

ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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NAT JOINT VENTURE

DIAMOND DRILLING REPORT

LILYPAD 1-429 and NEWT 1-132, 135-163 CLAIMS

DECEMBER, 1982



Claim Sheets 115J/8 and 115I/5

Latitude 62°27'N; Longitude 137°57'W

W.D. Eaton, B.A., B.Sc.

Work done between June 15 and July 19, 1982

091435

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INTRODUCTION

Attention was first drawn to the Lilypad area in 1979 when reanalysis of samples known to be anomalous in lead returned coincident silver anomalies. The core of the anomalous area was staked as the Lilypad 1 to 16 claims by Archer, Cathro and vended to NAT in early 1980. Sampling and prospecting by NAT during the 1980 field season extended and amplified the anomalous areas (in gold, silver, arsenic and lead) and located 27 mineralized vein occurrences associated with prominent topographic linears. By the end of 1980, a total of 423 Lilypad and Newt claims had been staked.

In 1981 additional claims were staked bringing the total to 590 and an integrated program of surveying, mapping and sampling of linears, bulldozer trenching and airstrip construction was undertaken. This work resulted in discovery of more than 50 additional veins from which selected specimens returned up to 0.784 oz/ton Au and 245.0 oz/ton Ag. Unfortunately, trenching indicated that a characteristic of the veins is that most are narrow and erratically mineralized.

The 1982 program consisted of limited geological mapping and 637 m of diamond drilling in 7 holes with emphasis on definition of mineral and metal zoning patterns, determination of silver-lead ratios below the zone of weathering, and testing continuity of mineralization below the best occurrences exposed by bulldozer trenching.

PROPERTY, LOCATION AND ACCESS

The Lilypad property consists of 590 contiguous Lilypad and Newt claims forming a sub-rectangular northwest-trending block approximately 16 km long and 13 km wide. Claims are registered in the name of Archer, Cathro & Associates (1981) Limited in the Whitehorse Mining District as follows:

| <u>Property (Claim Map)</u> | <u>Claim Names</u> | <u>No. of Claims</u> | <u>Grant Numbers</u> | <u>Expiry Date</u> |
|---------------------------------|--------------------|--------------------------|----------------------|--------------------|
| Lilypad (115I/5,J/8) | Lilypad 1- 16 | 16 | YA25267-YA25282 | 14 Feb/86 |
| | 17- 32 | 16 | YA51163-YA51178 | 14 Feb/87 |
| | 33-100 | 68 | YA51500-YA51567 | 14 Feb/86 |
| | 101-170 | 70 | YA51601-YA51670 | 14 Feb/86 |
| | 171-184 | 14 | YA51671-YA51684 | 14 Feb/85 |
| | 185-198 | 14 | YA51685-YA51698 | 14 Feb/86 |
| | 199-212 | 14 | YA51699-YA51712 | 14 Feb/85 |
| | 213-270 | 58 | YA51713-YA51770 | 14 Feb/86 |
| | 271-308 | 38 | YA61271-YA61308 | 14 Feb/86 |
| | 309-350 | 42 | YA61488-YA61529 | 14 Feb/86 |
| | 351-378 | 28 | YA61969-YA61996 | 14 Feb/86 |
| | 379 | 1 | YA61997 | 14 Feb/85 |
| | 380 | 1 | YA61998 | 14 Feb/86 |
| | 381 | 1 | YA61999 | 14 Feb/85 |
| | 382 | 1 | YA62000 | 14 Feb/85 |
| | 383-388 | 6 | YA62001-YA62006 | 14 Feb/86 |
| | 389-396 | 8 | YA62007-YA62014 | 14 Feb/85 |
| | 397-421 | 25 | YA62015-YA62039 | 14 Feb/86 |
| | 422-429 | 8 | YA62123-YA62130 | 14 Feb/86 |
| | Newt | 1- 6 | 6 | YA51157-YA51162 |
| 7- 20 | | 14 | YA51486-YA51499 | 14 Feb/86 |
| 21-102 | | 82 | YA51771-YA51852 | 14 Feb/86 |
| 103-132 | | 30 | YA51853-YA51882 | 14 Feb/85 |
| 135-155 | | 21 | YA51883-YA51903 | 14 Feb/85 |
| 156-163 | | 8 | YA61309-YA61316 | 14 Feb/86 |

The Newt 133-134 claims are missing because they have not been staked.

The Lilypad-Newt block is centered at latitude 62°27'N and longitude 137°57'W, on claim sheets 115J/8 and 115I/5, about 93 km northeast of Carmacks.

The Freegold summer road, which extends 55 km west of Carmacks, terminates about 38 km east of the property. Access is by helicopter from the end of the road or by fixed-wing aircraft to an airstrip constructed by NAT on the Lilypad

claims in 1981. This airstrip is presently only usable in winter but with several hours of bulldozer or grader work could be upgraded for summer use as well.

PREVIOUS WORK

Previous exploration in the Lilypad area was for porphyry-type copper-molybdenum and copper-lead-zinc vein targets.

Chalcopyrite in small quartz veins cutting Carmacks volcanics south of Apex Mt. was explored by geochemistry in 1969 by Dawson Range Joint Venture and staked in 1970 by London Pride Silver Mining Ltd.

Bornite and chalcopyrite mineralization in quartz stringers and disseminated in a large stock of hornblende quartz monzonite intruding Yukon Group metasediments northwest of the junction of Hayes and Apex Creeks was staked as the Kook, Pat and Apex claims in 1969 by Montana Mining Ltd. and optioned in 1970 to Phelps Dodge which explored by mapping, linecutting, sampling and a magnetometer survey. The claims were transferred to Chatham Resource Ltd. in 1973.

Minor chalcopyrite, galena and sphalerite produced geochemical anomalies over a porphyry copper prospect staked as Frog claims in 1969 by International Mines Services Limited Syndicate and as PDY claims in 1969 by Phelps Dodge. The Wing claims were also staked in 1969 south of the Frog group by Sabina Mining Ltd. but were not explored. NAT's Lilypad claims now cover both area.

Copper mineralization with minor silver and zinc generated a soil anomaly coincident with an aeromagnetic anomaly northeast of Crescent Creek that was explored by sampling and trenching in 1970 to 1973 by Starbird Mining Ltd. The Pro claims were staked immediately north in 1970 by Canadian Occidental Petroleum Ltd. which prospected and soil sampled in 1971.

PHYSIOGRAPHY AND GEOMORPHOLOGY

The Lilypad property lies southwest of the Big Creek Lineament along an extensive ridge system connecting Prospector and Apex mountains, two of the highest summits in the Dawson Range. Property elevations vary from 1050 to 2000 m. Four major drainages, Big Creek, Hayes Creek, the Selwyn River and the Klotassin River, have their headwaters on the property.

Like the rest of the Dawson Range, the Lilypad area did not undergo continental glaciation during the Pleistocene epoch. A small cirque lying immediately north of the summit of Apex Mt. is the only clear indication of alpine glaciation in the area. Outcrops are scarce and most hillsides are blanketed with talus, while valley bottoms are covered by a deep layer of alluvium. A and B horizon soils are poorly developed or absent over most of the property. Treeline is at 1350 m and characteristic vegetation consists of spruce giving way to slide alder with mosses and lichens above 1400 m.

GEOLOGY

General

Figure L1 in Pocket A illustrates the general geology of the Lilypad area which was mapped in 1981 by NAT and by a Geological Survey of Canada geologist, Dirk Tempelman-Kluit. This work has not been substantially altered by 1982 mapping, although detail has been added with respect to the linears and mineralization patterns within them. The following summary draws on 1981 geological data, plus observations and interpretations made in 1982.

Lilypad is mainly underlain by 60 to 70 Ma Mt. Nansen Group andesites and associated sedimentary rocks that are intruded by a syenite laccolith(?) which is elongated west-northwest parallel to the Big Creek Linament. Minor exposures of Yukon Metamorphic Complex schists and gneisses (Mm) and mid-Cretaceous(?) granite (Mg) occur in the southeast corner of the property. Along the southwest edge of the property, Carmacks Group basalts give the impression of lapping up on the Mt. Nansen volcanics which form Prospector and Apex mountains. This interpretation is somewhat different from that suggested in 1981, which implied that the Mt. Nansen rocks are exposed at Lilypad in the core of an antiform associated with doming of the syenite laccolith.

Quartz-feldspar porphyry dykes (KTgfp) cut the Mt. Nansen volcanics and the syenite. Large (5 cm) pink euhedral potassium feldspar phenocrysts and small euhedral biotite books occur both in the syenite and in the quartz-feldspar porphyry, suggesting a textural link between them which may be genetic as well. Some quartz-feldspar porphyry dykes occupy linears paralleling those which host mineralized veins and are themselves geochemically anomalous.

Air photos taken at 1:12,000 and 1:24,000 scales in August, 1981 provide much more detailed information on linear trends than was previously available. The photos permit extrapolation of stronger linears through lowland areas where they appear sporadically as minor topographic benches and as zones of anomalous vegetation due to seeping ground water instead of kill zones as they do on the ridges. Ground traversing over linears on valley slopes confirmed that they correspond to subtle topographic breaks that often contain springs.

The air photos show a consistent pattern of north-northeast and northeast-trending linear sets. The northeast linears have steep dips and long strike

extents and form major valleys and the low saddles. The north-northeast linears are shorter with some discontinuous over distances of 200 m or less. They exhibit many horsetail-type features and do not appear to offset one another. These structures occur in swarms, the most intense of which are on Centre Mt., 7 Hill and Promenade Ridge. Topographic expressions indicate steep dips except in a few cases, notably the 7 and 707 veins.

MINERALIZATION

Most rocks in the Lilypad area contain pyrite, particularly in rusty weathering Yukon Metamorphic Complex quartzites, Mt. Nansen Group volcanics and in isolated patches within the intrusive rocks. Pyrite typically occurs as disseminated cubes less than 1 mm in size, locally reaching 3 to 4 percent but usually less than 1 percent. Both magnetite and hematite are present in volcanics and some of the intrusive rocks. Magnetite is microscopic and can only be detected as rock magnetism, whereas the hematite commonly occurs as coarse disseminations, coating fractures, in amygdule fillings and cementing breccia in association with quartz veins and other mineralization.

Mineralized veins are only obvious on ridges where they form linear depressions containing patches of scattered oxidized and leached vein material interspersed with sheared and faulted country rocks. Mineralized zones are characterized by: lack of vegetation; a colour change in the rock, tending to bleached, earthy colours; smaller size of rock fragments, rarely exceeding 5 to 10 cm; manganese, hematite and limonite staining on fracture surfaces; transparent, chalcedonic, cockade, drusy or massive quartz, often rusty, vuggy and pitted; sulphides, including galena (and its alteration product, anglesite), chalcopyrite, sphalerite,

and pyrite, with galena boulders to 30 cm in size at some locations; copper carbonates (malachite, azurite) in some locations; rare arsenopyrite (at Goldilocks), barite, fluorite, witherite (on Leo's Ridge) and other unusual minerals; and, the presence of a small yellow flower identified by D.J. Tempelman-Kluit as Draba densifolia, a mustard. This flower seems to occur only in association with the other features and seems to be a useful prospecting guide.

Disseminated and massive tourmaline occur in several veins, especially near the plutonic-volcanic contact (for example, at the headwaters of Frog Creek and at Apex Mt.) and in quartz-tourmaline breccia zones (such as the one on Centre Mt.). Topaz, another representative of the pneumatolytic alteration at the contact, has been tentatively identified.

Adularia, a K-feldspar associated with low temperature hydrothermal veins, was recognized by its colour and crystal habit, occurring with quartz in boulders on the hillside east of Parson's Pass (No. 10 vein). The association of adularia with alteration assemblages over mineralized precious metal veins in Nevada has been emphasized as a prospecting guide by some workers (L.J. Buchanan).

Eight grains of native gold crystals, flakes and irregular blebs were found by panning a sample of surface material from the No. 7 vein. After trenching, a second sample of vein material was panned and 50 grains of gold were identified under the microscope, with some 20 percent of these occurring as rounded octahedral crystals.

Aside from galena and a trace of tetrahedrite, no silver minerals have been recognized.

The highest assays obtained to date were from selected specimens collected along the surface trace of the veins. They include 250.0 oz/ton Ag with 10 percent galena in quartz vein float from the west side of Leo's Ridge; and, up to 0.784 oz/ton Au with 77.52 oz/ton Ag and 42.4% Pb in massive galena from the Newt vein. Silver to lead ratios in surface specimens averaged about 1.0 to 1.5 oz/ton Ag to 1.0% Pb.

The highest assays obtained from the 1981 bulldozer trenches were 96.54 oz/ton Ag with 62.3% Pb and 0.01 oz/ton Au from a 0.3 m wide galena vein in Trench 38-1; and, 0.202 oz/ton Au with 28.3% Pb and 8.42 oz/ton Ag from a 0.3 m wide malachite-stained quartz vein in Trench 7-1.

Prior to the 1982 field season, the assay data was examined to see if metal zoning patterns were present which resemble those in major vein camps (for example, the Creede area), in order to predict areas where precious metals might be concentrated. Silver to lead and gold to silver ratios were calculated for all previously obtained vein and trench samples. The results were generally erratic with strong local variations, particularly in samples with low absolute concentrations of silver and lead. However, one trend was recognized which showed that Ag:Pb and Au:Ag ratios for higher-grade samples generally decreased from about 4.0 oz/ton Ag to 1.0% Pb and 0.44 oz/ton Au to 1.0 oz/ton Ag on Centre Mt. to about 2.0 oz/ton Ag to 1.0% Pb and 0.25 oz/ton Au to 1.0 oz/ton Ag on Leo's Ridge, 700 m to the south. The absolute values of silver and lead increased dramatically over the same distance while gold decreased slightly.

This metal zonation is mirrored by mineralogical changes along the linear connecting the 406 vein on Centre Mt. to the 37, 38 and 39 vein system on Leo's Ridge. On Centre Mt., minor galena-, pyrite- and chalcopyrite-bearing quartz

veins are accompanied by disseminated tourmaline and pyrite with zones of quartz-tourmaline breccia. Approximately halfway between Centre Mt. and Leo's Ridge, a piece of massive sulphide float containing galena, chalcopyrite and pyrite was collected along the trace of the linear in an area of poor exposure while on Leo's Ridge, vein mineralization is predominantly galena with minor tetrahedrite in barite gangue. This sequence is consistent with a model of decreasing temperature southward from a source in the tourmaline breccia zones.

DIAMOND DRILLING

General

The drilling was contracted to E. Caron Diamond Drilling Limited of Whitehorse and was done using a wireline-equipped Longyear 38 drill powered by a 4-cylinder Murphy diesel engine. Work commenced on June 19 and was completed on July 13. Core from the vein intersections is stored in H.S. Bostock Core Library in Whitehorse. The remaining core is cached on the Lilypad airstrip and will be placed in the core library when it is demobilized with the drill equipment in spring, 1983.

All holes were drilled with NQ equipment except for the bottom 62.8 m of Hole LP82-6 where BQ rods were used. Core recovery was generally good, averaging 95 percent in wallrocks and 75 percent in vein intersections, with the exception of Hole LP82-6 where vein recovery averaged only 10 percent. Sludge samples were not collected as drill mud was used in all holes to stabilize broken ground and prevent caving. A total of 60 bags of mud were required during the program, while 40 m of rods and 60 m of casing were lost due to caving, mostly in Hole LP82-4.

Although a few bags of calcium chloride were added as a precaution, permafrost was not a problem. Long waterlines and a relay pump were required for all holes. Strong wind and fog caused minor delays in drill moves on several occasions.

The core was logged in metric units. Drill logs with assays and drill sections are enclosed in the pockets, while locations of drill collars are illustrated on Figures L1 and L9, also in the pockets.

