensity below 150'                       |
|                 |          |           |                          |            |                     | <br>         |                                                         |
| Sile-ogoned-oov |          | MCon      | ah Vahiw                 | <br>LDon 1 | laelature           |              | 183-185 Quartz vein at 10° to CA, approx. 4" wide, or   |
|                 | eey army | an Seinne | 2011 N.Q.11800           |            | somer               |              |                                                         |

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| Footage           |             | Core<br>Rec         | %<br>Rec           |                  |           |       |              |          |          |          | Te    | otal | Remarks                                                |
|-------------------|-------------|---------------------|--------------------|------------------|-----------|-------|--------------|----------|----------|----------|-------|------|--------------------------------------------------------|
|                   |             |                     |                    |                  |           |       |              |          |          |          | % Cu  | % Mo |                                                        |
|                   | <u> </u>    |                     |                    |                  |           |       | 1            |          | 1        |          |       |      | 182-191' Moderately sericitized                        |
| <b>.</b>          | 1           |                     |                    |                  |           |       |              |          |          |          | -     |      | · · · · · · · · · · · · · · · · · · ·                  |
| 190 200           | 200         |                     | 1                  |                  |           |       |              |          |          |          | .43   | .002 | 187-191' Andesite inclusion, Fine grained              |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      | secondary biotite, 10% guartz veins                    |
| -                 |             |                     |                    |                  |           |       |              |          |          |          |       |      |                                                        |
| 200               | 210         |                     |                    |                  |           |       |              |          |          |          |       | .005 | 226-227.5 Biotitized breccia with BFP andesite         |
| 2 <u>10</u>       | 220         |                     |                    |                  |           |       |              |          |          |          | .13   | .002 | fragments. Felted biotite, py, cpy disseminated        |
| 2 <u>20</u> 227.5 | 227.5       |                     |                    |                  |           |       |              |          | _        |          | .21   | .005 | in matrix. Intrusive breccia, marginal to late-        |
|                   |             |                     |                    |                  |           | L     |              |          |          |          |       |      | stage porphyry dyke                                    |
|                   |             |                     |                    |                  |           |       | ļ            | 1        |          |          |       |      |                                                        |
| 2 <u>27.5</u>     | 240         |                     |                    |                  |           |       | ļ            | ļ        |          |          | .09   | .003 | 227.5-456 Post-mineral porphyry (PMP)                  |
|                   |             |                     |                    |                  |           |       | ļ            | ļ        |          | ļļ       |       |      |                                                        |
|                   | <u> </u>    |                     |                    |                  |           |       |              |          |          |          |       |      | <u>227.5-234' Intense green sericite alteration of</u> |
|                   | ¦<br>†      |                     |                    |                  |           |       | ļ            |          |          | <b> </b> |       |      | plagioclase                                            |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      |                                                        |
|                   |             |                     | <br>               |                  |           |       |              |          |          |          |       |      | 234-235' BFP inclusion with quartz veins               |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      |                                                        |
|                   |             |                     |                    |                  |           |       |              | ┼        |          |          | 05    | 002  | PMP is typically unaltered, darker grey                |
|                   | _260_       |                     |                    |                  |           |       | <u> </u>     | ┼──      |          |          | .05   | .003 | that BFP with 25% plagloclase phenocrysts              |
|                   |             |                     |                    |                  |           |       | <u> </u>     |          |          |          |       |      | to 1 cm, 3% biotite phenocrysts to 1 cm,               |
|                   |             |                     |                    |                  |           |       | <u> </u>     |          |          |          |       |      | <u> </u>                                               |
|                   |             |                     |                    |                  |           |       |              |          | +        |          |       |      | Alteration is minor white kaoiinization                |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      | or plagiociase adjacent to fractures, and              |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      | shoar sonot Minor quartz-K-foldspar voins              |
|                   |             |                     |                    |                  |           |       | <del> </del> | <u> </u> |          |          |       |      | are present                                            |
|                   |             |                     |                    |                  |           |       |              |          | 1        |          |       |      |                                                        |
|                   |             |                     |                    |                  |           |       | <u> </u>     |          |          |          |       |      | Rare inclusions of BFP andesite                        |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       | 1    | $\leq 1/2\%$ sulphides. py $=$ cpy Disseminated        |
|                   |             |                     |                    |                  |           |       |              |          | 1        |          |       |      | and on fractures                                       |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      | 335' 2" quartz vein with K-feldspar, minor             |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       |      | moly wa                                                |
|                   |             |                     |                    |                  |           |       |              |          |          |          |       | 1    |                                                        |
|                   |             |                     |                    |                  |           |       |              |          | 1        |          |       |      | 370 5-372 5' Weak shear zone - kaolinized              |
|                   |             |                     |                    |                  |           |       |              |          | 1        |          | ····· | 1    | US A CONTRACT ONCE NOTE RECEIVED                       |
|                   |             | man of              | low Oc             | do oh 14-        | anda anos | 1.4-1 | 10.25        | 112-1-   | <u>+</u> |          |       | ++   | c •                                                    |
|                   | CUULIE0_CON | <u>yuussy</u> loill | ugw <u>u Ca</u> âl | uc <u>ucul</u> e | :         |       | LIOU         | NECL     | 4743     |          |       | ++   |                                                        |

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| Foo         | otage      | Core        | %        |          |         |          |          |     |   | To      | cal      | Remarks                                                                                 |
|-------------|------------|-------------|----------|----------|---------|----------|----------|-----|---|---------|----------|-----------------------------------------------------------------------------------------|
|             |            | Rec         | Rec      |          |         |          |          |     |   | % Cu    | % Mo     |                                                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          |                                                                                         |
|             |            | l           |          |          |         | _        |          |     |   |         |          | 375' 6" BFP inclusion                                                                   |
| <u></u>     |            |             |          |          |         |          |          |     |   |         |          |                                                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          | 395' 8" Andesite inclusion                                                              |
|             |            |             |          |          |         |          |          |     |   |         |          |                                                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          | 388-407 Calcite filled fractures about 1 per                                            |
| ·           |            | <u> </u>    |          |          |         |          |          |     |   |         |          | 1001                                                                                    |
| 30          | 440        |             |          |          |         |          |          |     |   | 03      | <u> </u> | 408-456' Variably sericitized with several major                                        |
| <u>, 70</u> | 440        |             |          |          |         | +        |          |     |   | .05     | +        | $\frac{400-450}{2000}$ variably scrittized, with several major                          |
| +40         | 1 4 10     |             |          |          |         |          |          |     |   | •05     |          | <u>455-456</u>                                                                          |
| -           | +          |             |          |          |         | +        |          |     |   |         |          |                                                                                         |
| +56         | 461        |             |          |          |         |          |          |     |   | 1.88    | .008     | 456-477 Andesite                                                                        |
| 461         | 469        |             |          |          |         | 1        |          |     |   | .30     | .004     | Upper contact is shear zone                                                             |
| 469         | 477        |             |          |          |         |          | T -      |     |   | . 34    | .003     |                                                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          | 458-461.5' -                                                                            |
|             |            |             |          |          |         |          |          |     |   |         |          | Skarn-type mineralization with abundant ep,                                             |
|             |            |             |          |          |         |          |          |     |   |         |          | mag, py, cpy, tapering off at depth towards 461.5.                                      |
|             |            |             |          |          |         |          |          |     |   |         |          | Sulphides are particularly abundant between 458.5-                                      |
| <del></del> |            |             |          |          |         |          |          |     |   |         |          | -459.5' (10% cpy, 15% py).                                                              |
|             | +          |             |          |          |         | ļ        |          |     | ] |         |          |                                                                                         |
|             |            |             |          |          |         | <b>_</b> | ļ        |     |   |         |          | Section is very blocky. Gouge at 4/2.5-4/3.5.                                           |
| ·           |            |             |          |          |         |          |          |     |   |         | <b> </b> | Good quartz vein stockwork, 5-8% quartz; sulphides                                      |
|             |            |             |          |          |         |          | <b> </b> |     |   | <u></u> | <u> </u> | 2_2/1                                                                                   |
| <del></del> |            |             |          |          |         |          | ļ        |     |   |         |          | Section is quite pleached                                                               |
| <u> </u>    |            |             |          |          |         | +        |          |     |   |         |          | Section 13 quite breached                                                               |
| 77          | 1/190      |             |          |          |         | <u> </u> |          |     |   | 07      |          | /177-506 PMP as above Minor BFP inclusions                                              |
| · / /       | + 10       |             |          |          |         | <u> </u> |          |     |   | •••     |          | <u>Minor quartz veins <math>= 1/2\%</math> sulphides (py <math>\cong</math> cpy) in</u> |
| 490         | 500        |             |          |          |         |          |          |     |   | .07     | -        | ouartz veins, hairline seams, disseminated                                              |
|             |            |             |          |          |         | 1        |          |     |   |         |          |                                                                                         |
|             |            |             |          |          | -       | 1        |          |     |   |         |          | 476.5-482' Gouge ທ:                                                                     |
|             |            |             |          |          |         |          |          |     |   |         |          |                                                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          | 482-488' Moderately sericitized                                                         |
|             |            |             |          |          |         |          |          |     |   |         |          | × 3                                                                                     |
| File so     | canned cou | irtesy of N | ew Canto | ch Ventu | es l.td | Don I    | lacinty  | ire |   |         |          | ¢•                                                                                      |

