

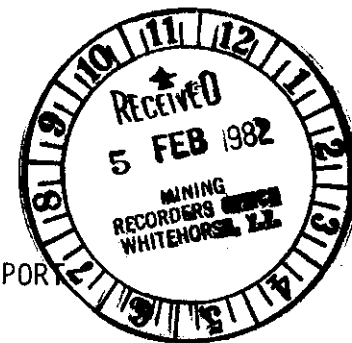
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NAT JOINT VENTURE

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

LILYPAD 1-429 CLAIMS

(YA25267-YA25282, YA51163-YA51178, YA51500-YA51567,

YA51601-YA51770, YA61271-YA61308, YA61488-YA61529,

YA61969-YA62039, YA62123-YA62130)

NEWT 1-132, 135-163 CLAIMS

(YA51157-YA51162, YA51486-YA51499, YA51771-YA51903, YA61309-YA61316)

Claim Sheets 115J/8 and 115I/5

Latitude 62°27'N; Longitude 137°57'W

Report by

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

Work done from 31 May, 1981 to 3 September, 1981

090976

This report has been examined by
the Geological Survey Unit
under Section 23 of the Quartz
Mining Act and is allowed as
representative work to the amount
of \$ 238,751.

R. Walker

for Regional Management and
Geological Services for Commissioner
of Yukon Territory.

From: Mining Recorder at Whitehorse

File No. _____

To: Supervising Mining Recorder - Whitehorse, Y.T.



FOR ACTION:

_____ New Application for Lease to Prospect: Name _____

_____ Renewal Appl'n Lease to Prospect: Name _____ No. _____

_____ Affidavit of Expenditure on Placer Lease: Name _____ No. _____

_____ Assignment of Prospecting Lease No. _____

From _____ To _____

_____ Grouping Appl'n under Sec. 52(2) Yukon Placer Mining Act: Owner _____

_____ Diamond Drill Logs: _____

Owner: _____ Claim Sheet No. _____

✓ Quartz Assessment Report _____

Claims: Lilypad 1-429, tent 1-132, 135-163 Claim Sheet No. 115J-8, 115I-5

Type of Report: Geological, Geochemical, Geophysical

Submitted By: Archer, Cadro & Assoc.

Claims work performed on: tent 135-140, 149-154, 103-112, 143-148, 113-128, 91-102, 129-132

\$ Req. for renewal application: 302625.00 etc.

Signature W. L. L. for M.R.

Date 8 Feb 82

Reply action

Date Ref

Signature _____

Date _____

090976

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LILYPAD PROPERTY

Introduction

Attention was first drawn to the Hayes Creek area after 1979 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 & Associates Limited and vended to NAT Joint Venture (Chevron Canada Limited and Armco Mineral Exploration Ltd.) 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 associated mineralized quartz veins. By the end of 1980, a total of 423 Lilypad and Newt claims had been staked.

Property development in 1981 consisted of an integrated program of surveying, locating and sampling mineralized veins, and bulldozer trenching with subsequent geological mapping and channel sampling. A total of 133 trenches were cut using a D7E bulldozer operated by J. O'Connell of J-Nor Enterprises Ltd. An interconnecting road system suitable for 4-wheel drive vehicles was also established, and clearing for an airstrip at the southern margin of the claims was begun in August. The bulldozer was walked to the property on 16 July and returned to Carmacks on 6 September, following a route south of Big Creek approved by DIAND (Whitehorse).

Further staking during the 1981 field season was done to protect new discoveries of mineralized veins towards the south and west, and the total number of Lilypad and Newt claims at the end of the season was 590. Initial property work consisted of prospecting ridges, where exposure of these linears was best. After practice, the crew was able to recognize even subtle features associated with both faults and mineralized veins. All lineaments, whether recognized as veins or not, were assigned arbitrary numbers, with each group of 100 attributed to a different prospector. Thus unique vein numbers were assured. Although some grouping exists, no system was used to relate lineaments to their positions. All of the numbered

lineaments were prospected, geologically mapped and geochemically sampled, usually by 2-man teams. Linears were marked with 50 cm pickets along their length, partly to establish their observed strike length and partly to draw attention to their locations. Various colours of flagging were used to denote position, reference points for surveying, sample locations and mineralization.

A metric grid and associated map-numbering system has been designed for the Lilypad property as explained in a following section and illustrated at 1:50,000 scale as Figure N21A. This map also provides a key to all other Lilypad maps. Figure N21B shows regional geology in the Lilypad area as mapped by D.J. Tempelman-Kluit (DIAND), and Figure N21C illustrates claim boundaries for the Lilypad-Newt block; both maps are also at 1:50,000 scale.

Location of survey pickets, topography and geology at the centre of the property are shown in the N22 series of maps at 1:4,000 scale, and also on a 1:8000 scale reduction of the central area (Figure N24).

Trench mapping, local geology and geochemical information have been compiled into a series of 21 maps at 1:1,000 scale as Figures N23:xx, with xx being a map location number. These detailed maps illustrate the actual data base of the 1981 work. Their relative positions are distinguished on the key map (Figure N21A) as a stippled pattern.

Geochemical data collected both in 1980 and in 1981 reconnaissance traverses outside the above detail area have been plotted at 1:25,000 scale on Figures N7D (gold and arsenic) and N7E (silver and lead).

The names of the NAT personnel involved, periods of employment and addresses are listed in Appendix IV.

Property, Location and Access

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

| <u>Claim Names</u> | <u>No. of Claims</u> | <u>Record Numbers</u> | <u>Expiry Date</u> |
|--------------------|----------------------|-----------------------|--------------------|
| Lilypad 1- 16 | 16 | YA25267-282 | 14 Feb. 86 |
| 17- 32 | 16 | YA51163-178 | 14 Feb. 87 |
| 33-100 | 68 | YA51500-567 | 14 Feb. 86 |
| 101-170 | 70 | YA51601-670 | 14 Feb. 86 |
| 171-184 | 14 | YA51671-684 | 14 Feb. 85 |
| 185-198 | 14 | YA51685-698 | 14 Feb. 86 |
| 199-212 | 14 | YA51699-712 | 14 Feb. 85 |
| 213-270 | 58 | YA51713-770 | 14 Feb. 86 |
| * 271-308 | 38 | YA61271-308 | 14 Feb. 86 |
| * 309-350 | 42 | YA61488-529 | 14 Feb. 86 |
| • 351-378 | 28 | YA61969-996 | 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 | YA62001-006 | 14 Feb. 86 |
| * 389-396 | 8 | YA62007-014 | 14 Feb. 85 |
| * 397-421 | 25 | YA62015-039 | 14 Feb. 86 |
| * 422-429 | 8 | YA62123-130 | 14 Feb. 86 |
| Newt 1- 6 | 6 | YA51157-162 | 14 Feb. 87 |
| 7- 20 | 14 | YA51486-499 | 14 Feb. 86 |
| 21-104 | 84 | YA51771-854 | 14 Feb. 86 |
| 105-132 | 28 | YA51855-882 | 14 Feb. 85 |
| 135-155 | 21 | YA51883-903 | 14 Feb. 85 |
| • 156-163 | 8 | YA61309-316 | 14 Feb. 86 |

Claims marked with an asterisk (*) were staked in 1981. The Newt 133-134 claims are missing because they have not been staked.

The Lilypad-Newt block is centred at latitude 62°27'N and longitude 137°57'W, straddling claim sheets 115J/8 and 115I/5, about 93 km northwest of Carmacks. Access in 1981 was by helicopter from a camp at the junction of the Freegold secondary road and Bow Creek, about 54 km west of Carmacks. Some of the crew and the bulldozer operator stayed at flycamps on the property and reached targets areas by foot.

Previous Work

Most of the previous exploration in the Hayes Creek area (1969-70) has been for porphyry-type copper-molybdenum and copper-lead-zinc targets, and to a lesser extent for gold (1975).

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 ML.

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 ML and optioned in 1970 to Phelps Dodge, which explored by mapping, linecutting, sampling and a magnetometer survey. The claims were transferred to Chatham Res L 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 L 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 ML but were not explored. NAT's Lilypad claims now cover the anomalies.

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 ML. The Pro claims were staked immediately north in 1970 by Can Occidental Pet L, which prospected and soil sampled in 1971.

A 150 m shear zone containing breccia fragments in a siliceous matrix and closely-spaced quartz veinlets cut quartz monzonite and Yukon Group metasediments northeast of East Hayes Creek, and have generated weak arsenic and antimony soil anomalies. One sample of sheared schistose granite returned 0.16 oz/ton Au, although most samples assayed less than 0.01 oz/ton Au. The shear was staked in 1975 by DC

Syndicate, which performed geochemical sampling, trenching and mapping. A silicified zone cutting granitic rocks and overlain by Carmacks volcanics on East Hayes Creek has generated weak arsenic and antimony soil anomalies with gold values up to 0.03 oz/ton. It was also staked and mapped in 1975 by DC Syndicate.

Physiography and Glaciation

The Hayes Creek area lies within the unglaciated Dawson Range, a subunit of the Klondike Plateau that is characterized by narrow, dendritic valleys separated by long, smooth-topped ridges with uniform elevations. The ridges are remnants of an old, uplifted erosion surface that rises in places to form relatively smooth-sloped mountains with up to 850 m relief near Apex Mountain. Although outcrop in the Dawson Range is generally scarce, bedrock can usually be mapped by examining frost-broken scree or felsenmeer which is common on the steeper hill slopes.

Valley bottoms are almost always obscured by thick alluvium, and are lightly treed with black spruce and dwarf birch. The subrecent volcanic ash layer is thin in this area, usually less than 10 cm, and does not hinder sampling. Although local annual precipitation is probably less than 50 cm and snow thickness is correspondingly low, the claims are totally snow free for only approximately three months of the year.

Topographical Survey and Map Organization

During the last week of June, a crew of four surveyors from Hosford, Impey and Welter Ltd. (Whitehorse) performed a land survey at the Lilypad property using electronic distance-measuring equipment to establish thirty monuments on prominent hilltops. Later rod-and-transit surveys by NAT used these locations for control, and established survey hubs about every 50 m along ridges where trenching was anticipated. These hubs allowed veins and trench locations to be accurately mapped and will provide similar control for future work, including diamond drilling.

An arbitrary point was chosen at the peak named Centre Mt. to represent the intersection of the 50,000N and 50,000E coordinate lines of a metric orthogonal grid oriented to true north. Lilypad maps have been numbered according to a system resembling the federal NTS system (ie. rectangular map areas are divided into 16 subsidiary maps at a larger scale, with numbering starting at the southeast corner and "snaking" through the 4x4 blocks to end at the northeast corner). At Lilypad, 1:4,000 scale maps are labelled with a number and letter (eg. 6P), and represent areas 3200 m square. Each of these is further subdivided into 16 areas at 1:1,000 scale, with 800 m edges. Thus map 10D/4 (1:1,000 scale) ranges from eastings 50,000E to 50,800E and northings 50,000N to 50,800N, for example, whereas map 10D (1:4,000 scale) ranges from 50,000E to 53,200E and 50,000N to 53,200N. This is illustrated in Fig. N21A, and further notes are given in the legend. Unique map numbers are thus available over 2620 sq. km, much larger than the area of interest surrounding Lilypad.

NAT surveying was conducted using a Nikon NT-2A theodolite and rod, and subsequent calculations reduced on a Sharp PC1211 hand-held computer. Using Hosford, Impey and Welter's monuments for control, hubs (short 2" x 2" posts painted fluorescent orange) were established approximately every 50 m along ridgetops; these are illustrated on Figures N22. After this work was completed, individual trench or vein pickets were surveyed using stadia techniques or resection. All survey locations have been computed as metric grid coordinates, which are listed in Appendix I. Trench and vein locations were plotted on Figures N23 using these coordinates.

Aerial Photography

Available government photography clearly shows an abundance of north- to northeast-trending lineations in the Lilypad area, but these old photos are not of sufficient quality to allow accurate mapping. Accordingly Hosford, Impey and Welter

Ltd. were also contracted to fly black and white aerial photography over a selected area at 1:12,000 and 1:24,000 scales. Due to a combination of bad weather and unavailability of aircraft, the job was not done until 25 August. Despite the lack of photos during the season however, the late date had the advantage of allowing the majority of the 1981 trenching and road network to be photographed. The greater detail in the Lilypad photographs, compared to available government airphotos, will facilitate further interpretation of structural and geological features and allow orthophoto mapping as required.

Geology

The Hayes Creek area lies within the Yukon Crystalline tectonic belt, which can be divided into three major lithologies: a Paleozoic and late Proterozoic assemblage of metamorphic rocks, a set of varied Mesozoic and Tertiary plutonic rocks, and a sequence of Cretaceous to Tertiary volcanic strata.

The metamorphic rocks are undifferentiated gneisses, schists and quartzites known as the Yukon Group. The oldest member, the Pelly gneiss, is probably of late Windermere age and is comprised of granodiorite gneiss and biotite schist, with local marble. This is overlain by graphitic quartzite and slate of the Nasina quartzite member, and by a Carboniferous to Permian(?) muscovite-quartz schist and amphibolite member referred to as the Klondike Schist. The Yukon Group was probably derived from a quartz-rich sediment and metamorphosed in the late Triassic.

These metamorphic rocks were invaded by four groups of plutonic rocks: late Triassic quartz diorite; Jurassic sometimes porphyritic pink quartz monzonite; Cretaceous to Tertiary Coffee Creek quartz monzonite to granite, and Nisling Range granodiorite and syenite; and late Cretaceous to early Tertiary alaskite, the imprint of the Coast Plutonic belt on the Yukon Crystalline Terrane.

Since mineralization at Lilypad appears to be exclusively associated with late Cretaceous or younger rocks, those units of Mesozoic age and older have been grouped

into undifferentiated metamorphic or granitic basement suites (Mm and Mg) on NAT's 1981 geological maps for the Lilypad area. This follows a convention adopted by D.J. Tempelman-Kluit (DIAND), who visited and geologically mapped the Lilypad property during August, 1981. His mapping is illustrated at 1:50,000 scale as Figure N21B.

The late Cretaceous to early Tertiary (KT) units, collectively referred to as the Mt. Nansen group, include a plutonic, crystalline phase (KTy syenite, KTgal alaskite and KTb gabbro), a porphyritic feeder phase (KTfp feldspar porphyry, KTqfp quartz-feldspar porphyry and KTbr fragmental rocks) and an extrusive phase (KTmn acid to intermediate "Mt. Nansen" volcanics, and KTc basic "Carmacks" volcanics). All of these phases occur at Lilypad, and have been mapped at 1:4,000 scale (see Figures N22) by geologist D. Heberlein, also during August, 1981. A detailed description of the Mt. Nansen group follows.

Most of the broad, flat valley bottoms in the central part of the Lilypad property are underlain by an east-west band of syenite (KTy). It is pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine- to medium-grained, grey, green and buff coloured and equigranular. It is typically non-porphyritic with up to 70% K-feldspar, 20% biotite, 15% plagioclase and 5% quartz. A second, more common variety of syenite is porphyritic. It is coarse grained with large K-feldspar phenocrysts showing good Carlsbad twinning and with similar constituents to the non-porphyritic variety but with less biotite, very little quartz and rare amphibole crystals in the matrix. The two types are gradational, and the biotite-rich member may represent a contamination by Mt. Nansen volcanics at the contact since in many places, the biotite syenite directly underlies massive flow-banded dacitic rocks (eg. at Apex Mt.), and possibly represents the subvolcanic-volcanic transition.

Where silica content exceeds 10%, the intrusive rock becomes either a light tan weathering, leucocratic, aphanitic to coarse-grained alaskite (KTgal) recognized at one location about 3 km west of Centre Mt., or a quartz monzonite with hornblende and

biotite mafics. The more siliceous phases of the syenite are not as common as the undersaturated phase and have not been distinguished in the mapping. At one location west of North Big Creek, a pipe of gabbroic composition (KTb) has been recognized, and probably represents a feeder to the Carmacks basalt (see Figure N21B).