Assaying

All vein intersections and any intervals exhibiting sulphide- or tourmaline-rich wallrocks were split in the field and sent to Chemex Labs Ltd., North Vancouver, B.C. where they were geochemically analyzed for silver, gold and lead. Selected samples were also analyzed for arsenic, antimony, zinc and copper. Samples exceeding geochemical detection limits for silver, gold or lead were reassayed in ounces per ton and percent using standard assay procedures. Geochemical analytical techniques used are described in Appendix III.

Results

The drilling has shown that the vein zones exhibit vertical continuity and most were intersected approximately where predicted from surface data. Widths on the vein zones at depth equal or exceed those seen on surface. The first five holes were drilled below the best mineralization exposed in bulldozer trenches but only Hole LP82-1, which explored below the 7 vein, produced comparable grades to those in the trenches. In sub-surface, the vein zones characteristically grade from fresh, relatively massive, unweathered wallrocks into highly fractured, weakly bleached wallrock cut by limonite and/or manganese-oxide coated fractures, to one or more, subparallel bands of bleached gouge which range from a few cm to 50 m in width. The oxidized sulphide mineralization and quartz, carbonate

and/or barite gangue occur as pods in the veins, usually within the gouge zones or along the vein margins.

The last two holes explored the 10 (Newt) vein system which is the widest (approximately 70 m) and most intensely-altered linear on the property and is the only vein system known to contain adularia. Results obtained from these holes were comparable to those in the other holes, except the gouge zones are more extensive, particularly in Hole LP82-6 which was drilled 120 m topographically below LP82-5. This increase in clay-rich gouge with depth may indicate that the adularia occurs above a low pH cap.

Although weathering in the massive volcanic wallrocks rarely exceeds 10 m in depth, the vein zones are strongly weathered and leached(?) to a depth of at least 150 m below surface. Vein sulphides were only weakly oxidized near the bottom of Hole LP82-3 (192.5 m), but all other holes were stopped within the supergene cap. The gouge zones dominantly consist of kaolinite and limonite and while this assemblage may be due in part to low pH alteration during the mineralizing event, three lines of evidence point to a supergene origin. First, lead and silver values are often higher in the bleached gouge zone than can be explained by visible galena, hence the metals are likely present in less conspicuous anglesite, argentojarosite, plumbojarosite, cerussite or similar secondary minerals. Second, silver to lead ratios in mineralized drill intersections are higher than those in the overlying trenches, suggesting either leaching from surface or a zone of slight supergene enrichment. Finally, the gouge zone often contains carbonate and some galena is seen in a carbonate gangue, indicating that pH's could not have been abnormally low during deposition of the metals.

Table 2 on the following page summarizes the drill data and assay results. The best gold intersection was obtained from Hole LP82-1 where a 3.0 m interval averaged 0.236 oz/ton Au with 0.76 oz/ton Ag and 0.77% Pb, including a 1.0 m interval grading 0.572 oz/ton Au with 1.43 oz/ton Ag and 0.75% Pb. The best silver assay was obtained from Hole LP82-3 where a 0.3 m interval returned 10.1 oz/ton Ag with 15.3% Pb and 0.036 oz/ton Au.

A 55 m wide tourmaline-quartz-pyrite breccia zone intersected in Hole LP82-3 was split and assayed, but returned average values of only 25 ppb Au, 1.0 ppm As and 45 ppm Pb, excluding narrow gouge zones which assayed higher as described above.

DISCUSSION

Although all vein intersections in drill core and bulldozer trenches have only returned sub-economic assays, surface work has shown that the vein system is extensive and exhibits at least local metal zoning. Drilling has shown that individual veins exhibit vertical continuity, are deeply weathered, and have increasing silver to lead ratios with depth. Less than 10 percent of the total strike length of the vein system is exposed on ridges and there is a good possibility that better ore shoots may be present along strike under overburden.

The presence of tourmaline-quartz breccia zones associated with quartz-feldspar porphyry dyke swarms in the centre of the area of interest suggests a genetic link between the vein mineralization and the breccias and, possibly, the dykes. While the sampling of one tourmaline-quartz breccia zone cut in Hole LP82-3 failed to detect significant metal concentrations, similar zones elsewhere on the property may be better mineralized.

TABLE 2 - DIAMOND DRILL SUMMARY, LILYPAD PROPERTY

| <u>HOLE</u> | <u>COORDINATES</u> | | <u>AZIMUTH</u> | <u>DIP</u> | <u>ELEVATION</u> | <u>METRES FEET</u> | | <u>VEIN TARGET</u> | <u>DRILLING REMARKS</u> | <u>ASSAY RESULTS</u> | | |
|-------------|--------------------|----------------|----------------|------------|------------------|--------------------|--------------|--------------------|---|----------------------|------------------|-----------------|
| | <u>NORTHING</u> | <u>EASTING</u> | | | | <u>FINAL</u> | <u>DEPTH</u> | | | <u>MAX AU</u> | <u>MAX AG</u> | <u>MAX PB</u> |
| | | | | | | | | | | <u>oz/ton</u> | <u>oz/ton</u> | <u>%</u> |
| LP1 | 49,602 | 51,749 | 317° | -50° | 1648 m | 76.3 | 250 | 7 | Completed | 0.572/ 1.00 m | 1.43/ 1.00 m | 0.77/ 1.00 m |
| LP2 | 49,900 | 51,520 | 279° | -50° | 1593 m | 50.6 | 166 | 6 | Completed | 0.080/ 0.05 m | 5.40/ 0.61 m | 4.74 /0.61 m |
| LP3 | 50,360 | 49,346 | 297° | -50° | 1649 m | 192.5 | 631 | 407,408, 23 | Completed | 0.107/ 0.6 m | 10.12/ 0.30 m | 15.30/ 0.3 m |
| LP4 | 49,292 | 49,328 | 273° | -60° | 1587 m | 54.6 | 179 | 38 | Abandoned- Rods stuck | 0.001 | 0.073/ 0.03 m | 0.01/ 0.03 m |
| LP4A | 49,292 | 49,328 | 273° | -50° | 1587 m | 81.7 | 268 | 38 | Completed | 0.001 | 0.85/ 1.53 m | 1.13 0.75 m |
| LP5 | 48,560 | 54,385 | 100° | -50° | 1573 m | 91.4 | 300 | 10 | Completed | 0.012/ 0.90 m | 0.29/ 0.90m | 0.46/ 0.90 m |
| LP6 | 48,910 | 54,286 | 265° | -50° | 1426 m | 90.2 | 296 | 10 | Completed but poor core recovery in vein | 0.002/ 1.22 m | 1.11/ 1.22 m | 0.45/ 1.22 m |

CT

Textural evidence has linked the quartz-feldspar porphyries to the syenite laccolith suggesting that they are late-stage differentiates and as such, may be preferentially mineralized. This theory is supported by occasional high gold and silver values obtained from porphyry dykes and by the fact that they often occupy the same linears as the mineralized veins. As most quartz-feldspar porphyries occur as dykes, they may represent leakage in the cupola of a magma chamber. Many large porphyry copper-molybdenum porphyries, including the Casino deposit some 55 km northwest of Lilypad, are surrounded by lead-silver veins and in other areas porphyries have been discovered beneath old vein camps, notably the Butte deposit in Montana. Therefore, given the general geological setting and nature of the mineralization, it is conceivable that an unroofed porphyry deposit may exist in the Lilypad area. Weathering on the property exceeds 150 m and elsewhere in the Yukon where weathering is less intense, porphyry copper mineralization has been discovered in syenitic rocks which exhibited only faint surface evidence in the form of gossanous weathering and a trace of disseminated pyrrhotite.

Figure L2 on the following page is a schematic cross-section illustrating the relationship between the various intrusive and volcanic units (including possible unroofed intrusions), and geological settings for the different types of occurrences speculated on above.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W. Douglas Eaton, B.A., B.Sc.

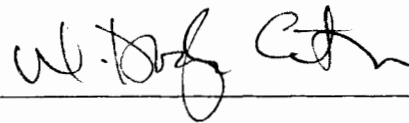
APPENDICES

APPENDIX I - STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in Burnaby, British Columbia, do hereby declare:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. and am currently enrolled in a M.Sc. majoring in Geological Sciences.
2. From 1971 to the present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



W. Douglas Eaton, B.A., B.Sc.

APPENDIX II - PERSONNEL

| <u>Name</u> | <u>Address</u> | <u>Position</u> |
|---------------|---|-----------------|
| J. Nelson | 2980 West 8th, Vancouver, B.C. | Geologist |
| L. Cymbalisky | 1602 #5 Morey Road, Nanaimo, B.C. | Student |
| A. Reid | 152 Goulburn Road, Ottawa, Ontario | Student |
| D. Lister | c/o 106A - 93 Lewes Road, Whitehorse, Y.T. | Student |
| S. Price | R.R. #2, Site 265, Courtenay, B.C. | Cook |
| D. Eaton | 6108 Burns Street, Burnaby, B.C. | Geologist |
| M. Phillips | 50 Aisek Road, Whitehorse, Y.T. | Geologist |
| S. Main | 3694 Ontario Street, Vancouver, B.C. | Geologist |

APPENDIX III - ANALYTICAL TECHNIQUES

PREPARATION

All soil samples were dried and sieved through an ASTM 35 mesh screen (0.50 mm). The minus 35 mesh fraction was then pulverized and homogenized in a ring grinder to approximately minus 100 mesh (0.15 mm). For drill core and grab and chip rock samples, the entire sample was crushed and split. A sub-sample was then pulverized in a ring grinder to approximately minus 100 mesh.

ANALYTICAL TECHNIQUES

Gold was analyzed by a "combo technique" consisting of a fire assay followed by neutron activation, while silver, copper, arsenic, zinc, and lead were all analyzed using a perchloric-nitric acid extraction followed by atomic absorption spectrometry, except arsenic which used a flameless atomic absorption finish.

Antimony analysis involves a hot HCl bath followed by reduction of iron and antimony complexing with I⁻. The complex was extracted with TOPO-MIBK and the analysis completed by atomic absorption.

Elevation 1640 m

Drill Contractor Caron

Logged by J. Nelson

Total depth 76.2 m

Coordinates 49602.5N 51749E

Hole started June 22, 1982 completed June 24, 1982

Core size NQ

Dip -50

Target:

Azimuth 317°

W. Nelson
5/2/83

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | Sample Number | Assay Interval | Assay Results <small>in ppm or ppb unless indicated otherwise</small> | | | | | | | |
|-----------|---------|--|---|--|---|---|-----|-----|----|----|----|----|---------|---------------|----------------|---|---------|--------|--------|--------|--------|-------|--------|
| | | | | | | Chl | Kap | Qtz | Py | Li | Mn | Hc | Au(ppb) | | | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm | Sn ppm |
| 2 | 17 | | Highly fractured and weathered bedrock | <p><u>KTMN bx1: Mt Nansen Group volcanic agglomerate - breccia:</u> Angular clasts of andesite with vesicles, highly elongate, otherwise dense and aphanitic. Smaller clasts may even be glassy. Matrix generally dark green and chlorite-rich. Clasts form >50% of rock, all of similar lithology. Probably a few breccia fragments. Calcite fills fractures and occurs as clumps in the matrix.</p> | <p>Propylitic: chlorite abundant especially in matrix and larger clasts. Smaller clasts are bleached to lavender around selvages; some even white.</p> <p>white crystalline calcite, epidote</p> <p>Chlorite in amygdules, a few clumps of fine grained pyrite.</p> | | | | | | | | | | | | | | | | | | |
| 4 | 19 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 92 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 94 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100 | | | | | calcite and manganese oxide coated fracture | | | | | | | | | | | | | | | | | |
| 10 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 64 | | | | | Transition zone: gradational contacts | | | | | | | | | | | | | | | | | |
| 12 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 100 | 2mm calcite vein | <p><u>KTMN bx2: as above but polymictic.</u> Clasts may contain white tabular feldspar phenocrysts. Variable textures, colours, degree of vesicularity. clasts up to 30cm in diameter common.</p> | <p>Epidote becomes common. Other minerals as above.</p> | | | | | | | | | | | | | | | | | | | |
| 16 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 100 | good example of clast-clast molding - shows clasts | <p>epidote decreases but still seen in vesicles. Also calcite-chlorite common in amygdules.</p> | | | | | | | | | | | | | | | | | | | | |
| 18 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 71 | | | | | | | | | | | | | | | | | | | | | | |

Elevation 1591 m

Drill Contractor Caron

Logged-by J. Nelson

Total depth 50.75 m

Coordinates 49900N 51520E

Hole started June 25, 1982 completed June 26, 1982

Core size NQ

Dip -50

Target:

Azimuth 279°

*W.D. Nelson
June 1983*

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | Sample Number | Assay Interval | Assay Results <small>in ppm or ppb unless indicated otherwise</small> | | | | | | | | | | |
|-----------|---------|-------------|--------|--|--|--------------------------------|-----|----|----|----|----|----|----|---------------|----------------|---|---------|---------|--------|--------|--------|--------|-------|--------|--|--|
| | | | | | | CM | Ksp | Ct | Qz | Py | Li | Mn | Hc | | | Au(ppb) | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm | Sn ppm | | |
| 2 | 74 | | | Overburden: locally derived, somewhat rounded fragments of KTMN flow-rock | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 100 | ✓ ✓ ✓ | | KTMN: flow rocks, light beige and silicified. | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 38 | | | Rubble zone mainly KTMN - green colour. One fragment of quartz vein. Poorly preserved section, possibly a fracture zone. | Mn stains on fractures, pyrite cubes in lighter beige fragments. limonitic | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | |
| 8 | 67 | | | KTMN bx 2: agglomeritic-breccia polymictic. clasts 1 to 20 cm across consisting of amygdaloidal andesite with small tabular (commonly twinned) feldspar phenocrysts. | Propylitic: chlorite abundant. Some silicification of breccia matrix but clasts unaffected. Pyrite cubes in patches locally. Red hematite coats fractures. | | | | | | | | ✓ | | | | | | | | | | | | | |
| 10 | | | | | greyish quartz forms blebs in matrix giving rock mottled appearance. pyrite with blebs. Calcite in matrix. | | | | | | | | ✓ | | | | | | | | | | | | | |
| 12 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 30 | | | | red hematite stain accompanies quartz patches in matrix. | | | | | | | | | | | | | | | | | | | | | |
| 20 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 96 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 92 | | | | white quartz vein with crystalline calcite selvages. Cut by second vein with same orientation. | | | | | | | | | | | | | | | | | | | | | |

highly fractured (limonitic)

fracture density increasing

fracture network containing pyrite surrounded by lavender bleached zone.