D L. 1a

LL-74-3

LL-74-3

| Rec       % Cu % Mo         500       510       .16       .506-509 BFP         500       510       .16       .5% quartz veins, 2% sulphides (py ~ cpy)         510       520       .15       .509-519.5 PMP, as above         520       .15       .509-519.5 PMP, as above         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quartz         520       .14       .002       524-524, 5' Sericitized shear zone         1-2%       .18       -       534-585.5 Andesite, dark grey         530       .18       -       534-542' Veryfine grained (greywacke?)         540       .18       .29       .005       542-585.5' More normal fine grained subporphy and |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 500       510       .16       -       5% quartz veins, 2% sulphides (py ~ cpy)         510       520       .15       -       509-519.5       PMP, as above         510       520       .15       -       509-519.5       PMP, as above         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       .519.5-523       Andesite, porphyritic, blocky, 5% quarts         530       540       .18       -       .534-542' Veryfine grained (greywacke?)         540       .550       .29       .005       .542-585.5' More normal fine grained subporph         550       .31 <th></th>                         |                                        |
| 500       510       .16       -       5% quartz veins, 2% sulphides (py ~ cpy)         510       520       .15       -       509-519.5 PMP, as above         520       .15       -       .15       -       509-519.5 PMP, as above         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .159.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .159.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .159.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .159.5-523 Andesite, blocky, 5% quarts         520       .14       .002       .159.5-523 Andesite, blocky, 5% quarts         520       .14       .002       .14       .002         521       .14       .002       .159.5       .16         522       .15       .14       .002       .159.5       .179.5         530       .18       .534-542' Veryfine grained (greywacke?)       .18       .534-542' Veryfine grained (greywacke?)         540       .18       .029 <td></td>                               |                                        |
| 510       520       .15       -       509-519.5 PMP, as above<br>BFP inclusions at 515.5', 517.5'         520       530       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       519.5-523 Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .155.5       Andesite, porphyritic, blocky, 5% quarts         530       .14       .14       .002       .14       .002         530       .14       .14       .14       .14       .002         530       .14       .14       .14       .14       .14         .14       .01       .14       .14       .14       .14         .14       .01       .14       .14       .14       .14       .14         .14       .18       .128       .14       <                                                                    |                                        |
| 510       520       .15       -       509-519.5       PMP, as above         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quarts         520       .14       .002       .15       .57       .57         520       .14       .002       .14       .002       .14         .14       .002       .14       .002       .12% mainly 70-80° to CA         .14       .002       .14       .014       .14       .012%         .15       .16       .16       .12% sulphides py $2^{-10}$ cpy       .12% sulphides py $2^{-10}$ cpy         .15       .18       .18       .534-542' Veryfine grained (greywacke?)       .14         .540       .570       .13       .008       .004 andesite       .15% cos <tr< td=""><td></td></tr<>                                                      |                                        |
| 520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       .18       .14       .002       .18       .12% sulphides py 2 cpy         530       .18       .534-585.5       Andesite, dark grey         530       .18       .534-585.5' More normal fine grained subporph         540       .18       .31       .008         andesite       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         550       .31       .004       approx. 5/1)         550       .34       .004       approx. 5/1)         570       .34       .004       approx. 5/1)         570       .34       .004       approx. 5/1)                                                                                                                                               |                                        |
| 520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         530       .14       .002       .14       .002       .14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| 520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         520       530       .14       .002       519.5-523       Andesite, porphyritic, blocky, 5% quart         530       .18       .14       .002       524-524.5'Sericitized shear zone         1       .14       .002       .005       524-524.5'Sericitized shear zone         1       .12% sulphides py $\widehat{}$ cpy         530       .18       .534-585.5       Andesite, dark grey         530       .18       .534-542' Veryfine grained (greywacke?)         540       .18       .29       .005       .008         540       .31       .008       andesite         550       .35       .008       Quartz veins 2-3%; sulphides, 3% (presson 5/1)         570       .35       .008       Quartz veins 2-3%; sulphides, 3% (presson 5/1)         570       .34       .004       approx. 5/1)         570       .34       .004       approx. 5/1         570       .35       .008       Quartz veins, and with         570       .34       .004       approx. 5/1         570       .35       .008       Quartz veins, and with         570       .34 <td>—·····································</td>                                          | —····································· |
| Store       Store <td< td=""><td>veins</td></td<>                                   | veins                                  |
| 5% quartz veins to 1/2", mainly 70-80° to CA         commonly with K-feldspar selvages         524-524,5'Sericitized shear zone         1-2% sulphides py $\widehat{}$ cpy         530       540         540       .18         540       .18         550       .29         540       .18         550       .18         540       .18         550       .29         540       .18         550       .31         .008       andesite         560       .35         .004       .004         approx. 5/1)       Epidote up to 5%. Irregularly dist         1       .18         571-571.5' PMP dyke 25° to CA, 1-2% dissemin         .18       .571-571.5' PMP dyke 25° to CA, 1-2% dissemin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |
| commonly with K-feldspar selvages         524-524.5'Sericitized shear zone         1-2% sulphides py $\widehat{}$ cpy         530       540         530       540         540       .18         550       .29         560       .31         570       .35         570       .35         570       .35         570       .35         570       .35         570       .34         570       .34         570       .34         570       .35         570       .34         570       .34         570       .34         571-571.5' PMP dyke 25° to CA, 1-2% dissemin         571-571.5' PMP dyke 25° to CA, 1-2% dissemin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| 530       540       534-585.5       Andesite, dark grey         530       540       .18       -       534-585.5' More normal fine grained (greywacke?)         540       550       .18       -       534-585.5' More normal fine grained subporphy         550       .18       -       534-585.5' More normal fine grained subporphy         550       .18       -       534-585.5' More normal fine grained subporphy         550       .18       -       .18       -         540       550       .18       -       534-542' Veryfine grained (greywacke?)         550       .18       -       .18       -       534-542' Veryfine grained (greywacke?)         540       .50       .18       -       .18       -       .18         550       .18       -       .18       -       .18       -         550       .18       .18       .18       -       .18       -       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18       .18 <t< td=""><td></td></t<>                                                                                                       |                                        |
| 1-2% sulphides py ~ cpy         530       540         530       540         540       .18         550       .29         .005       542-585.5' More normal fine grained (greywacke?)         .18       -         .18       -         .29       .005         .008       andesite         .500       .31         .008       Quartz veins 2-3%; sulphides, 3% (processor)         .3008       .34         .31       .008         .32       .004         .33       .004         .34       .004         .34       .004         .34       .004         .34       .004         .34       .004         .34       .004         .34       .004         .35       .008         .34       .004         .34       .004         .34       .004         .35       .008         .36       .371-571.5' PMP dyke 25° to CA, 1-2% dissemin         .371-571.5' PMP dyke 25° to CA, 1-2% dissemin                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| 530       540       .18       -       534-585.5       Andesite, dark grey         530       540       .18       -       534-542' Veryfine grained (greywacke?)         540       550       .29       .005       542-585.5' More normal fine grained subporphy         550       560       .31       .008       andesite         560       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       .34       .004       approx. 5/1)         580       .34       .004       approx. 5/1)         570       .34       .004       approx. 5/1)         580       .34       .004       approx. 5/1)         580       .34       .004       approx. 5/1)         570       .35       .008       .18       .18         570       .34       .004       approx. 5/1)       .17                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |
| 530       540       .18       -       534-585.5       Andesite, dark grey         540       550       .18       -       534-542' Veryfine grained (greywacke?)         540       550       .29       .005       542-585.5' More normal fine grained subporph         550       .18       .29       .005       542-585.5' More normal fine grained subporph         550       .13       .008       andesite         560       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       .34       .004       approx. 5/1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |
| 530       540       .18       -       534-542' Veryfine grained (greywacke?)         540       550       .29       .005       542-585.5' More normal fine grained subporph         550       560       .31       .008       andesite         560       .35       .008       Quartz veins 2-3%; sulphides, 3% (processor)         570       .34       .004       approx. 5/1)         .34       .004       .34       .004         .35       .008       .004       .34         .36       .37       .34       .004         .37       .39       .34       .004         .39       .34       .004       .34         .39       .39                                                                                                                                                                                                 |                                        |
| 530       540       .10       534-542       VeryThe granned (greywacker)         540       550       .29       .005       542-585.5' More normal fine grained subporphy         550       560       .31       .008       andesite         560       .35       .008       Quartz veins 2-3%; sulphides, 3% (provide stress)         570       580       .34       .004       approx. 5/1)         570       571-571.5' PMP dyke 25° to CA, 1-2% dissemin       .35         571-571.5' PMP dyke 25° to CA, 1-2% dissemin       .35                                                                                                                                                                                                                                                                          |                                        |
| 540       550       .29       .005       542-585.5' More normal fine grained subporph         550       560       .31       .008       andesite         560       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       .34       .004       approx. 5/1)         570       .34       .004       .34         570       .34       .004       .34         570       .008       .34       .004       .34         570       .34       .004       .34       .04         570       .34       .004       .34       .04       .34         .004       .34       .004       .34       .34       .34         .004       .34       .04       .34       .34       .34         .005       .34       .04       .34       .34       .34       .34         .0                                                                                                                                                                                                                       |                                        |
| 550       560       .31       .008       andesite         560       570       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       580       .34       .004       approx. 5/1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ritic                                  |
| 560       570       .35       .008       Quartz veins 2-3%; sulphides, 3% (p         570       580       .34       .004       approx. 5/1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |
| 570       580       .34       .004       approx. 5/1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /сру                                   |
| Epidote up to 5%. Irregularly dist         in patches, quartz veins, and wit         pyrite along seams.         571-571.5' PMP dyke 25° to CA, 1-2% dissemination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| in patches, quartz veins, and wit<br>pyrite along seams.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ibuted                                 |
| pyrite along seams.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| 571-571.5' PMP dyke 25° to CA, 1-2% dissemin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ted                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |
| 580 590 .25 .006 585.5-608.5 BFP moderate clay-sericite altera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ion                                    |
| 590 600 throughout. Upper contact 30° to CA. Quart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| veins 2-3%, K-feldspar selvages common.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | n S                                    |
| Sulphides 1-2%, py ~ cpy, trace moly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | he                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6<br>6<br>6                            |
| 597-598' Sericitized skarn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ্র মু                                  |
| Eile econned courtesy of New Contech Ventures (1) / Don MacInture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |

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| Foc    | tage         | Core       | %        |                  |          |          |          |       |          |          | Tot      | al   | Remarks                                               |
|--------|--------------|------------|----------|------------------|----------|----------|----------|-------|----------|----------|----------|------|-------------------------------------------------------|
|        |              | Rec        | Rec      |                  |          |          | 1        |       |          |          | % Cu     | % Mo |                                                       |
| 00     | (1)          |            |          |                  |          |          |          |       |          |          | 20       | 00/  | (00.5 (10.4))                                         |
| 000    | 613          |            |          |                  |          |          |          |       |          | <u> </u> | .20      | .004 | 608.5-613 Andesite, dark grey, quartz veins 2%, minor |
|        |              |            |          |                  |          |          |          |       |          | <b> </b> | <u> </u> |      | K-feldspar selvages, sulphides approx. 3%, py/        |
|        |              |            |          |                  |          |          |          |       | <b> </b> | ļ        |          |      | cpy approx. 2-3/1.                                    |
|        |              |            |          |                  |          |          |          | ļ     | <u> </u> |          | <u> </u> | l    |                                                       |
|        |              |            | <u> </u> | ļ                | ļ        | _        | ļ        |       | <u> </u> | <u> </u> |          |      |                                                       |
|        |              |            | ļ        | <u> </u>         |          | <u> </u> |          |       | <u> </u> |          |          |      | 613 END OF HOLE                                       |
|        |              |            |          |                  |          | _        |          |       |          |          | <u> </u> |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          | ļ        |      |                                                       |
|        |              |            |          |                  |          |          |          |       | 1        |          | 1        |      |                                                       |
|        |              |            | 1        |                  |          |          | 1        | 1     |          |          | 1        |      |                                                       |
|        |              |            | 1        | 1                | 1        | 1        |          |       |          |          |          |      |                                                       |
|        |              | 1          | 1        |                  | 1        | 1        |          |       | 1        |          | 1        |      |                                                       |
|        |              | 1          | <u> </u> |                  | 1        | †        | 1        | 1     |          | 1        | 1        |      |                                                       |
|        |              |            |          |                  | <u> </u> | 1        | 1        |       | 1        |          |          |      |                                                       |
|        |              |            |          | <u> </u>         |          |          |          | 1     |          |          |          |      | · · · · · · · · · · · · · · · · · · ·                 |
|        |              | +          |          |                  |          |          |          |       |          | <u> </u> | 1        |      |                                                       |
|        | <u> </u>     |            |          |                  |          |          |          | +     |          |          |          |      |                                                       |
|        | <del> </del> |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        | <u> </u>     |            | }        |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       | <u> </u> |          |          |      |                                                       |
|        |              |            |          |                  |          |          | <u> </u> |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          | ļ        | ļ        |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          | ļ        |          | ļ     | ļ        |          |          |      |                                                       |
|        |              |            |          |                  |          |          | ļ        |       |          |          |          |      |                                                       |
|        | L            |            |          |                  |          |          |          |       | [        |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      | · · · ·                                               |
|        |              |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          | <u> </u> |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      | נט ד                                                  |
|        |              |            |          |                  |          |          |          |       |          |          |          |      |                                                       |
|        |              |            |          |                  |          |          |          |       |          |          |          |      | ວັດ<br>ວັດ                                            |
|        |              |            |          |                  |          | <u> </u> |          |       |          |          |          |      |                                                       |
| ·      |              |            |          |                  | <b> </b> | <b> </b> |          |       |          |          |          |      |                                                       |
| Cilo o | Lannadad     | who are af | New Ce   | l<br>báo o h- h- |          | - 1.5-1  | 1000     | Maala | 1.000    |          | 1        |      |                                                       |

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| Company AMAX Potash Limited | Project #515            | Eearing 300°                | Sheet lof4 Hole No. |
|-----------------------------|-------------------------|-----------------------------|---------------------|
| Mining                      | PropertyLennac Lake     | Inclination -46.5° at       | Coordinates         |
| Division Omineca            | Started April 2, 1974   | collar, <u>-48° at 597'</u> | 108+00N,            |
| Geographic                  | Completed April 4, 1974 |                             | 73+93E              |
| Coordinates                 | Logged by C.J.Hodgson   | Depth 597'                  | Altitude_Lake       |
|                             |                         |                             | elevation           |

| Foo               | otage     | Core               | %              |         |         |          |              |          |   |   | Tot  | al   | Remarks                                            |
|-------------------|-----------|--------------------|----------------|---------|---------|----------|--------------|----------|---|---|------|------|----------------------------------------------------|
|                   |           | Rec                | Rec            |         |         |          |              |          |   |   | % Cu | % Mo | )                                                  |
|                   |           |                    |                | L       |         |          |              |          | 1 |   |      | ļ    |                                                    |
|                   |           |                    |                | ļ       | ļ       |          | $\downarrow$ |          |   |   |      | L    | D-46 CASING                                        |
|                   |           |                    |                | ļ       | ļ       | 1        |              |          | 1 |   |      |      |                                                    |
|                   |           |                    |                | ļ       | ļ       | 1        | 1            | _        |   |   |      | ļ    | 46-504 BFP                                         |
|                   | ļ         | ļ                  |                |         | ļ       |          |              |          |   |   |      |      |                                                    |
| 46                | 60        |                    |                |         |         |          |              |          | ļ |   | .13  | -    | 46-100' Alteration: K-feldspar veins 5-6/ft, 1 mm. |
| 60                | 70        | ļ                  |                |         |         | ļ        |              |          |   |   | .10  | -    | Local sericitized plagioclase at 65',              |
| 70                | 80        | ļ                  |                |         |         |          | L            |          |   |   | .13  | -    | 79', 90', 92', 96' adjacent to quartz-             |
| 80                | 90        |                    |                |         |         |          |              |          |   |   | .15  | -    | calcite, pyrite veins, 20° to CA.                  |
| 90                | 100       |                    |                |         | ļ       |          |              | _        |   |   | .12  |      | Quartz veins rare (<1%), <1/ft average.            |
|                   |           |                    |                |         | ļ       |          |              |          | ļ |   |      |      | Sulphides approx, 1%, cpy-py, mainly               |
|                   |           |                    |                |         | L       |          | ļ            |          |   |   |      |      | disseminated, Rare hairline magnetite              |
| •                 | <u> </u>  |                    | 1 <sup>1</sup> |         |         | L        |              | ļ        |   |   |      |      | seams, some with cpy.                              |
|                   | <u> </u>  |                    |                |         |         | ļ        |              |          |   |   |      |      |                                                    |
| 100               | 110       |                    |                |         |         | <u> </u> | ļ            | <u> </u> | Ľ |   | .18  | -    | 100-200' Pretty much the same as above, with some  |
| 110               | 120       |                    |                |         |         |          | I            |          |   |   | .30  | .002 | rather prominent silicified zones, and             |
| 120               | 130       |                    |                |         |         | L        | ļ            |          | L |   | 11   | -    | more abundant sericite alteration.                 |
| <u>    1 30  </u> | 140       |                    |                |         |         |          | ļ            |          |   |   | .03_ | -    | Traces disseminated epidote, less                  |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | K-feldspar veining.                                |
| d                 |           |                    |                |         |         |          |              |          |   |   |      |      | 110-115' - 4' recovered in 2' quartz-              |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | calcite-pyrite shear vein 112-114'.                |
| <u></u>           |           |                    |                |         |         |          |              |          |   |   |      |      | at 30° to CA, with peripheral sericitized          |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | BFP. Sericite alteration continues to              |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | 125' 0                                             |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | ۲-<br>۵                                            |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | Main sericitized pyrite veins at 123.              |
|                   |           |                    |                |         |         |          |              |          |   |   |      |      | 125'.                                              |
| File scani        | ed courte | s <u>y of Ne</u> w | Cantee         | h Venti | ires Li | d. / D   | pn Ma        | cIntyre  |   | I |      |      |                                                    |
|                   | 1         | 7                  |                |         |         |          |              | 1        |   | } |      |      | 31.                                                |