Reconnaissance-scale structural mapping by Tempelman-Kluit and Heberlein suggests that the syenite intruded weak layers between basement rocks and its own extrusions, forming a laccolithic structure and probably doming the overlying volcanic strata with antiformal attitudes (see cross-section on Figure N21B). Contacts with the pluton are gradational everywhere on the property and are marked by thermal metasomatism, producing a prominent hornfels in the volcanics characterized by loss of texture, black aphanitic appearance and a competent "ring" when struck with a hammer. Good examples can be seen at Zit Peak and Tabletop Mountain (see Figure N21B).

Subvolcanic porphyry (KTfp and KTqfp) occurs as plugs, dykes and sills throughout the property and may comprise feeders to the Mt. Nansen volcanics (see Figures N22). Weathered surfaces of these rocks vary from dark grey-green in fresher varieties to yellowish-buff or white in more altered varieties. The matrix composition is felsic (quartz-feldspar-amphibole) with a sugary to vitreous texture. Anhedral quartz phenocrysts to 1 cm together with tabular, perthitic K-feldspar or plagioclase phenocrysts to 2 cm comprise 10% to 20% of the porphyry.

The most common rock type at Lilypad is the Mt. Nansen volcanic (KTmn), consisting predominantly of acid to intermediate, fragmental or brecciated tuffs with occasional flows of andesite to basaltic andesite. Textures are extremely variable, mostly representing bedded subaerial tuffs, laharic flows and subaqueous (lacustrine) volcaniclastics.

The subaerial tuffs vary in grain size and composition. The most common type is a grey- to green-weathering tuff with distinct fragments of scoriaceous or massive andesitic material with a fine-grained matrix that appears aphanitic on fresh

surfaces. Fresh tuff is black and fragments are difficult to recognize, although differential-weathering colours reveal grain sizes from microscopic to several centimetres in size. Coarser fragmentals vary from matrix-supported to fragment-supported, with distinct crystals of euhedral pyroxene, amphibole and plagioclase.

Lahar flows of coarser fragmentals form prominent, pinnacled outcrops east of Crescent Ridge. They are poorly sorted, with mixed particles typically 1 to 10 cm in size (but reaching 50 cm), including fragmental tuffs, scoriaceous or pumaceous fragments, porphyritic andesite flows and possibly intrusive rocks. Lahars weather buff to pale green and have a distinctive green and mauve colour on fresh surfaces. Crystals of pyroxene and plagioclase are common in the matrix.

Subaqueous volcaniclastics form a large portion of the finer-grained fragmentals, characterized by pale-grey weathering outcrops that break into slabs about 10 cm thick. Weathered surfaces show a variety of sedimentary textures, including graded bedding, ripples, cross-laminations and load casts (eg. at North Newt). These sediments are poorly sorted and immature, probably representing material deposited in a caldera lake or large basin. A unit chiefly comprised of volcaniclastic rocks can be seen east of Prospector Mt. and on Crescent Ridge.

Coarse vent-agglomerates occur in places, notably south of Centre Mt. where they form outcrops similar to the lahars, but differing in their monomictic (homolithic) character, composed of andesitic material.

Flow units of the Mt. Nansen group can be seen east of Prospector Mt., although they are not laterally extensive and grade into the tuffs. Red flow tops imply subaerial extrusion. They are andesitic to basaltic, pale brown weathering, massive, blocky units up to 5 m in thickness, with black, fine-grained to aphanitic fresh surfaces, commonly containing feldspar, pyroxene and rare quartz phenocrysts. They are distinguished from Carmacks flows (see below) by the conspicuous lack of olivine.

Carmacks volcanics (KTC) are not common within the Lilypad area, although a

large basin filled with Carmacks basalt occurs about 15 km to the south, forming rolling hills with terraces. The basalt flows are commonly greater than 5 m thick and contain little or no fragmental material. Surfaces weather a characteristic dun-brown with brecciated or fragmental, reddish flowtops. They are fine-grained, black to dark green on fresh surfaces, and distinctly porphyritic with augite and fresh olivine phenocrysts to 1 cm. Upper flows show vesicular textures, with amygdules of calcite and chalcedony. Weak columnar jointing is occasionally evident.

Mt. Nansen volcanics are distinguished from Carmacks volcanics by the presence of olivine and pyroxene in the latter, and only pyroxene in the former. Other differences include (Carmacks versus Mt. Nansen): dun-brown weathering colour compared to dark grey; thicker beds versus thin or massive beds; no quartz versus quartz, feldspar and hornblende; nonfragmental versus fragmental; and flows and flowtops versus intercalated flows and fragmental, water-laid tuffaceous and sedimentary textures, respectively. Age dating by DIAND and students at UBC (1980 theses) give coeval dates for the volcanic units, both about 70 (plus or minus 5) million years. A specimen of syenite from a location about 1500 m due south of Prospector Mt. has also returned a date of 68 (plus or minus 1.6) million years. These dates fall in the late Cretaceous.

Most of the rocks of the Mt. Nansen suite are weakly altered at Lilypad. A regional propylitization is evidenced by chlorite, epidote and calcite on fractures. Chlorite also replaces tuffs near the intrusive contact and occurs with tourmaline. Intrusive rocks are lightly saussuritized with sericitic alteration clouding the plagioclase. Bleaching and argillic alteration are only locally associated with veins or faults. In general, the regional alteration appears to be relatively dry, the syenite having little hydrous material to spare.

A model for geological and mineralogical evolution at Lilypad is suggested in a following section.

Structure

A linear topographical and aeromagnetic feature known as the Big Creek Lineament (also referred to as Big Creek Fault) can be traced parallel to the northwest regional trend from Carmacks through Big Creek and Hayes Creek to the Yukon River. It is related to most of the mineralized porphyries in the Dawson Range, probably indirectly as a zone of crustal weakness that allowed porphyry systems (and volcanic centres) to develop along it. Notable deposits close to it include: Mt. Freegold (LaForma), Yukon Revenue and Nucleus, Klazan, Cash, Lilypad, Tad, Mt. Cockfield and Casino. All of these porphyry systems contain associated gold and silver values as well as peripheral gold-quartz and gold-silver-carbonate veining. In some cases (Mt. Freegold), the precious-metal veining is the most economic feature of the porphyry system.

Along some parts of the Big Creek Lineament subsidiary tear-faults (tension-faults) are expressed topographically as creeks intersecting at high angles, such as those south of Big Creek between NAT's Nucleus and Nitro properties. At least some of the lineations that are visible on aerial photographs of the Lilypad area (see section above) are expressions of regional tectonics, although the high density of lineations at Lilypad is anomalous, with lineations at least every 75 m, and some places every 10 to 20 m, occurring over some 50 km. As suggested above, plutonic rocks injected into weaknesses between volcanic strata and the underlying, more competent basement rocks appear to have caused regional doming over an area about 20 km across. This would have been accompanied by faulting and fracturing of the overlying units, as well as by dyke injection. The orientation of lineaments at Lilypad, with strikes ranging from true north (000° azimuth) to northeast (070° azimuth), is approximately perpendicular to the axis of intrusion. The fracture pattern may have been further complicated by later subsidence and/or re-intrusion.

On the ground, lineaments are only well-developed on unvegetated ridge tops,

although they are often obscured by debris from adjacent wall rocks. They characteristically form shallow gullies with strike lengths up to a kilometre and widths ranging from a few metres to more than 100 m. Fault gouge is often present, as well as some alteration minerals (kaolinite), suggesting substantial movement along the lineations in some cases. At Newt (see Fig. N23:10C/11) heavy gouge is prevalent and a large horse of chloritized volcanic can be seen caught up in the fault. This fault can be traced for at least 6 km in length on airphotos, with mineralization in two locations some 5 km apart. Lineations are most easily traced through volcanic rocks, but also occur in the plutonic rocks, forming prominent saddles especially on east-trending ridges (eg. Peter Ridge).

Most lineations, whether faults or veins, appear to be steeply-dipping, with attitudes ranging between 65 and 90 degrees. This feature was noticed early since most of the lineations visible on air photographs do not deviate with topography as traces of shallowly-dipping planar features would do. Later direct observations of veins and faults cut by bulldozer trenching verified the steep attitudes.

All mineralized lineations (ie. veins) exhibit gouge and slickensides and appear to have movements of 50 m or less with the exception of the strong Newt vein. Vein structures exhibit occasional branchings, and there is evidence of minor left-handed off-setting (5 to 10 m) faults.

Mineralization

Most rocks in the Hayes Creek area contain pyrite. Rusty weathering is prevalent in Yukon Group quartzites, Mt. Nansen 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% but usually less than 1%. Both magnetite and hematite are present in, or associated with, volcanics and some of the crystalline 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.

Random boulders and talus fragments of quartz had been noted during initial (1980) reconnaissance of the Lilypad claims and in the vicinity of Apex Mountain, but the vein source of this float was not recognized until late in the 1980 field season. As mentioned above, the 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 colors; 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. The pitting appears to represent leached mineralization that is most likely a boxwork after carbonate (siderite?) containing pyrite, galena and sulphosalts.

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). 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 (see Fig.N23:7M/15). After trenching, a second sample of vein material was panned, and no fewer than 50 grains of gold were identified under the microscope, with some 20% of these occurring as rounded octahedral crystals.

Aside from galena, no silver minerals have been recognized. Ultraviolet lamping did not detect any scheelite from some twenty panning concentrates collected at various locations below known mineralization. No radioactive minerals were found by applying a scintillometer to the specimen collection at the end of the field season.

Reconnaissance Geochemistry

Results of surface geochemical sampling are shown in two separate series of maps for the Lilypad area. At the core of the property, geochemistry (1980 and 1981) is illustrated at 1:1,000 scale on Figures N23, along with trench sampling. Outside this area, 1981 regional sampling results are illustrated at 1:25,000 scale on Figures N7D (gold, arsenic) and N7E (silver, lead).

A total of 1600 soils, 106 silts and 347 rocks were collected during reconnaissance exploration in the 1981 field season at Lilypad. The samples were analyzed at Chemex Labs Ltd., North Vancouver, B.C. The analytical techniques used are discussed in Appendix V. Most of the sampling was directed towards outlining new vein areas for purpose of acquiring claims, and all lineaments encountered in traverses were sampled. As expected, many of these samples returned strong anomalies in silver and lead, and sometimes in arsenic and gold. (Interestingly, the crew started considering samples from linears to be anomalous if they did not return high silver-lead values!) By contrast, samples taken from volcanic or intrusive areas not cut by linears typically returned low values in all metals.

Lead assays up to 65% (galena specimen) were returned from reconnaissance sampling in the volcanics, with silver assays up to 56 oz/ton. In the syenite, similar assays (up to 52% lead and 131 oz/ton silver) were reported (at the "Reid Vein" - see inset on Figure N7E). The silver-to-lead ratio is higher in the syenite-hosted veins, 2.5 for the rock sample above. A soil from the Reid Vein returned 12% lead with 125 oz/ton silver (with Ag:Pb = 10:1).

Anomalous gold and arsenic results are less numerous, but high assays have been returned from some areas. By far the highest gold received to date has been from a hand-specimen of galena collected at the Newt saddle, which assayed 0.784 oz/ton gold and exceeding 1000 ppm arsenic. Gold assays of 0.146 and 0.106 oz/ton (arsenic 640 and 50 ppm respectively) have also been returned from volcanic soil in linears on a hill west of North Big Creek (Oiy'e's Boot), and 0.089 oz/ton gold with 240 ppm arsenic was returned from a soil sample on 2-Bump Hill, east of North Big Creek. Soils collected over syenite at the Reid Vein have also returned anomalous gold values, with several in the range 0.005 to 0.008 oz/ton, and reaching 0.014 oz/ton. Arsenic results are anomalous, but not exceptionally so, typically ranging from 50 to 500 ppm.

The current claim block now covers almost all of the anomalous geochemistry discovered by NAT. The only reasonable extension might be towards the northwest (Selwyn River area), where a soil sample returning 1220 ppb Au (0.036 oz/ton) was collected just outside the claim boundary.

Trenching, Sampling and Assaying

Trenches cut by the D7E bulldozer are 4 m wide and were extended from 5 to 150 m in length but are typically about 30 m long. Pickets were established to guide the bulldozer operator, labelled with the trench number (the linear or vein number followed by a sequential digit, eg. TR19-6) and position (zero at one end and desired length at the other, e.g. 37E). Trenches were oriented perpendicular to the veins, spaced 50 m apart, and cut to whatever depth was allowed by bedrock and permafrost

conditions, typically 1 to 1.5 m. Most trenches were deepened after several days had passed to allow thawing of the newly-exposed permafrost. Groundwater flooding was not usually a problem, but drainage or evaporation was slow in trenches cutting veins 12 and 19, and on parts of veins 407 and 408. A total of 133 trenches were cut, almost all of which are shown on Figure N24. Surveyed coordinates are listed in Appendix I.

Sampling began with locating a reference line (50 m chain) from the zero picket, whose azimuth was recorded. The floor and occasionally the ribs of the trench were then geologically mapped in detail, typically at 1:500 scale, but sometimes at larger scales (1:400 etc.) and concurrently sampled by cutting 10 cm-wide channels in the trench floor and collecting material (rock chips, gouge, mud and soil) over measured intervals. These intervals were usually 1 m wide but where mineralization was obvious, this interval was reduced to 50 cm or less.

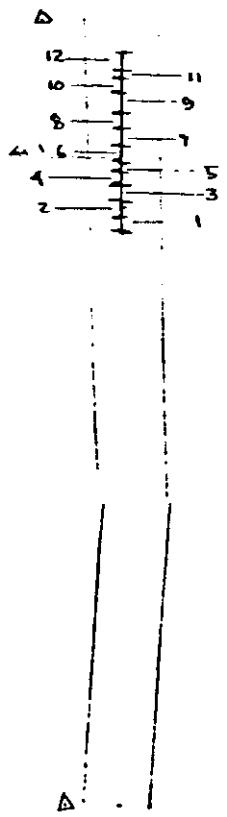
Of the trenches that cut veins, only the vein zones or areas exhibiting discolouration, alteration or dyking were sampled. Adjacent samples from fresh or barren wallrock were usually taken to provide an assay boundary. Individual samples weighed between 1 and 7 kg (typically 4 kg) and were collected in large plastic sample bags, then double-bagged with an identification tag for shipment. Geological and sample information were recorded on separate sheets and examples of these for trench 39-2 are included in the text following this page.

Samples were assayed for gold and silver (oz/ton) and lead (percent) at Chemex Labs in North Vancouver. A total of 702 assays and corresponding sample widths are listed in Appendix II. Subsets of these data reported in Appendix III include (a) all samples reporting both silver greater than 1 oz/ton with Ag:Pb ratio (oz/ton/percent) greater than unity; (b) all samples reporting gold greater than a threshold of 0.02 oz/ton; and (c) all samples that would evaluate to at least \$100 ore, assuming market prices for gold and silver of \$600 and \$10 per ounce, respectively. It should be noted that the list of samples yielding "\$100 ore" is for

12 BENCH 12 00-2
SAMPLING DETAILS

TABLE 1/1

| SAMPLE NO | TAC NO | METRES WIDTH | DESCRIPTION | o/t AU | o/r AC | % PB |
|-----------|--------|--------------|--|-----------|-----------|---------|
| 1 | Y2589 | 1.0 | WALL ROCK - THIN - WEAK, MINOR PHAS | T | 0.22 | 0.01 |
| 2 | 90 | 1.0 | VEIN - BROWN YELLY 2 WEAK TUNERS, WEAK | T | 0.01 | 0.01 |
| 2 | 91 | 1.0 | VEIN | T | 0.01 | 0.01 |
| 4 | 92 | 1.0 | VEIN | 0.005 | 0.26 | 0.10 |
| 5 | 93 | 0.6 | VEIN | T | 0.01 | 0.03 |
| 6 | 94 | 0.9 | VEIN | 0.020 | 0.06 | T |
| 7 | 95 | 1.0 | VEIN | 0.010 | 0.09 | 0.03 |
| 8 | 96 | 0.7 | VEIN | T | 0.01 | 0.01 |
| 9 | 97 | 1.0 | VEIN | 0.008 | 0.03 | 0.02 |
| 10 | 98 | 1.0 | VEIN | 0.010 | 0.05 | 0.06 |
| 11 | K3599 | 0.5 | VEIN | 0.064 | 0.50 | 0.02 |
| 12 | K7501 | 1.0 | WALL ROCK | T | 0.04 | 0.04 |



interpretative purposes only, and is not meant as a commercial evaluation.