Elevation 5409'
 Coordinates 50360N 49346E
 Dip -50
 Azimuth 297⁰

Drill Contractor Caron
 Hole started June 27, 1982 completed July 1, 1982
 Target:

Logged by J. Nelson

Total depth 192.3 m
 Core size NQ

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | | | Sample Number | Assay Interval | Assay Results in ppm or ppb unless indicated otherwise | | | | | | | | | | | | | | | | |
|-----------|---------|------------|--------|--|--|--------------------------------|-----|----|----|----|----|----|----|----|----|---------------|----------------|--|---------|---------|--------|--------|--------|--------|-------|--------|-----|-----|--|--|--|--|--|--|
| | | | | | | Chl | Kfs | Cl | Qz | Py | Li | Mn | Wc | Tm | Sc | | | Au(ppb) | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm | Sn ppm | | | | | | | | |
| 100 | | | | KTMN greywacke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | 98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | | | | vein with clay and quartz, strong limonite stains | in bleached zone, montmorillonite and calcite | | | | | | | | | | | | M07098 | 1.4m | 10 | 0.5 | 14 | | | | | | 288 | 5 | | | | | | |
| 86 | | | | shear with rusty limonite cut by 5cm quartz vein containing 2 to 5% pyrite (dip 50°) | minor gypsum veinlets plus clay bleached zone | | | | | | | | | | | | M07099 | 1.5m | 23 | 0.8 | 28 | | | | | | 300 | 9 | | | | | | |
| 88 | 100 | | | | | | | | | | | | | | | | M07100 | 3.1m | 6 | 0.2 | 12 | | | | | | 73 | 9 | | | | | | |
| 90 | | | | | pyrite-tourmaline veinlets < 0.5cm wide surrounded by bleached band, 3 to 5% pyrite (disseminated); minor calcite and gypsum veinlets. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92 | 78 | | | | weak tourmaline-pyrite veinlets with bleached envelopes and later calcite veinlets. veins contain < 1/2% disseminated pyrite. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | 81 | | | | rare quartz-tourmaline-pyrite veinlets | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 98 | | ✓ | | KTMN: flow! Contact with greywacke in highly altered rocks above | Propylitic alteration | | | | | | | | | | | | M07201 | 3.7m | 3 | 0.7 | 55 | | | | | | 108 | 13 | | | | | | |
| 98 | 100 | ✓ | | | tourmaline and pyrite increase downward | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | ✓ | | | bleached zone, tourmaline breccia with minor chalcopyrite | | | | | | | | | | | | M07202 | 0.7m | 27 | 3.5 | 330 | | | | | | 355 | 174 | | | | | | |
| 100 | | ✓ | | | as before | | | | | | | | | | | | M07203 | 1.0 | 13 | 0.1 | 10 | | | | | | 72 | 6 | | | | | | |

Elevation 5409'
 Coordinates 50360N 49346E
 Dip -50
 Azimuth 297⁰

Drill Contractor Caron
 Hole started June 27, 1982 completed July 1, 1982
 Target:

Logged by J. Nelson

Total depth 192.3 m
 Core size NQ

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | | | Sample Number | Assay Interval | Assay Results in ppm or ppb unless indicated otherwise | | | | | | | | | | | | |
|-----------|---------|------------|--------|-----------|---|--|-----|----|----|----|----|----|----|----|----|---------------|----------------|--|---------|---------|--------|--------|--------|--------|-------|--------|--|-----|--|--|
| | | | | | | Chl | Kfs | Ct | Qz | Py | Li | Mn | Wk | Tm | Sc | | | Au(ppb) | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm | Sn ppm | | | | |
| | | ✓ | | KTMN flow | propylitic alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162 | | ✓ | | | | | | | | | | | | | | | M07215 | 2.10 m | 12 | 0.8 | 87 | | | | | | | 96 | | |
| 164 | | ✓ | | | Bleached zone: calcite-montmorillonite Two 45 cm wide quartz-tourmaline veins with minor pyrite at 55° | | | | ✓ | ✓ | | | | | ✓ | | | | | | | | | | | | | | | |
| 166 | 100 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 168 | | ✓ | | | fracture zone with minor slickensides | fair to moderate calcite on fractures limonite after pyrite | | | | | | | | | ✓ | | | | | | | | | | | | | | | |
| 170 | | ✓ | | | | | | | | | | | | | | | M07216 | 3.00 m | 8 | 0.1 | 9 | | | | | | | 105 | | |
| 172 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 174 | | ✓ | | | | | | | | | | | | | | | M07217 | 2.50 m | 79 | 0.3 | 15 | | | | | | | 113 | | |
| 174 | 86 | ✓ | | | < 1 cm wide quartz vein at 75° | no tourmaline or peripheral bleaching | | | | | | | | | ✓ | | | | | | | | | | | | | | | |
| 176 | | ✓ | | | Intense fracture zone with strong slickensides and chlorite | strong calcite on fractures, minor limonite. | | | | | | | | | ✓ | | | | | | | | | | | | | | | |
| 176 | 100 | ✓ | | | | | | | | | | | | | | | M07218 | 0.70 m | 18 | 0.6 | 18 | | | | | | | 106 | | |
| 178 | | ✓ | | | | | | | | | | | | | | | M07219 | 2.80 m | 14 | 0.2 | 8 | | | | | | | 71 | | |
| 180 | | ✓ | | | | | | | | | | | | | | | M07220 | 2.50 m | 48 | 2.3 | 500 | | | | | | | 182 | | |

Elevation 5207' Drill Contractor Caron Logged by J. Nelson, M. Phillips Total depth 81.69 m
 Coordinates 49292N 49327.5E Hole started July 3, 1982 completed July 5, 1982 Core size NQ
 Dip -50 Target:
 Azimuth 273°

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | | | Sample Number | Assay Interval | Assay Results <small>in ppm or ppb unless indicated otherwise</small> | | | | | | | | | |
|-----------|---------|------------|--------|--|--|--------------------------------|--|--|--|--|--|--|--|--|--------|---------------|----------------|---|------|---------|---------|---------|--------|--------|--------|--------|-------|
| | | | | | | | | | | | | | | | | | | | | Au(ppb) | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm |
| 83 | | ✓ | | KTMN flow - dark green | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 91 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | 100 | ✓ | | | Fair to moderate pervasive calcite moderate kaolinite | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | | ✓ | | increased bleaching, pale green, highly fractured; in places brecciated with Fe and Mn oxides of fractures | Weak to moderate silicification weak montmorillonite, fair to moderate kaolinite | | | | | | | | | | M07241 | 1.86 m | 6 | 0.4 | 34 | | | | | 600 | | | |
| 68 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | ✓ | | increased bleaching and fractures light brown with clay and limonite | Increasing kaolinite | | | | | | | | | | M07242 | 1.00 m | 13 | 14.5 | 1000 | | | | | 750 | | | |
| 70 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | ✓ | | VEIN: up to 1cm wide angular quartz fragments in sandy matrix recovery | | | | | | | | | | | M07243 | 3.54 m | 11 | 9.0 | 720 | 100 | | 1700 | 555 | | | | |
| 72 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | | ✓ | | Gouge - fine breccia, white kaolinite highly silicified, moderate limonite | | | | | | | | | | | M07244 | 1.53 m | 19 | 29.0 | 745 | | | | | 1900 | | | |
| 74 | | ✓ | | Blonde, highly altered - kaolinite with moderate limonite on fractures | Supergene kaolinite | | | | | | | | | | | | | | | | | | | | | | |
| 53 | | ✓ | | | | | | | | | | | | | M07245 | 1.63 m | 21 | 12.8 | 440 | | | | | 1350 | | | |
| 82 | | ✓ | | 65° 5cm wide gouge zone strong Mn oxides on fractures | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | | ✓ | | KTMN flow | | | | | | | | | | | M07246 | 1.41 m | 7 | 5.3 | 195 | | | | | 500 | | | |
| 77 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | ✓ | | | | | | | | | | | | | M07247 | 1.53 m | 7 | 1.4 | 134 | | | | | 77 | | | |
| 74 | | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 91 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | |

Total depth 81.69 m

Elevation 5160'

Drill Contractor Caron

Logged by J. Nelson

Total depth 91.44 m

Coordinates 48560N 54385E

Hole started July 6, 1982 completed July 7, 1982

Core size NQ

Dip -50

Target:

Azimuth 100°

W.D. Nelson
July 82

| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | | | Sample Number | Assay Interval | Assay Results | | | | | | | |
|-----------|---------|------------|--------|---|---|--------------------------------|-----|----|----|----|----|---|----------|----------|----------|---------------|----------------|---------------|----------|----------|---------|----------|--|----|--|
| | | | | | | Qtz | Ksp | Ct | Py | Si | Mn | U | As (ppm) | Ag (ppm) | Pb (ppm) | | | Sb (ppm) | Zn (ppm) | Cu (ppm) | W (ppm) | Sn (ppm) | | | |
| | | | | Overburden: locally derived | | | | | | | | | | | | | | | | | | | | | |
| 2 | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 70 | | | KTMN breccia: lahatic origin? contains angular clasts of various vari coloured: dark to light green, red to purple. Some massive with plagioclase and pyroxene phenocrysts; some with flow banding. Fragments range in size from cobbles down to fines in matrix. | Propylitic: abundant chlorite or hematite depending upon clast colour. Chlorite and calcite abundant in matrix. Abundant quartz veins 1mm to 1cm wide, some cockade. Sparse calcite veins cut quartz veins. | | | | ✓ | | | | | | | | | | | | | | | | |
| 6 | 100 | | | quartz veins | | | | | ✓ | | | | | | | | | | | | | | | | |
| 8 | 89 | | | | | | | | ✓ | | | | | | | M07250 | 1.00 m | 2 | 0.1 | 25 | | | | 18 | |
| 10 | 100 | | | quartz veins | | | | | ✓ | | | | | | | | | | | | | | | | |
| 12 | 56 | | | 5cm wide fracture zone with hematitic gouge | | | | | | | | | | | | | | | | | | | | | |
| 14 | 100 | | | quartz vein | | | | | ✓ | | | | | | | | | | | | | | | | |
| 16 | 100 | | | 1cm wide quartz-calcite vein | | | | | ✓ | | | | | | | | | | | | | | | | |
| 18 | 88 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 82 | | | | | | | | | | | | | | | M07251 | 1.00 m | 4 | 0.1 | 22 | | | | 9 | |

Elevation 4680'

Drill Contractor Caron

Logged by J. Nelson

Total depth 90.22 m

Coordinates 48910N 54286E

Hole started July 10, 1982 completed July 12, 1982

Core size BQ to 27.45 m/ NQ

Dip -50

Target:

Azimuth 265°

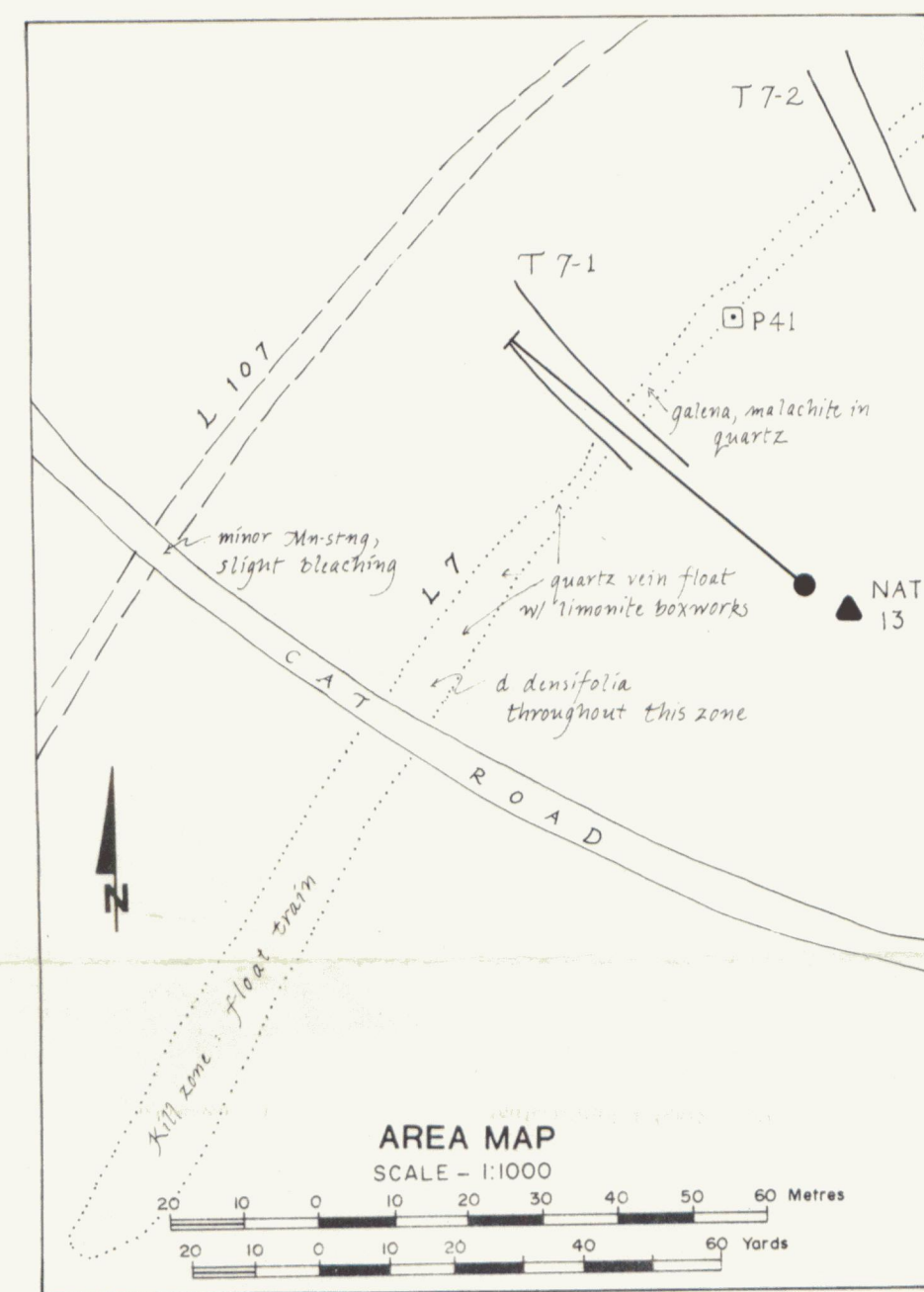
| Depth (m) | % Recov | Visual Log | Struct | Lithology | Alteration | Vein and Alteration Mineralogy | | | | | | | | | | | Sample Number | Assay Interval | Assay Results <small>in ppm or ppb unless indicated otherwise</small> | | | | | | | | | | | | | | | | |
|-----------|---------|------------|--------|--|------------|--------------------------------|-----|----|----|----|----|----|----|--|--|--------|---------------|----------------|---|-----|---------|---------|---------|--------|--------|--------|--------|-------|--------|--|--|--|--|--|--|
| | | | | | | Chl | Kfs | Ct | Qz | Pg | Li | Mn | Hc | | | | | | | | Au(ppb) | Ag(ppm) | Pb(ppm) | As ppm | Sb ppm | Zn ppm | Cu ppm | W ppm | Sn ppm | | | | | | |
| 82 | 4 | v | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 3 | v | / | | | | | | | | | | | | | M07192 | 3.05m | 4 | 0.1 | 23 | 12 | 2.2 | 205 | 9 | | | | | | | | | | | |
| 86 | 5 | v | / | | | | | | | | | | | | | M07193 | 3.05m | 6 | 0.1 | 31 | 12 | 2.0 | 143 | 9 | | | | | | | | | | | |
| 90 | 4 | v | / | crumbly gouge zone fracture density 200/m | | | | | | | | | | | | M07194 | 2.44 m | 36 | 0.2 | 295 | 12 | 1.0 | 330 | 164 | | | | | | | | | | | |
| 92 | | | | Total depth 90.22 m (296') | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



- LEGEND**
- CRETACEOUS - TERTIARY**
- KTe Carmacks volcanics.
 - KTgr Alaskite dykes.
 - KTaf Quartz - feldspar porphyry dykes and plugs.
 - KTy Biotite - hornblende syenite.
 - KTm Mount Nansen volcanics.
 - KTbr Vent (?) breccias.
- CRETACEOUS AND EARLIER**
- Mg Undifferentiated felsic intrusive rocks.
 - Mm Undifferentiated metamorphic rocks.
- Geological contact (known, inferred, assumed).
- Fault (showing downthrow).
- Mapped linear and reference point.
- Topographic linear and/or vein.
- Survey monument.
- Survey picket.
- Trench.
- Bulldozer road.
- Diamond drillhole location.
- DDH LP 82-1
- Disseminated tourmaline.

| | | |
|-----|-----|-----|
| 11A | 10D | 10C |
| 6P | 7M | 7N |

Figure L1
 ARCHER, CATIRO & ASSOCIATES (1981) LIMITED
1982 DIAMOND DRILLHOLE LOCATIONS
 LILYPAD PROPERTY
 NAT JOINT VENTURE
 SCALE 1:8000
 0 100 200 300 400 500 600 800 METERS
 071435