| Foc            | tage      | Core       | %               |                 |               |                  |              |         |            | <u></u>  | To       | otal | l                                     | Remarks                                 |
|----------------|-----------|------------|-----------------|-----------------|---------------|------------------|--------------|---------|------------|----------|----------|------|---------------------------------------|-----------------------------------------|
|                |           | Rec        | Rec             |                 |               |                  |              |         |            |          | % Cu     | % Mo |                                       |                                         |
| 1.0            | 1.50      | <u> </u>   |                 |                 |               |                  |              |         |            |          |          |      | 1/2-1/5                               | Quarta-purito choor uning 05° to CA     |
| 140            | 150       |            |                 |                 |               | ļ'               |              |         |            |          | .09      | -    | 145-145                               | PEP is conjoitfood V oithor side        |
| 150            | 160_      |            |                 |                 |               | '                |              |         |            | ļ        | 1.12     |      |                                       | Brr is sericiuzed i either side         |
| 160            | 170       |            |                 |                 |               | <u> </u>         |              |         |            | +        | 1 07     |      | 164-174                               | large quartz vein or silicified zone    |
| 160            | 170       |            |                 |                 |               | ┟───┤            |              |         |            | <u> </u> | 1.0/     |      | 104-174                               | with sericitized BFP inclusions with    |
|                |           |            | }               |                 |               |                  |              |         |            |          |          | +    |                                       | secondary biotite. Minor pyrite in      |
|                |           |            |                 |                 |               | ┟────┦           |              |         |            |          |          | +    |                                       | this zone.                              |
|                |           |            |                 |                 |               | j{               |              |         |            |          |          |      |                                       | Moderate-intense sericitization extends |
|                |           |            |                 |                 |               |                  |              |         | +          |          |          | 1    |                                       | down to about 203'                      |
|                |           | <u> </u>   |                 |                 |               |                  |              |         |            | }        |          |      |                                       |                                         |
| 170            | 180       | <u> </u>   |                 |                 |               |                  |              |         |            |          | .16      | -    | 179-180                               | Bleached feldspars adjacent to pyrite-  |
| 180            | 190       | 1          |                 |                 |               |                  |              | 1       |            | 1        | .12      | -    | ······                                | quartz-calcite veins @ 20° to CA        |
| 190            | 200       |            |                 |                 |               |                  |              | 1       |            |          | .13      | -    | · · · · · · · · · · · · · · · · · · · |                                         |
| ***_**         |           | 1          |                 |                 |               |                  |              | 1       | 1          | 1        |          | 1    | 200-300'                              | Same as 100-200                         |
|                |           |            |                 |                 |               |                  |              |         | 1          |          | 1        |      |                                       | Sulphides uniform, at approx. 1/2%      |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | (cpy > py) dissem and fractures         |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | Minor quartz veins, quartz & K-feldspar |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | veins,K-feldspar veins (total <1%),     |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | averaging may be 1/ft (1/4-1/2" wide)   |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       |                                         |
| 210_           | 220       |            |                 |                 |               |                  |              |         |            |          | .09      | -    | 220.5'                                | <u>3" PMP dyke - 70° to CA</u>          |
| <b></b>        |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       |                                         |
| <u>230</u>     | 240       |            |                 |                 |               |                  |              |         |            |          | .05      | -    | 221.5                                 | Sericitized quartz-pyrite-hematite      |
|                |           |            |                 |                 |               |                  |              |         | ļ          |          | L        |      |                                       | shear vein 1" at 20°, Same at 213'      |
| 2 <u>50</u>    | 260       |            |                 |                 |               |                  |              |         |            |          | .08      | -    |                                       |                                         |
|                |           |            |                 |                 |               |                  |              |         | ļ          |          | <u> </u> |      | 263'                                  | 6" PMP dyke                             |
|                |           |            |                 |                 |               |                  |              |         | ļ          |          |          |      |                                       |                                         |
| 270            | 280       |            |                 |                 |               |                  |              |         | ļ          |          | .11      | -    | 264 '                                 | 6" sericitized pyritic shear zone       |
| <u>290</u>     | 300       |            |                 |                 |               |                  |              |         |            |          | .02      | -    | 000 (001                              |                                         |
| <u>310</u>     | 32.0      |            |                 |                 |               |                  |              |         | <b> </b>   |          | .11      | -    | 300-400                               | Continuing very weak K-feldspar and     |
|                |           |            |                 |                 |               |                  |              |         |            |          | <b>_</b> |      |                                       | quartz veining, ≤ 1/2% sulphides.       |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | Several shear zones with peripheral     |
|                | l         | ł          |                 | Ì-              |               |                  |              |         |            |          |          |      |                                       | sericitized BFP                         |
|                |           |            |                 |                 |               |                  |              |         |            |          |          |      |                                       | ريم<br>م                                |
| <u>Eile sc</u> | anned cou | rtesy of N | <u>ew Can</u> t | <u>ech Ve</u> i | <u>ntures</u> | <u>1.td. (</u> ) | <u>Don i</u> | /lacIni | <u>yrə</u> |          |          |      |                                       |                                         |

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| Foo            | tage      | Core        | %        |                   |                  |         |          |   | To      | otal | Remarks                                                   |
|----------------|-----------|-------------|----------|-------------------|------------------|---------|----------|---|---------|------|-----------------------------------------------------------|
|                | -         | Rec         | Rec      |                   |                  |         |          |   | % Cu    | % Mo |                                                           |
|                |           | 1           |          |                   |                  |         | Í        |   |         | 1    | 319.5-320' Sericitized shear                              |
| 330            | 340       |             |          |                   |                  |         |          |   | .05     | -    | 339-341' Sericitized shear gouge                          |
| 350            | 360       |             |          |                   |                  |         |          |   | .09     | -    | 348-348.5' Sericitized shear gouge                        |
| 370            | 380       |             |          |                   |                  |         |          |   | .17     | _    | 372-373' Sericitized shear gouge                          |
|                |           |             |          |                   |                  |         |          |   |         |      | 374' 3" Sericitized shear gouge                           |
| 390            | 400       |             |          |                   |                  |         |          |   | .08     | -    | 389' 2" pyrite shear zone at 40° to CA                    |
|                |           |             |          |                   |                  |         |          |   |         |      |                                                           |
|                |           |             |          |                   |                  |         |          |   |         |      | The section 372-404 is throughout quite blocky, with      |
|                |           |             |          |                   |                  |         |          |   |         |      | numerous shears in addition to the larger ones mentioned. |
|                |           |             |          |                   |                  |         |          |   |         |      | Green sericite alteration throughout.                     |
|                |           |             |          |                   |                  |         |          |   |         |      |                                                           |
| 410            | 420       |             |          |                   | _                |         |          |   | .14     | -    | 400-504' Continuing fresh looking BFP with                |
|                |           |             |          |                   |                  |         |          |   |         |      | minor quartz and quartz-K-feldspar                        |
| <u>430</u>     | 440       |             |          |                   |                  |         |          |   | .12     | -    | veins 1/4" (up to 3/ft, but total <1%)                    |
| _              |           |             |          |                   |                  |         |          |   |         |      | Sulphides 1/2 - 1%, cpy > py                              |
| <u>450</u>     | 460       |             |          |                   |                  |         |          |   | .10     | -    | 458-466.5' Sericitized zone                               |
| <u>470</u>     | 480       |             |          |                   |                  |         |          |   | .12     | -    |                                                           |
| 490            | 500       |             |          |                   |                  |         |          | _ | .07     | -    | 493-504' Increasing sericite alteration towards           |
|                |           |             |          |                   |                  |         |          |   |         |      | contact, with minor pyritic fractures                     |
|                |           |             |          |                   |                  |         |          |   |         |      | at 502.5                                                  |
|                |           |             |          |                   |                  | ++      |          |   |         |      |                                                           |
|                |           |             |          |                   |                  | +-+     |          | _ |         |      | 504-505 Dark grey, fine grained, andesite                 |
| <u></u>        | 520       |             |          |                   | _                |         | ·        | _ | 26      | 001  |                                                           |
| 510            | 520       |             |          |                   |                  |         |          | _ | .20     | .001 | 505-584 Medium to dark grey chlontized BFP or PMP (1)     |
| 520            | 540       |             |          |                   |                  |         |          |   | 1-17.   |      | Tone is non-uniform, with alternating medium and          |
| 550            |           |             |          |                   |                  | +       |          |   | • 1 • > |      | dark grey sections. Unit is not as convincingly           |
|                |           |             |          |                   |                  |         |          |   |         |      | PMP as in LL-14-3. This is more of a tonal than           |
| 550            | 560       |             |          |                   |                  |         |          |   | .08     |      | <u>a textural difference. Quartz veins plus quartz -</u>  |
|                |           |             |          |                   |                  | ┨───┤   |          | · | 1       |      | K-feldspar veins are just as numerous than above          |
|                |           |             |          | <u> </u>          |                  |         |          |   |         |      | if not more so (1-4/ft, 1-2%). Sulphides appear           |
|                |           |             |          |                   |                  | ┼───┤   |          |   |         |      | to be about equally abundant to above unit at             |
|                |           |             |          |                   |                  | ┼──┼    |          |   |         |      | approx. $1/2\%$ (cpy $\ge$ py).                           |
|                |           |             |          |                   |                  | ┼┼-     |          |   |         |      |                                                           |
|                |           |             |          |                   |                  | ┼┼      |          |   |         |      | Carbonate veins are common at 10-60, to CA                |
|                |           |             |          |                   |                  |         |          |   |         |      |                                                           |
| <u>File so</u> | anned col | irtesy of N | ew Canto | <u>ech Ventur</u> | re <u>s Lid.</u> | 7 Don M | acintyre |   |         |      | ۲                                                         |