As shown in Appendix IV, a total of 58 assays reported at least 1 oz/ton (34.3 ppm) silver, and 28 assays reported at least 0.02 oz/ton gold. Silver assays of 245, 97, 70, 61 oz/ton and less have been returned, mostly from selected, mineralized grab float in trenches on Leo's Ridge and Centre Mt., although the 97 oz/ton value was over 30 cm width. The 245 oz/ton value was from a quartz vein containing 10% galena and anglesite with 5% malachite and azurite. The highest silver assays over one metre were 30, 12, 11 oz/ton and less. These samples were from altered, gougey volcanic containing quartz veining and poddy galena.

The highest gold assays from trench samples were 0.202 oz/ton (over a width of 0.3 m), 0.190 oz/ton (grab), 0.178 oz/ton (grab), and 0.148 oz/ton (over a width of 1.2 m), at veins 7 and 407. Vein 7 (on Seven Hill, Promenade Ridge) has produced "visible" gold in panning concentrates, as already mentioned, but pan samples were not collected at vein 407 (Marathon Ridge).

Lead response was highest from trench samples on Leo's Ridge. A total of 19 samples returned lead assays greater than 10%, with 14 of these on Leo's Ridge. About half were from selected, mineralized grab float, usually bearing significant percentages of visible galena or anglesite. Lead assays as high as 79% were reported (trench 7-1 over 0.2 m width, massive galena), with other samples returning 74%, 69%, 64%, 62% and less elsewhere.

It is noteworthy that three of the strongest gold assays (0.202, 0.190 and 0.102 oz/ton) are associated with strong lead response (28.3, 32.9 and 68.5%, respectively). As expected, the strongest silver response is also associated with high leads, with 15 of the 19 lead assays greater than 10% returning silver assays greater than 10 oz/ton to a maximum of 245 oz/ton Ag with 37% Pb.

Geological Model

The proposed model for the genesis of mineralization at Lilypad starts with extrusion of intermediate felsic to intermediate pyroclastics, volcaniclastics and flows of the Mt. Nansen volcanics (KTmn) onto a weathered basement complex of Mesozoic and older granitic and metamorphic rocks in the late Cretaceous, (65 to 70 My). Centres of extrusion probably developed on zones of weakness (faults) deriving from earlier tectonic events, such as movements along the Big Creek-Hayes Creek Fault. Vents are represented by the subvolcanic porphyries (KTqfp), away from which the tuffs dip. After a period of time, and probably also contemporaneous with the airfall tuff deposition, basaltic volcanism (fissure-type basaltic extrusion) was initiated. Feeders have not been observed on the property, but a plug of microgabbro reported south of Big Creek (see Figure N21B) may represent one. Subsequent uplifting of the volcanic beds followed the injection of syenitic magma into planes between the competent, crystalline basement and its own early extrusions, thus forming a laccolith, flat on the bottom and arched on top. Upward pressure domed and faulted overlying volcanic sediments, with partial re-digestion and metasomatization of the volcanics at the contact (hornfels) and pneumatolytic alteration.

Dyking accompanied the intrusion, with porphyritic to aplitic felsite injections filling fractures created by the doming.

An alternative model of volcanics laid down on a previously-emplaced and subsequently-weathered pluton suffers from the lack of observed sharp contacts, and from the presence of the thermal metamorphic effects in the volcanics near the contact.

Mineralized fractures have been observed in the syenite as well as the volcanics. Cooling fractures certainly must have developed in the syenite but a second intrusion, displaced slightly to the southwest, would have been necessary to drive mineralizing hydrothermal fluids into existing dilations. The heat and

tectonics associated with a second (buried) pluton also imply further regional stresses and fracturing, and probably account for the observed regional propylitization of the volcanics and saussuritization of the syenite. Mineralization appears to have been emplaced in a single pulse, as there is little evidence of compound veins. Finally, weathering has partially exposed the laccolith, and has leached at least some of the mineralization from veins, leaving boxworks after pyrite and galena, copper and manganese staining and other secondary minerals (anglesite, jarosite, limonite, scorodite). A series of cartoons illustrating the above model is shown on the next page.

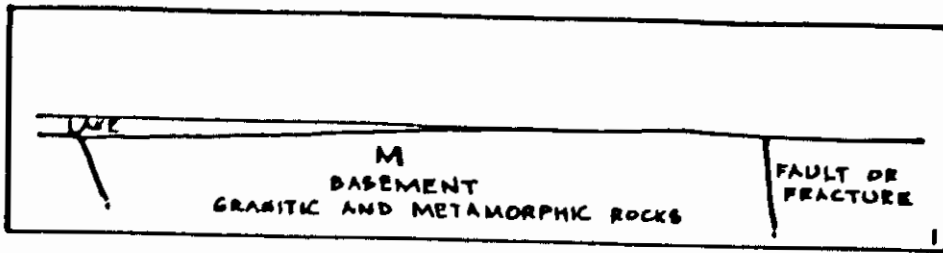
Trenching has shown that weathering has oxidized mineralization at least near the surface, but the actual depth of surface weathering and leaching is unknown. In other parts of the unglaciated Dawson Range, such as over porphyry systems at Casino and Williams Creek, leaching has reached depths of 200 m and more, and the same may hold true at Lilypad.

General Observations

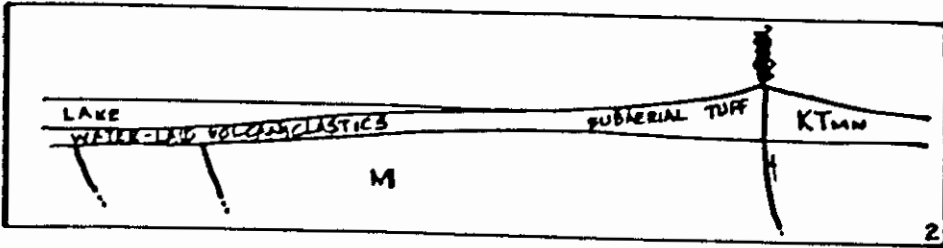
Several observations can be made concerning the mode of occurrence of mineralization at Lilypad.

Most veins, even those with abundant surface minerals, are strongly leached and gougey. Where mineralization was seen, it was often not encountered until the second or third deepening of the trench, although secondary minerals such as malachite are evident at surface and coating fractures in the upper vein material.

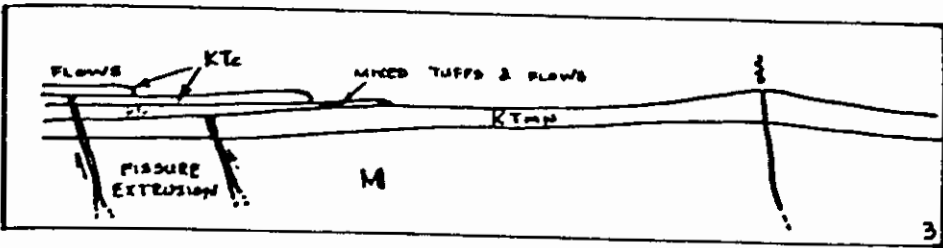
The depth of surface weathering may be a function of geomorphology, since in a few locations it was noticed that less oxidation and leaching were encountered in north-facing slopes than on southern ones (eg. vein 200). Melting of permafrost with consequent solifluction is more significant on sunny, south-facing slopes, and expressions of this action are common in Yukon. North-facing, frozen slopes are typically better-exposed, craggy and precipitous whereas south-facing hillsides have



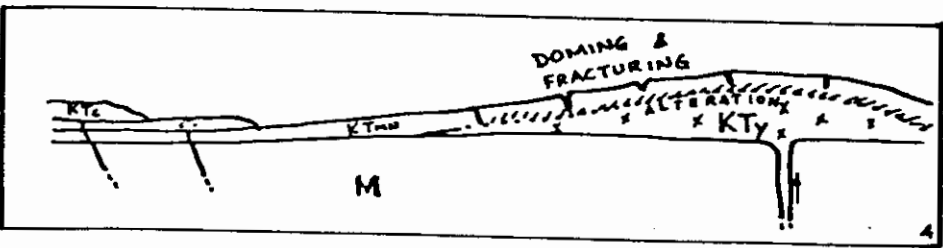
Existing basement before late Cretaceous events with regional fractures



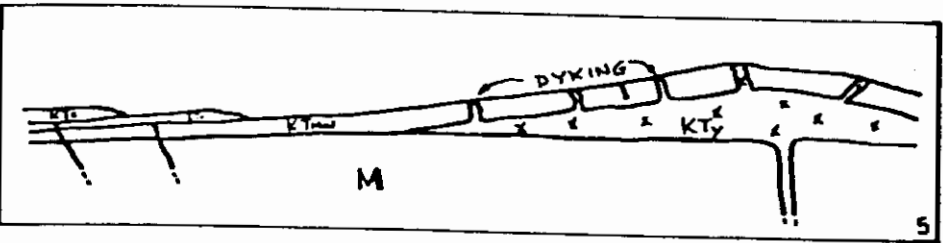
Extrusion of felsic to intermediate subaqueous and subaerial Mt. Nansen airfall tuffs



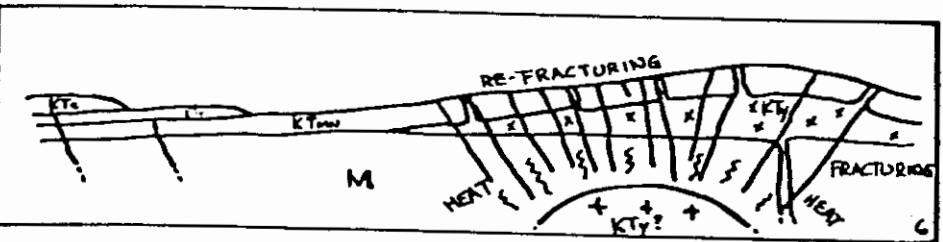
Fissure extrusion of basaltic flows, partly contemporaneous with tuff deposition



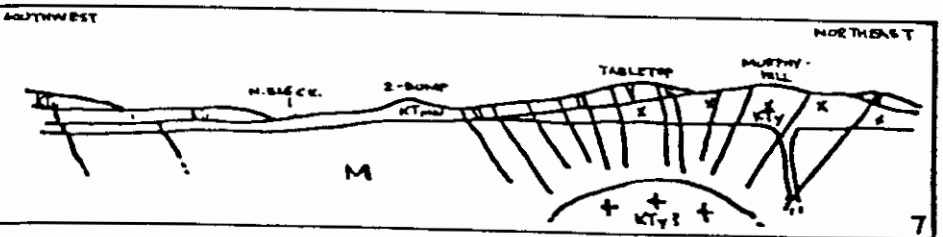
Laccolithic intrusion of syenite, doming and fracturing of overlying sediments with alteration and metasomatism at contact



Epi- or syntectonic felsite dyking into fractures



Intrusion of new pluton, re-fracturing both volcanics and syenite and movement of hydrothermal solutions with precious metals into fractures



Cooling of system and erosion to present

MODEL OF VEIN GENESIS AT LILYPAD

a gentler slope, poor rock exposure, more vegetation and probably deeper weathering.

Trenching has shown that the actual widths of veins are much narrower than their surface expressions imply. Veins only one metre wide can generate "kill" zones (or other features, as described previously) that are several metres wide.

Mineralization, where present, appears to be confined to the veins themselves, never in adjacent fractured wall rocks. This is also reflected in the sample assays.

There is little evidence of multiple pulses of mineralization, or of movement in the veins after emplacement (ie. no steel galena was seen, which would have resulted from post-emplacement shearing). Where seen, quartz veins are mineralogically simple, with none of the "banding" that characterized re-injections of later solutions as seen at Keno Hill and other camps. The observed mineralized differences in different areas (lead-silver on Leo's Ridge, silver at Centre Mt. and gold at Seven Hill) might best be explained by the "vertical stacking" model as proposed by L.J. Buchanan for Mexican silver veins. There appears to be some correlation between the type of mineralization observed and the actual topographic (and stratigraphic) elevation.

Many of the veins are associated with felsite dykes, which has caused some confusion regarding identification. In many cases it appears that the veins have developed along the dykes and that the vein fluids have altered the original dyke matrix to unrecognizable clay-like material.

In 1980, veins were only recognized in volcanics, but exploration in 1981 has shown them to be equally abundant in the syenite, and surface sampling has returned similarly anomalous geochemistry. The best example is Murphy Hill, where the Reid Vein has returned strong anomalies in gold and silver over an 800m length and shows all of the features common to veins found in the volcanics. It is interesting that the "pathfinder flower" *Draba densifolia* does not seem to be restricted to linear zones as in volcanic areas, but rather extends over large areas in the syenite. The significance of this is unknown.

Discussion

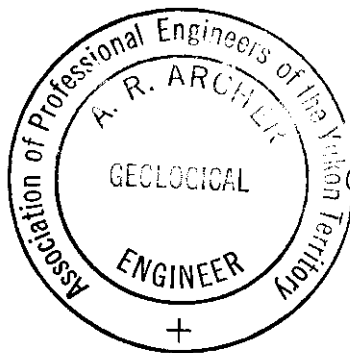
Regardless of the ultimate economic viability of the Lilypad property, it has been recognized as an important new type of precious-metal deposit in Yukon. NAT was first attracted to the area because of a cluster of lead anomalies derived from a regional silt-sampling program covering a large part of the Dawson Range, and no other clusters of the same magnitude were outlined. Several factors including proximity to a major, regional lineament with associated tensional fracturing, the presence of a favourable geological package (Mt. Nansen group), regional propylitic alteration and the complex fracturing and fluid movement have combined to produce numerous vein occurrences over an area at least 11 km by 6 km in size.

Silver and gold grades in the trench samples are disappointing but do increase with trench depth in some cases. Silver-to-lead ratios from surface samples are generally higher than samples taken in the trenches, however. The better surface values may represent accumulation due to differential weathering. If the grades returned from the trench sampling are representative of the veins, then nowhere on Lilypad are there mineable widths. (Based on \$250 ore, a reasonable figure for Yukon, this would require 0.5 oz/ton gold or 25 oz/ton silver at today's prices, in sufficiently large quantity to be economic.) In other vein camps in Yukon such as Casino or Keno Hill, lead and silver are preserved as sulfates (anglesite, plumbojarosite, argentojarosite) where weathered and surface assays do not significantly differ from fresh mineralization at depth, and both the actual silver grades and silver-to-lead ratios remain relatively uniform. Nevertheless, the possibility of surface precious-metal leaching cannot be safely ignored at Lilypad, and a diamond drilling program to test this possibility is necessary. At least three different types of vein-setting should be examined: the gold-bearing quartz-galena veining at Seven Hill, the silver-copper quartz veins at Centre Mt., and the galena-carbonate veins on Leo's Ridge. Holes should be designed to intersect

mineralized veins about 50 m below the surface, below the anticipated depth of surface weathering. In particular, the most promising veins on the property are, in order: 38, 7, 12, 37, 407, 6 and 200. Not trenched in 1981 but possibly good targets for 1982 drilling are the Newt showing east of Hayes Creek, where the degree of faulting and evidence of strong mineralization has good potential, and the previously-mentioned Reid Vein (Linear 140) in the syenite on Murphy Hill. West of Big Creek, the strong gold anomalies in linears on Oiyé's Boot are also good drill targets, although the logistics of moving a drill there may require postponing development pending favourable results at the central sites. A budget proposal for 4000 feet of BQ diamond drilling has already been submitted at the management meeting held in Vancouver on 30 October, 1981. This program would commence about 30 June, 1982 and terminate at approximately 1 September, 1982. If drilling shows no significant surface leaching and returns the same low grades deeper in the veins that are found in the trenching, then despite the potential implied by the large area of unmineralized veins, no further work will be recommendable for the Lilypad property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,



A handwritten signature in black ink, appearing to read "A.R. Archer".