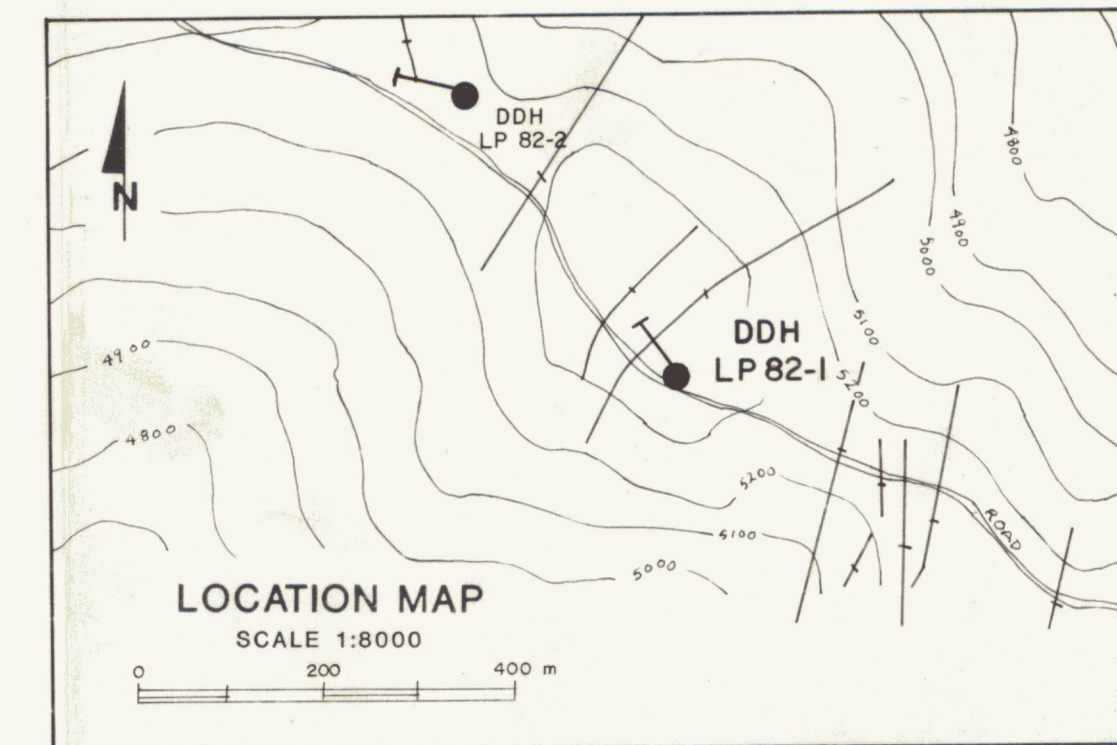
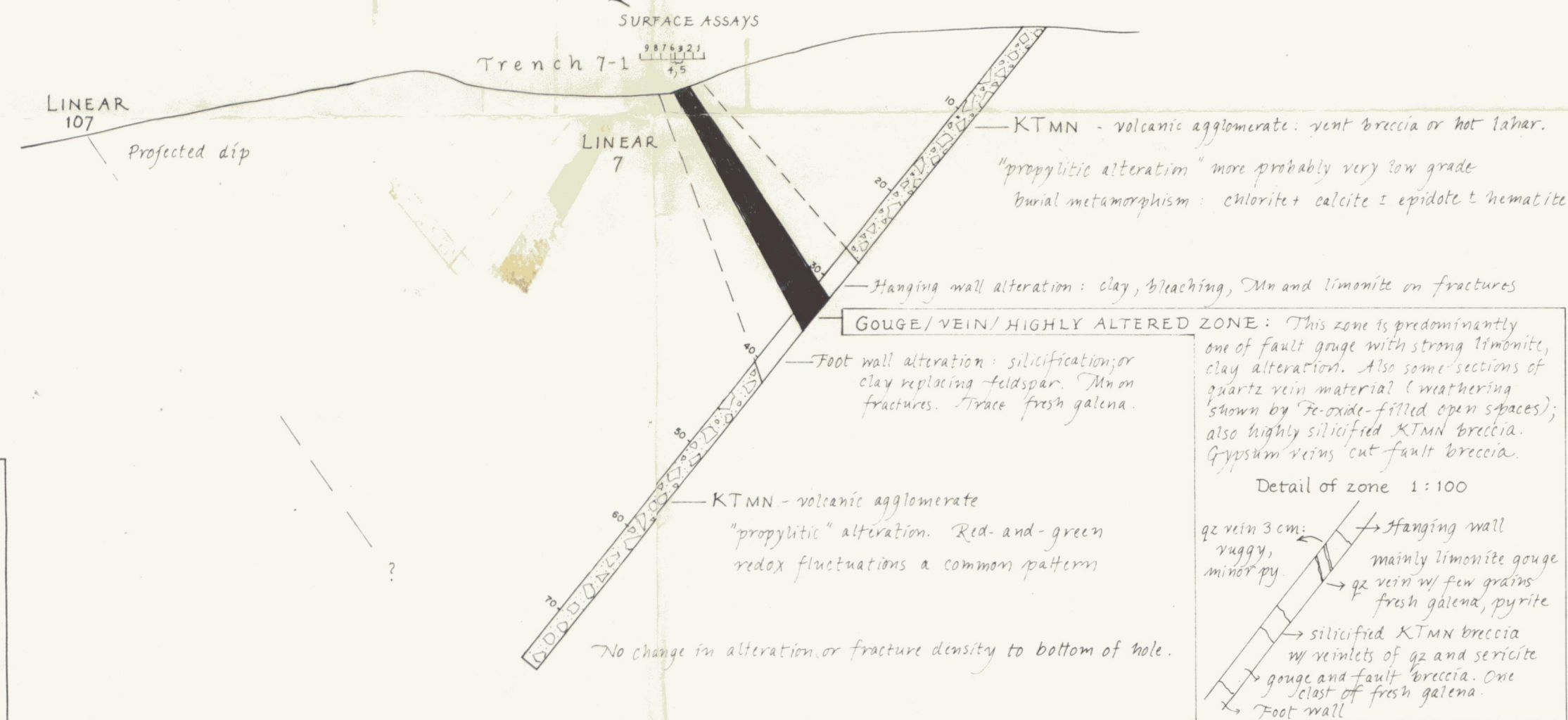


HOLE LP82-1
COORDINATES 49,602.5N, 51,749E
COLLAR ELEVATION 1645 m
AZIMUTH 317° DIP -50°
DEPTH 76.2m (250')

ASSAY RESULTS

| INTERVAL | SAMPLE NUMBER | ppb Au | ASSAY RESULTS | ppm Pb |
|-------------|---------------|----------|---------------|--------|
| From To | | | ppm Ag | |
| 24.50 26.50 | M07008 | 5.0 | 0.1 | 51 |
| 28.00 30.00 | M07001 | Tr | 5.5 | 300 |
| 30.00 30.40 | M07002 | Tr | 6.9 | 700 |
| 30.40 31.40 | M07003 | 19,619.6 | 49.0 | 7700 |
| 31.40 32.40 | M07004 | 2,744.0 | 12.3 | 6400 |
| 32.40 33.40 | M07005 | 1,920.8 | 17.2 | 8400 |
| 33.40 34.74 | M07006 | 102.9 | 8.9 | 5400 |
| 34.74 36.70 | M07009 | Tr | 1.7 | 500 |
| 36.70 38.70 | M07010 | Tr | 0.3 | 100 |
| 38.70 40.84 | M07011 | Tr | 0.3 | 100 |
| 62.50 64.50 | M07007 | 7.0 | 0.1 | 102 |

| Sample No. | Length (m) | Pb(%) | Assay Ag(oz/t) | Au(oz/t) |
|------------|------------|-------|----------------|----------|
| 1 | 1.0 | 0.03 | 0.12 | T |
| 2 | 1.0 | 0.08 | 0.06 | T |
| 3 | 0.6 | 0.84 | 0.92 | 0.026 |
| 4 | 0.2 | 79.10 | 25.74 | 0.028 |
| 5 | 0.3 | 28.30 | 8.42 | 0.202 |
| 6 | 0.3 | 1.87 | 0.82 | 0.048 |
| 7 | 1.0 | 0.98 | 0.30 | 0.014 |
| 8 | 1.0 | 0.06 | 0.03 | T |
| 9 | 1.0 | 0.08 | 0.08 | T |



W. D. G. S.
Jan/83

Figure L3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

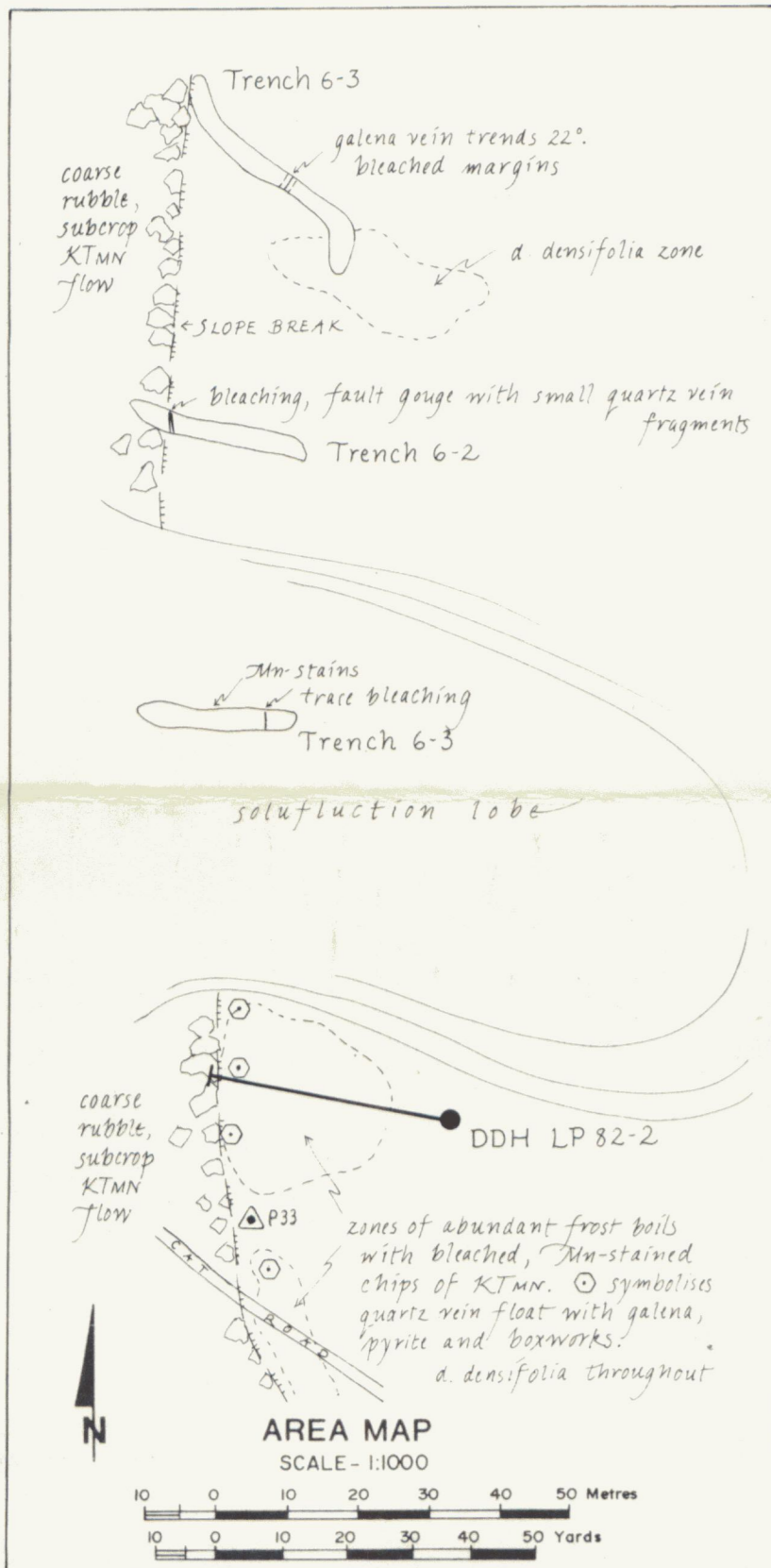
CROSS-SECTION
DDH LP82-1

LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:500

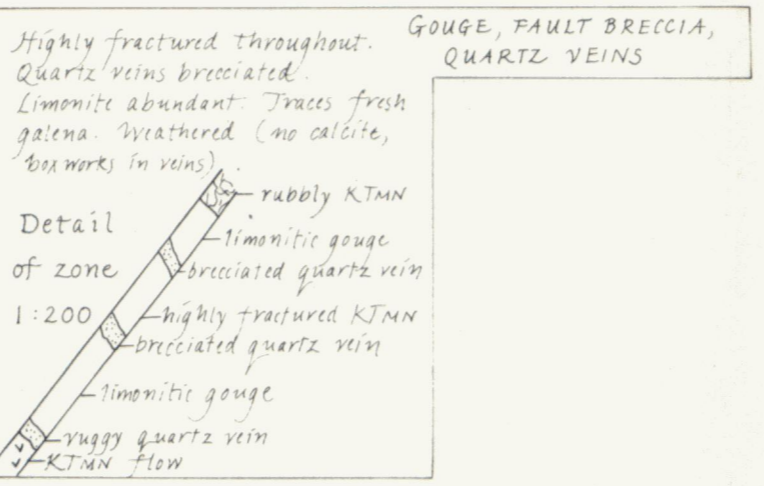
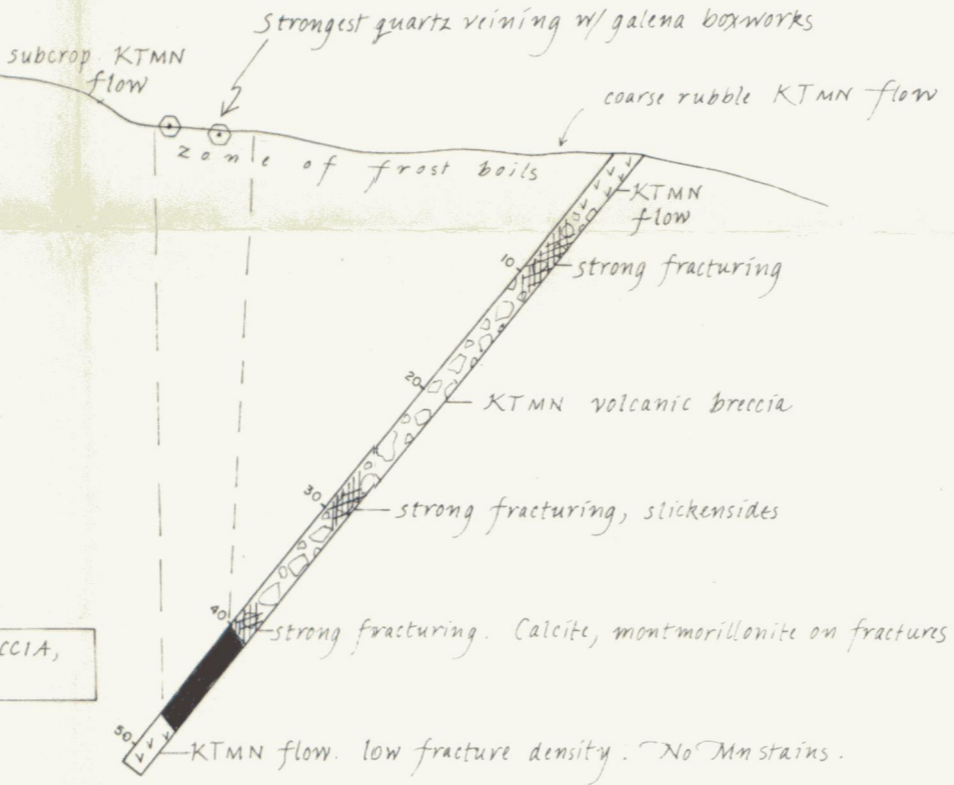