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| Foc            | tage      | Core       | %                                      | T        |          |                   |          |          |          | · |              | Γot | al   | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------|------------|----------------------------------------|----------|----------|-------------------|----------|----------|----------|---|--------------|-----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |           | Rec        | Rec                                    |          |          |                   |          |          |          |   | % (          | Cu  | % Mo |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 570            | 580       |            |                                        |          |          |                   |          |          |          |   |              | 06  | -    | 571-572' Shear zone, bleached and sericitized.                                                                                                                                                                                                                                                                                                                                                                               |
|                |           | <u> </u>   |                                        |          |          |                   |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                | <u> </u>  | <u> </u>   |                                        |          |          |                   |          | _        |          | ļ |              |     |      | 505-552 Biotite phenocrysts are not present.                                                                                                                                                                                                                                                                                                                                                                                 |
|                |           |            |                                        |          |          |                   |          | _        |          |   |              |     |      | Apparently completely gone to chlorite                                                                                                                                                                                                                                                                                                                                                                                       |
|                |           |            |                                        | <u> </u> |          |                   |          |          |          |   | _            |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            | <u> </u>                               |          |          |                   |          | _        |          |   |              |     |      | 552-577 Much less altered, almost same as above                                                                                                                                                                                                                                                                                                                                                                              |
|                |           | ļ          |                                        |          |          |                   |          |          |          |   | <u> </u>     |     |      | 504'. Biotite phenocrysts unchloritized                                                                                                                                                                                                                                                                                                                                                                                      |
|                |           | ļ          | ļ                                      |          |          |                   | <u> </u> |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          |                   | ļ        |          | 1        |   |              |     |      | 577-584 Intensely chloritized, with 30% green                                                                                                                                                                                                                                                                                                                                                                                |
| ·····          |           | ļ          |                                        | <u> </u> | _        |                   |          |          | 1        |   |              |     |      | sericitized plagioclases in a black chloritic                                                                                                                                                                                                                                                                                                                                                                                |
|                |           |            | ļ                                      | ļ        |          |                   | ļ        | _        |          |   |              |     |      | matrix                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                |           |            |                                        |          | ļ        |                   | ļ        |          | ļ        | ļ | ļ            |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        | ļ        | <u> </u> |                   |          |          |          | ļ |              |     |      | 584-589 Blocky, highly chloritized fine grained                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        | <u> </u> |          |                   | <u> </u> | ļ        | ļ        |   |              |     |      | andesite with quartz veins, 2% py, minor cpy.                                                                                                                                                                                                                                                                                                                                                                                |
| ·              |           |            |                                        | ļ        |          |                   | <u> </u> |          | <u> </u> |   | 1            |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <u>590</u>     | 597       |            |                                        | ļ        |          |                   | <u> </u> |          | <u> </u> |   | <u>  • 1</u> | 3   | -    | 589-597 Breccia, with BFP, andesite fragments. Some                                                                                                                                                                                                                                                                                                                                                                          |
| <u></u>        |           |            |                                        |          | <u> </u> |                   |          |          | <u> </u> |   |              |     |      | interstitial carbonate, minor disseminated                                                                                                                                                                                                                                                                                                                                                                                   |
|                |           |            |                                        |          | <u> </u> |                   |          | ·        | ļ        |   |              |     |      | sulphides (< 1/2%, cpy - py), along with traces                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        | Į        |          |                   |          | <u> </u> |          |   |              |     |      | disseminated epidote.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <del></del>    |           |            |                                        |          |          |                   |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          |                   | <u> </u> |          |          |   | ·            |     |      | Can not tell whether intrusive or diatreme breccia.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>.</b>       |           |            |                                        |          |          |                   |          |          |          |   |              |     |      | May herald approach of PMP as in LL-/4-3. Last                                                                                                                                                                                                                                                                                                                                                                               |
|                |           |            |                                        |          |          |                   |          |          |          |   |              |     |      | 8 appears to be non brecclated BFP                                                                                                                                                                                                                                                                                                                                                                                           |
|                |           |            |                                        |          |          | <b> </b>          |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b></b>        |           |            | ······································ |          |          |                   |          |          |          |   |              |     |      | 597 END OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          |                   |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          |                   |          |          | }        |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ·              |           |            |                                        | <b> </b> |          |                   |          |          | <b> </b> |   |              |     |      | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                        |
|                |           |            |                                        |          |          |                   |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          | <b> </b>          |          |          | <u> </u> |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>.</b>       |           |            |                                        |          |          | <u> </u>          |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          | <b> </b> |                   |          | ┼───     | ļ        |   |              | -+  |      | h dS را dS (dS ر) dS (dS ر) dS (dS ر) dS (dS (dS (dS (dS (dS (dS (dS (dS (dS |
| <b></b>        |           |            |                                        |          | +        |                   |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            | ······································ |          |          |                   |          | +        |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                |           |            |                                        |          |          | <u> </u>          |          |          |          |   |              |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <u>File.sc</u> | anned cou | ntesy of N | lew Car                                | itech V  | enture:  | <u>\$ 1.td. (</u> | (Don     | MacInt   | vrə.     |   | +            |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                            |                         |                  | LL-74-5               |
|----------------------------|-------------------------|------------------|-----------------------|
| Company AMAX Potsh Limited | Project #515            | Bearing          | Sheet 1 of 3 Hole No. |
| Mining                     | Property Lennac Lake    | Inclination -90° | Coordinates           |
| Division Omineca           | Started April 5,1974    |                  | 108+00N               |
| Coographic                 | Completed April 7, 1974 |                  | 78+00E                |
| Coordinates                | Logged by C.J. Hodgson  | Depth 598'       | Altitude 12' above    |
|                            |                         |                  | Lake                  |

| Foc         | tage              | Core        | %        |             |                  |          |          |     | То                     | tal   | Remarks                                             |
|-------------|-------------------|-------------|----------|-------------|------------------|----------|----------|-----|------------------------|-------|-----------------------------------------------------|
|             |                   | Rec         | Rec      |             |                  |          |          |     | % Cu                   | % Mo  |                                                     |
|             |                   |             |          |             |                  |          |          |     |                        |       |                                                     |
|             | L                 |             |          |             |                  |          |          |     |                        |       | 0-40 CASING                                         |
| . <u> </u>  | ļ                 |             |          |             | _                | ļ        |          |     |                        |       |                                                     |
| _40_        | 50                |             |          |             |                  |          |          |     | .12                    | -     | 40-295 Grey andesite breccia, chlorite-carbonate    |
|             |                   |             |          |             |                  |          |          |     |                        |       | alteration. Calcite mainly on stringers.            |
| _60_        | 70                |             |          |             |                  |          |          |     | 23                     |       | Quartz veins approx. 1-2%, about 3/ft.              |
|             | ļ                 |             |          |             |                  |          |          |     |                        |       | Sulphides approx. 3%, Py/cpy = 3-5/1, 1/2% epidote, |
| _80         | 90                |             |          |             |                  |          | <u> </u> |     | .16                    | -     | mainly on fractures with pyrite. Rare moly in       |
|             |                   |             |          |             |                  | ļ        |          |     |                        |       | quartz veins at 99',146',156', generally in quartz  |
| 100         | 110               |             |          |             |                  | <u> </u> |          |     | .17                    |       | veins wider than 1/4", commonly with drusy quartz.  |
| . <u></u>   |                   |             |          |             |                  |          |          |     |                        |       | Rare magnetite veinlets.                            |
| 120_        | 130               |             |          |             |                  |          | ļ        |     | <u> </u>               | -     |                                                     |
|             |                   |             |          |             |                  |          |          |     |                        | 012   | 40-43' Sheared, with calcite and chlorite           |
| 140         | 150               |             |          |             |                  |          |          |     | .20                    | .013  | 171-203' Very blocky about 29' of core recovered    |
| 1.0         | 170               |             |          |             |                  |          |          |     |                        | 002   | 219-230' Splash of cpy with py, magnetite           |
| 160         | 170               |             |          |             |                  | <u> </u> |          |     | .20                    | 1.003 | 228' 6" cave                                        |
| 100         | 100               |             |          |             |                  |          |          |     |                        |       | 233' 6" chloritized shear                           |
| 180         | 190               |             |          |             |                  | ╂──      |          |     | •10                    |       | 282.5-285.5' chloritized shear zone                 |
|             | 010               |             |          |             | _                | <u> </u> |          |     |                        |       | 288' 4" chloritized shear                           |
| 200         | $\frac{210}{220}$ |             |          |             |                  | <b> </b> |          |     |                        |       | 291.5' 4" chloritized shear .                       |
| 220         | 230               |             |          |             |                  |          | }        |     | .21                    |       |                                                     |
| 240         | 250               |             |          |             | <u> </u>         |          |          |     | $-+\cdot\frac{19}{22}$ |       | The section 280-295' is heavily chloritized and     |
| <u>260</u>  | 270               |             |          |             |                  |          |          |     | .22                    | -     | sheared throughout                                  |
| 280_        | 290_              |             |          |             |                  |          |          |     | 18                     | -     |                                                     |
| 3 <u>00</u> | 310               |             |          |             | +                |          |          |     | .1/                    |       | <u>295-306 BFP dyke</u>                             |
|             |                   |             |          |             |                  |          |          |     |                        |       | Upper contact 25 to CA, lower about 30 to CA        |
| ·····       |                   |             |          |             | <u> </u>         |          |          |     |                        |       | Weakly chloritized, quartz veins approx, 1%,        |
| <u> </u>    | anned cou         | irtesy of N | lew Cant | ech Venture | <u> \$ 1.td.</u> | / Don    | MacInty  | /re |                        |       | Sulphides approx. 1-2% py > cpy.                    |

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| Foo            | tage     | Core               | %         |                   |                  |          |            |          |            | ·          | [ot | al   | Remarks                                                       |
|----------------|----------|--------------------|-----------|-------------------|------------------|----------|------------|----------|------------|------------|-----|------|---------------------------------------------------------------|
|                |          | Rec                | Rec       |                   |                  |          |            |          |            | % (        | Cu  | % Mo |                                                               |
|                |          |                    |           |                   |                  |          |            |          |            | _          |     |      | · · · · · · · · · · · · · · · · · · ·                         |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | 306-365 Andesite breccia                                      |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | Same as 40-295'                                               |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      |                                                               |
|                |          |                    |           |                   |                  | _        |            |          | -          |            |     |      |                                                               |
| 21.0           |          |                    |           |                   |                  |          |            |          |            |            |     | 0.00 | < 1% quartz veins, approx. 3% sulphides, py/                  |
| 310            | 320      |                    |           |                   |                  |          |            |          |            | •          | 28  | .003 | cpy approx. 3/1                                               |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | <u> </u>                                                      |
| 320            | 330      |                    |           |                   | _                |          | - <b> </b> |          |            | •          | 34  | .002 | <u>318-326' Blocky, chlorite slips, esp. 6" at 322'.</u>      |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | <u>365-494.5</u> Fine-grained foliated quartz diorite, unlike |
| 3.30           | _340_    |                    |           |                   |                  |          |            |          |            |            | 28  | .004 | any phases seen in other holes.                               |
|                |          |                    |           |                   |                  |          |            | -        |            |            |     |      | <u>3% subparallel biotite phenocrysts to 5 mm. 70-90°</u>     |
| 340            | _350_    |                    |           |                   |                  | +        |            |          | . <u> </u> |            | 9   | -    | to CA.                                                        |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | 10-25% plagioclase phenocrysts to 8 mm.                       |
| 350            | 360      |                    |           |                   |                  |          |            |          | <u> </u>   | ·          | 30  | .005 |                                                               |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | Texturally this unit is very in-homogeneous.                  |
| 360            | 370      |                    |           |                   |                  |          |            |          |            | · · · ·    | 33  | .004 | Locally it resembles BFP, but grades from that                |
| 270            |          |                    |           |                   |                  |          |            | <u> </u> |            | -          |     | 000  | <u>to a very fine-grained porphyry with no sharp</u>          |
| 370            | 380      |                    |           |                   |                  |          |            |          |            | •••        | 30  | .006 | <u>contact between the two.</u> Included fragments of         |
| 200            | 200      |                    |           |                   |                  |          |            | <u> </u> |            | _          |     |      | pinkish BFP are common. On the other hand, this               |
| 380            | 390      |                    |           |                   |                  |          |            | <u> </u> |            | •          | 20  | -    | unit is unlike the PMP in that it is quartz-veined            |
| 590            | 400      |                    |           |                   |                  |          |            |          | <u> </u>   | • •        |     |      | and has a low but constant sulphide content.                  |
| 400            | 410      |                    |           |                   |                  |          | <b> </b>   |          |            | - <b>-</b> | 4   | -    |                                                               |
| +20            | 430      |                    |           |                   |                  |          | ļ          |          |            | •          | 21  | -    | Unit is fairly fresh, but shows kaolinite alteration          |
|                |          |                    |           |                   |                  |          | <u> </u>   |          | <b> </b>   |            |     |      | of plagioclase where more coarsely porphyritic.               |
| +40            | 450      |                    |           |                   |                  |          |            |          |            |            | 19  | -    | Quartz veins 1% with sericite selvages, possibly              |
| <u>+60</u>     | 470      |                    |           |                   |                  | <u> </u> | ļ          |          | ļ          |            | 5   | -    | some K-feldspar.                                              |
| 480            | 490      |                    |           |                   |                  |          |            | ļ        | ļ          |            | .0  | -    | Sulphides < 1/2% py <sup>2</sup> /cpy                         |
|                |          |                    |           |                   |                  |          | <u> </u>   | ļ        | ļ          |            |     |      |                                                               |
|                |          |                    |           |                   |                  |          | <b> </b>   |          |            |            |     |      | 365-369 looks like pretty good BFP                            |
|                |          |                    |           |                   |                  | <b> </b> |            |          |            |            |     |      |                                                               |
|                |          |                    |           |                   |                  |          |            | <b> </b> |            |            | -+  |      | <u>384 2 quartz veins and moly 30 to CA</u>                   |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | <u> </u>                                                      |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      |                                                               |
|                |          |                    |           |                   |                  |          |            |          |            |            |     |      | \ ð                                                           |
| <u>Eile sc</u> | anned co | <u>urtesy of N</u> | lew Canto | <u>ech Ventur</u> | <u> †s I.td.</u> | / Don    | Maclr      | tyre     |            |            |     |      | ·                                                             |