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

/jm

APPENDIX I

MONUMENTS

| | | | | | |
|--------|-------------|----------|----------|---------|---------|
| NAT-1 | Purple Peak | 53910.49 | 50283.71 | 1750.13 | 5741.88 |
| NAT-2 | Murrell Mt | 53227.84 | 55943.83 | 1791.72 | 5878.33 |
| NAT-3 | Centre Mt | 50000.00 | 50000.00 | 1733.77 | 5688.21 |
| NAT-5 | E Peter Rid | 52596.48 | 50784.96 | 1570.00 | 5150.90 |
| NAT-6 | W Peter Rid | 52713.60 | 49983.79 | 1702.27 | 5584.86 |
| NAT-7 | S Griz Rid | 46829.82 | 50064.31 | 1441.26 | 4728.53 |
| NAT-8 | Grizzly Rid | 48469.72 | 49621.70 | 1521.54 | 4991.91 |
| NAT-9 | 2-Bump Hill | 49377.94 | 47465.85 | 1518.88 | 4983.19 |
| NAT-10 | Simba Pup | 49263.87 | 50718.60 | 1497.55 | 4913.21 |
| NAT-11 | Wyllie Pt | 48668.29 | 51400.20 | 1913.40 | 6277.54 |
| NAT-12 | Discovery | 50727.88 | 51438.89 | 1719.54 | 5641.52 |
| NAT-13 | Seven Hill | 49600.59 | 51758.27 | 1643.70 | 5392.70 |
| NAT-14 | Leo's Ridge | 49309.08 | 49330.36 | 1588.67 | 5212.16 |
| NAT-15 | N Big Ck | 50850.82 | 46777.06 | 1650.35 | 5414.52 |
| NAT-16 | Tabletop | 51317.99 | 48447.70 | 1861.66 | 6107.79 |
| NAT-17 | Staging | 51266.91 | 52055.33 | 1630.95 | 5350.87 |
| NAT-18 | Eric's Sdl | 53134.99 | 43265.23 | 1888.65 | 6196.34 |
| NAT-19 | Murphy Hill | 52549.92 | 48194.70 | 1898.49 | 6228.62 |
| NAT-20 | Robrtsn Rid | 52871.03 | 46094.55 | 1746.69 | 5730.59 |
| NAT-21 | Goldilocks | 51031.90 | 49181.87 | 1716.84 | 5632.66 |
| NAT-22 | Big Ck | 50676.72 | 46008.84 | 1304.06 | 4278.40 |
| NAT-23 | North Newt | 53529.72 | 53798.80 | 1545.45 | 5070.36 |
| NAT-24 | Hayes Ck | 51967.28 | 52943.33 | 1139.21 | 3737.55 |
| NAT-25 | Oiye's Boot | 50206.00 | 44965.04 | 1712.50 | 5618.42 |
| NAT-26 | Newt | 51538.40 | 54226.85 | 1531.62 | 5024.99 |
| NAT-27 | S Lilypad | 46926.62 | 52372.42 | 1462.88 | 4799.46 |
| NAT-28 | Fourteen | 49098.08 | 52665.77 | 1597.22 | 5240.21 |
| NAT-29 | Parson Pass | 48843.77 | 53697.60 | 1581.48 | 5188.57 |
| NAT-30 | Zit Peak | 48429.95 | 54687.95 | 1739.60 | 5707.33 |
| NAT-31 | Peak 4370 | 45364.81 | 53572.60 | 1326.80 | 4353.00 |