091435

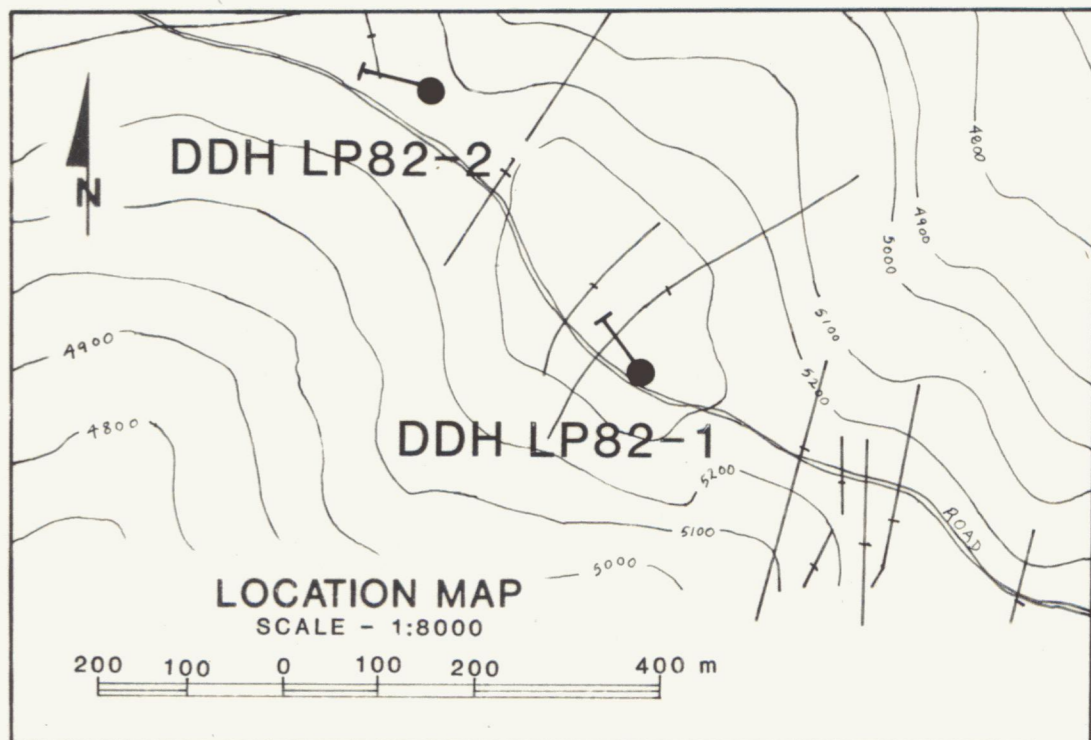


ASSAY RESULTS

| INTERVAL | | SAMPLE NUMBER | ASSAY RESULTS | | |
|----------|-------|---------------|---------------|--------|--------|
| From | To | | ppb Au | ppm Ag | ppm Pb |
| 29.87 | 30.48 | M07013 | 6 | 1.4 | 134 |
| 30.74 | 36.70 | M07014 | 4 | 0.6 | 26 |
| 36.70 | 38.80 | M07015 | 5 | 0.2 | 49 |
| 38.80 | 40.23 | M07016 | 3 | 0.3 | 68 |
| 40.23 | 40.70 | M07017 | 2 | 0.5 | 88 |
| 40.70 | 41.75 | M07018 | 3 | 0.4 | 100 |
| 41.75 | 42.05 | M07019 | 296 | 13.6 | 6700 |
| 42.05 | 42.50 | M07020 | 68 | 8.7 | 1300 |
| 43.00 | 44.20 | M07021 | 4 | 0.8 | 165 |
| 44.20 | 44.60 | M07022 | 157 | 11.5 | 3800 |
| 44.60 | 45.80 | M07023 | 2 | 1.4 | 427 |
| 45.80 | 46.75 | M07024 | 283 | 17.8 | 7700 |
| 46.75 | 46.80 | M07025 | 2760 | 95.0 | 20000 |
| 46.80 | 47.55 | M07026 | 145 | 13.3 | 12700 |
| 47.55 | 48.16 | M07027 | 403 | 185.2 | 47400 |
| 48.16 | 49.30 | M07028 | 4 | 12.9 | 1350 |
| 49.30 | 50.75 | M07195 | 1 | 3.0 | 48 |



HOLE LP82-2
 COORDINATES 49,900N, 51,520E
 COLLAR ELEVATION 1593 m
 AZIMUTH 279° DIP -50°
 DEPTH 50.75 m (166')



W. Duffell
Paulson

Figure L4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CROSS-SECTION DDH LP82-2
 LILYPAD PROPERTY
 NAT JOINT VENTURE

091435

ASSAY RESULTS

| Interval | To | Sample Number | ppm Au | ppm Ag | ppm Pb |
|----------|--------|---------------|--------|--------|--------|
| 0.00 | 4.00 | M07224 | 6 | 0.1 | 7 |
| 4.00 | 8.00 | M07225 | 3 | 0.1 | 4 |
| 8.00 | 12.00 | M07226 | 3 | 0.1 | 9 |
| 12.00 | 13.00 | M07229 | 6 | 1.0 | 128 |
| 13.00 | 14.00 | M07230 | 7 | 0.5 | 59 |
| 14.00 | 15.00 | M07231 | 5 | 0.2 | 33 |
| 15.00 | 16.00 | M07232 | 6 | 0.2 | 36 |
| 16.00 | 17.10 | M07233 | 11 | 1.1 | 61 |
| 17.10 | 17.50 | M07234 | 168 | 0.5 | 15 |
| 17.50 | 18.30 | M07235 | 40 | 1.2 | 61 |
| 18.30 | 19.00 | M07236 | 16 | 0.6 | 31 |
| 19.00 | 20.00 | M07237 | 15 | 0.4 | 15 |
| 20.00 | 21.00 | M07238 | 5 | 0.1 | 6 |
| 21.00 | 22.00 | M07239 | 12 | 0.1 | 8 |
| 22.00 | 23.00 | M07240 | 10 | 0.1 | 8 |
| 23.00 | 24.00 | M07241 | 6 | 0.1 | 1 |
| 24.00 | 25.00 | M07242 | 6 | 0.2 | 3 |
| 25.00 | 26.10 | M07243 | 3 | 0.2 | 3 |
| 26.10 | 26.30 | M07244 | 3 | 0.1 | 3 |
| 26.30 | 27.00 | M07245 | 3 | 0.2 | 4 |
| 27.00 | 28.00 | M07246 | 5 | 0.1 | 1 |
| 28.00 | 29.00 | M07247 | 10 | 0.2 | 2 |
| 29.00 | 30.00 | M07248 | 7 | 0.3 | 4 |
| 30.00 | 31.00 | M07249 | 7 | 0.1 | 7 |
| 31.00 | 32.00 | M07250 | 5 | 0.2 | 4 |
| 32.00 | 34.00 | M07251 | 4 | 0.3 | 73 |
| 36.00 | 37.00 | M07252 | 2 | 0.1 | 2 |
| 39.00 | 40.00 | M07253 | 7 | 0.3 | 42 |
| 40.00 | 41.70 | M07254 | 16 | 0.2 | 11 |
| 41.70 | 42.10 | M07255 | 33 | 1.8 | 850 |
| 42.10 | 42.50 | M07256 | 592 | 45.0 | 24200 |
| 42.50 | 42.80 | M07257 | 1220 | 347.5 | 153000 |
| 42.80 | 44.00 | M07258 | 73 | 11.5 | 1850 |
| 44.00 | 44.70 | M07259 | 45 | 7.2 | 865 |
| 44.70 | 45.30 | M07260 | 3680 | 18.8 | 19800 |
| 45.30 | 46.00 | M07261 | 35 | 5.6 | 1100 |
| 46.00 | 47.00 | M07262 | 70 | 6.3 | 1000 |
| 47.00 | 47.70 | M07263 | 17 | 0.7 | 60 |
| 47.70 | 48.00 | M07264 | 107 | 21.0 | 1850 |
| 48.00 | 48.50 | M07265 | 12 | 2.6 | 135 |
| 48.50 | 50.00 | M07266 | 35 | 2.2 | 310 |
| 50.00 | 51.00 | M07267 | 17 | 0.9 | 54 |
| 51.00 | 52.00 | M07268 | 15 | 0.8 | 65 |
| 52.00 | 53.00 | M07269 | 23 | 1.0 | 48 |
| 53.00 | 54.00 | M07270 | 21 | 1.3 | 24 |
| 54.00 | 55.00 | M07271 | 25 | 0.3 | 21 |
| 55.00 | 56.00 | M07272 | 26 | 0.3 | 16 |
| 56.00 | 57.00 | M07273 | 25 | 0.2 | 110 |
| 57.00 | 57.40 | M07274 | 170 | 9.7 | 3200 |
| 57.40 | 58.00 | M07275 | 102 | 7.0 | 580 |
| 58.00 | 59.00 | M07276 | 8 | 1.0 | 95 |
| 59.00 | 61.00 | M07277 | 10 | 1.2 | 143 |
| 61.00 | 63.00 | M07278 | 5 | 0.4 | 29 |
| 63.00 | 65.50 | M07279 | 28 | 0.5 | 48 |
| 65.50 | 66.80 | M07280 | 5 | 0.1 | 14 |
| 70.40 | 71.50 | M07281 | 4 | 0.1 | 20 |
| 71.50 | 73.50 | M07282 | 5 | 0.2 | 80 |
| 73.50 | 74.10 | M07283 | 5 | 0.2 | 7 |
| 76.00 | 78.00 | M07284 | 4 | 0.1 | 8 |
| 83.00 | 84.40 | M07285 | 10 | 0.5 | 14 |
| 84.40 | 85.90 | M07286 | 23 | 0.8 | 28 |
| 85.90 | 89.00 | M07287 | 6 | 0.2 | 12 |
| 95.00 | 98.70 | M07288 | 3 | 0.7 | 55 |
| 98.70 | 99.40 | M07289 | 27 | 3.5 | 303 |
| 99.40 | 100.40 | M07290 | 13 | 0.3 | 12 |
| 100.40 | 100.80 | M07291 | 24 | 1.8 | 186 |
| 100.80 | 101.00 | M07292 | 3 | 0.1 | 8 |
| 101.00 | 104.80 | M07293 | 7 | 0.1 | 10 |
| 104.80 | 106.20 | M07294 | 27 | 8.1 | 455 |
| 106.20 | 109.00 | M07295 | 12 | 1.7 | 80 |
| 117.00 | 120.00 | M07296 | 3 | 0.8 | 7 |
| 190.00 | 132.00 | M07297 | 18 | 0.5 | 6 |
| 132.00 | 133.50 | M07298 | 3 | 0.2 | 9 |
| 133.50 | 134.20 | M07299 | 5 | 0.2 | 3 |
| 143.00 | 146.00 | M07300 | 15 | 0.7 | 13 |
| 152.00 | 154.60 | M07301 | 16 | 0.6 | 10 |
| 161.00 | 163.10 | M07302 | 12 | 0.8 | 87 |
| 169.00 | 172.00 | M07303 | 8 | 0.1 | 9 |
| 172.00 | 174.50 | M07304 | 17 | 0.3 | 15 |
| 174.50 | 175.20 | M07305 | 18 | 0.6 | 18 |
| 175.20 | 178.00 | M07306 | 14 | 0.2 | 8 |
| 178.00 | 180.50 | M07307 | 48 | 2.3 | 48 |
| 180.50 | 181.10 | M07308 | 105 | 9.5 | 2550 |
| 181.10 | 185.00 | M07309 | 39 | 1.4 | 120 |
| 188.00 | 192.50 | M07310 | 9 | 0.2 | 17 |

LINEAR 23

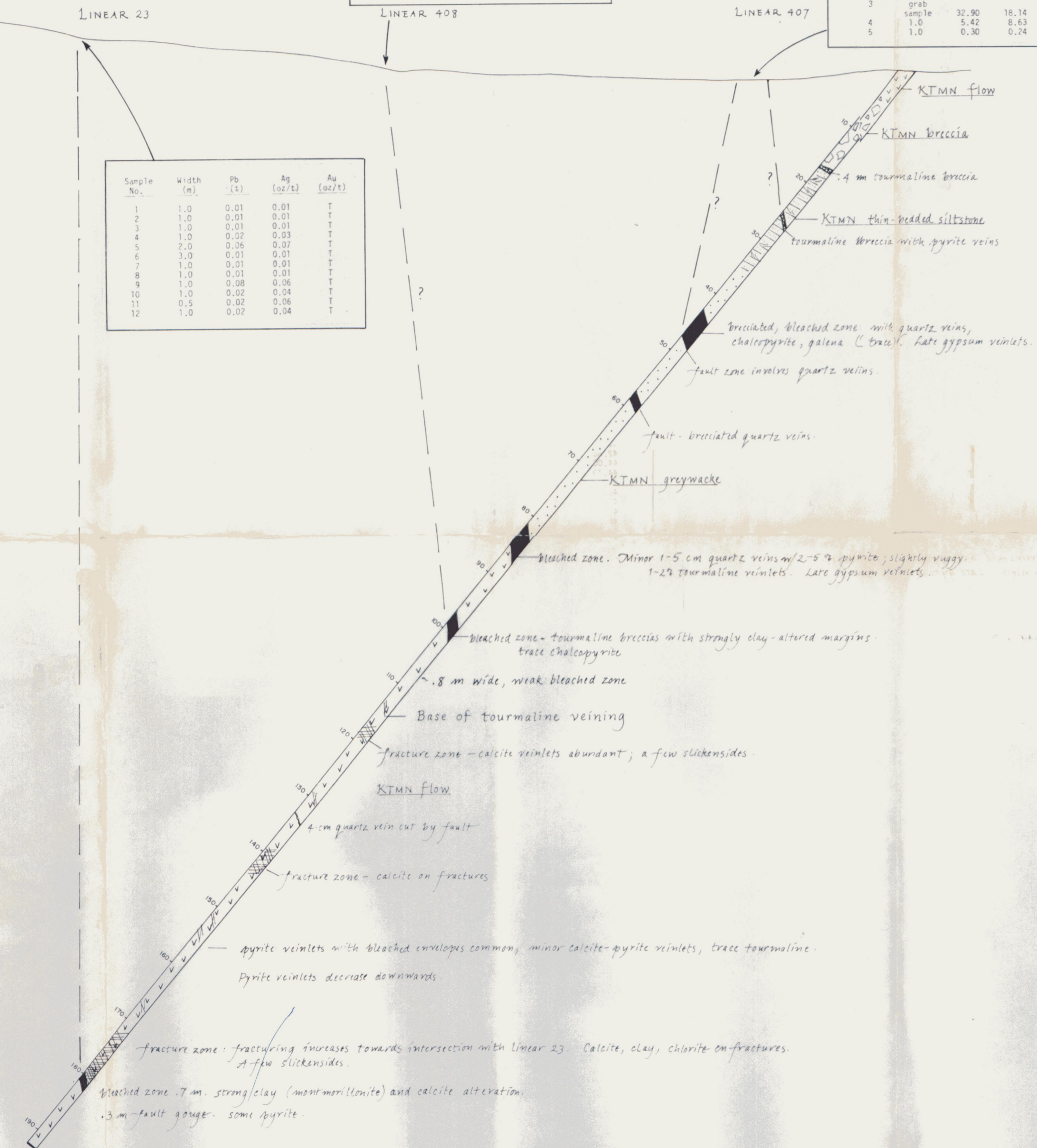
| Sample No. | Width (m) | Pb (%) | Ag (oz/t) | Au (oz/t) |
|------------|-------------|--------|-----------|-----------|
| 1 | 1.0 | 0.32 | 0.18 | 0.003 |
| 2 | 2.0 | 0.06 | 0.03 | 0.003 |
| 3 | 2.0 | 0.02 | 0.03 | T |
| 4 | 2.5 | 0.03 | 0.02 | T |
| 5 | 1.0 | 0.12 | 0.10 | T |
| 6 | grab sample | T | 0.02 | T |

LINEAR 407

| Sample No. | Width (m) | Pb (%) | Ag (oz/t) | Au (oz/t) |
|------------|-------------|--------|-----------|-----------|
| 1 | 1.0 | 0.49 | 1.04 | 0.004 |
| 2 | 1.0 | 2.14 | 8.26 | 0.028 |
| 3 | grab sample | 32.90 | 18.14 | 0.190 |
| 4 | 1.0 | 5.42 | 8.63 | 0.092 |
| 5 | 1.0 | 0.30 | 0.24 | 0.006 |

LINEAR 408

| Sample No. | Width (m) | Pb (%) | Ag (oz/t) | Au (oz/t) |
|------------|-----------|--------|-----------|-----------|
| 1 | 1.0 | 0.01 | 0.01 | T |
| 2 | 1.0 | 0.01 | 0.01 | T |
| 3 | 1.0 | 0.01 | 0.01 | T |
| 4 | 1.0 | 0.02 | 0.03 | T |
| 5 | 2.0 | 0.36 | 0.07 | T |
| 6 | 3.0 | 0.01 | 0.01 | T |
| 7 | 1.0 | 0.01 | 0.01 | T |
| 8 | 1.0 | 0.01 | 0.01 | T |
| 9 | 1.0 | 0.08 | 0.06 | T |
| 10 | 1.0 | 0.02 | 0.04 | T |
| 11 | 0.5 | 0.02 | 0.06 | T |
| 12 | 1.0 | 0.02 | 0.04 | T |



Tourmaline, pyrite veinlets, disseminations common in upper part of hole; accompanied by moderate pervasive silicification.