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| Foc        | tage      | Core        | %        |          |          |          |     |          |           |          | Tot     | al       | Remarks                                              |
|------------|-----------|-------------|----------|----------|----------|----------|-----|----------|-----------|----------|---------|----------|------------------------------------------------------|
|            |           | Rec         | Rec      | :        | T        |          | 1   | T        | T         | T        | % Cu    | % Mo     |                                                      |
|            |           |             |          |          |          |          |     |          |           |          |         |          | 396.5' - 494.5' Good fine grained phase              |
|            |           |             |          |          |          |          |     |          |           |          |         |          | with BFP inclusions                                  |
|            |           |             |          |          |          |          |     |          |           |          |         |          | 457-458' Clay-sericite gouge zone                    |
|            |           |             |          |          |          |          |     |          |           |          |         |          | 482-488' Good PMP. Cuts off quartz veins in adjacent |
|            |           |             |          |          |          |          |     |          |           |          |         |          | fine grained phase                                   |
|            |           |             | <u> </u> |          |          | _        |     |          |           |          |         |          | •                                                    |
|            |           |             |          |          |          |          |     |          | _         |          |         | <u> </u> |                                                      |
| 500        | 510       | ļ           |          |          |          | _        |     | _        |           |          | .06     | -        | 494.5-536 BFP, grey with pinkish tones               |
| ·          |           |             |          |          |          |          |     | _        |           |          |         |          | Very rare quartz veins, traces sulphides except in   |
| 520        | 530       |             |          |          | _        |          |     |          |           |          | .07     |          | major shear zone                                     |
|            |           |             |          |          |          |          |     | _        |           |          |         |          | Traces disseminated epidote                          |
|            |           |             | ļ        | ļ        |          |          |     |          |           |          | ļ       | <u> </u> |                                                      |
| . <u></u>  |           |             |          | 1        | 1        |          |     |          |           |          | <b></b> | ļ        | 510-528' shear zone, blocky, local gouge, green      |
|            |           |             | ļ        |          |          |          |     |          |           |          |         | ļ        | sericite alteration throughout. Pyritic shear        |
|            |           |             | <b> </b> | <u> </u> |          |          |     |          |           | <u> </u> |         |          | vein 0 to CA @ 510-513'. Gouge at 522-524'           |
|            |           |             | <b> </b> |          |          |          | ļ   | ļ        |           |          |         |          |                                                      |
| 530        | 540       |             |          |          |          |          |     |          |           |          | .11     | -        | 536-598 Fine-grained quartz diorite with 15-20% BFP  |
|            |           |             |          |          | <u> </u> |          |     |          |           |          |         |          | inclusions: essentially on intrusive breccia.        |
| <u>540</u> | 550       |             |          |          |          |          |     |          |           |          | .24     |          | Foliation very variable - mainly at approx. 45 to    |
|            |           |             |          |          |          |          |     |          |           |          |         | <br>     | CA. Quartz veins 16, to 1 wide, some with            |
| 550        | 560       |             |          | ļ        |          |          |     | +        |           |          | .16     |          | K-feldspar rims.                                     |
| <u> </u>   | 570       |             |          |          |          |          |     |          | <u> </u>  |          |         | 001      | Sulphides <1/2% (py/cpy > 1/1).                      |
| 560        | 570       |             |          | <u> </u> |          |          | +   |          |           |          | • 27    | .001     | Miner coloito voino                                  |
| E 70       | 500       |             |          |          |          |          |     |          |           |          |         |          | Minor calcile veins                                  |
| 570        | 580       |             |          |          |          |          |     |          |           |          | • 2.5   | 001      |                                                      |
| 580        | 590       |             |          |          |          |          |     |          |           |          | .38     | .001     | 590.5-596' Sericitized shear zone                    |
| 590        |           |             |          | <u> </u> |          |          |     |          |           |          | .13     |          | 598 FND OF HOLF                                      |
|            |           |             |          | <u> </u> |          |          |     |          |           |          |         | }        | <u>556</u> END OF HOLE                               |
|            |           |             |          |          |          |          |     |          |           | <u> </u> |         |          |                                                      |
|            |           |             |          |          | <u> </u> |          |     | ┼        |           |          |         |          |                                                      |
|            |           |             |          |          |          | <u> </u> |     | <u> </u> |           |          |         |          |                                                      |
|            |           |             |          |          |          | +        |     |          |           |          |         | <br>     |                                                      |
|            |           |             |          | <u> </u> | +        |          |     |          |           |          |         |          | ວິດ<br>ເ                                             |
|            |           |             |          |          |          |          |     | <u> </u> |           |          |         |          |                                                      |
|            |           |             |          | A A .    |          |          |     | 1        |           |          |         |          | 0,0                                                  |
| i ile se   | anned col | intesy of N | iew Cai  | mecn V   | renture  | s 1.id.  | nou | viacin   | ayre<br>T |          |         |          | h                                                    |

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APPENDIX III

ASSAY RESULTS

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AMAX boratoryAPR 16 1225 S. SPRINGER AVE., BURNABY, B.C. Rossbacher 1974 CANADA TELEPHONE: 299-6910 **GEOCHEMICAL ANALYSTS & ASSAYERS** AREA CODE: 604

VANCOUVER OFFICE

## CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C. V6E-3L2

AMAX order # 1846

CERTIFICATE NO. 4008

INVOICE 'NO. 4008

DATE RECEIVED April 8, 1974

DATE ANALYSED April 10, 1974

ATTN: Mr. C. Hodgson.

LENNAC LK. DDH. LL-74-1

| SAMPLE NO.:                    | م»<br>tot. Cu         | tot. Mo      | Footage           |          |          |
|--------------------------------|-----------------------|--------------|-------------------|----------|----------|
| 51651                          | .21                   | <del>ک</del> | 14 - 20           |          |          |
| 51652                          | .20                   | _            | 20 - 30           |          |          |
| 51653                          | •2h                   | -            | 30 - 40           |          |          |
| 51651                          | .29                   | -            | 40 - 50           |          |          |
| 51655                          | . 33                  | .001         | 50 - 60           |          |          |
| 51656                          | •]]                   | -            | 60 - 70           |          |          |
| 51657                          | .17                   |              | <b>7</b> 0 - 80   |          |          |
| 51658                          | .26                   |              | 80 - 90           |          |          |
| 51659                          | - 23                  | -            | 90 - 100          |          |          |
| 51660                          | 1/1                   |              | 100 - 110         |          |          |
| 51661                          | .12                   |              | 110 - 120         |          |          |
| 51662                          | ,16                   | ~            | 120 - 130         |          |          |
| 51663                          | .17                   | -            | 130 - 140         |          |          |
| 51661                          | .15                   | \$- <b>4</b> | 140 - 150         |          |          |
| 51665                          | 17                    | -            | 150 - 160         |          |          |
| 51666                          | .17                   | _            | 160 - 170         |          |          |
| 51667                          | 15                    | -            | 170 - 180         |          |          |
| 51668                          | .11                   | -            | <b>180 - 1</b> 90 |          |          |
| 51669                          | .15                   | _            | 190 - 200         |          |          |
| 51670                          |                       | -001         | 200 - 210         |          |          |
| 51671                          | .19                   | .003         | 210 - 220         |          |          |
| 51672                          | - 1),                 | .001         | 220 - 230         |          |          |
| 51673                          | .21                   | -002         | 230 - 240         |          |          |
| 51671                          | .).).                 | .002         | 240 - 250 .       |          |          |
| 51675                          | 15                    | •00h         | <b>250 - 260</b>  |          |          |
| 51676                          | .63                   | -003         | 260 - 270         |          |          |
| 51677                          | .30                   | •002         | <b>27</b> 0 - 280 |          |          |
| 51678                          | 12                    | •002         | <b>280 - 290</b>  |          |          |
| 51679                          | .32                   | •007         | <b>290 - 300</b>  |          |          |
| 51680                          | 36                    | .002         | 300 - 310         |          |          |
| 51681                          | 29                    | .001         | 310 - 320         |          |          |
| 51682                          | - 36                  | .002         | 320 - 330         |          |          |
| 51683                          | - 38                  | .001         | <b>330 -</b> 340  |          |          |
| 5168)                          | -52                   | .002         | <b>340 - 3</b> 50 |          |          |
| 51685                          |                       |              | <u> </u>          |          |          |
| 51686                          | 35                    | •00/i        | 360 - 370         |          |          |
| 51687                          | 23                    | .003         | 370 - 380         |          |          |
| 51688                          | <u>,06</u>            | .002         | 380 - 390         |          |          |
| 51689                          | -09                   | -            | 390 - 400         |          |          |
|                                | •••/                  |              |                   |          | <u> </u> |
|                                | •                     |              |                   | n n      | 12 lin   |
|                                |                       |              |                   | 1.       | ,2000    |
| scanned courtesv of New Canter | ch Ventures Ltd. / Do | n MacIntvre  | Certified by      | <u> </u> | -        |

File scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre

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Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA **TELEPHONE: 299-6910** AREA CODE: 604

# CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC.

Vancouver, B.C.

AMAX order # 1846.

| CERTIFICATE NO. | 4008  |         |
|-----------------|-------|---------|
| INVOICE NO.     | 4008  |         |
| DATE RECEIVED   | april | 8,1974  |
| DATE ANALYSED   | april | 10,1974 |

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601-535 Thurlow Street

LENNAC LK. DDH. LL-74-1

| ATTN: Mr. C. Hodgson. | LEN.     | NAC LK. DDH  | • 111            |         |        |
|-----------------------|----------|--------------|------------------|---------|--------|
| SAMPLE NO.:           | tot. Cu. | tot. Mo      | Footage          |         |        |
| 51690                 | .15      | -            | 400 - 410        |         |        |
| 51691                 | •13      | -            | 410 - 420        |         |        |
| 51692                 | • 32     | •002         | 420 - 430        |         |        |
| 51693                 | •16      | · 🕶          | 430 - 440        |         |        |
| 51694                 | .16      |              | 440 - 450        |         |        |
| 51695                 | •43      | <b>。</b> 005 | 450 - 460        |         |        |
| 51696                 | • 32     | <b>.01</b> 8 | 460 - 470        |         |        |
| 51697                 | •25      | .017         | 470 - 480        |         |        |
| 51698                 | .12      | -            | 480 - 490        |         |        |
| 51699                 | •08      |              | 490 - 500        |         |        |
| 51700                 | •11      |              | 500 - 510        |         |        |
| 51701                 | •23      | -            | 510 - 520        |         |        |
| 51702                 | .17      | -            | <b>520 -</b> 530 |         |        |
| 51703                 | .08      | -            | 530 - 540        |         |        |
| 51704                 | .08      | -            | 540 - 550        |         |        |
| 51705                 | .10      | ••           | 550 - 560        |         |        |
| 51706                 | .07      | -            | 560 - 570        |         | •      |
| 51707                 | .19      | ==           | 570 - 580        |         |        |
| 51708                 | 20       | -            | 580 - 590        |         |        |
| 51709                 | .12      |              | 590 - 603        |         |        |
|                       |          |              |                  | <u></u> | <.     |
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Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

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CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C.

ATTN: Mr. C. Hodgson

AMAX order # 1846

Lennac Lk. DDH. LL-74-2

CERTIFICATE NO.4011 INVOICE NO.4001 DATE RECEIVED April22, 1974 DATE ANALYSED April 24, 1974

|                                              | <u> </u>           | U/           |                                       |          |
|----------------------------------------------|--------------------|--------------|---------------------------------------|----------|
| SAMPLE NO.:                                  | tot. Cu            | tot. Mo      | Footage                               |          |
| <b>517</b> 36                                | •13<br>10          | <u>004</u>   | <u> </u>                              |          |
| 51738                                        | •09                | - 004        | 70 - 80                               |          |
| 51739<br>51710                               | •21<br>•21         | _003<br>_011 | 90 - 100<br>415.5 - 430               |          |
|                                              | 20                 | • • •        | 440 - 450                             | <u></u>  |
| 51741                                        | • 36<br>• 38       | .009         | 460 - 470                             | -        |
| 51743                                        | •23                | -028         | 480 - 490                             |          |
| B1743 -                                      | • 37               | 3009         | 520 - 530                             |          |
| 51746                                        | .12                | - 010        | 540 - 550                             | ······   |
| <b>51748</b>                                 | •25<br>•30         | 2007         | 580 - 590<br>580 - 590                |          |
| 51749                                        | • 34               | •023         | 600 - 606                             |          |
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| scanned courtesv of New Cantech Ventures Lto | I. / Don MacIntyre |              | and diad by                           | 1/2000   |

Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA **TELEPHONE: 299-6910** AREA CODE: 604

|                                     | CERTIFIC                             | ATE OF ANALYSIS               | CERTIFICATE NO. | цоти                                   |
|-------------------------------------|--------------------------------------|-------------------------------|-----------------|----------------------------------------|
| TO: AMAX EXPLORATION ]              | INC.                                 | Order # 1846                  | INVOICE NO.     | 1,015                                  |
| Vancouver, B.C.                     | 01660                                |                               | DATE RECEIVED   | May 17, 1974                           |
| ATTN: Mr. C.J.Hodgson               | đ                                    | LENNAC LAKE<br>DDH # LL. 74-2 | DATE ANALYSED   | May 20, 1974                           |
| SAMPLE NO.:                         | ر<br>totCu                           | tot Mo                        | Footage         |                                        |
| 31788                               | •07                                  | F=1                           | 110-120         |                                        |
| 51789                               | •07                                  | -                             | 150-160         |                                        |
| 51791                               | •09                                  | -                             | 190-200         |                                        |
| 51792                               | •13                                  | -                             | 210-220         |                                        |
| 51(73)<br>5170)                     | •07                                  | -005                          | 230-240         |                                        |
| 51795                               | .15                                  | •••••                         | 230-280         |                                        |
| 51796                               | .11                                  | -                             | 290-300         |                                        |
| 51797                               | •13                                  |                               | 310-320         |                                        |
| 51/98                               | •20                                  |                               | 330-340         |                                        |
| 1800                                | e09                                  | -025                          | 350-360         |                                        |
| 51801                               | •15                                  | .010                          | 370-380         |                                        |
| 51602                               | 21                                   | -010                          | 400=415 5       |                                        |
| 51803                               | • 39                                 | .007                          | 430-440         |                                        |
| 51804                               | • 32                                 | •004                          | 450-460         |                                        |
| 51805                               | .22                                  | •011                          | 470-480         |                                        |
| 51806                               | .16                                  | .015                          | 490-500         |                                        |
| 51807                               | <b>.</b> 18                          | .008                          | 510-520         |                                        |
| 51808                               | • 32                                 | •007                          | 530-540         |                                        |
| 51009                               | •15<br>25                            | •013                          | 550-560         |                                        |
| 51010                               | • 32                                 | •005                          |                 |                                        |
|                                     | -20                                  |                               | 590-600         | ······································ |
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| scanned courtesy of New Cantech Vel | ntures L <mark>.t</mark> d. / Don Ma | clntyrə Certified             | by              |                                        |

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Rossbacher Laboratory

# CERTIFICATE OF ANALYSIS

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TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C.