PICKETS

| | | | | | |
|------|--------------------|----------|----------|---------|---------|
| D-1 | Discovery Ridge | 50043.47 | 51011.86 | 1660.13 | 5446.61 |
| D-2 | | 50076.24 | 51047.85 | 1660.14 | 5446.64 |
| D-3 | | 50109.92 | 51082.39 | 1663.59 | 5457.96 |
| D-4 | | 50143.45 | 51116.64 | 1672.88 | 5488.44 |
| D-5 | | 50176.71 | 51138.64 | 1683.26 | 5522.49 |
| D-6 | | 50198.53 | 51178.77 | 1698.58 | 5572.75 |
| D-7 | | 50231.63 | 51211.36 | 1711.70 | 5615.80 |
| D-8 | | 50279.82 | 51217.63 | 1712.43 | 5618.19 |
| D-9 | | 50326.21 | 51232.85 | 1713.76 | 5622.56 |
| D-10 | | 50358.47 | 51247.18 | 1713.47 | 5621.61 |
| D-11 | | 50389.00 | 51284.65 | 1712.46 | 5618.29 |
| D-12 | | 50435.83 | 51288.63 | 1716.21 | 5630.59 |
| D-13 | | 50472.87 | 51319.32 | 1708.42 | 5605.04 |
| D-14 | | 50511.66 | 51347.17 | 1702.56 | 5585.81 |
| D-15 | | 50553.81 | 51367.38 | 1702.28 | 5584.89 |
| D-16 | | 50597.73 | 51387.74 | 1703.43 | 5588.67 |
| D-17 | | 50641.72 | 51407.78 | 1708.34 | 5604.77 |
| D-18 | | 50688.99 | 51412.02 | 1717.21 | 5633.88 |
| D-19 | | 50745.43 | 51438.68 | 1717.19 | 5633.81 |
| D-20 | | 50757.71 | 51479.13 | 1700.97 | 5580.59 |
| D-21 | | 50763.09 | 51525.92 | 1686.69 | 5533.74 |
| D-22 | | 50765.10 | 51573.47 | 1676.58 | 5500.57 |
| D-23 | | 50785.92 | 51616.01 | 1666.40 | 5467.18 |
| D-24 | | 50786.70 | 51664.25 | 1662.49 | 5454.35 |
| D-25 | | 50801.55 | 51709.24 | 1651.01 | 5416.68 |
| D-26 | | 50815.25 | 51755.24 | 1643.84 | 5393.16 |
| D-27 | | 50847.79 | 51791.04 | 1638.97 | 5377.18 |
| D-28 | | 50885.18 | 51821.95 | 1634.71 | 5363.21 |
| D-29 | | 50921.75 | 51854.30 | 1635.12 | 5364.55 |
| D-30 | | 50949.52 | 51886.67 | 1634.19 | 5361.50 |
| D-31 | | 50992.08 | 51910.26 | 1629.57 | 5346.34 |
| D-32 | | 51035.18 | 51933.14 | 1627.50 | 5339.55 |
| D-33 | | 51079.33 | 51953.56 | 1627.65 | 5340.04 |
| D-34 | | 51109.35 | 51989.73 | 1625.44 | 5332.79 |
| D-35 | | 51147.34 | 52020.15 | 1627.47 | 5339.45 |
| D-36 | | 51191.71 | 52040.10 | 1626.89 | 5337.55 |
| D-37 | | 51236.98 | 52047.15 | 1629.28 | 5345.39 |
| D-38 | | 51301.38 | 52086.86 | 1622.67 | 5323.71 |
| D-39 | | 51349.04 | 52084.96 | 1616.53 | 5303.56 |
| D-40 | | 51408.40 | 52090.21 | 1609.79 | 5281.45 |
| D-41 | | 51434.13 | 52112.75 | 1601.52 | 5254.32 |
| D-42 | | 51483.84 | 52142.00 | 1585.20 | 5200.77 |
| D-43 | | 51532.07 | 52126.92 | 1577.11 | 5174.23 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|------------|----------|----------|----------|----------|
| G-1 | Goldilocks | 51011.49 | 49222.50 | 1720.40 | 5644.34 |
| G-2 | | 51003.10 | 49280.62 | 1709.09 | 5607.24 |
| G-3 | | 51006.66 | 49338.47 | 1699.67 | 5576.33 |
| G-4 | | 51023.75 | 49396.26 | 1698.00 | 5570.85 |
| G-5 | | 51060.31 | 49443.27 | 1693.86 | 5557.27 |
| G-6 | | 51085.51 | 49496.29 | 1681.85 | 5517.86 |
| G-7 | | 51118.70 | 49546.12 | 1679.03 | 5508.61 |
| G-8 | | 51139.84 | 49601.67 | 1676.26 | 5499.53 |
| G-9 | | 51169.06 | 49653.28 | 1668.70 | 5474.72 |
| G-10 | | 51178.77 | 49712.36 | 1664.45 | 5460.78 |
| G-11 | | 51178.59 | 49744.75 | 1660.76 | 5448.67 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|---------|----------|----------|----------|----------|
| L-1 | Leo's | 49970.15 | 49958.99 | 1716.60 | 5631.87 |
| L-2 | Ridge | 49935.89 | 49909.42 | 1702.23 | 5584.73 |
| L-3 | | 49929.18 | 49861.27 | 1691.21 | 5548.57 |
| L-4 | | 49908.80 | 49816.79 | 1682.87 | 5521.21 |
| L-5 | | 49876.49 | 49781.15 | 1670.20 | 5479.64 |
| L-6 | | 49863.56 | 49734.30 | 1660.51 | 5447.85 |
| L-7 | | 49852.15 | 49688.37 | 1647.14 | 5403.99 |
| L-8 | | 49838.24 | 49642.04 | 1635.64 | 5366.26 |
| L-9 | | 49806.81 | 49603.71 | 1627.84 | 5340.67 |
| L-10 | | 49764.14 | 49574.63 | 1621.52 | 5319.93 |
| L-11 | | 49718.41 | 49555.06 | 1614.93 | 5298.31 |
| L-12 | | 49675.38 | 49545.15 | 1607.49 | 5273.90 |
| L-13 | | 49634.07 | 49519.05 | 1596.32 | 5237.26 |
| L-14 | | 49596.01 | 49488.55 | 1585.78 | 5202.68 |
| L-15 | | 49554.21 | 49462.19 | 1577.26 | 5174.72 |
| L-16 | | 49505.01 | 49456.31 | 1571.28 | 5155.10 |
| L-17 | | 49455.00 | 49449.92 | 1565.87 | 5137.35 |
| L-18 | | 49412.59 | 49422.89 | 1564.57 | 5133.09 |
| L-19 | | 49375.90 | 49388.96 | 1567.73 | 5143.46 |
| L-20 | | 49334.35 | 49361.90 | 1573.85 | 5163.53 |
| L-21 | | 49268.89 | 49308.57 | 1584.20 | 5197.49 |
| L-22 | | 49223.35 | 49287.59 | 1582.22 | 5191.00 |
| L-23 | | 49188.33 | 49261.77 | 1578.52 | 5178.86 |
| L-24 | | 49143.44 | 49248.38 | 1568.40 | 5145.65 |
| L-25 | | 49108.47 | 49214.98 | 1558.44 | 5112.98 |
| L-26 | | 49079.71 | 49175.08 | 1555.12 | 5102.09 |
| L-27 | | 49044.32 | 49141.02 | 1557.17 | 5108.81 |
| L-28 | | 49028.29 | 49094.27 | 1559.20 | 5115.47 |
| L-29 | | 49000.10 | 49059.79 | 1555.99 | 5104.94 |
| L-30 | | 48955.88 | 49053.15 | 1553.30 | 5096.11 |
| L-31 | | 48924.15 | 49048.42 | 1541.10 | 5056.09 |
| L-32 | | 48885.40 | 49022.52 | 1526.95 | 5009.66 |
| L-33 | | 48846.51 | 48996.45 | 1513.27 | 4964.78 |
| L-34 | | 48810.46 | 48963.66 | 1506.57 | 4942.80 |
| L-35 | | 48775.63 | 48929.15 | 1500.21 | 4921.93 |
| L-36 | | 48735.83 | 48901.16 | 1495.53 | 4906.58 |
| L-37 | | 48691.18 | 48880.48 | 1495.44 | 4906.28 |
| L-38 | | 48656.97 | 48845.58 | 1498.52 | 4916.39 |
| L-39 | | 48620.31 | 48814.81 | 1493.92 | 4901.30 |
| L-40 | | 48590.98 | 48775.79 | 1488.38 | 4883.12 |
| L-41 | | 48549.34 | 48749.09 | 1489.61 | 4887.16 |
| L-42 | | 48517.39 | 48711.78 | 1494.58 | 4903.46 |
| L-43 | | 48484.84 | 48675.10 | 1493.18 | 4898.87 |
| L-44 | | 48480.48 | 48636.94 | 1498.42 | 4916.06 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|-------------------|----------|----------|----------|----------|
| M-1 | Marathon Ridge | 50016.84 | 49958.63 | 1730.69 | 5678.10 |
| M-2 | | 50013.93 | 49909.27 | 1722.26 | 5650.44 |
| M-3 | | 50012.15 | 49859.70 | 1714.66 | 5625.51 |
| M-4 | | 50008.97 | 49819.68 | 1708.37 | 5604.87 |
| M-5 | | 50022.08 | 49774.89 | 1690.23 | 5545.36 |
| M-6 | | 50027.34 | 49727.94 | 1673.21 | 5489.52 |
| M-7 | | 50058.27 | 49694.09 | 1653.33 | 5424.30 |
| M-8 | | 50084.14 | 49655.16 | 1635.40 | 5365.47 |
| M-9 | | 50114.23 | 49616.16 | 1627.28 | 5338.83 |
| M-10 | | 50152.67 | 49585.09 | 1621.09 | 5318.52 |
| M-11 | | 50194.99 | 49558.75 | 1622.47 | 5323.05 |
| M-12 | | 50234.62 | 49529.03 | 1627.53 | 5339.65 |
| M-13 | | 50259.86 | 49485.97 | 1633.31 | 5358.61 |
| M-14 | | 50302.63 | 49461.48 | 1644.27 | 5394.57 |
| M-15 | | 50324.27 | 49438.50 | 1649.93 | 5413.14 |
| M-16 | | 50347.97 | 49394.43 | 1651.72 | 5419.01 |
| M-17 | | 50360.77 | 49346.13 | 1648.80 | 5409.43 |
| M-18 | | 50386.93 | 49303.40 | 1648.78 | 5409.37 |
| M-19 | | 50436.07 | 49294.93 | 1651.59 | 5418.59 |
| M-20 | | 50471.99 | 49289.99 | 1653.68 | 5425.44 |
| M-21 | | 50520.13 | 49277.25 | 1650.19 | 5413.99 |
| M-22 | | 50568.32 | 49264.21 | 1651.86 | 5419.47 |
| M-23 | | 50616.82 | 49260.56 | 1663.20 | 5456.68 |
| M-24 | | 50641.78 | 49254.26 | 1664.77 | 5461.83 |
| M-25 | | 50688.04 | 49235.35 | 1664.12 | 5459.70 |
| M-26 | | 50737.40 | 49228.62 | 1659.75 | 5445.36 |
| M-27 | | 50786.82 | 49229.21 | 1667.03 | 5469.24 |
| M-28 | | 50835.14 | 49235.20 | 1678.24 | 5506.02 |
| M-29 | | 50881.78 | 49243.89 | 1694.42 | 5559.11 |
| M-30 | | 50928.46 | 49240.43 | 1711.70 | 5615.80 |
| M-31 | | 50972.99 | 49219.27 | 1719.47 | 5641.29 |
| M-32 | | 50992.39 | 49219.63 | 1727.80 | 5668.62 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|-----------|----------|----------|----------|----------|
| P-1 | Promenade | 50000.65 | 50049.49 | 1725.43 | 5660.84 |
| P-2 | | 49970.73 | 50069.40 | 1719.27 | 5640.63 |
| P-3 | | 49950.46 | 50112.03 | 1705.31 | 5594.83 |
| P-4 | | 49948.11 | 50151.72 | 1694.73 | 5560.12 |
| P-5 | | 49955.57 | 50197.39 | 1680.93 | 5514.85 |
| P-6 | | 49958.21 | 50245.86 | 1670.12 | 5479.38 |
| P-7 | | 49953.08 | 50295.34 | 1662.60 | 5454.71 |
| P-8 | | 49957.45 | 50344.96 | 1660.84 | 5448.93 |
| P-9 | | 49975.02 | 50392.51 | 1655.59 | 5431.71 |
| P-10 | | 49972.93 | 50441.25 | 1655.66 | 5431.94 |
| P-11 | | 49959.23 | 50489.73 | 1654.59 | 5428.43 |
| P-12 | | 49952.00 | 50539.45 | 1651.63 | 5418.72 |
| P-13 | | 49942.47 | 50587.89 | 1643.13 | 5390.83 |
| P-14 | | 49937.93 | 50637.79 | 1644.33 | 5394.77 |
| P-15 | | 49948.42 | 50685.14 | 1636.33 | 5368.52 |
| P-16 | | 49951.88 | 50734.44 | 1628.70 | 5343.49 |
| P-17 | | 49944.44 | 50783.75 | 1625.92 | 5334.37 |
| P-18 | | 49935.91 | 50833.13 | 1625.01 | 5331.38 |
| P-19 | | 49933.31 | 50882.95 | 1629.00 | 5344.47 |
| P-20 | | 49928.60 | 50930.75 | 1635.40 | 5365.47 |
| P-21 | | 49935.70 | 50965.94 | 1642.65 | 5389.26 |
| P-22 | | 49937.95 | 50996.37 | 1639.83 | 5380.00 |
| P-23 | | 49941.19 | 51036.21 | 1634.37 | 5362.09 |
| P-24 | | 49970.88 | 51076.35 | 1633.68 | 5359.83 |
| P-25 | | 49983.32 | 51124.62 | 1627.75 | 5340.37 |
| P-26 | | 49978.19 | 51174.56 | 1624.91 | 5331.05 |
| P-27 | | 49971.84 | 51224.21 | 1620.83 | 5317.67 |
| P-28 | | 49936.01 | 51257.81 | 1609.01 | 5278.89 |
| P-29 | | 49919.82 | 51302.45 | 1605.08 | 5266.00 |
| P-30 | | 49915.02 | 51351.99 | 1602.91 | 5258.88 |
| P-31 | | 49914.21 | 51402.35 | 1603.18 | 5259.76 |
| P-32 | | 49893.67 | 51447.73 | 1598.43 | 5244.18 |
| P-33 | | 49872.62 | 51492.92 | 1593.57 | 5228.23 |
| P-34 | | 49848.22 | 51534.60 | 1592.47 | 5224.62 |
| P-35 | | 49829.23 | 51580.78 | 1598.74 | 5245.20 |
| P-36 | | 49818.68 | 51618.92 | 1609.83 | 5281.58 |
| P-37 | | 49792.58 | 51657.81 | 1627.53 | 5339.65 |
| P-38 | | 49765.85 | 51674.43 | 1633.91 | 5360.58 |
| P-39 | | 49723.74 | 51701.80 | 1635.99 | 5367.41 |
| P-40 | | 49678.41 | 51723.60 | 1639.57 | 5379.15 |
| P-41 | | 49639.04 | 51747.67 | 1643.62 | 5392.44 |
| P-42 | | 49570.85 | 51785.94 | 1630.59 | 5349.69 |
| P-43 | | 49549.10 | 51827.35 | 1616.04 | 5301.95 |
| P-44 | | 49515.42 | 51861.85 | 1601.96 | 5255.76 |
| P-45 | | 49488.25 | 51902.79 | 1591.14 | 5220.26 |
| P-46 | | 49474.74 | 51951.03 | 1592.00 | 5223.08 |
| P-47 | | 49453.68 | 51994.55 | 1599.87 | 5248.90 |
| P-48 | | 49410.02 | 52020.27 | 1608.03 | 5275.67 |
| P-49 | | 49400.47 | 52039.08 | 1611.64 | 5287.52 |
| P-50 | | 49380.11 | 52062.19 | 1606.53 | 5270.75 |
| P-51 | | 49359.12 | 52088.27 | 1598.65 | 5244.90 |
| P-52 | | 49335.93 | 52132.05 | 1592.66 | 5225.25 |
| P-53 | | 49309.12 | 52172.07 | 1602.12 | 5256.28 |
| P-54 | | 49269.46 | 52201.53 | 1616.26 | 5302.68 |
| P-55 | | 49262.19 | 52229.09 | 1623.97 | 5327.97 |
| P-56 | | 49240.80 | 52254.71 | 1615.92 | 5301.56 |
| P-57 | | 49226.66 | 52302.06 | 1599.54 | 5247.82 |
| P-58 | | 49215.79 | 52352.52 | 1585.96 | 5203.27 |
| P-59 | | 49194.06 | 52396.56 | 1585.03 | 5200.21 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|---------|----------|----------|----------|----------|
| P-60 | | 49178.96 | 52440.52 | 1578.29 | 5178.10 |
| P-61 | | 49160.57 | 52494.97 | 1572.96 | 5160.61 |
| P-62 | | 49143.61 | 52540.15 | 1578.28 | 5178.07 |
| P-63 | | 49120.20 | 52574.83 | 1591.08 | 5220.06 |
| P-64 | | 49098.16 | 52616.95 | 1594.41 | 5230.99 |
| P-65 | | 49073.48 | 52703.47 | 1594.68 | 5231.87 |
| P-66 | | 49051.73 | 52731.22 | 1587.66 | 5208.84 |
| P-67 | | 49024.12 | 52760.94 | 1574.20 | 5164.68 |
| P-68 | | 49001.15 | 52790.98 | 1557.60 | 5110.22 |
| P-69 | | 48980.26 | 52820.94 | 1542.64 | 5061.14 |
| P-70 | | 48960.57 | 52857.62 | 1527.67 | 5012.03 |
| P-71 | | 48945.13 | 52899.63 | 1518.96 | 4983.45 |
| P-72 | | 48919.20 | 52939.71 | 1516.25 | 4974.56 |
| P-73 | | 48902.69 | 52987.79 | 1515.62 | 4972.49 |
| P-74 | | 48874.31 | 53026.17 | 1513.43 | 4965.31 |
| P-75 | | 48846.15 | 53065.31 | 1501.17 | 4925.08 |
| P-76 | | 48819.53 | 53098.67 | 1487.81 | 4881.25 |
| P-77 | | 48794.31 | 53133.67 | 1473.64 | 4834.76 |
| P-78 | | 48763.06 | 53170.63 | 1463.94 | 4802.94 |
| P-79 | | 48734.37 | 53207.35 | 1464.15 | 4803.63 |
| P-80 | | 48709.72 | 53235.89 | 1473.34 | 4833.78 |
| P-81 | | 48688.47 | 53279.83 | 1488.61 | 4883.88 |
| P-82 | | 48666.35 | 53307.78 | 1498.59 | 4916.62 |
| P-83 | | 48653.71 | 53345.32 | 1506.42 | 4942.31 |
| P-84 | | 48653.84 | 53388.55 | 1517.66 | 4979.19 |
| P-85 | | 48671.69 | 53431.84 | 1515.83 | 4973.18 |
| P-86 | | 48695.62 | 53473.47 | 1517.06 | 4977.22 |
| P-87 | | 48712.00 | 53510.98 | 1524.70 | 5002.28 |
| P-88 | | 48745.70 | 53558.64 | 1538.14 | 5046.38 |
| P-89 | | 48778.63 | 53605.05 | 1556.96 | 5108.12 |
| P-90 | | 48809.41 | 53654.45 | 1571.54 | 5155.96 |
| P-91 | | 48822.49 | 53673.18 | 1577.63 | 5175.94 |
| P-92 | | 48834.64 | 53712.71 | 1580.02 | 5183.78 |
| P-93 | | 48795.76 | 53756.82 | 1567.36 | 5142.24 |
| P-94 | | 48772.01 | 53811.81 | 1570.81 | 5153.56 |
| P-95 | | 48746.68 | 53866.05 | 1573.76 | 5163.24 |
| P-96 | | 48722.14 | 53904.09 | 1573.68 | 5162.98 |
| P-97 | | 48692.05 | 53955.04 | 1566.13 | 5138.21 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|-----------|----------|----------|----------|----------|
| TF-1 | Terry Fox | 50397.12 | 49244.88 | 1652.84 | 5422.69 |
| TF-2 | Ridge | 50363.05 | 49195.86 | 1648.00 | 5406.81 |
| TF-3 | | 50324.97 | 49150.03 | 1642.73 | 5389.52 |
| TF-4 | | 50299.32 | 49096.19 | 1638.78 | 5376.56 |
| TF-5 | | 50249.71 | 49064.61 | 1630.61 | 5349.76 |
| TF-6 | | 50286.68 | 49111.22 | 1637.91 | 5373.71 |
| TF-7 | | 50322.15 | 49159.45 | 1642.19 | 5387.75 |
| TF-8 | | 50357.85 | 49207.32 | 1646.70 | 5402.54 |
| TF-9 | | 50390.73 | 49256.69 | 1651.06 | 5416.85 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) | App.1-9 |
|----------|---------|----------|----------|----------|----------|---------|
| TRENCHES | | | | | | |
| 3-1 | 0 | 49925.89 | 50892.32 | 1627.85 | 5340.70 | |
| 3-1 | 40W | 49930.55 | 50853.38 | 1625.16 | 5331.87 | |
| 7-1 | 0 | 49618.12 | 51740.39 | 1567.83 | 5143.78 | |
| 7-1 | 34W | 49646.15 | 51720.16 | 1564.70 | 5133.52 | |
| 7-2 | 0 | 49648.37 | 51771.75 | 1565.02 | 5134.56 | |
| 7-2 | 31W | 49675.64 | 51757.41 | 1565.63 | 5136.57 | |
| 7-3 | 0 | 49679.16 | 51807.12 | 1547.80 | 5078.07 | |
| 7-3 | 22W | 49698.78 | 51797.11 | 1549.45 | 5083.48 | |
| 7-4 | 0 | 49692.16 | 51846.68 | 1528.24 | 5013.90 | |
| 7-4 | 27W | 49718.03 | 51838.38 | 1529.44 | 5017.83 | |
| 7-5 | 0 | 49714.41 | 51888.49 | 1509.31 | 4951.79 | |
| 7-5 | 21W | 49732.73 | 51878.04 | 1512.03 | 4960.71 | |
| 8-1 | 0 | 49258.80 | 52135.62 | 1578.75 | 5179.61 | |
| 8-1 | 49W | 49294.16 | 52101.85 | 1584.60 | 5198.80 | |
| 10-1 | 0 | 48615.88 | 54045.19 | 1560.27 | 5118.98 | |
| 10-1 | 32E | 48584.25 | 54050.04 | 1560.19 | 5118.72 | |
| 12-1 | 0 | 50041.63 | 49870.84 | 1711.20 | 5614.16 | |
| 12-1 | 47E | 50063.96 | 49912.04 | 1710.60 | 5612.19 | |
| 12-2 | 0 | 49995.18 | 49888.59 | 1717.93 | 5636.24 | |
| 12-2 | 23W | 49998.43 | 49866.85 | 1715.52 | 5628.33 | |
| 12-3 | 0 | 49949.46 | 49886.64 | 1713.45 | 5621.54 | |