HOLE LP82-3
 COORDINATES 50,360N, 49,346E
 COLLAR ELEVATION 1649m
 AZIMUTH 297° DIP -50°
 DEPTH 192.5 (631')

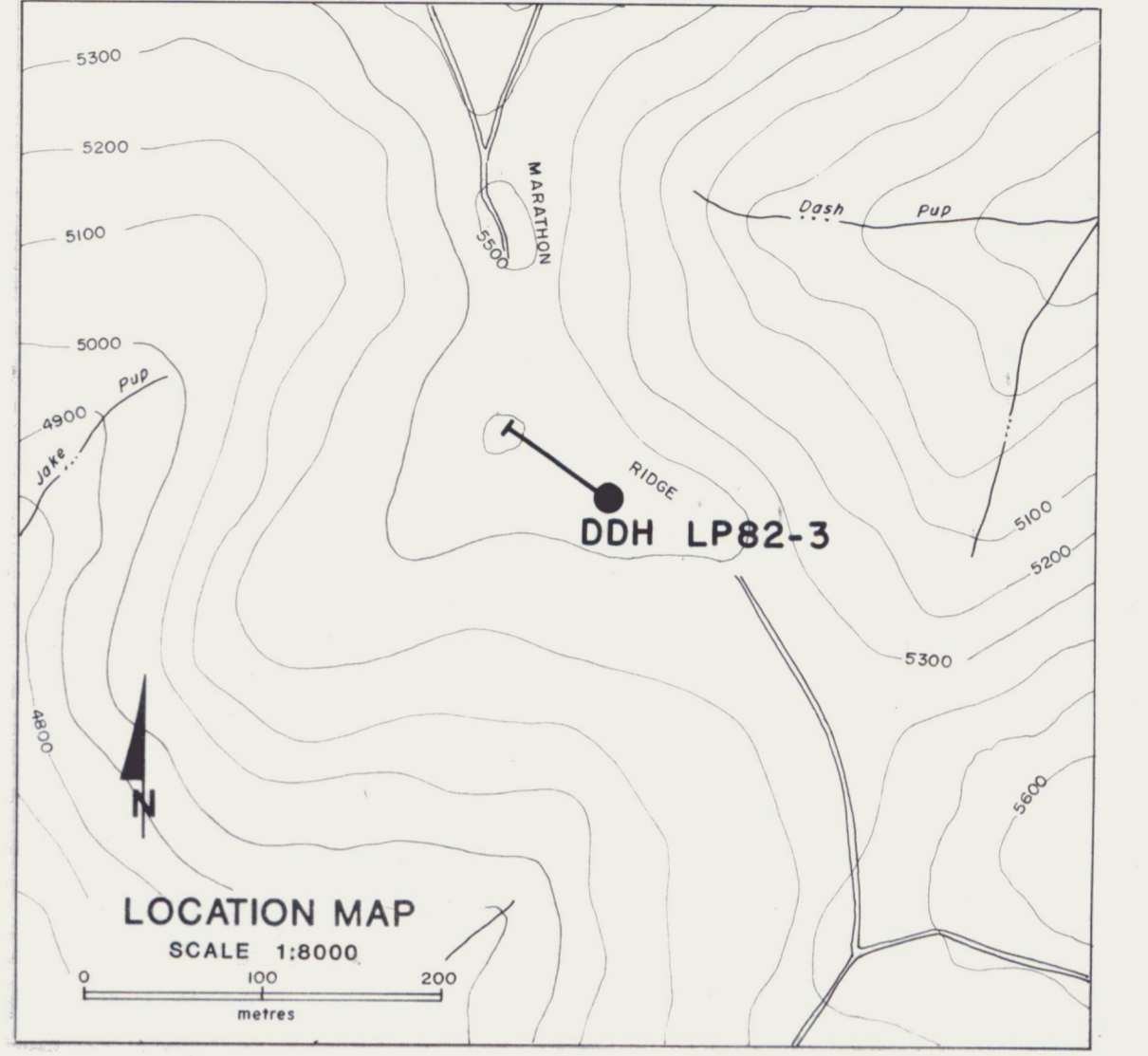
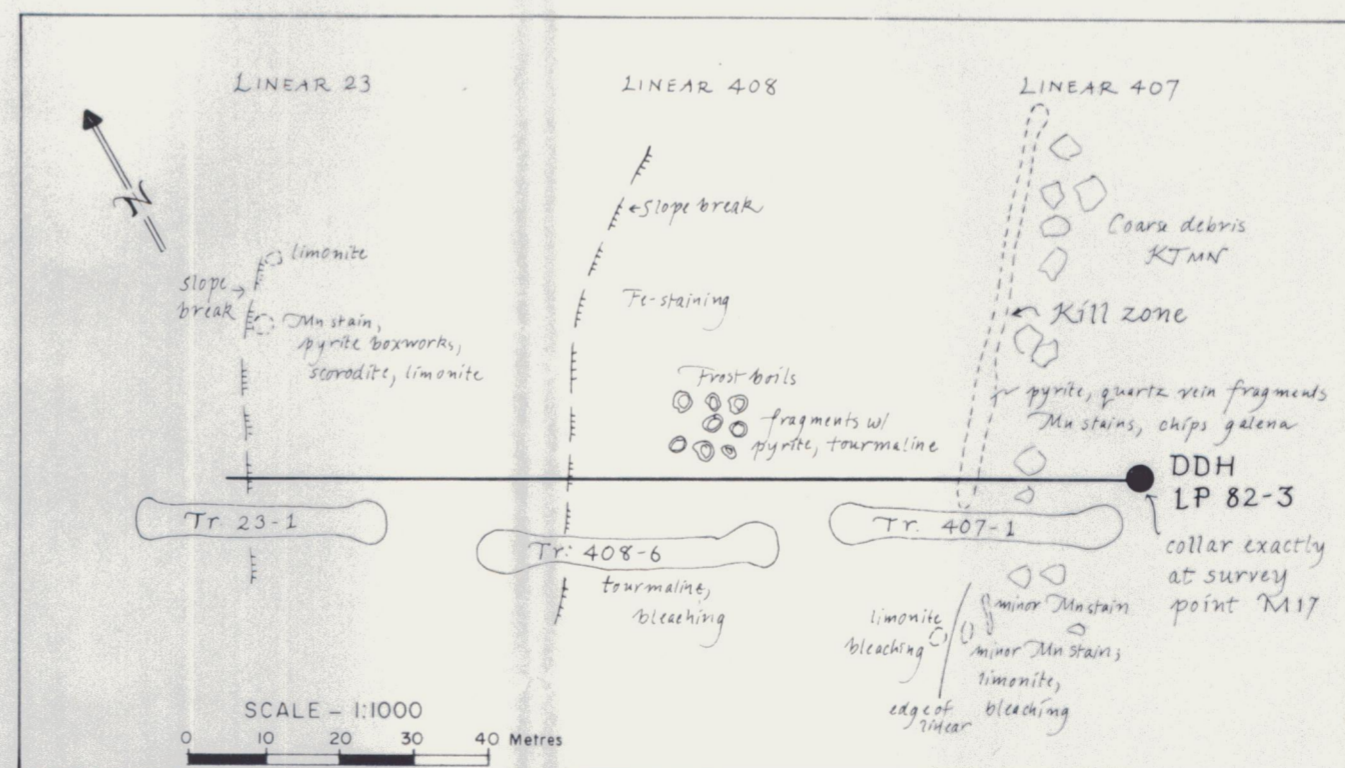


Figure L5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CROSS-SECTION
DDH LP82-3
 LILYPAD PROPERTY
 NAT JOINT VENTURE

SCALE 1:500

W. J. ...
J. ...

091435

ASSAY RESULTS

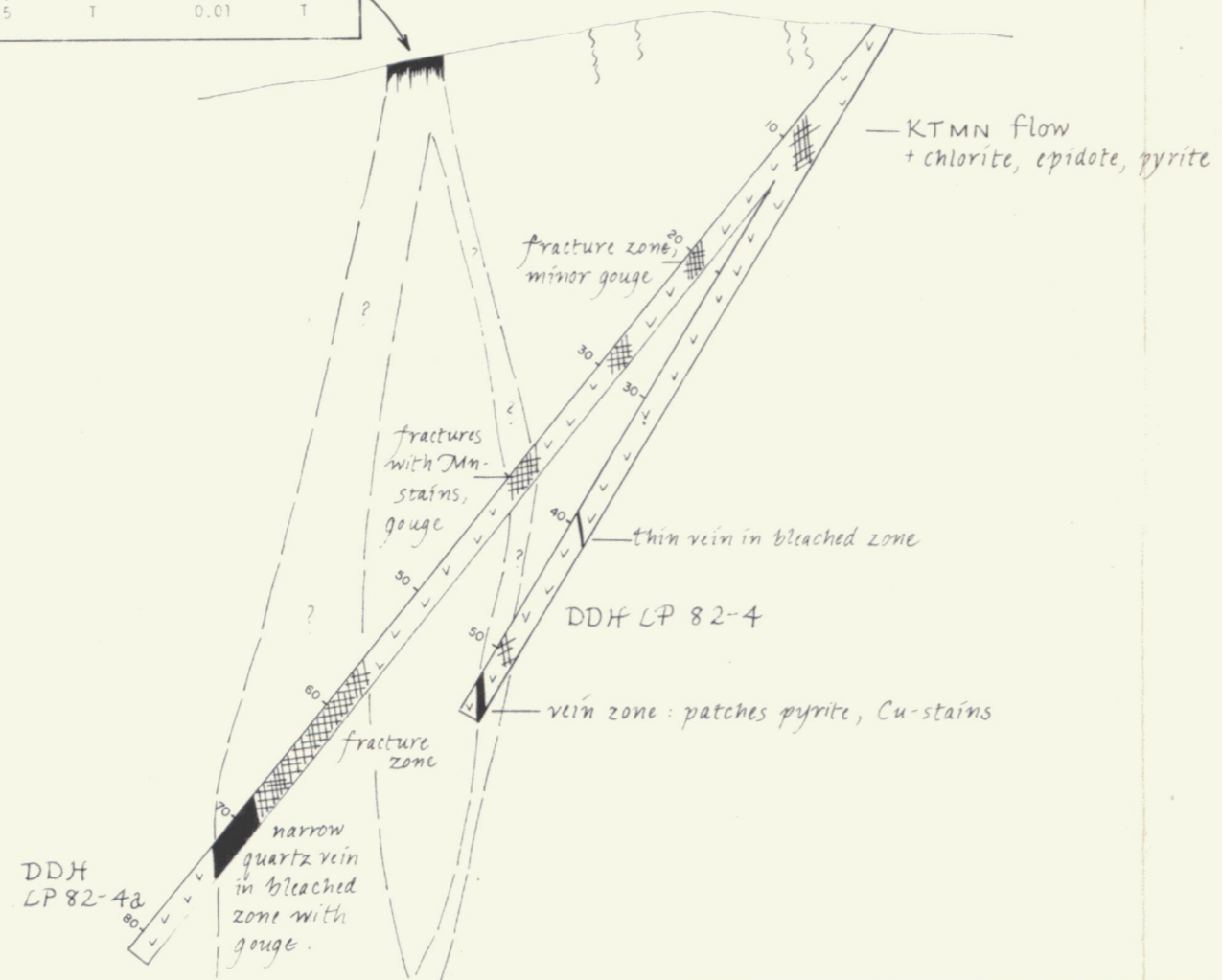
HOLE LP82-4

| INTERVAL | | SAMPLE NUMBER | ASSAY RESULTS | | |
|----------|-------|---------------|---------------|--------|--------|
| From | To | | ppb Au | ppm Ag | ppm Pb |
| 39.20 | 40.35 | M07228 | 2 | 0.1 | 27 |
| 40.35 | 40.62 | M07229 | 12 | 0.9 | 69 |
| 40.62 | 40.65 | M07230 | 17 | 2.5 | 118 |
| 40.65 | 41.70 | M07231 | 2 | 0.6 | 65 |
| 52.73 | 53.90 | M07232 | 5 | 0.5 | 23 |
| 53.90 | 54.56 | M07233 | 5 | 0.1 | 22 |