Amax order # 1846

Up P

LENNAC LK. DDH. LL 74-3

2225 S. SPRINGER AVE., BURNABY, B. C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

CERTIFICATE NO. 4010 INVOICE NO. 4010 DATE RECEIVED April 11;1974 DATE ANALYSED April 17,1974

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n.'

ATTN: Mr. C. Hodgson.

SAMPLE NO .:

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File scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre

tot. Cu tot. Mo Footage 60 - 70 .15 +006 70 -.25 **-**002 82 \_001 82 - 98 .07 **.**26 -002 98 - 110 <u>1</u>6 -004 110 - 120.31 .004 120 - 130 • 39 .001 130 - 140• 30 .001 140 - 150 .002 • 34 150 - 160 **\_**016 .13 160 - 170 .18 -002 170 - 180

|               |             | 1000         | 110 100            |   |     |
|---------------|-------------|--------------|--------------------|---|-----|
| 51721         | •94         | .00l         | 180 - 190          |   |     |
| 51722         | •43         | .002         | 190 - 200          |   |     |
| 51723         | • 36        | .005         | 200 - 210          |   |     |
| 51724         | .13         | 002          | 210 - 220          |   |     |
| 51725         | <b>_</b> 21 | -005         | 220 - 227.5        |   |     |
| 51726         | •09         | <b>_</b> 003 | <b>227.5 -</b> 240 |   | · 1 |
| 51727         | •05         | <b>~</b> 003 | 250 - 260          |   |     |
| <b>517</b> 28 | 1.88        | •008         | 456 - 461          |   | 1   |
| 51729         | • 30        | 00/1         | 461 - 469          |   |     |
| 51730         | • 34        | •003         | 469 - 477          | * |     |
| 51731         | .14         | _ 002        | 520 - 530          |   |     |
| 51732         | •29         | -005         | 540 - 550          |   |     |
| 51733         | • 35        | <b>a</b> 008 | 560 - 570          |   |     |
| 5173/1        | 25          | - 006        | 580 - 590          |   |     |

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600 - 613

Certified by

Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

# CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C. Order # 1846

CERTIFICATE NO. 4018 INVOICE'NO. 4015 DATE RECEIVED May 20, 1974 DATE ANALYSED May 23, 1974

ATTN: Mr. C.J. Hodgson

LENNAC LAKE DDH # LL. 74-3

| SAMPLE NO.:   | tot Cu      | %<br>tot Mo | Footage         |  |
|---------------|-------------|-------------|-----------------|--|
| 51812         | <b>•</b> 03 | -           | 430-440         |  |
| 51813         | •05         | -           | 440-456         |  |
| 51814         | •07         | -           | <b>477-</b> 490 |  |
| 51815         | •07         | -           | 490-500         |  |
| 51816         | .16         |             | 500-510         |  |
| 51817         | •15         | -           | 510-520         |  |
| 51818         | <b>.</b> 18 | -           | 530-540         |  |
| <b>51</b> 819 | • 31        | •008        | 550-560         |  |
| 51820 -       | • 34        | •004        | <b>570-</b> 580 |  |
| 51821         | <u></u>     |             | 590-600         |  |
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Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

# CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C. AMAX order # 1846

CERTIFICATE NO. 4011 INVOICE NO. 4001 DATE RECEIVED April 22, 1974 DATE ANALYSED April 24, 1974

ATTN: Mr. C. Hodgson

Lennac Lk. DDH. LL 74-4

| SAMPLE NO.:                               | tot. Cu                | tot. Mo | Footage                                |                                       |                 |
|-------------------------------------------|------------------------|---------|----------------------------------------|---------------------------------------|-----------------|
| 51750<br>51751                            | •13<br>•10             | -       | 46 - 60<br>60 - 70                     |                                       |                 |
| 51752                                     | •13                    | -       | 70 - 80                                |                                       |                 |
| 51753                                     | •15<br>•12             | -       | 80 - 90<br>90 - 100                    |                                       |                 |
| 51755                                     | <br>•18                |         | 100 - 110                              |                                       |                 |
| 51756                                     | • 30                   | .002    | 110 - 120                              |                                       |                 |
| 51757                                     | •11                    | · •••   | 120 - 130<br>130 - 140                 |                                       |                 |
| รี่ว่ารัง                                 | <b>.</b> 09            | -       | 140 - 150                              |                                       |                 |
| 51760                                     | <b>.</b> 12            | -       | 150 - 160                              |                                       |                 |
| 1 51701<br>51762                          | •07<br>•16             | -       | 170 - 180                              |                                       |                 |
| 5-763                                     | •12                    | -       | 180 - 190                              |                                       |                 |
| 51704                                     |                        |         | 190 - 200                              |                                       |                 |
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| e scanned courtesy of New Cantech Venture | s Ltd. / Don MacIntyrə |         | Certified by                           | 1. 12                                 | <u></u>         |
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Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC 601-535 Thurlow Street Vancouver, B.C.

LENNAC LAKE DDH # LL. 74-4

Order # 1846

CERTIFICATE NO. 4018 INVOICE NO. 4015 DATE RECEIVED May 20, 1974 DATE ANALYSED May 23, 1974

ATTN: Mr. C.J. Hodgson

| SAMPLE NO.: | tot Cu      | tot Mo                                | Footage         |                                                    |
|-------------|-------------|---------------------------------------|-----------------|----------------------------------------------------|
| 51822       | •09         | 9                                     | 210-220         |                                                    |
| 51823       | •05         | -                                     | 230-240         |                                                    |
| 51824       | •08         | -                                     | 250-260         |                                                    |
| 51825       | .11         | -                                     | 270-280         |                                                    |
| 51826       | <u>02</u>   | ·····                                 | 290-300         |                                                    |
| 51828       | •11         | -                                     | 310-320         |                                                    |
| 51829       | <b>0</b> 2  | -                                     | 330-340         |                                                    |
| 51830       | .17         | -                                     | 370-380         |                                                    |
| 51831       | •08         | -                                     | 390-400         |                                                    |
| 51832       | •14         | · · ·                                 | 410-420         |                                                    |
| 51833       | •12         |                                       | 430-440         |                                                    |
| 51834       | <b>.</b> 10 | -                                     | 450-460         |                                                    |
| 51835       | •12         | -                                     | <b>470-4</b> 80 |                                                    |
| 51836       | <b></b> 07  |                                       |                 |                                                    |
| 51837       | •26         | •00l                                  | 510-520         |                                                    |
| 51838       | •14         | -                                     | 530-540         |                                                    |
| 31838       | •08         | -                                     | 550-560         |                                                    |
| 51811       | •00         | _                                     | 570-580         |                                                    |
|             |             |                                       |                 |                                                    |
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Certified by

Rossbacher Laboratory

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 601-535 Thurlow Street Vancouver, B.C.

AMAX order # 1846

ATTN: Mr. C. Hodgson

Lennac Lk. DDH. LL 74-5

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA **TELEPHONE: 299-6910** AREA CODE: 604

CERTIFICATE NO. 4011 INVOICE NO. 4011 DATE RECEIVED April 22, 1974 DATE ANALYSED April 24, 1974

| SAMPLE NO.:                | tot. Cu                               | ≁<br>tot. Mo | Footage          |                                       |
|----------------------------|---------------------------------------|--------------|------------------|---------------------------------------|
| 51765                      | •12                                   | -            | 40 - 50          |                                       |
| 51766                      | <b>2</b> 3                            | -            | 60 - 70          |                                       |
| 51767                      | .16                                   | -            | 80 - 90          |                                       |
| 57768                      | •17                                   | _            | 100 - 110        |                                       |
| 51770                      | •13                                   |              | 120 - 150        |                                       |
| 51771                      | • 20<br>26                            | <b>1</b> 003 | 160 - 170        |                                       |
| 51772                      | •20<br>.18                            |              | 180 - 190        |                                       |
| 51773                      | •10                                   |              | 200 - 210        |                                       |
| 51774                      | .21                                   | -            | 220 - 230        |                                       |
| 51775                      | •19                                   |              | 240 - 250        |                                       |
| 51/76                      | •22                                   | -            | 260 - 270        |                                       |
| 1777                       | •18                                   | -            | <b>280 -</b> 290 |                                       |
| 51779                      | •17                                   | -            | 300 - 310        |                                       |
| <b>517</b> 80              | • )4                                  | <u> </u>     | 320 - 330        |                                       |
| 51781                      | زر •<br>۱۱،                           | •004         | 300 - 370        |                                       |
| 51782                      | .19                                   | T .          | 440 - 450        |                                       |
| 51783                      | .10                                   | =            | 480 - 490        |                                       |
| 51784                      | •07                                   | <b></b>      | 520 - 530        |                                       |
| 51785                      | •27                                   | _001         | 560 - 570        | 4                                     |
| 51786                      | • 38                                  | <b>_0</b> 01 | 580 - 590        |                                       |
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| canned courtesy of New Can | tech Ventures L <b>.t</b> d. / Don Ma | clntvre      | Certified by     | 11 2/1-                               |

Rossbacher Laboratory

2225 S. SPRINGER AVE., BURNABY, B.C. CANADA TELEPHONE: 299-6910 AREA CODE: 604

4018

| GEOCHEMICAL | ANALYSTS | & ASSAY | ERS |
|-------------|----------|---------|-----|
|-------------|----------|---------|-----|

#### CERTIFICATE OF ANALYSIS CERTIFICATE NO. INVOICE NO. Order # 1846 4015 TO: AMAX EXPLORATION INC. 601-535 Thurlow Street May 20, 1974 DATE RECEIVED LENNAC LAKE Vancouver, B.C. May 23, 1974 DDH # LL. 74-5 DATE ANALYSED