| 12-3 | 24W | 49948.92 | 49863.12 | 1709.29 | 5607.89 | |
| 12-4 | 0 | 49903.22 | 49876.02 | 1687.03 | 5534.86 | |
| 12-4 | 36W | 49905.62 | 49840.06 | 1683.43 | 5523.05 | |
| 16-1 | 0 | 51012.13 | 49336.65 | 1698.22 | 5571.57 | |
| 16-1 | 21E | 51021.73 | 49354.21 | 1694.11 | 5558.09 | |
| 16-1 | 18S | 50997.88 | 49327.13 | 1701.40 | 5582.01 | |
| 16-2 | 0 | 51005.29 | 49338.76 | 1699.90 | 5577.08 | |
| 16-2 | 12E | 51006.79 | 49350.47 | 1698.89 | 5573.77 | |
| 16-3 | 0 | 50981.05 | 49335.52 | 1699.68 | 5576.36 | |
| 16-3 | 31E | 50996.41 | 49362.36 | 1699.69 | 5576.40 | |
| 18-1 | 0 | 50939.40 | 51810.21 | 1627.00 | 5337.91 | |
| 18-1 | 26E | 50925.22 | 51830.65 | 1633.95 | 5360.71 | |
| 18-2 | 0 | 50899.63 | 51782.81 | 1630.40 | 5349.07 | |
| 18-2 | 31E | 50881.39 | 51806.93 | 1634.34 | 5361.99 | |
| 18-3 | 0 | 50872.58 | 51759.71 | 1633.98 | 5360.81 | |
| 18-3 | 38E | 50849.20 | 51789.14 | 1638.70 | 5376.30 | |
| 18-4 | 0 | 50829.53 | 51725.78 | 1644.47 | 5395.23 | |
| 18-4 | 42E | 50801.39 | 51756.55 | 1643.25 | 5391.22 | |
| 18-5 | 0 | 50772.77 | 51708.18 | 1650.86 | 5416.19 | |
| 18-5 | 25E * | 50751 | 51724 | 1638.17 | 5374.56 | |
| 18-6 | 0 | 50717.13 | 51679.25 | 1648.29 | 5407.76 | |
| 18-6 | 36N | 50738.65 | 51707.05 | 1644.90 | 5396.64 | |
| 18-7 | 0 | 50688.32 | 51633.96 | 1651.68 | 5418.88 | |
| 18-7 | 30E | 50677.47 | 51660.84 | 1643.79 | 5393.00 | |
| 19-1 | 0 | 51408.56 | 52165.22 | 1587.14 | 5207.14 | |
| 19-1 | 20N | 51428.64 | 52159.14 | 1586.43 | 5204.81 | |
| 19-2 | 0 | 51371.46 | 52136.20 | 1600.00 | 5249.33 | |
| 19-2 | 20N | 51391.98 | 52136.23 | 1597.44 | 5240.93 | |
| 19-3 | 0 | 51320.05 | 52086.53 | 1619.96 | 5314.81 | |
| 19-3 | 29E | 51318.76 | 52114.58 | 1615.91 | 5301.53 | |
| 19-4 | 0 | 51291.04 | 52090.76 | 1622.79 | 5324.10 | |
| 19-4 | 50N | 51335.88 | 52070.03 | 1618.02 | 5308.45 | |
| 19-5 | 0 | 51247.03 | 52051.33 | 1629.18 | 5345.06 | |
| 19-5 | 25E | 51240.41 | 52074.90 | 1626.04 | 5334.76 | |
| 19-6 | 0 | 51202.52 | 52028.27 | 1628.61 | 5343.19 | |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|-------|---------|----------|----------|----------|----------|
| 19-6 | 35E | 51186.91 | 52058.78 | 1623.18 | 5325.38 |
| 19-7 | 0 | 51150.67 | 52008.85 | 1628.21 | 5341.88 |
| 19-7 | 20E | 51144.55 | 52027.43 | 1625.45 | 5332.83 |
| 19-8 | 0 | 51089.44 | 51924.35 | 1626.74 | 5337.06 |
| 19-8 | 50E | 51068.40 | 51968.72 | 1624.16 | 5328.59 |
| 19-9 | 0 | 51028.93 | 51928.14 | 1627.04 | 5338.04 |
| 19-9 | 45E | 51010.21 | 51968.81 | 1620.11 | 5315.31 |
| 19-10 | 0 | 50984.65 | 51920.18 | 1626.00 | 5334.63 |
| 19-10 | 50E | 50965.97 | 51965.42 | 1618.08 | 5308.65 |
| 19-11 | 0 | 50934.04 | 51873.46 | 1633.91 | 5360.58 |
| 19-11 | 38E | 50919.86 | 51908.11 | 1625.87 | 5334.20 |
| 19-12 | 0 | 50898.29 | 51857.26 | 1631.31 | 5352.05 |
| 19-12 | 45E | 50874.68 | 51893.00 | 1620.83 | 5317.67 |
| 19-13 | 0 | 50830.30 | 51850.50 | 1622.21 | 5322.20 |
| 19-13 | 35E | 50818.73 | 51881.98 | 1612.62 | 5290.73 |
| 22-1 | 0 | 50812.66 | 51461.90 | 1688.34 | 5539.16 |
| 22-1 | 40E * | 50789 | 51493 | 1693 | 5554 |
| 22-2 | 0 | 50769.81 | 51439.02 | 1706.75 | 5599.56 |
| 22-2 | 26E | 50754.92 | 51467.09 | 1704.64 | 5592.64 |
| 22-3 | 0 | 50655.36 | 51365.98 | 1715.56 | 5628.46 |
| 22-3 | 27N | 50680.98 | 51360.20 | 1711.40 | 5614.81 |
| 22-4 | 0 | 50606.94 | 51333.69 | 1707.88 | 5603.27 |
| 22-4 | 19N | 50622.80 | 51325.30 | 1711.88 | 5616.39 |
| 23-1 | 0 | 50470.37 | 49254.27 | 1654.04 | 5426.63 |
| 23-1 | 22E | 50460.77 | 49274.25 | 1654.37 | 5427.71 |
| 23-2 | 0 | 50435.89 | 49232.45 | 1658.52 | 5441.32 |
| 23-2 | 26E | 50422.10 | 49254.40 | 1654.27 | 5427.38 |
| 23-3 | 0 | 50395.80 | 49213.41 | 1652.90 | 5422.88 |
| 23-3 | 27E | 50373.87 | 49228.92 | 1650.05 | 5413.53 |
| 23-4 | 0 | 50316.66 | 49131.83 | 1641.42 | 5385.22 |
| 23-4 | 20E | 50306.97 | 49150.23 | 1639.97 | 5380.46 |
| 23-5 | 0 | 50268.10 | 49100.57 | 1632.72 | 5356.68 |
| 23-5 | 24E | 50256.21 | 49121.20 | 1628.27 | 5342.08 |
| 23-6 | 0 | 50222.05 | 49095.03 | 1619.08 | 5311.93 |
| 23-6 | 22E | 50209.79 | 49112.69 | 1613.67 | 5294.18 |
| 30-1 | 0 | 50081.92 | 50074.25 | 1713.23 | 5620.82 |
| 30-1 | 31W | 50108.16 | 50058.86 | 1710.08 | 5610.48 |
| 30-2 | 0 | 50045.93 | 50042.22 | 1725.57 | 5661.30 |
| 30-2 | 30W | 50067.10 | 50021.87 | 1723.26 | 5653.72 |
| 30-3 | 0 | 50018.70 | 50013.69 | 1731.81 | 5681.78 |
| 30-3 | 37W | 50043.36 | 49986.78 | 1727.83 | 5668.72 |
| 30-4 | 0 | 49972.69 | 49948.92 | 1729.03 | 5672.65 |
| 30-4 | 36W | 49993.13 | 49919.97 | 1724.11 | 5656.51 |
| 32-1 | 0 | 49817.03 | 49589.53 | 1625.29 | 5332.30 |
| 32-1 | 22E | 49813.90 | 49608.62 | 1628.30 | 5342.18 |
| 32-2 | 0 | 49779.88 | 49570.88 | 1622.25 | 5322.33 |
| 32-2 | 14E | 49779.79 | 49585.10 | 1623.66 | 5326.95 |
| 32-3 | 0 | 49732.37 | 49567.54 | 1616.93 | 5304.87 |
| 32-3 | 46E | 49720.16 | 49610.60 | 1612.44 | 5290.14 |
| 32-4 | 0 | 49691.03 | 49548.85 | 1610.84 | 5284.89 |
| 32-4 | 50E | 49685.40 | 49598.32 | 1605.83 | 5268.46 |
| 32-5 | 0 | 49642.81 | 49537.85 | 1598.46 | 5244.28 |
| 32-5 | 37E | 49644.26 | 49576.61 | 1595.62 | 5234.96 |
| 32-5 | 0 | 49598.19 | 49514.60 | 1587.37 | 5207.89 |
| 32-6 | 41E | 49596.09 | 49554.79 | 1581.25 | 5187.81 |
| 32-7 | 0 | 49547.23 | 49500.09 | 1573.16 | 5161.27 |
| 32-7 | 32E | 49535.52 | 49529.35 | 1565.71 | 5136.83 |
| 33-1 | 0 | 50991.88 | 49482.81 | 1665.30 | 5463.57 |
| 33-1 | 43E | 51023.04 | 49511.98 | 1667.20 | 5469.80 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|---------|----------|----------|-----------|-----------|
| 33-2 | 0 | 51049.19 | 49485.88 | 1679.24 | 5509.30 |
| 33-2 | 22E | 51048.18 | 49507.54 | 1674.84 | 5494.87 |
| 33-3 | 0 | 51099.66 | 49495.21 | 1681.82 | 5517.77 |
| 33-3 | 20E | 51097.25 | 49515.27 | 1680.09 | 5512.09 |
| 33-4 | 0 | 51144.97 | 49493.29 | 1677.23 | 5502.71 |
| 33-4 | 29E | 51137.90 | 49523.08 | 1678.76 | 5507.73 |
| 34-1 | 0 | 49092.62 | 49078.06 | 1544.91 | 5068.59 |
| 34-1 | 50W | 49107.56 | 49030.16 | 1533.77 | 5032.04 |
| 34-2 | 0 | 49132.60 | 49050.38 | 1536.70 | 5041.65 |
| 34-2 | 100E | 49101.99 | 49144.14 | 1552.55 | 5093.65 |
| 35-1 | 0 | 50978.62 | 49395.41 | 1686.89 | 5534.40 |
| 35-1 | 18E | 50986.77 | 49410.44 | 1687.81 | 5537.42 |
| 35-2 | 0 | 51033.17 | 49400.20 | 1694.97 | 5560.91 |
| 35-2 | 16E | 51036.03 | 49416.75 | 1695.17 | 5561.57 |
| 35-3 | 0 | 51077.47 | 49416.71 | 1680.81 | 5514.45 |
| 35-3 | 11E | 51077.86 | 49427.29 | 1683.13 | 5522.06 |
| 37-1 | 0 | 49096.41 | 49206.93 | 1555.41 | 5103.04 |
| 37-1 | 26W | 49111.67 | 49186.16 | 1556.68 | 5107.20 |
| 37-1 | 62W | 49142.15 | 49166.68 | 1554.54 | 5100.18 |
| 37-1 | 50E | 49060.14 | 49241.01 | 1550.20 | 5085.94 |
| 37-2 | 0 | 49061.70 | 49130.38 | 1558.05 | 5111.70 |
| 37-2 | 86E | 48992.35 | 49164.14 | 1547.69 | 5077.71 |
| 37-2 | 50E | 49027.60 | 49165.81 | 1552.29 | 5092.80 |
| 37-3 | 0 | 49026.77 | 49092.03 | 1558.66 | 5113.70 |
| 37-3 | 50E | 48988.34 | 49123.03 | 1551.59 | 5090.50 |
| 37-3 | 64E | 48977.01 | 49131.75 | 1549.19 | 5082.63 |
| 37-4 | 0 | 48949.17 | 49079.98 | 1543.97 | 5065.50 |
| 37-4 | 50W | 48972.16 | 49036.70 | 1545.08 | 5069.15 |
| 37-4 | 77W | 48988.21 | 49020.79 | 1543.58 | 5064.22 |
| 37-5 | 0 | 48905.65 | 49027.68 | 1530.79 | 5022.26 |
| 37-5 | 50W | 48932.69 | 48987.57 | 1529.66 | 5018.55 |
| 37-5 | 100W | • 48976 | • 48957 | • 1488.76 | • 4884.37 |
| 37-6 | 0 | • 48844 | • 48963 | • 1478.08 | • 4849.33 |
| 37-6 | 77W | • 48905 | • 48920 | • 1474.26 | • 4836.80 |
| 37-7 | 0 | • 48877 | • 48875 | • 1508.15 | • 4947.98 |
| 37-7 | 50E | * 48847 | * 48910 | * 1465.53 | * 4808.15 |
| 38-1 | 0 | 49296.37 | 49278.95 | 1580.36 | 5184.89 |
| 38-1 | 50E | 49293.99 | 49327.70 | 1586.39 | 5204.68 |
| 38-1 | 77E | 49292.38 | 49354.79 | 1585.44 | 5201.56 |
| 38-2 | 0 | 49238.15 | 49270.72 | 1582.08 | 5190.54 |
| 38-2 | 34E | 49230.08 | 49303.40 | 1581.05 | 5187.16 |
| 38-3 | 0 | 49139.64 | 49247.52 | 1566.79 | 5140.37 |
| 38-3 | 45E | 49125.19 | 49289.92 | 1562.55 | 5126.46 |
| 38-3 | 21W | 49146.32 | 49227.79 | 1564.47 | 5132.76 |
| 38-3 | 48W | 49161.89 | 49206.22 | 1562.39 | 5125.94 |
| 38-4 | 0 | 49188.89 | 49265.83 | 1578.44 | 5178.59 |
| 38-4 | 50E | 49165.65 | 49308.24 | 1568.77 | 5146.87 |
| 39-1 | 0 | 49467.77 | 49345.05 | 1555.73 | 5104.09 |
| 39-1 | 50W | 49459.88 | 49296.04 | 1551.80 | 5091.19 |
| 39-1 | 48E | 49446.10 | 49383.39 | 1566.00 | 5137.78 |
| 39-2 | 0 | 49389.76 | 49365.65 | 1568.87 | 5147.20 |
| 39-2 | 50W | 49408.82 | 49320.33 | 1563.15 | 5128.43 |
| 39-3 | 0 | 49337.82 | 49348.51 | 1588.58 | 5211.86 |
| 39-3 | 50W | 49358.70 | 49305.09 | 1578.23 | 5177.90 |
| 40-1 | 0 | * 48900 | * 48930 | * 1477.61 | * 4847.79 |
| 40-1 | 100W | * 49000 | * 48917 | * 1468.75 | * 4818.72 |
| 40-1 | 150W | * 49040 | * 48840 | * 1457.95 | * 4783.29 |
| 40-1 | 182W | * 49071 | * 48837 | * 1455.20 | * 4774.26 |
| 60-1 | 0 | 51206.79 | 49823.29 | 1643.57 | 5392.27 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|-------|---------|----------|----------|----------|----------|
| 60-1 | 13W | 51209.04 | 49810.87 | 1643.31 | 5391.42 |
| 60-2 | 0 | 51155.35 | 49794.98 | 1639.46 | 5378.79 |
| 60-2 | 14W | 51156.30 | 49782.04 | 1641.20 | 5384.50 |
| 61-1 | 0 | 51178.78 | 49698.63 | 1665.73 | 5464.98 |
| 61-1 | 27E | 51174.88 | 49724.92 | 1662.62 | 5454.77 |
| 61-2 | 0 | 51166.01 | 49686.95 | 1664.26 | 5460.16 |
| 61-2 | 16E | 51161.16 | 49701.92 | 1661.85 | 5452.25 |
| 62-1 | 0 | 51158.42 | 49603.11 | 1673.96 | 5491.98 |
| 62-1 | 16E | 51162.18 | 49618.97 | 1672.12 | 5485.94 |
| 62-2 | 0 | 51125.77 | 49587.49 | 1676.98 | 5501.89 |
| 62-2 | 12E | 51120.09 | 49598.04 | 1676.24 | 5499.46 |
| 62-3 | 0 | 51105.19 | 49573.14 | 1676.55 | 5500.48 |
| 62-3 | 19E | 51101.98 | 49591.97 | 1674.96 | 5495.26 |
| 62-4 | 0 | 51050.44 | 49539.08 | 1668.02 | 5472.49 |
| 62-4 | 33E | 51045.10 | 49570.14 | 1662.45 | 5454.22 |
| 63-1 | 0 | 51017.13 | 49514.17 | 1664.76 | 5461.80 |
| 63-1 | 26E | 50996.57 | 49541.99 | 1652.36 | 5421.11 |
| 63-2 | 0 | 51103.77 | 49551.85 | 1677.88 | 5504.84 |
| 63-2 | 12E | 51102.91 | 49563.47 | 1677.26 | 5502.81 |
| 63-3 | 0 | 51148.37 | 49560.04 | 1677.20 | 5502.61 |
| 63-3 | 18E | 51152.67 | 49577.48 | 1676.28 | 5499.59 |
| 64-1 | 0 | 51143.41 | 49468.00 | 1675.66 | 5497.56 |
| 64-1 | 24E | 51133.49 | 49493.74 | 1680.08 | 5512.06 |
| 64-2 | 0 | 51086.96 | 49456.74 | 1689.28 | 5542.24 |
| 64-2 | 17E | 51086.82 | 49473.77 | 1687.55 | 5536.57 |
| 64-3 | 0 | 51033.41 | 49426.15 | 1694.82 | 5560.42 |
| 64-3 | 19E | 51038.88 | 49444.38 | 1692.04 | 5551.30 |
| 109-1 | 0 | 49470.38 | 51943.47 | 1590.23 | 5217.27 |
| 109-1 | 45W | 49476.56 | 51899.12 | 1586.63 | 5205.46 |
| 200-1 | 0 | 51003.73 | 49242.99 | 1726.93 | 5665.76 |
| 200-1 | 18E | 50990.05 | 49254.35 | 1727.80 | 5668.62 |
| 200-2 | 0 | 50967.91 | 49219.07 | 1717.71 | 5635.52 |
| 200-2 | 16E | 50965.21 | 49234.32 | 1720.11 | 5643.39 |
| 401-1 | 0 | 50694.06 | 51589.53 | 1661.36 | 5450.64 |
| 401-1 | 33E | 50704.06 | 51619.60 | 1658.49 | 5441.22 |
| 401-2 | 0 | 50750.33 | 51592.23 | 1671.93 | 5485.32 |
| 401-2 | 26E | 50731.88 | 51604.53 | 1667.89 | 5472.06 |
| 401-3 | 0 | 50797.95 | 51600.69 | 1664.70 | 5461.60 |
| 401-3 | 33E | 50768.85 | 51614.44 | 1668.78 | 5474.98 |
| 403-1 | 0 | 51141.42 | 52002.09 | 1626.79 | 5337.22 |
| 403-1 | 23W | 51147.07 | 51974.15 | 1624.65 | 5330.20 |
| 403-2 | 0 | 51105.67 | 51981.99 | 1625.92 | 5334.37 |
| 403-2 | 25E | 51110.19 | 52005.87 | 1623.67 | 5326.99 |
| 406-1 | 0 | 50353.15 | 49483.37 | 1635.43 | 5365.57 |
| 406-1 | 31E | 50326.58 | 49499.20 | 1634.57 | 5362.75 |
| 406-2 | 0 | 50283.27 | 49473.02 | 1639.14 | 5377.74 |
| 406-2 | 24E | 50278.14 | 49495.80 | 1635.66 | 5366.32 |
| 406-3 | 0 | 50231.88 | 49496.72 | 1626.81 | 5337.29 |
| 406-3 | 29W | 50228.91 | 49467.51 | 1625.43 | 5332.76 |
| 406-4 | 0 | 50193.26 | 49489.63 | 1618.76 | 5310.88 |
| 406-4 | 31W | 50182.18 | 49460.57 | 1614.71 | 5297.59 |
| 407-1 | 0 | 50407.91 | 49343.65 | 1643.11 | 5390.77 |
| 407-1 | 23E | 50402.57 | 49366.93 | 1640.06 | 5380.76 |
| 407-2 | 0 | 50369.34 | 49311.89 | 1646.95 | 5403.36 |
| 407-2 | 18E | 50358.52 | 49326.32 | 1646.81 | 5402.90 |
| 407-3 | 0 | 50341.13 | 49289.95 | 1644.58 | 5395.59 |
| 407-3 | 25E | 50319.52 | 49302.76 | 1640.96 | 5383.71 |
| 407-4 | 0 | 50299.85 | 49258.80 | 1634.98 | 5364.09 |
| 407-4 | 26E | 50278.87 | 49275.20 | 1632.28 | 5355.23 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|--------|---------|----------|----------|----------|----------|
| 407-5 | 0 | 50256.54 | 49227.30 | 1624.50 | 5329.71 |
| 407-5 | 27E | 50242.79 | 49249.18 | 1620.95 | 5318.06 |
| 407-6 | 0 | 50208.55 | 49193.32 | 1609.44 | 5280.30 |
| 407-6 | 34E | 50195.92 | 49225.31 | 1604.46 | 5263.96 |
| 408-1 | 0 | 50197.64 | 49145.81 | 1606.18 | 5269.60 |
| 408-1 | 15E | 50188.36 | 49158.41 | 1603.47 | 5260.71 |
| 408-2 | 0 | 50243.84 | 49160.02 | 1622.06 | 5321.70 |
| 408-2 | 28E | 50230.41 | 49195.41 | 1616.17 | 5302.38 |
| 408-3 | 0 | 50279.96 | 49190.82 | 1631.33 | 5352.12 |
| 408-3 | 22E | 50265.05 | 49206.49 | 1627.18 | 5338.50 |
| 408-4 | 0 | 50331.29 | 49211.70 | 1641.85 | 5386.63 |
| 408-4 | 21E | 50316.03 | 49225.21 | 1632.49 | 5355.92 |
| 408-5 | 0 | 50369.98 | 49240.63 | 1648.12 | 5407.20 |
| 408-5 | 24E | 50356.74 | 49260.74 | 1646.66 | 5402.41 |
| 408-6 | 0 | 50405.10 | 49267.27 | 1651.57 | 5418.52 |
| 408-6 | 22E | 50392.08 | 49284.47 | 1650.08 | 5413.63 |
| 408-7 | 0 | 50443.91 | 49310.85 | 1647.48 | 5405.10 |
| 408-7 | 41E | 50414.14 | 49320.16 | 1646.75 | 5402.71 |
| 409-1 | 0 | 50194.78 | 49002.22 | 1616.92 | 5304.84 |
| 409-1 | 24E | 50195.14 | 49026.72 | 1616.41 | 5303.17 |
| 409-2 | 0 | 50246.56 | 49042.34 | 1630.24 | 5348.54 |
| 409-2 | 22E | 50229.82 | 49055.42 | 1624.82 | 5330.76 |
| 409-3 | 0 | 50282.05 | 49073.21 | 1635.60 | 5366.13 |
| 409-3 | 22E | 50267.92 | 49089.93 | 1633.75 | 5360.06 |
| 409-4 | 0 | 50320.65 | 49108.56 | 1640.63 | 5382.63 |
| 409-4 | 13E | 50313.85 | 49120.06 | 1640.81 | 5383.22 |
| 409-5 | 0 | 50376.54 | 49127.01 | 1643.07 | 5390.63 |
| 409-5 | 23E | 50364.89 | 49150.04 | 1645.44 | 5398.41 |
| 409-6 | 0 | 50428.62 | 49147.15 | 1647.15 | 5404.02 |
| 409-6 | 23E | 50426.14 | 49169.97 | 1651.98 | 5419.87 |
| 409-7 | 0 | 50472.73 | 49154.31 | 1644.20 | 5394.34 |
| 409-7 | 24E | 50457.56 | 49173.00 | 1649.89 | 5413.01 |
| 409-8 | 0 | 50518.61 | 49173.33 | 1639.44 | 5378.72 |
| 409-8 | 20E | 50510.86 | 49190.57 | 1644.11 | 5394.05 |
| 409-9 | 0 | 50562.54 | 49192.98 | 1638.22 | 5374.72 |
| 409-9 | 25E | 50547.73 | 49211.89 | 1644.17 | 5394.24 |
| 409-10 | 0 | 50620.96 | 49210.36 | 1648.23 | 5407.56 |
| 409-10 | 26E | 50601.29 | 49227.98 | 1650.17 | 5413.93 |