HOLE LP82-4a

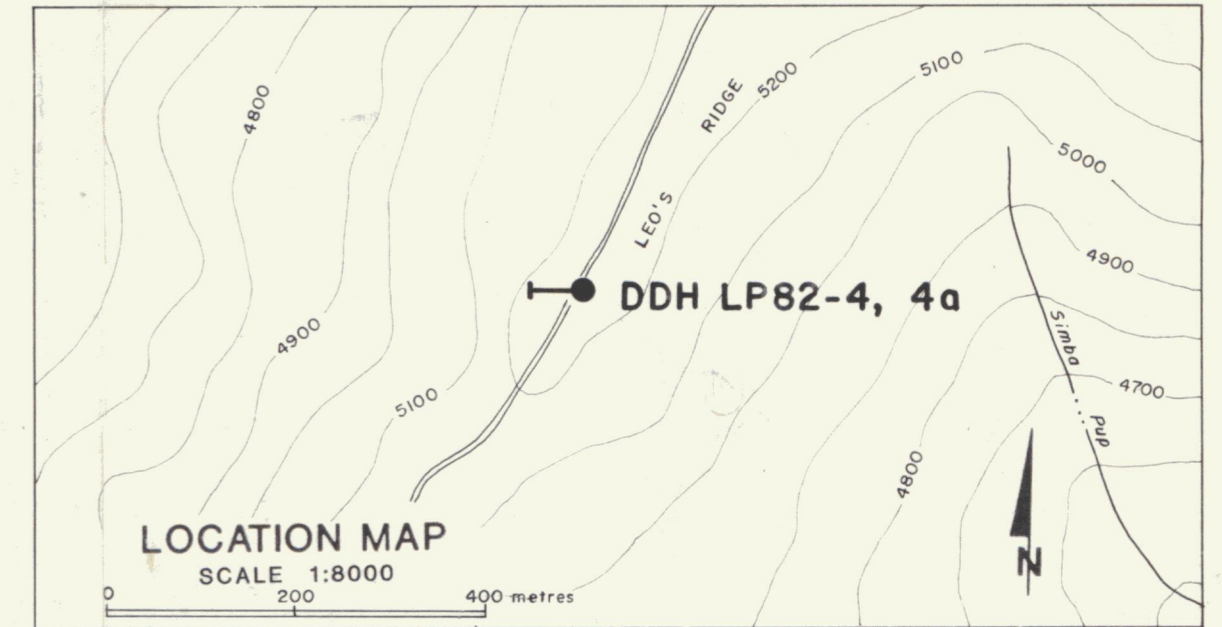
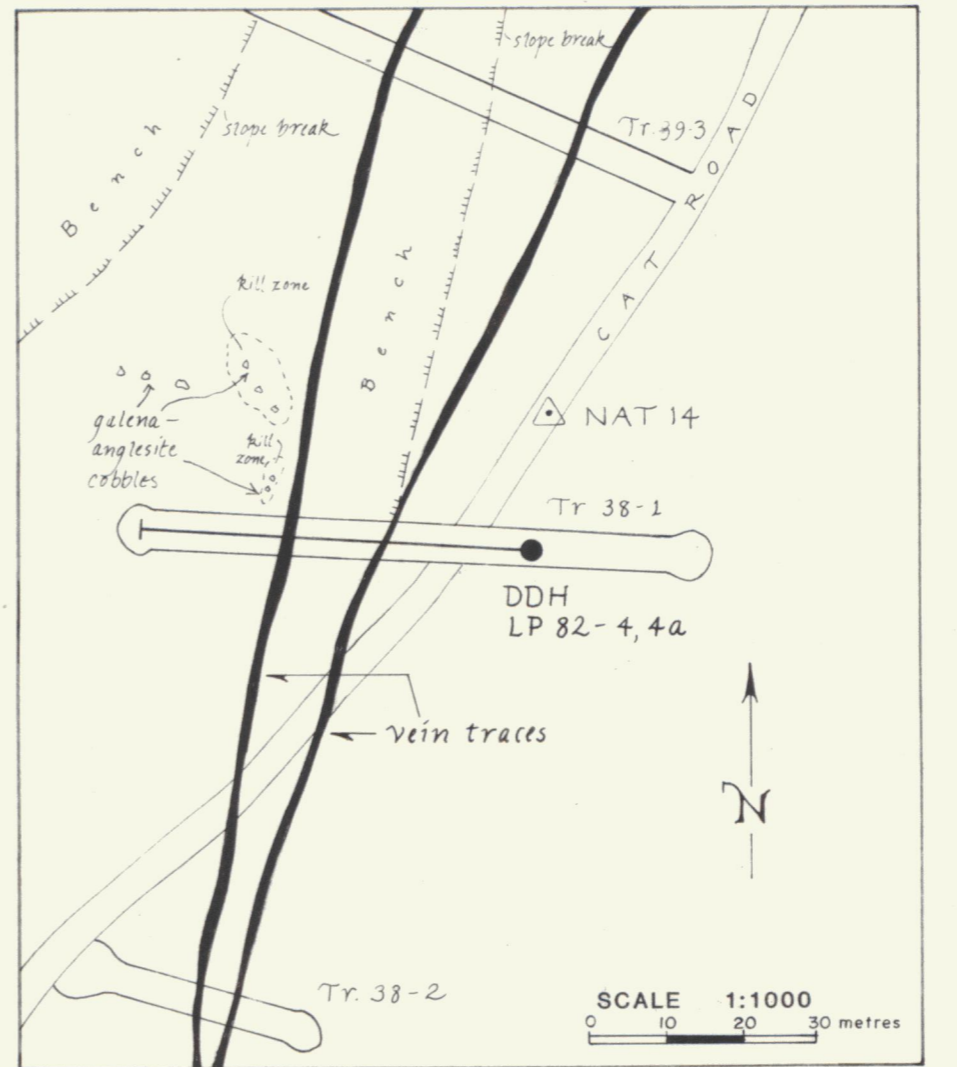
| INTERVAL | | SAMPLE NUMBER | ASSAY RESULTS | | |
|----------|-------|---------------|---------------|--------|--------|
| From | To | | ppb Au | ppm Ag | ppm Pb |
| 10.66 | 11.66 | M07234 | 2 | 0.1 | 16 |
| 17.75 | 18.95 | M07165 | 12 | 0.4 | 107 |
| 18.95 | 21.28 | M07235 | 2 | 0.1 | 18 |
| 29.00 | 29.40 | M07236 | 10 | 1.2 | 685 |
| 29.40 | 30.40 | M07166 | 7 | 1.0 | 215 |
| 32.90 | 33.90 | M07227 | 3 | 0.1 | 23 |
| 38.15 | 38.90 | M07237 | 5 | 1.1 | 1130 |
| 43.85 | 44.80 | M07238 | 3 | 0.1 | 82 |
| 44.80 | 46.75 | M07167 | 6 | 1.3 | 114 |
| 46.75 | 46.95 | M07239 | 14 | 1.0 | 144 |
| 56.69 | 57.91 | M07240 | 3 | 0.1 | 30 |
| 66.14 | 66.00 | M07241 | 6 | 0.4 | 34 |
| 68.00 | 69.00 | M07242 | 13 | 14.5 | 1000 |
| 69.00 | 72.54 | M07243 | 11 | 9.0 | 72 |
| 72.54 | 74.07 | M07244 | 19 | 29.0 | 745 |
| 74.07 | 75.70 | M07245 | 21 | 12.8 | 440 |
| 75.70 | 77.11 | M07246 | 7 | 5.3 | 195 |
| 77.72 | 79.25 | M07247 | 7 | 1.4 | 134 |

| Sample No. | Width (m) | Au (oz/t) | Ag (oz/t) | Pb (g) |
|------------|-----------|-----------|-----------|--------|
| 1 | 1.0 | T | 0.16 | .36 |
| 2 | 0.3 | .010 | 96.54 | 62.30 |
| 3 | 1.0 | .010 | 10.60 | 2.50 |
| 4 | 1.0 | T | 4.02 | 2.03 |
| 5 | 0.3 | .008 | 14.94 | 2.84 |
| 6 | 1.0 | .026 | 29.66 | 17.10 |
| 7 | 1.0 | T | 0.62 | 0.27 |
| 8 | 1.0 | .014 | 0.10 | 0.06 |
| 9 | 1.0 | T | 0.04 | 0.04 |
| 10 | 1.0 | T | 0.04 | 0.09 |
| 11 | 1.0 | T | 0.06 | 0.03 |
| 12 | 2.5 | T | 0.01 | T |
| 13 | 2.5 | T | 0.01 | T |



HOLE LP82-4
 COORDINATES 49,292N, 49,327SE
 COLLAR ELEVATION 1648 m
 AZIMUTH 273° DIP -60°
 DEPTH 54.6 m (179')

HOLE LP82-4a
 COORDINATES 49,292N, 49,327SE
 COLLAR ELEVATION 1648 m
 AZIMUTH 273° DIP -50°
 DEPTH 81.74 m (268')

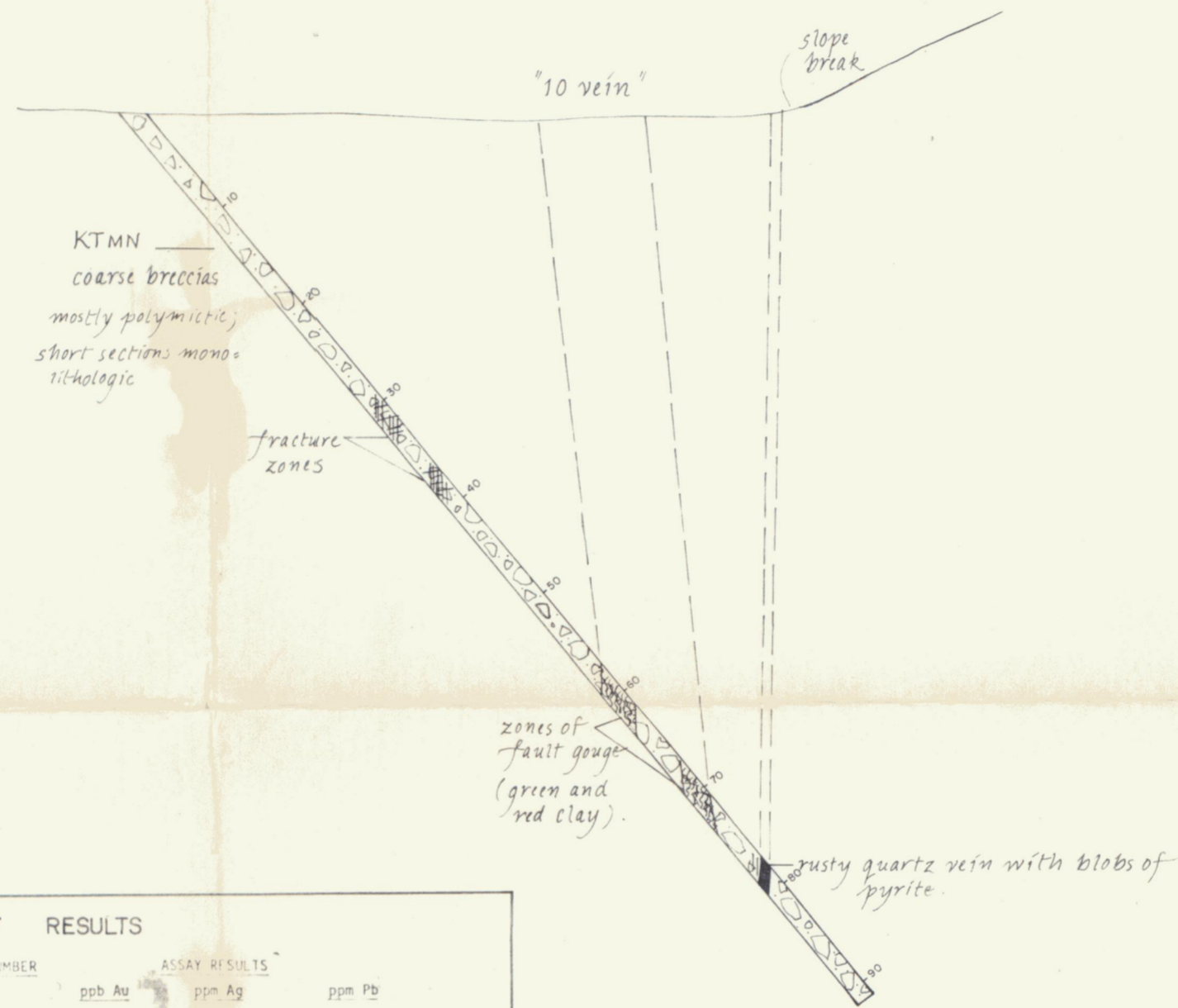
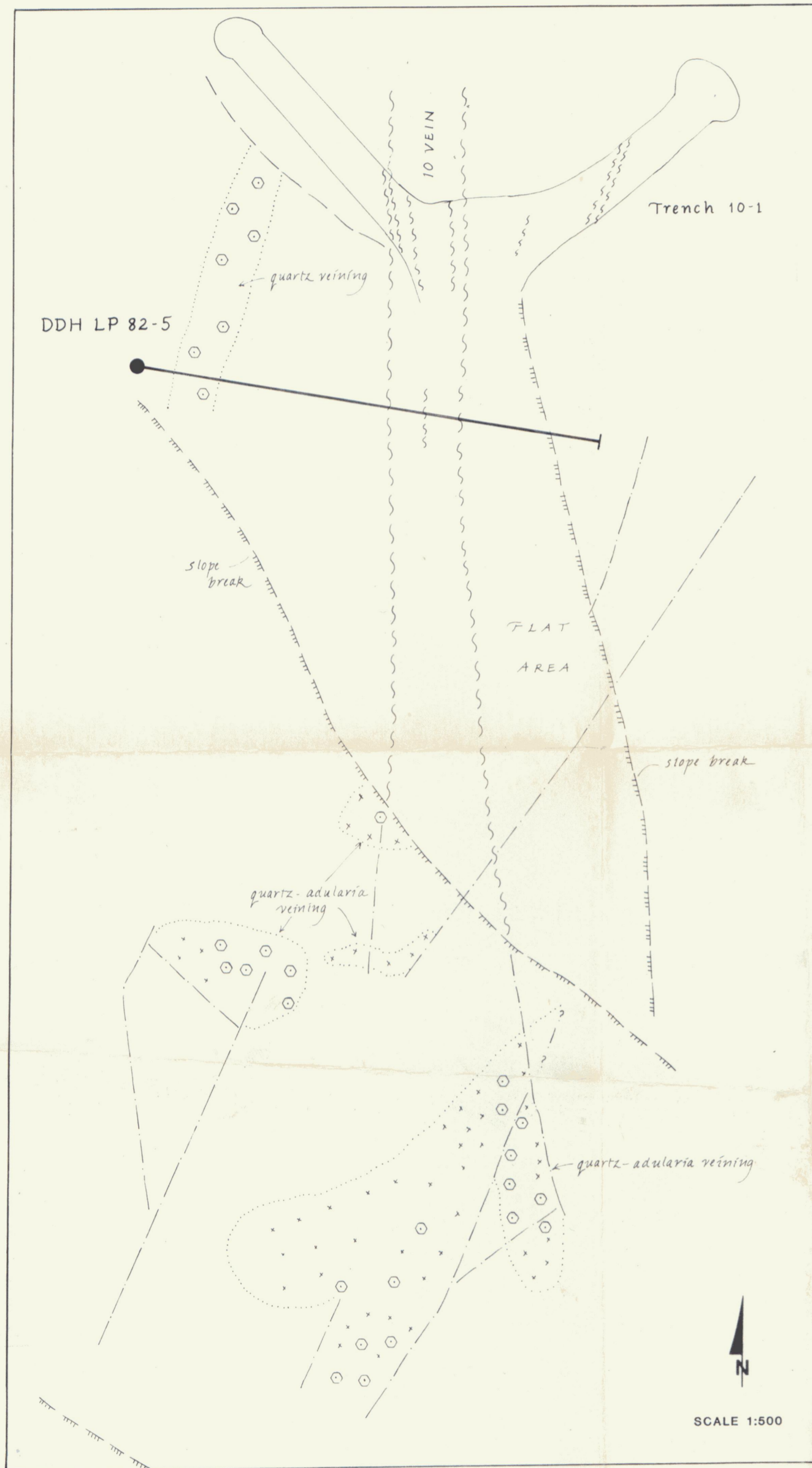


Handwritten: J. D. ...
 Jan/83

Figure L6
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CROSS-SECTION
DDH LP82-4, 4a
 LILYPAD PROPERTY
 NAT JOINT VENTURE
 SCALE 1:500