ATTN: Mr. C.J. Hodgson

| Color         Color         Color           220         220         310-320           51842         28         colu         330-340           51844         19         -         340-350           51845         30         colof         350-360           51846         30         colof         370-380           51846         20         -         380-390           51847         20         -         380-390           51849         21         -         420-430           51849         21         -         420-430           51850         -15         -         460-470           51851         -         66         -         500-510           51852         -         11         -         530-560           51852         -         126         -         590-598           51854         -         550-560         513         -           51855         -         25         -         570-598           51856         -         13         -         590-598 | SAMPLE NO.:                    | بر<br>tot. Cu                | ル<br>tot Mo  | Footage         |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|--------------|-----------------|--------|
| 28       .001       330-340         51814       .19       -       340-350         51814       .19       -       340-350         51814       .90       .005       370-380         51814       .10       -       .390-400         51814       .16       -       .390-400         51814       .16       -       .390-400         51814       .16       -       .390-400         51814       .16       -       .390-400         51814       .16       -       .390-400         51850       .15       -       460-470         51851       .06       -       .500-510         51853       .21       -       .540-550         51854       .16       -       .590-580         51855       .25       -       .500-598         51856       .13       -       .590-598         51856       .13       -       .590-598         51856       .13       -       .590-598         51856       .13       -                                                                                        | 51802                          | .20                          | .003         | 310-320         |        |
| 51814<br>51845       .19       -       340-350         51845       .30       .005       350-360         51847       .20       -       380-390         51848       .16       -       -       390-400         51849       .21       -       420-430         51850       .15       -       460-470         51851       .06       -       500-510         51852       .11       -       530-540         51852       .21       -       540-550         51853       .24       -       540-550         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                              | 518/3                          | _28                          | -004         | 330-340         |        |
| 21011       30       .005       350-360         51017       .20       -       .380-390         51017       .20       -       .390-400         51017       .21       -       .420-430         51018       .15       -       .400-430         5105       .06       -       .500-510         5105       .06       -       .500-510         51053       .21       -       .540-550         51053       .21       -       .540-550         51053       .24       -       .540-550         51855       .25       -       .570-580         51856       .13       -       .590-598                                                                                                                                                                                                                                                                                                                                                                                                       | 5181.1                         | 19                           |              | 340-350         |        |
| 51616       .30       .006       370-380         51617       .20       -       .380-390         51848       .16       -       -         51850       .15       -       .400-430         51851       .006       -       .500-510         51850       .15       -       .460-470         51852       .11       -       .530-540         51852       .11       -       .530-540         51852       .11       -       .530-560         51853       .25       .25       -         51854       .16       -       .590-598         51855       .25       -       .590-598         51856       .13       -       .590-598                                                                                                                                                                                                                                                                                                                                                                | 51815                          | . 30                         | <b>_</b> 005 | 350-360         |        |
| 200       -       380-390         518L#       .16       -       390-400         518L#       .16       -       400-430         51850       .15       -       460-470         51851       .06       -       500-510         51852       .11       -       530-540         51853       .24       -       540-550         51853       .24       -       550-560         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 518/6                          | . 30                         | .006         | 370-380         |        |
| 51816       .16       -       .390-400         51850       .21       -       420-430         51850       .15       -       460-470         51851       .06       -       500-510         51852       .11       -       530-540         51853       .24       -       540-550         51853       .24       -       540-550         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 51847                          | .20                          |              | 380-390         |        |
| 51849       .21       -       420-430         51850       .15       .06       -         51851       .06       -       530-510         51852       .11       -       530-550         51853       .24       -       540-550         51854       .16       -       550-560         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51848                          | •16                          | -            | - 390-400       |        |
| 51850       .15       -       460-470         51851       .06       -       500-510         51852       .11       -       530-540         51853       .24       -       540-550         31854       .16       -       550-560         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 51849                          | .21                          | <b></b> .    | 420-430         |        |
| 51851       .06       -       500-510         51852       .11       -       530-540         51853       .24       -       540-550         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 51850                          | •15                          | -            | 460-470         |        |
| 51852 • 11 - 530-540<br>51853 • 24 - 540-550<br>51854 • 16 - 550-560<br>51855 • 25 - 570-580<br>51856 • 13 - 590-598<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 51851                          | •06                          | -            | 500-510         |        |
| 51853 .24 - 540-550<br>51855 .25 - 570-580<br>51856 .13 - 590-598<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51852                          | ell.                         | <b>,</b>     | 530-540         |        |
| j1851       .16       -       550-560         51855       .25       -       570-580         51856       .13       -       590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 51853                          | •24                          | -            | 540-550         |        |
| 51855                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>j1</b> 854                  | •16                          | -            | 550-560         |        |
| 51856 .13 - 590-598                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51855                          | •25                          | -            | <b>570-</b> 580 |        |
| sconned courtiesy of New Contech Ventures LM. / Don MacIntyro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 51856                          | •13                          | en           | 590-598         |        |
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| scanned courtesy of New Cartech Ventures Ltd. / Don MacIntyre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                              |              |                 |        |
| scanned courtesy of New Cantech Ventures Let. / Don MacIntyre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                              | - ·          |                 |        |
| scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                              | e            |                 |        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | scanned courtesy of New Cantec | h Ventures L.td. / Don MacIn | tyre         | Certified by/   | ANIC   |
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Rossbacher Laboratory

# CERTIFICATE OF ANALYSIS

|                           |                                 |                 | the second second |
|---------------------------|---------------------------------|-----------------|-------------------|
| TO: AMAX EXPLORATION INC. | Order # 1846                    | VAL INVOICE NO. | L023E             |
| 601-535 THURLOW STREET    |                                 | DATE RECEIVED   | June, 1974        |
| ATTN: Mr. C. Hodgson      | LENNAC LAKE<br>Au/Ag composites | DATE ANALYSED   | June 7, 1974      |
| $o_z/t$ $o_z/t$           |                                 |                 |                   |

2225 S. SPRINGER AVE.,

CANADA TELEPHONE: 299-6910 AREA' CODE: 604

JUN 14 1074

CERTIFICATE NO. 4022

BURNABY, B.C.

| SAMPLE NO .:                         | $o_Z/t$<br>Au                     | oz/t<br>Ag                           | Sample Nos.                                                                | Drill Hole                                          | Footage                                             |
|--------------------------------------|-----------------------------------|--------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Composite #1<br>#2<br>#3<br>#4<br>#5 | tr.*)<br>tr.<br>tr.<br>tr.<br>tr. | 0.09<br>0.07<br>0.07<br>0.05<br>0.05 | 51670-51674<br>51675-51679<br>51680-51684<br>51685-51687<br>51741 42 51803 | LL 74-1<br>"<br>"                                   | 200-250<br>250-300<br>300-350<br>350-380<br>430-470 |
| #6<br># <b>7</b><br>#8:<br>#9        | tr.<br>tr.<br>tr.<br>tr.          | 0.07<br>0.09<br>0.05<br>0.05         | 51748,49,51810,1<br>51713-51716<br>51717-51720<br>51721-51725              | LL 74-2<br>LL 74-3<br>LL 74-3<br>LL 74-3<br>LL 74-3 | 570-606<br>98-145<br>140-180<br>180-227.5           |

| 1                                                               |              |
|-----------------------------------------------------------------|--------------|
| *) tr. • gold value less than 0.001 oz p                        | er ton.      |
| e scanned courtesy of New Cantech Ventures Ltd. / Don MacIntyre | Certified by |
| ,                                                               |              |

## APPENDIX IV

## THIN SECTION DESCRIPTIONS

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7

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## PETROGRAPHIC REPORT LL-74-1 283 feet

Collected and Examined by C.J. Hodgson April 16, 1974

<u>Macroscopic Description</u> - Typical Biotite-Feldspar Porphyry (BFP) cut by guartz vein stockwork.

#### Phenocrysts

Plagioclase phenocrysts (20%) - euhedral laths to 7 mm.

Quartz phenocrysts (8%) - euhedral grains to 7 mm.

Mafic phenocrysts (5%) - originally biotite ? now composed of variously oriented biotite flakes in chlorite, with opaques and rutile.

## Groundmass

Matrix is essentially K-feldspar (40%) and quartz (25%) with accessory biotite and chlorite (2%). Biotite has pale-dark greeny brown pleochroism.

#### Veins

Quartz veins in the BFP contain pyrite, calcite and chlorite.

General Remarks

Biotite alteration, with weak retrograde chloritization.

# PETROGRAPHIC REPORT LL-74-1 598 feet

Collected and Examined by C.J. Hodgson April 17, 1974

## Macroscopic Description - Fresh BFP

## Phenocrysts

Plagioclase (25%) - very fresh, replicate zoning, up to 1 cm. Quartz (10%) - to 8 mm. Biotite (3%) - reddish brown pleochroism. Amphibole (14%) - completely pseudomorphed by secondary green biotite.

## Groundmass

K-feldspar (25%) Plagioclase (10%) Quartz (25%) Mica (2%)

## Veins

One quartz vein

One hairline K-feldspar-biotite-chlorite veinlets.

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PETROGRAPHIC REPORT LL-74-2 37 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description - Andesite breccia

Phenocrysts

Plagioclase (10%)phenocrysts

Groundmass

Plagioclase (55%)
Biotite (20%) - greeny brown. Fine grained in matrix and coarser
 grained amphibole pseudomorphs
Chlorite (5%)
Carbonate (3%)
Sphene (1%)
Epidote (2%)
Apatite (1%)
Sulphides (3%) (pyrite mainly)

## Veins

- (1) quartz vein
- (2) pyrite-epidote-chlorite-K-feldspar-carbonate

PETROGRAPHIC REPORT LL-74-2 380.5 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description - BFP

Phenocrysts

Plagioclase (30%) - weak clouding
Quartz (5%)
Biotite (2%) - some primary chestnut brown biotite, most shows
varying degrees of alteration to secondary green biotite flakes.

GROUNDMASS

K-feldspar, plagioclase, quartz, green biotite.

## VEINS

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Quartz-sulphide veins with K-feldspar selvages.

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## PETROGRAPHIC REPORT LL-74-3 142 feet

Collected and Examined by C.J. Hodgson April 16, 1974

<u>Macroscopic Description</u> - BFP cut by a quartz vein with secondary biotite. Staining indicates abundant K-feldspar in matrix.

## Phenocrysts

Plagioclase phenocrysts (20%) - weak kaolinized Biotite phenocrysts (5%) - chestnut brown pleochroism Quartz phenocrysts (3%) - up to 5 mm. diameter

## Groundmass

Is very fine grained K-feldspar, quartz, (plagioclase ?) biotite. The latter is in ragged aggregates, has greenish brown pleochroism, and is presumed secondary.

General Remarks

Biotite alteration

# PETROGRAPHIC REPORT LL-74-3 202 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description - BFP

Phenocrysts

Plagioclase (25%) Quartz (2%) Biotite (5%) - fresh chestnut brown

Groundmass

K-feldspar (25%) Quartz (30%) Plagioclase (10%) Biotite - green secondary

## Veins

Quartz-sulphide veins with K-feldspar selvages; K-feldspar veinlets

General Remarks

K-feldspar - biotite alteration

11

## PETROGRAPHIC REPORT LL-74-3 552 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description Plagioclase porphyry andesite

Groundmass

Plagioclase - 55% Biotite (25%) - brown Amphibole - 4% Quartz - 15% Clinozoisite - 1% Opaques - <1% Sphene - <1%

## Veins

Minor quartz veins and pyrite veins

## General Remarks

Porphyritic nature is not obvious under the microscope. Rather, patches with greater and lesser amounts of biotite. The rock is uniformly fine grained and recrystallized.

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## PETROGRAPHIC REPORT LL-74-3 263 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description Post-Mineral Porphyry (PMP)

## Phenocrysts

Plagioclase (25%) - replicate zoning, absolutely fresh, to 1 cm. Quartz (6%) - to 3 cm. Amphibole (5%) pale green, poikilitic, with plagioclase biotite Biotite (3%) - chestnut brown Apatite (<1%) Opaques (<1%)</pre>

#### Groundmass

Very fine grained mixture of K-feldspar, plagioclase, quartz

#### General Remarks

Rock is distinguishable from BFP by (a) unaltered state of plagioclase and presence of primary amphibole (altered to secondary biotite in BFP); (b) finer grained texture of matrix; and (c) absence of quartz or other veins.

## PETROGRAPHIC REPORT LL-74-4 52.5 feet

Collected and Examined by C.J. Hodgson April 17, 1974

## Macroscopic Description BFP

## Phenocrysts

#### Groundmass

Very fine grained mixture of quartz (25%) + K-feldspar (35%)

## Veins

Minor quartz, quartz-K-feldspar, and K-feldspar-pyrite veinlets

## General Remarks

Biotite alteration zone. Matrix in this sample is finer grained than average BFP.

## PETROGRAPHIC REPORT LL-74-4 426.5 feet

Collected and Examined by C.J. Hodgson April 17, 1974

## Macroscopic Description Darker grey BFP or PMP

#### Phenocrysts

Plagioclase (25%) - very fresh, to 8 mm. Quartz (10%) - to 15 mm. Biotite (3%) Amphibole (5%) Apatite (1%)

Groundmass (55%)

Very fine grained mixture of K-feldspar (25%), quartz (25%), and plagioclase (5 ?).

## Veins

Quartz - K-feldspar veins.

#### General Remarks

Abundance of amphibole plus presence of apatite phenocrysts and very fine grained matrix suggest PMP. But veining suggests weak potassic alteration of BFP.

## PETROGRAPHIC REPORT LL-74-4 524 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description BFP or Porphyritic Quartz Diorite

## Phenoerysts

Quartz (5%) Plagioclase (35%)

## Groundmass

Plagioclase (25%) Quartz (25%) Biotite (3%) - greenish brown Amphibole (3%) - almost colourless Opaques, apatite (1%)

#### Veins

Quartz - K-feldspar veins are numerous. Rare biotite veins.

## General Remarks

This rock is quartz diorite porphyry, distinguished from BFP by absence of K-feldspar in matrix. Biotite is commonly in clusters - could be after amphibole.

5

## PETROGRAPHIC REPORT LL-74-5 332 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description Andesite

Groundmass

Plagioclase (70%) - subporphyritic Opaques (1%) Biotite (25%) - greeny brown

## Veins

Quartz veins with carbonate cores and K-feldspar selvages. Also guartz-sulphide veins.

5

## PETROGRAPHIC REPORT LL-74-5 442 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description Fine grained porphyritic quartz diorite

Phenocrysts

Plagioclase (25%) - ragged, moderately altered to carbonate
Biotite (2%) - brownish green
Quartz (5%)
Apatite (<1%)</pre>

Groundmass

Plagioclase (25%)
Quartz (25%)
K-feldspar (10%) (much of it may be introduced)
Biotite (3%)

## Veins

Quartz - K-feldspar - carbonate K-feldspar
PETROGRAPHIC REPORT LL-74-5 447 feet

Collected and Examined by C.J. Hodgson April 17, 1974

Macroscopic Description Fine grained porphyritic quartz diorite

## Phenocrysts

Plagioclase (25%) - weak to moderate clouding Quartz (5%) Biotite (3%) - chestnut brown Apatite (<1%)

## Groundmass

Plagioclase (25%) Quartz (25%) Biotite (5%) green-brown Chlorite (2%) K-feldspar (10% ?)