Note: • Represents estimated point.

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------------------|---------|----------|----------|----------|----------|
| REFERENCE POINTS | | | | | |
| L2 | RP | 50132.98 | 51127.68 | 1674.08 | 5492.37 |
| L3 | RP | 49985.69 | 50899.64 | 1636.52 | 5369.14 |
| L4 | RP | 49951.66 | 50312.47 | 1661.05 | 5449.62 |
| L6 | RP | 49881.11 | 51492.96 | 1593.85 | 5229.15 |
| L7 | RP | 49643.45 | 51741.06 | 1568.17 | 5144.90 |
| L8 | RP | 49339.33 | 52139.83 | 1592.11 | 5223.44 |
| L9 | RP | 49246.83 | 52280.04 | 1610.30 | 5283.12 |
| L10 | RP | 48557.80 | 54048.36 | 1565.28 | 5135.42 |
| L12 | RP | 50006.70 | 49879.93 | 1702.13 | 5584.40 |
| L13 | RP | 49144.13 | 52467.04 | 1574.07 | 5164.26 |
| L14 | RP | 49101.54 | 52596.95 | 1592.41 | 5224.43 |
| L15 | RP | 49149.51 | 52425.78 | 1585.82 | 5202.81 |
| L16 | RP | 50986.51 | 49344.39 | 1698.86 | 5573.67 |
| L18 | RP | 50835.20 | 51760.02 | 1640.45 | 5382.04 |
| L19 | RP | 51097.67 | 51983.94 | 1624.89 | 5330.99 |
| L22 | RP | 50756.54 | 51442.09 | 1711.41 | 5614.85 |
| L30 | RP | 50019.30 | 49979.87 | 1731.20 | 5679.77 |
| L33 | RP | 51117.21 | 49505.25 | 1681.20 | 5515.73 |
| L35 | RP | 51022.61 | 49412.08 | 1695.65 | 5563.14 |
| L60 | RP | 51198.51 | 49810.34 | 1644.22 | 5394.41 |
| L61 | RP | 51164.06 | 49697.47 | 1662.99 | 5455.99 |
| L62 | RP | 51122.70 | 49592.89 | 1676.50 | 5500.31 |
| L63 | RP | 51123.05 | 49564.82 | 1678.01 | 5505.27 |
| L64 | RP | 51040.88 | 49441.63 | 1692.86 | 5553.99 |
| L72 | RP | 49950.36 | 50393.73 | 1659.85 | 5445.69 |
| L73 | RP | 49945.37 | 50428.03 | 1658.43 | 5441.03 |
| L74 | RP | 49926.42 | 50443.14 | 1657.96 | 5439.49 |
| L75 | RP | 49903.32 | 50522.65 | 1653.60 | 5425.18 |
| L76 | RP | 49892.30 | 50537.42 | 1649.22 | 5410.81 |
| L99 | RP | 49921.70 | 50477.23 | 1658.95 | 5442.73 |
| L100 | RP | 49960.87 | 50173.12 | 1687.31 | 5535.78 |
| L101 | RP | 49913.83 | 50596.99 | 1641.95 | 5386.96 |
| L102 | RP | 49918.94 | 50671.51 | 1639.49 | 5378.89 |
| L104 | RP | 50149.50 | 51103.54 | 1670.68 | 5481.22 |
| L105 | RP | 49815.68 | 51568.65 | 1596.41 | 5237.55 |
| L106 | RP | 49792.61 | 51613.37 | 1611.94 | 5288.50 |
| L107 | RP | 49685.18 | 51740.66 | 1566.10 | 5138.11 |
| L108 | RP | 49585.76 | 51826.52 | 1619.91 | 5314.65 |
| L109 | RP | 49500.62 | 51940.99 | 1591.68 | 5222.03 |
| L111 | RP | 49447.14 | 51990.54 | 1599.01 | 5246.08 |
| L112 | RP | 49424.77 | 52018.26 | 1606.50 | 5270.65 |
| L114 | RP | 49169.46 | 52385.30 | 1587.45 | 5208.15 |
| L115 | RP | 49201.12 | 52359.29 | 1584.44 | 5198.28 |
| L116 | RP | 49123.21 | 52506.37 | 1575.91 | 5170.29 |
| L117 | RP | 49119.92 | 52522.24 | 1577.76 | 5176.36 |
| L119 | RP | 49054.21 | 52774.47 | 1575.28 | 5168.23 |
| L120 | RP | 48987.59 | 52821.78 | 1543.59 | 5064.26 |
| L121 | RP | 48977.32 | 52846.78 | 1533.02 | 5029.58 |
| L122 | RP | 48961.13 | 52855.83 | 1527.67 | 5012.03 |
| L123 | RP | 48948.42 | 52893.31 | 1519.21 | 4984.27 |
| L124 | RP | 48909.81 | 52963.12 | 1513.99 | 4967.14 |
| L125 | RP | 48849.07 | 53064.64 | 1501.17 | 4925.08 |
| L126 | RP | 48797.84 | 53131.79 | 1473.64 | 4834.76 |
| L127 | RP | 48703.27 | 53232.13 | 1473.14 | 4833.12 |
| L128 | RP | 48661.76 | 53278.71 | 1495.86 | 4907.66 |
| L129 | RP | 48672.17 | 53459.04 | 1514.83 | 4969.90 |

| ID | REMARKS | NORTHING | EASTING | ELEV(m.) | ELEV(ft) |
|------|---------|----------|----------|----------|----------|
| L130 | RP | 48728.17 | 53454.19 | 1513.61 | 4965.90 |
| L131 | RP | 48710.04 | 53510.00 | 1521.45 | 4991.62 |
| L132 | RP | 48747.12 | 53535.27 | 1531.25 | 5023.77 |
| L133 | RP | 48853.79 | 53715.37 | 1574.20 | 5164.68 |
| L134 | RP | 48771.34 | 53758.38 | 1566.08 | 5138.04 |
| L200 | RP | 50988.43 | 49245.72 | 1727.44 | 5667.44 |
| L401 | RP | 50749.81 | 51599.55 | 1669.95 | 5478.82 |
| L402 | RP | 51102.91 | 51908.72 | 1627.64 | 5340.01 |
| L403 | RP | 51131.07 | 51989.17 | 1627.22 | 5338.63 |
| L404 | RP | 51135.39 | 51969.02 | 1626.50 | 5336.27 |
| L405 | RP | 49783.60 | 49649.14 | 1626.51 | 5336.30 |
| L406 | RP | 50280.46 | 49487.20 | 1636.81 | 5370.10 |