091435



| INTERVAL | | SAMPLE NUMBER | ASSAY RESULTS | | |
|----------|-------|---------------|---------------|--------|--------|
| From | To | | ppb Au | ppm Ag | ppm Pb |
| 7.31 | 8.31 | MO7250 | 2 | 0.1 | 25 |
| 16.15 | 17.15 | MO7251 | 1 | 0.1 | 22 |
| 22.56 | 23.16 | MO7252 | 1 | 0.1 | 21 |
| 30.08 | 31.08 | MO7253 | 1 | 0.2 | 14 |
| 37.49 | 38.49 | MO7254 | 2 | 0.1 | 120 |
| 46.33 | 47.33 | MO7255 | 16 | 1.4 | 57 |
| 51.73 | 52.73 | MO7256 | 1 | 0.3 | 35 |
| 52.73 | 53.40 | MO7168 | 20 | 0.2 | 62 |
| 53.40 | 54.56 | MO7169 | 1 | 0.2 | 37 |
| 54.56 | 55.17 | MO7170 | 82 | 1.7 | 57 |
| 55.17 | 57.61 | MO7171 | 4 | 0.7 | 154 |
| 57.61 | 58.61 | MO7257 | 1 | 0.6 | 104 |
| 58.61 | 59.76 | MO7172 | 2 | 0.6 | 720 |
| 59.76 | 60.66 | MO7173 | 4 | 1.8 | 4600 |
| 60.66 | 60.80 | MO7258 | 2 | 0.2 | 58 |
| 60.80 | 62.48 | MO7174 | 43 | 1.0 | 142 |
| 62.48 | 63.40 | MO7175 | 1 | 0.4 | 68 |
| 63.40 | 64.31 | MO7176 | 22 | 0.7 | 198 |
| 64.31 | 66.65 | MO7177 | 10 | 0.2 | 58 |
| 66.65 | 67.00 | MO7178 | 3 | 0.2 | 81 |
| 67.00 | 67.36 | MO7259 | 11 | 0.8 | 60 |
| 67.36 | 68.70 | MO7179 | 4 | 0.3 | 37 |
| 68.70 | 69.10 | MO7260 | 5 | 0.3 | 20 |
| 69.10 | 70.83 | MO7180 | 8 | 0.9 | 153 |
| 70.83 | 71.93 | MO7181 | 10 | 1.3 | 990 |
| 71.93 | 72.18 | MO7261 | 1 | 0.2 | 67 |
| 72.18 | 72.40 | MO7182 | 10 | 0.8 | 83 |
| 72.40 | 73.76 | MO7183 | 4 | 0.7 | 68 |
| 73.76 | 73.90 | MO7262 | 2 | 0.6 | 32 |
| 73.90 | 75.55 | MO7184 | 2 | 1.1 | 58 |
| 75.55 | 76.59 | MO7263 | 6 | 0.9 | 850 |
| 76.59 | 78.70 | MO7185 | 6 | 1.5 | 345 |
| 78.70 | 79.40 | MO7264 | 11 | 4.2 | 555 |
| 79.40 | 80.30 | MO7265 | 411 | 6.9 | 850 |
| 80.30 | 81.07 | MO7266 | 6 | 1.2 | 495 |
| 81.07 | 82.07 | MO7186 | 5 | 0.5 | 72 |

HOLE LP82-5
 COORDINATES 48,560N, 54,385E
 COLLAR ELEVATION 1572m
 AZIMUTH 100° DIP -50°
 DEPTH 91.4m (300')

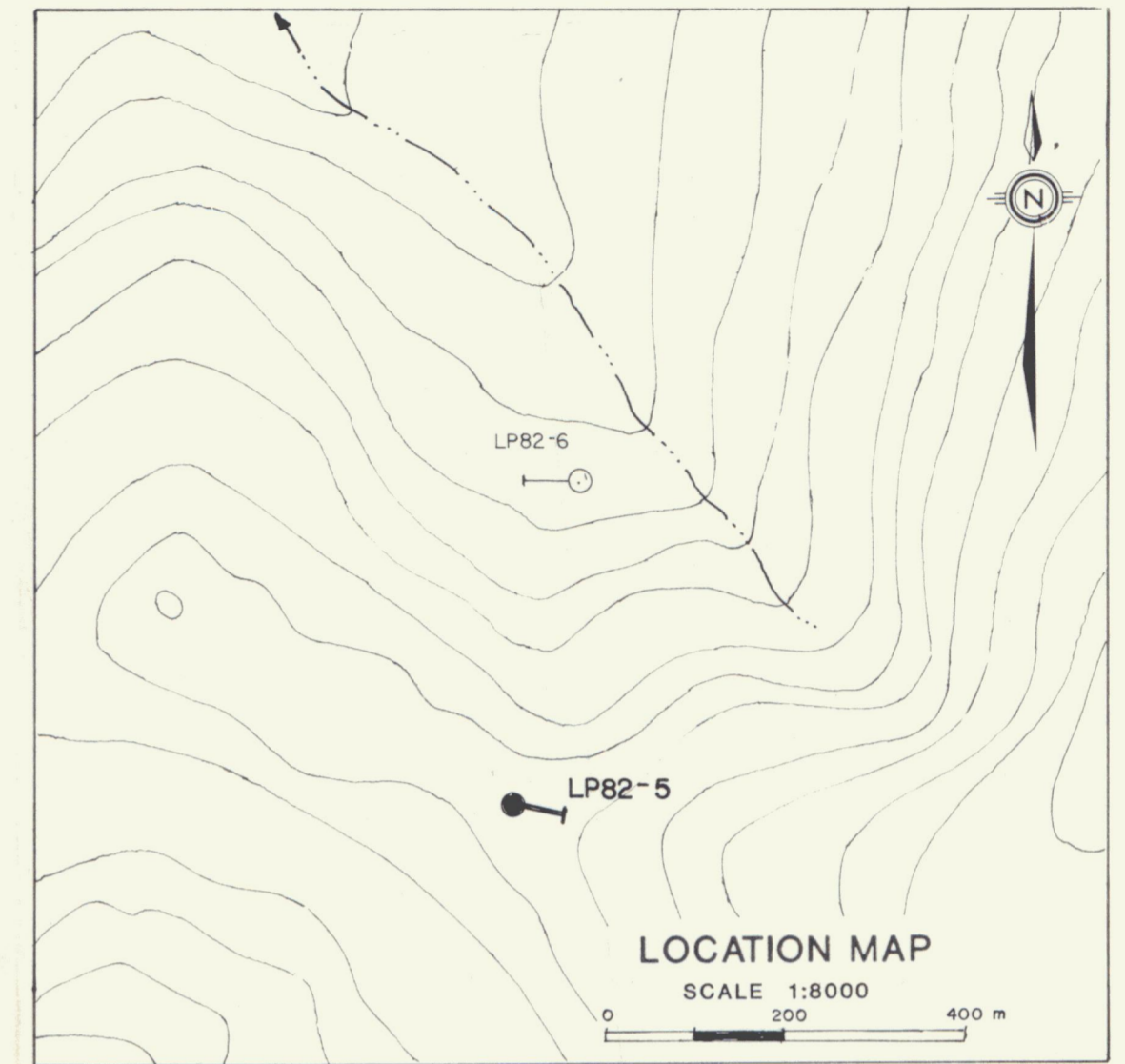


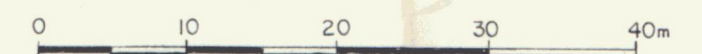
Figure L7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CROSS-SECTION
 DDH LP82-5**

**LILYPAD PROPERTY
 NAT JOINT VENTURE**

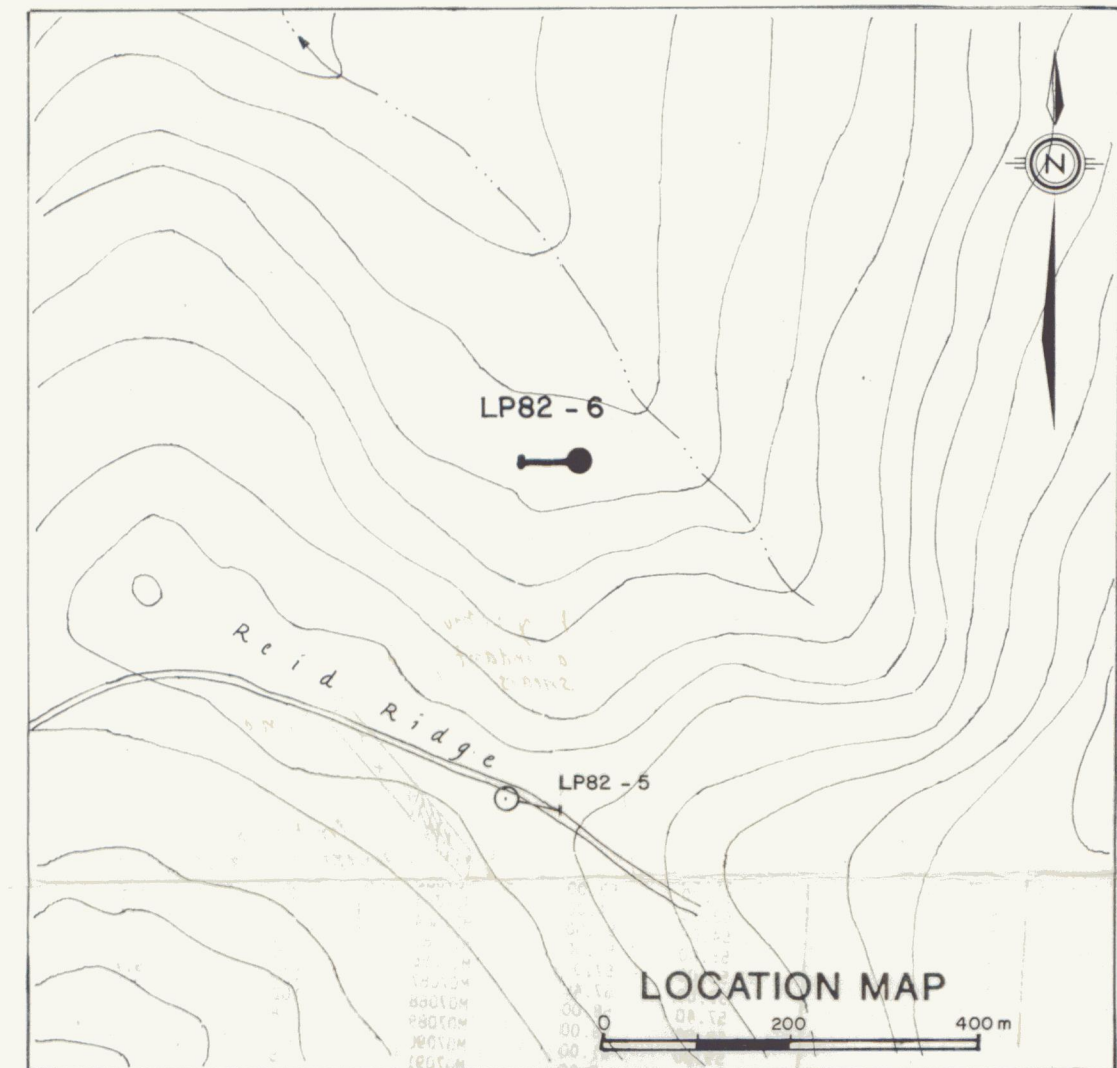
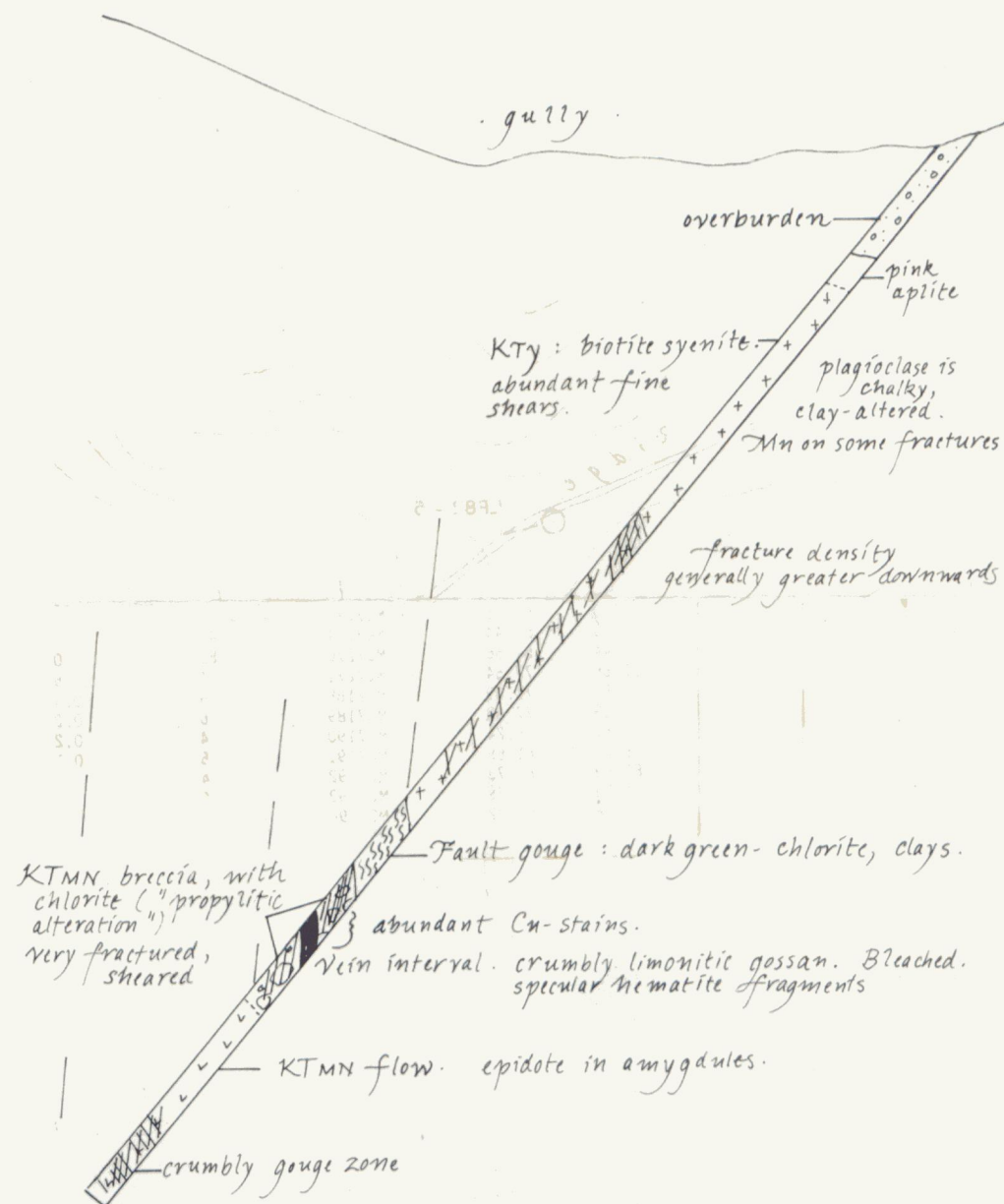
SCALE 1:500



W. J. Cathro
Jan/83

| INTERVAL | | SAMPLE NUMBER | ASSAY RESULTS | | |
|----------|-------|---------------|---------------|--------|--------|
| From | To | | ppb Au | ppm Ag | ppm Pb |
| 29.87 | 31.09 | M07267 | 4 | 0.1 | 35 |
| 49.68 | 50.90 | M07268 | 20 | 0.2 | 19 |
| 53.64 | 54.56 | M07272 | 2 | 0.2 | 27 |
| 54.56 | 55.85 | M07269 | 2 | 1.3 | 24 |
| 55.85 | 57.30 | M07187 | 5 | 0.6 | 295 |
| 57.30 | 60.35 | M07273 | 4 | 1.3 | 145 |
| 60.35 | 66.44 | M07274 | 43 | 20.0 | 4400 |
| 66.44 | 67.66 | M07270 | 82 | 38.0 | 4500 |
| 67.66 | 72.54 | M07271 | 4 | 0.5 | 92 |
| 72.54 | 75.59 | M07188 | 9 | 0.3 | 53 |
| 75.59 | 77.50 | M07189 | 6 | 0.2 | 29 |
| 77.50 | 79.24 | M07190 | 4 | 0.2 | 64 |
| 79.24 | 81.68 | M07191 | 5 | 0.1 | 27 |
| 81.68 | 84.73 | M07192 | 4 | 0.1 | 23 |
| 84.73 | 87.78 | M07193 | 6 | 0.1 | 31 |
| 87.78 | 90.22 | M07194 | 36 | 0.2 | 295 |

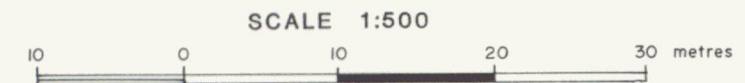
HOLE LP82-6
 COORDINATES 48,910N, 54,286E
 COLLAR ELEVATION 1426m
 AZIMUTH 265° DIP -50°
 DEPTH 90.2m (296')



W. Tonge
J. Taylor
 Figure L8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CROSS-SECTION
DDH LP82-6
LILYPAD PROPERTY
NAT JOINT VENTURE



091435