### Veins

Quartz - K-feldspar K-feldspar <u>+</u> pyrite

## General Remarks

BFP inclusion on one end of section

2





## ANNIVERSARY DATES

| July | 27, | 1975. |
|------|-----|-------|
| July | 27, | 1976. |
| July | 27, | 1977. |
| July | 27, | 1978. |
| July | 27, | 1980. |
| July | 27, | 1981. |
| July | 27, | 1983. |
| July | 27. | 1984. |

AMAX POTASH LIMITED LENNAC LAKE COPPER PROPERTY OMINECA MINING DIVISION-BRITISH COLUMBIA

## CLAIM MAP THEZAR CLAIMS

1"= 1600'

To accompany report "LENNAC LAKE DRILL PROGRAM-1974" by: C. J. Hodgson

> June, 1974 N.T.S. Ref. 93 L 9, 16

FIG. 2



| And the state of the second distance of                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| UL-73-24<br>UL-73-23<br>H H N N<br>N N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 5<br>5                                                                                                          | LEGEND<br>Post mineral porphyry.<br>Porphyritic quartz diorite.<br>Biotite teldspar quartz porphyry.<br>Hazelton Group - Siltstone, greywacke.<br>Hazelton Group - Andesitic flows and pyroclastics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                 | Geological contact (defined, approximate, assumed).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                 | •(0.B.)<br>•LL-73-22 Percussion drill hole; (0.B.) Denote hole abandoned in overburden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| 76                                                                                                              | Road.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| the second se |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                 | Claim post, claim location line .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| .  <br>                                                                                                         | Claim boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 00 +                                                                                                            | Stream.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7 84                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -73-5 $-73-21$                                                                                                  | AMAX POTASH LIMITED<br>LENNAC LAKE COPPER PROPERTY<br>OMINECA MINING DIVISION — BRITISH COLUMBIA<br>DIAMOND DRILL HOLES<br>GENERALIZED GEOLOGY AND ASSAY DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LL HOLES                                                                                                        | SCALE FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| -74-5                                                                                                           | Date 21/6/74 F/G. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                 | 93 L 9, 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                 | Image: State of the state |

| 12                      |                                                                    | <u>LEGEND</u>                                                                                                                                       |
|-------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| ATIO                    |                                                                    |                                                                                                                                                     |
| Py R<br>Sulph<br>VEIN   |                                                                    | 5 Post mineral porphyry.                                                                                                                            |
| Py/c<br>%               | <b>9</b> % %                                                       | 4 Porphyritic quartz diorite                                                                                                                        |
|                         | 0.21 6'<br>0.20<br>0.24                                            | Biotite feldspar quartz porphyry.                                                                                                                   |
|                         | 0.29<br>0.33 0.001                                                 | Hazelton Group — Siltstone and greywacke.                                                                                                           |
| Approx. Datum Elevation | 0.17<br>0.26<br>0.23                                               | 3,000' Hazelton Group — Andesitic flows and pyroclastics.                                                                                           |
|                         | 0.14<br>0.12<br>0.16<br>0.17                                       | Shear zone .                                                                                                                                        |
|                         | 0.15                                                               |                                                                                                                                                     |
|                         | 0.17                                                               | Intusive breccia.                                                                                                                                   |
|                         | 0.15<br>0.11<br>0.15<br>0.41 0.001<br>0.19 0.003                   | $ \begin{array}{cccc} & < 1 \\ \hline & 1 & - & 3 \\ \hline & - & - & 6 \\ \hline & - & 7 & - & 12 \end{array} \end{array} \right\} % Vein quartz $ |
|                         | 0.14 0.001<br>0.21 0.002<br>0.44 0.002<br>0.45 0.004<br>0.63 0.003 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                               |
|                         | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$              | Mo $> 5/1$<br>= 4/1 - 2/1<br>1/1 - 1/2 Py/Cpy Ratio                                                                                                 |
|                         | 0.38 0.001<br>0.52 0.002<br>0.35 0.002<br>0.35 0.004<br>0.23 0.003 | CO-ORDINATES 114+00 N                                                                                                                               |
|                         | 0.06 0.002                                                         | 76 + 25 E                                                                                                                                           |
|                         | 0.15                                                               | COLLAR ELEVATION 3,090'                                                                                                                             |
|                         | 0.13                                                               | AZIMUTH AT COLLAR                                                                                                                                   |
|                         | 0.16<br>0.16<br>0.43 0.005<br>0.32 0.018<br>0.25 0.017             | TOTAL DEPTH 603'                                                                                                                                    |
|                         | 0.08                                                               |                                                                                                                                                     |
|                         | 0.11                                                               | AMAX POTASH LIMITED                                                                                                                                 |
|                         | 0.17<br>0.08<br>0.08                                               | CHENNAC LAKE COPPER PROPERTY<br>OMINECA MINING DIVISION - BRITISH COLUMBIA                                                                          |
|                         | 0.10<br>0.07<br>0.19                                               | DIAMOND DRILL HOLE SECTION<br>LL-74-1                                                                                                               |
|                         | 0.20<br>0.12 13'                                                   | 2,500<br>SCALE 50 0 50<br>FEET I: 600                                                                                                               |
|                         |                                                                    | To accompany report " LENNAC LAKE DRILL PROGRAM - 1974"<br>by: C. J. Hodgson                                                                        |

N. T. S. Ref 93 L.9 , 16 FIG. 4 a



| LE        | <u>GEND</u>                                                                 |
|-----------|-----------------------------------------------------------------------------|
|           |                                                                             |
| 5         | Post mineral porphyry.                                                      |
| 4         | Porphyritic quartz diorite                                                  |
| 3         | Biotite feldspar quartz porphyry.                                           |
|           |                                                                             |
| 2 .       | Hazelton Group — Siltstone and greywacke.                                   |
|           | Hazelton Group — Andesitic flows and pyroclastics.                          |
|           |                                                                             |
| ~~        | Shear zone                                                                  |
| -;-       | Intusive breccia.                                                           |
| ·····     | $ \begin{cases} < 1 \\ 1 - 3 \\ 4 - 6 \\ 7 - 12 \end{cases} $ % Vein quartz |
| · · · · · | < 1 1 - 3 4 - 6 > 6 % Sulphides                                             |
| ······    | > 5/1<br>4/1 - 2/1<br>1/1 - 1/2<br>Py/Cpy Ratio                             |

| CO-ORDINATES |      | 11    | 4 + 00 N |          |  |
|--------------|------|-------|----------|----------|--|
|              |      |       | 8        | 0 + 00 E |  |
| COLLAR       | ELEV | ATION | 3,       | 065'     |  |
| AZIMUTH      | ı –  | -     | AT       | COLLAR   |  |
| INCLINA      | TION | -900  | AT       | COLLAR   |  |
|              |      |       |          |          |  |

TOTAL DEPTH 606'

## AMAX POTASH LIMITED

LENNAC LAKE COPPER PROPERTY MINING DIVISION - BRITISH COLUMBIA

# DIAMOND DRILL HOLE SECTION LL-74-2

SCALE 50 0 50 FEET 1 : 600

To accompany report " LENNAC LAKE DRILL PROGRAM - 1974" by: C. J. Hodgson

> N. T. S. Ref 93 L.9, 16 FIG. 4b



| <u>L E</u> | <u>GEND</u>                                        |
|------------|----------------------------------------------------|
|            |                                                    |
| 5          | Post mineral porphyry.                             |
| 4          | Porphyritic quartz diorite                         |
| 3          | Biotite feldspar quartz porphyry.                  |
|            |                                                    |
| 2          | Hazelton Group — Siltstone and greywacke.          |
|            | Hazelton Group — Andesitic flows and pyroclastics. |
|            |                                                    |
| ~~         | Shear zone                                         |
| -;-        | Intusive breccia.                                  |
| · · · · ·  | <1<br>1 - 3<br>4 - 6<br>7 - 12<br>}% Vein quartz   |
| ·····      | < 1<br>1 - 3<br>4 - 6<br>> 6                       |
|            | > 5/1<br>4/1 - 2/1<br>1/1 - 1/2<br>Py/Cpy Ratio    |
|            | CO-ORDINATES 112+00 N                              |
|            | 74 + 64  E                                         |
|            | AZIMUTH 3039 AT COLLAR                             |
|            | INCLINATION - 46° AT COLLAR                        |
|            | TOTAL DEPTH 613'                                   |

## AMAX POTASH LIMITED

LENNAC LAKE COPPER PROPERTY MINING DIVISION - BRITISH COLUMBIA

# DIAMOND DRILL HOLE SECTION LL-74-3

SCALE 50 0 50 FEET I 600

To accompany report "LENNAC LAKE DRILL PROGRAM - 1974" by: C.J. Hodgson

> N. T. S. Ref 93 L.9, 16 FIG. 4C



| <u>L E</u> | <u>GEND</u>                                                         |
|------------|---------------------------------------------------------------------|
|            |                                                                     |
| 5          | Post mineral porphyry.                                              |
| 4          | Porphyritic quartz diorite                                          |
| 3          | Biotite feldspar quartz porphyry.                                   |
| 2          | Hazelton Group — Siltstone and greywacke.                           |
| 2-01-X     | Hazelton Group — Andesitic flows and pyroclastics.                  |
|            |                                                                     |
| ~~         | Shear zone .                                                        |
|            |                                                                     |
| - ; -      | Intusive breccia.                                                   |
|            |                                                                     |
|            | 1 - 3 % Vein quartz                                                 |
|            | 4 - 6                                                               |
|            |                                                                     |
|            | </td                                                                |
| •••••      | 1 - 3<br>% Sulphides                                                |
|            |                                                                     |
|            |                                                                     |
|            | > 5/1<br>4/1 - 2/1<br>1/1 - 1/2<br>Py/Cpy Ratio                     |
|            |                                                                     |
|            |                                                                     |
|            | CO-ORDINATES 108+00 N                                               |
|            | <i>73 + 93</i> E                                                    |
|            | COLLAR ELEVATION 3,050'                                             |
|            | AZIMUTH 300° AT COLLAR                                              |
|            | INCLINATION - 46° 30' AT COLLAR<br>- 48° at 597'                    |
|            | TOTAL DEPTH 597'                                                    |
| •          | AMAX POTASH LIMITED                                                 |
|            | AC LAKE COPPER PROPERTY<br>ECA MINING DIVISION - BRITISH COLUMBIA   |
|            |                                                                     |
| DIAM       | LL-74-4                                                             |
|            | 50 0 50                                                             |
|            | SCALE FEET                                                          |
| To accomp  | any report " LENNAC LAKE DRILL PROGRAM - 1974"<br>by: C. J. Hodgson |
|            | N. T. S. Ref 93 L.9 , 16                                            |
|            | FIG. 4d                                                             |



A SHE

| LE                                         | <u>GEND</u>                                        |  |
|--------------------------------------------|----------------------------------------------------|--|
|                                            |                                                    |  |
| 5                                          | Post mineral porphyry.                             |  |
| 4                                          | Porphyritic quartz diorite                         |  |
| 3                                          | Biotite feldspar quartz porphyry.                  |  |
|                                            |                                                    |  |
| 2                                          | Hazelton Group — Siltstone and greywacke.          |  |
|                                            | Hazelton Group — Andesitic flows and pyroclastics. |  |
|                                            |                                                    |  |
| ~~                                         | Shear zone .                                       |  |
|                                            |                                                    |  |
|                                            | Infusive Dreccia.                                  |  |
|                                            | </td                                               |  |
|                                            | 4 - 6 % Vein quartz                                |  |
|                                            | 7 - 12                                             |  |
|                                            |                                                    |  |
| •••••                                      | 1 - 3 % Sulphides                                  |  |
|                                            | $\begin{array}{c} 4 - 6 \\ > 6 \end{array}$        |  |
|                                            | > 5/1<br>4/1 - 2/1<br>1/1 - 1/2<br>Py/Cpy Ratio    |  |
|                                            |                                                    |  |
|                                            |                                                    |  |
|                                            | CO-ORDINATES 108+00 N                              |  |
|                                            | 78+00 E                                            |  |
|                                            | COLLAR ELEVATION 3,062'                            |  |
|                                            | AZIMUTH AT COLLAR                                  |  |
|                                            | INCLINATION - 90° AT COLLAR                        |  |
|                                            | TOTAL DEPTH 598'                                   |  |
|                                            |                                                    |  |
|                                            | AMAX POTASH LIMITED                                |  |
| LENNA                                      | AC LAKE COPPER PROPERTY                            |  |
| OMINECA MINING DIVISION - BRITISH COLUMBIA |                                                    |  |
| DIAMOND DRILL HOLE SECTION<br>LL-74-5      |                                                    |  |

SCALE 50 0 50 FEET I: 600

To accompany report "LENNAC LAKE DRILL PROGRAM - 1974" by: C. J. Hodgson