APPENDIX II

LIST OF ABBREVIATIONS

| ABBR | MEANING | ABBR | MEANING |
|------------|--|------------|-----------------------------|
| # | number | MN | MANGANESE |
| & | AND | MOD | MODERATELY |
| 0.0 | ZERO WIDTH \approx MINERALIZED GRAB SAMPLES | MSV | MASSIVE |
| 0.000 | TRACE | Mpr | MAPPER (AUTHOR) |
| AG | SILVER | NORM | NORMAL |
| ALT | ALTERED, ALTERATION | OCC | OCCASIONALLY |
| AMPH | AMPHIBOLE | OR | ORANGE |
| AMYG | AMYGDALOIDAL | PB | LEAD |
| ANDS | ANDESITE | PB-JAR | PLUMBOJAROSITE |
| ANG | ANGLESITE | PPRC, PPRY | PORPHYRITIC, PORPHYRY |
| ARG | ARGILLIC | PROP | PROPYLITIC |
| ARG | ARGILLIC | PY | PYRITE |
| ASP | ARSENOPYRITE | QZ | QUARTZ |
| AU | GOLD | S/HEM | SPECULAR HEMATITE |
| AZ | AZURITE | SIL | SILICIFIED, SILICEOUS |
| BA | BARITE | SL | SLIGHTLY |
| BAS | BASALT | SMPs | SAMPLES |
| BK | BLACK | STND, STNG | STAINED, STAINING |
| BLCHD | BLEACHED | STRUC | STRUCTURE |
| BN | BROWN | TMN | MOUNT TANSSEN VOLCANIC UNIT |
| EX, EXD | BRECCIA, BRECCIATED | TOUR | TOURMALINE |
| CAL | CALCITE | TR | TRACE |
| CARB | CARBONATE | TR# | TRENCH NUMBER |
| CHL | CHLORITE, CHLORITIC | U | UNKNOWN |
| CP | CHALCOPYRITE | UNALT | UNALTERED |
| DIAM | DIAMETER | V | VERY |
| DISS | DISSEMINATED | VESIC | VESICULAR |
| DK | DARK | VN, VNG | VEIN, VEINING |
| EP | EPIDOTE | VNLET | VEINLET |
| FG | FINE GRAINED | VOLC | VOLCANIC |
| FLST | FELSITE | W/R | WALL ROCK |
| FLT | FLOAT | WEATH | WEATHERED, WEATHERING |
| FRAGS | FRAGMENTS | WH | WHITE |
| FX, -S, -D | FRACTURES, FRACTURING, FRACTURED | Wid | WIDTH |
| GAL | GALENA | Y | YELLOW |
| GN | GREEN | cm | CENTIMETRES |
| GR | GREY | m | METRES |
| GRAV | GRAVEL | oz/T | TROY OUNCES PER TON |
| HB | HORNBLende | W | WITH |
| HEM | HEMATITE | . | . |
| HS | HEAVY SULPHIDES | | |
| INJ | INJECTED, INJECTION | | |
| JAR | JAROSITE | | |
| LIM | LIMONITE, LIMONITIC | | |
| LT | LIGHT | | |
| MAL | MALACHITE | | |
| MATL | MATERIAL | | |
| MED | MEDIUM | | |
| MICROIL | MICROCRYSTALLINE | | |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wid | Sam# | Mpr | Description of sample |
|-----|---|-------|-------|-------|-----|-------|-----|---|
| | | oz/T | oz/T | % | (m) | | | |
| | | | | | | | | (✓) Ag:Pb ≥ 2 |
| 3-1 | 1 | 0.000 | 0.02 | 0.01 | 1.0 | K3732 | LL | NORM TO LOW ALT W/R |
| 3-1 | 2 | 0.020 | 7.14 | 0.79 | 1.0 | K3733 | LL✓ | BX QZ S/HEM VN IN ALT GOUGE |
| 3-1 | 3 | 0.030 | 0.30 | 0.16 | 0.7 | K3734 | LL | BX QZ S/HEM VN IN ALT GOUGE |
| 3-1 | 4 | 0.000 | 0.06 | 0.02 | 1.0 | K3735 | LL✓ | NORM TO MOD ALT W/R |
| 3-1 | 5 | 0.010 | 0.10 | 0.00 | 1.0 | K3736 | LL✓ | NORM W/R w 10cm Y-BN CLAY SEAM |
| 7-1 | 1 | 0.000 | 0.12 | 0.03 | 1.0 | K3737 | LL✓ | NORM W/R |
| 7-1 | 2 | 0.000 | 0.06 | 0.08 | 1.0 | K3738 | LL | NORM W/R TO HIGH ALT BLCHD MN-STND W/R |
| 7-1 | 3 | 0.026 | 0.92 | 0.84 | 0.6 | K3739 | LL | Y-BN CLAYEY GRIT w THUMB-SIZED VN FRAGS |
| 7-1 | 4 | 0.028 | 25.74 | 79.10 | 0.2 | K3740 | LL | MSV GAL w MINOR BOXWORK QZ VN IN JAR/MAL COATING |
| 7-1 | 5 | 0.202 | 8.42 | 28.30 | 0.3 | K3741 | LL | BOXWORK QZ VN w 10-20% GAL, JAR, MAL, AZ, DISS PY |
| 7-1 | 6 | 0.048 | 0.82 | 1.87 | 0.3 | K3742 | LL | HIGH ALT WEATH BLCHD CRUMBLY VN RUBBLE |
| 7-1 | 7 | 0.014 | 0.30 | 0.98 | 1.0 | K3743 | LL | HIGH ALT BLCHD SIL W/R w AZ, MN IN JOINTS |
| 7-1 | 8 | 0.000 | 0.03 | 0.06 | 1.0 | K3744 | LL | MOD TO HIGH ALT BLCHD MN-COATED W/R |
| 7-1 | 9 | 0.000 | 0.08 | 0.08 | 1.0 | K3745 | LL | NORM TO MOD ALT W/R |
| 7-2 | 1 | 0.000 | 0.04 | 0.10 | 1.0 | K3746 | LL | NORM TO BN GOUGEY LOW ALT W/R |
| 7-2 | 2 | 0.008 | 0.40 | 0.91 | 1.0 | K3747 | LL | LOW TO MOD ALT FRIABLE GOUGEY W/R |
| 7-2 | 3 | 0.006 | 0.16 | 0.53 | 1.0 | K3748 | LL | NORM TO LOW TO MOD ALT FRIABLE GOUGEY W/R |
| 7-2 | 4 | 0.000 | 0.07 | 0.10 | 1.0 | K3749 | LL | NORM W/R w LAST 20cm MOD ALT FRIABLE W/R |
| 7-2 | 5 | 0.024 | 0.82 | 1.84 | 0.6 | K3750 | LL | Y-OR CLAY-GOUGE w MINOR VN FRAGS |
| 7-2 | 6 | 0.148 | 1.83 | 4.59 | 1.2 | K3751 | LL | VN ZONE QZ TOUR RECEMENTED QZ VN BX |
| 7-2 | 7 | 0.020 | 0.30 | 1.17 | 1.0 | K3752 | LL | BLCHD SIL HIGH ALT BLOCKY TO RUBBLY W/R |
| 7-2 | 8 | 0.006 | 0.06 | 0.12 | 1.0 | K3753 | LL | BLCHD SIL HIGH ALT BLOCKY TO RUBBLY W/R |
| 7-2 | 9 | 0.000 | 0.04 | 0.07 | 1.0 | K3754 | LL | NORM TO BLCHD SIL HIGH ALT BLOCKY TO RUBBLY W/R |
| 7-3 | 1 | 0.000 | 0.04 | 0.18 | 1.0 | K3755 | LL | NORM W/R |
| 7-3 | 2 | 0.008 | 0.20 | 0.56 | 1.0 | K3756 | LL | MOD ALT TO BLCHD W/R |
| 7-3 | 3 | 0.036 | 0.24 | 0.49 | 0.6 | K3757 | LL | HIGH ALT BLCHD RUBBLY W/R |
| 7-3 | 4 | 0.020 | 0.16 | 0.43 | 1.1 | K3758 | LL | VARICOLOURED CLAY w QZ VN FRAGS |
| 7-3 | 5 | 0.000 | 0.02 | 0.07 | 1.0 | K3759 | LL | MOD TO HIGH ALT MN-COATED W/R |
| 7-3 | 6 | 0.000 | 0.04 | 0.04 | 1.0 | K3760 | LL | PROP MN-STND TO FRESH W/R |
| 7-4 | 1 | 0.006 | 0.05 | 0.24 | 1.0 | K3761 | LL | NORM W/R |
| 7-4 | 2 | 0.008 | 0.07 | 0.31 | 1.0 | K3762 | LL | NORM W/R TO MOD ALT & BLCHD W/R |
| 7-4 | 3 | 0.010 | 0.22 | 0.81 | 1.2 | K3763 | LL | MOD TO HIGH ALT BLCHD MN-STND & COATED |
| 7-4 | 4 | 0.042 | 9.50 | 31.80 | 0.3 | K3764 | LL | RED MOD DRUSY COARSE-BANDED QZ VN & 30-40% GAL |
| 7-4 | 5 | 0.026 | 1.22 | 4.06 | 0.9 | K3765 | LL | WH TO PALE-Y FLST DYKE |
| 7-4 | 6 | 0.008 | 0.66 | 1.84 | 0.9 | K3766 | LL | RED MSV QZ VN MN GRADING TO FLST |
| 7-4 | 7 | 0.000 | 0.02 | 1.45 | 0.7 | K3767 | LL | Y FG QZ PPRY w 40% Y CLAY |
| 7-4 | 8 | 0.006 | 0.24 | 0.63 | 1.0 | K3768 | LL | HIGH ALT BLCHD W/R w SMALL QZ S/HEM VNS |
| 7-4 | 9 | 0.000 | 0.05 | 0.10 | 1.0 | K3769 | LL | MOD TO HIGH ALT BLCHD W/R |
| 7-5 | 1 | 0.000 | 0.12 | 0.23 | 1.0 | K3770 | LL | NORM W/R |
| 7-5 | 2 | 0.005 | 0.06 | 0.28 | 1.0 | K3771 | LL | CHL ALT TO BLCHD CRUMBLY ROCK & CLAY SEAM |
| 7-5 | 3 | 0.000 | 0.02 | 0.14 | 1.0 | K3772 | LL | NORM TO MOD ALT MOD BLCHD W/R |
| 7-5 | 4 | 0.000 | 0.05 | 0.21 | 1.0 | K3773 | LL | NORM W/R |
| 7-5 | 5 | 0.000 | 0.06 | 0.25 | 1.0 | K3774 | LL | MOD ALT TO HIGH BLCHD MN-COATED |
| 7-5 | 6 | 0.028 | 0.14 | 0.47 | 1.0 | K3775 | LL | HIGH BLCHD CRUMBLY MN-STND W/R |
| 7-5 | 7 | 0.000 | 0.02 | 0.43 | 0.7 | K3776 | LL | HIGH BLCHD CRUMBLY MN-STND W/R |
| 7-5 | 8 | 0.000 | 0.24 | 0.55 | 1.1 | K3777 | LL | BLCHD FLST QZ PPRY QZ VN w WH CLAY |
| 7-5 | 9 | 0.000 | 0.02 | 0.12 | 1.0 | K3778 | LL | HIGH ALT Y BLCHD W/R MN CHL ANPH |
| 8-1 | 1 | 0.004 | 0.05 | 0.02 | 1.0 | K3785 | LL✓ | NORM TO MOD ALT MN-STND W/R |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Sampl # | Mpr | Description of sample |
|------|----|-------|------|------|-----|---------|-----|---|
| | | oz/T | oz/T | % | (m) | | | |
| 8-1 | 2 | 0.000 | 0.14 | 0.00 | 1.0 | K3786 | LL✓ | MOD ALT W/R GRADING TO Y-RED SOUGE & VN MATL |
| 8-1 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K3787 | LL✓ | Y-RED SOUGE & CLAY w 1-3mm CAL VN & PB-JAR? |
| 8-1 | 4 | 0.000 | 0.07 | 0.00 | 0.5 | K3788 | LL✓ | NORM TO MOD ALT COARSE BLOCKY W/R |
| 8-1 | 5 | 0.000 | 0.02 | 0.02 | 2.0 | K3789 | LL | NORM TO MOD ALT W/R |
| 8-1 | 6 | 0.000 | 0.01 | 0.01 | 2.0 | K3790 | LL | MOD ALT TO FG BLCHD W/R PY SIL ALT |
| 8-1 | 7 | 0.000 | 0.01 | 0.03 | 2.0 | K3791 | LL | MOD ALT TO FG BLCHD W/R PY SIL ALT |
| 8-1 | 8 | 0.005 | 0.02 | 0.01 | 2.0 | K3399 | LL | MINOR THUMB-SIZED VN FRAGS & BN SOUGEY CLAY MOD ALT TO FG BLCHD W/R PY SIL ALT |
| 8-1 | 9 | 0.000 | 0.01 | 0.02 | 2.0 | K3792 | LL | MINOR THUMB-SIZED VN FRAGS & BN SOUGEY CLAY NORM TO MOD ALT TO FG BLCHD W/R PY SIL ALT |
| 10-1 | 1 | 0.000 | 0.01 | 0.11 | 1.0 | K3793 | LL | SL BLCHD DK GR-BN BLOCKY W/R |
| 10-1 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K3794 | LL✓ | MOD BLCHD MED GR-BN BLOCKY W/R |
| 10-1 | 3 | 0.000 | 0.03 | 0.00 | 1.0 | K3795 | LL✓ | MOD BLCHD MED GR-BN BLOCKY W/R |
| 10-1 | 4 | 0.006 | 0.03 | 0.06 | 1.0 | K3796 | LL | MOD BLCHD MED GR-BN BLOCKY W/R |
| 10-1 | 5 | 0.000 | 0.04 | 0.05 | 1.5 | K3797 | LL | MOD BLCHD MED GR-BN BLOCKY W/R GRADING TO RED S/HEM SATURATED RUBBLE |
| 10-1 | 6 | 0.000 | 0.01 | 0.03 | 1.0 | K3798 | LL | RED S/HEM RUBBLE w MINOR VNG |
| 10-1 | 7 | 0.000 | 0.02 | 0.01 | 1.0 | K3799 | LL | Y BLCHD MN-COATED GRITTY CLAYEY ALT FLST? PPRY? |
| 10-1 | 8 | 0.000 | 0.02 | 0.00 | 1.0 | K3800 | LL✓ | BK-Y BLCHD MN-STND RUBBLY VN BX |
| 10-1 | 9 | 0.000 | 0.06 | 0.02 | 1.0 | K3801 | LL✓ | BK Y BLCHD MN-STND RUBBLY VN BX |
| 10-1 | 10 | 0.000 | 0.12 | 0.06 | 1.0 | K3802 | LL | BK Y BLCHD MN-STND RUBBLY VN BX |
| 10-1 | 11 | 0.000 | 0.08 | 0.04 | 1.0 | K3803 | LL | BK Y BLCHD MN-STND RUBBLY VN BX |
| 10-1 | 12 | 0.000 | 0.08 | 0.18 | 1.0 | K3804 | LL | BK Y BLCHD MN-STND RUBBLY VN BX |
| 10-1 | 13 | 0.000 | 0.54 | 0.15 | 1.5 | K3805 | LL✓ | Y OR WH GRITTY CLAY & SMALL HIGH ALT ROCK FRAGS |
| 10-1 | 14 | 0.000 | 0.01 | 0.04 | 2.0 | K3806 | LL | GN CHL RED HEM FINE RUBBLE w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 15 | 0.000 | 0.02 | 0.06 | 2.0 | K3807 | LL | GN CHL & MINOR RED HEM FINE RUBBLE w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 16 | 0.000 | 0.02 | 0.00 | 2.0 | K3808 | LL✓ | GN CHL & MINOR RED HEM FINE RUBBLE w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 17 | 0.000 | 0.05 | 0.03 | 2.0 | K3809 | LL | GN CHL & MINOR RED HEM FINE RUBBLE w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 18 | 0.004 | 0.18 | 0.05 | 2.0 | K3810 | LL✓ | GN CHL & MINOR RED HEM w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 19 | 0.005 | 0.28 | 0.11 | 1.0 | K3811 | LL✓ | GN CHL & MINOR RED HEM FINE RUBBLE w 0.5-1.0m SPACED 5-10cm OR CLAY SEAMS |
| 10-1 | 20 | 0.004 | 0.46 | 0.18 | 1.0 | K3812 | LL✓ | GRADING TO BLCHD DRUSY HEAVILY MN-COATED QZ VN HIGH ALT BLCHD DRUSY VN MATL |
| 10-1 | 21 | 0.006 | 0.62 | 0.15 | 1.0 | K3813 | LL✓ | HIGH ALT BLCHD DRUSY VN MATL GRADING TO OLIVE-BN HOMOGENEOUS FLST? |
| 10-1 | 22 | 0.000 | 0.12 | 0.06 | 2.0 | K3814 | LL | OLIVE-BN FG HOMOGENEOUS MN-ENCRUSTED BLOCKY FLST? |
| 10-1 | 23 | 0.000 | 0.08 | 0.01 | 2.0 | K3815 | LL✓ | OLIVE-BN FG HOMOGENEOUS MN-ENCRUSTED BLOCKY FLST? |
| 10-1 | 24 | 0.000 | 0.18 | 0.02 | 2.0 | K3816 | LL✓ | OLIVE-BN FG HOMOGENEOUS MN-ENCRUSTED BLOCKY FLST? |
| 10-1 | 25 | 0.000 | 0.30 | 0.14 | 1.0 | K3817 | LL✓ | DULL Y MOD DRUSY HIGH ALT QZ VN - FLST MATL |
| 10-1 | 26 | 0.008 | 4.48 | 0.57 | 2.0 | K3818 | LL✓ | BLCHD VN FRAGS & FLST PPRY |
| 10-1 | 27 | 0.000 | 0.16 | 0.08 | 1.5 | K3819 | LL | BLCHD VN FRAGS & FLST PPRY |
| 10-1 | 28 | 0.000 | 0.05 | 0.01 | 1.5 | K3820 | LL✓ | NORM TO LOW ALT RED GN VOLC BX |
| 12-1 | 1 | 0.000 | 0.03 | 0.00 | 1.0 | K7534 | MP✓ | W/R THN ANDS BLCHD 1Z PY, LIM DN FX |
| 12-1 | 2 | 0.000 | 0.04 | 0.07 | 1.0 | K7535 | MP | VN THN ANDS HIGH ALT STRONG CLAY, 1Z PY & CP, CARB-U |
| 12-1 | 3 | 0.000 | 0.10 | 0.04 | 0.8 | K7536 | MP✓ | VN THN ANDS 1-2Z HS, 1-2Z PY, MINOR CP, CLAY-H, STRONG LIM & MN |
| 12-1 | 4 | 0.000 | 0.02 | 0.00 | 1.0 | K7537 | MP✓ | W/R THN ANDS BLCHD 1-2Z PY DISS HS |
| 12-1 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K7538 | MP✓ | W/R THN ANDS BLCHD, HS DN FX, STRONG LIM |
| 12-1 | 6 | 0.000 | 0.03 | 0.04 | 1.0 | K7539 | MP | W/R THN ANDS |
| 12-1 | 7 | 0.000 | 0.04 | 0.00 | 1.0 | K7540 | MP✓ | W/R THN ANDS |
| 12-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7527 | MP✓ | W/R THN ANDS LOW ALT BLCHD, FAIR LIM & MN ON FX |

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| TR# | # | Au | Ag | Pb | Mid | Snpp | # | Mpr | Description of sample |
|------|----|-------|-------|------|-----|-------|---|-----|--|
| | | oz/T | oz/T | % | (#) | | | | |
| 12-2 | 2 | 0.000 | 0.02 | 0.00 | 1.0 | K7528 | | MP✓ | W/R THN ANDS HIGH ALT, BLCHD, FAIR CAL VNG, LIM & MN ON FX |
| 12-2 | 3 | 0.000 | 0.12 | 0.06 | 1.0 | K7529 | | MP | VN FLST? ANDS? EXTREME ALT TO CLAY |
| 12-2 | 4 | 0.000 | 0.04 | 0.00 | 1.0 | K7530 | | MP✓ | <1% PY, MINOR CP, HS<1% ON FX, FAIR LIM & MN, CRUMBLY VN FLST? OR BLCHD ANDS, HIGH ALT, DISS PY, TR CP HS ON FX, FAIR MN & LIM |
| 12-2 | 5 | 0.000 | 0.40 | 0.06 | 0.8 | K7531 | | MP✓ | VN FLST? HIGH ALT & BLCHD, LOW LIM |
| 12-2 | 6 | 0.000 | 0.02 | 0.01 | 1.0 | K7532 | | MP | W/R FLST? ANDS, LOW-MOD ALT 1-2% DISS PY, LIM & MN ON FX |
| 12-2 | 7 | 0.000 | 0.04 | 0.00 | 1.0 | K7533 | | MP✓ | W/R FLST LOW TO MOD ALT, MINOR PY, MN, LIM |
| 12-3 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7520 | | MP✓ | W/R THN ANDS BLCHD 1-2% DISS PY FAIR LIM ON FX |
| 12-3 | 2 | 0.000 | 0.04 | 0.01 | 1.0 | K7521 | | MP✓ | W/R THN ANDS BLCHD 1-2% DISS PY FAIR LIM ON FX |
| 12-3 | 3 | 0.000 | 0.36 | 0.08 | 0.6 | K7522 | | MP✓ | VN FLST ANDS? Y CLAY & GOUGE, HIGH ALT LOW LIM |
| 12-3 | 4 | 0.008 | 10.50 | 1.08 | 0.9 | K7523 | | MP✓ | VN FLST ANDS MOD ALT, CAL VN w MAL & AZ, QZ VN w PY & CP, DISS PY & CP 1% |
| 12-3 | 5 | 0.000 | 0.06 | 0.00 | 1.0 | K7524 | | MP✓ | W/R FLST w 1-2% TOUR, 1-3% DISS PY & VNLET, MOD LIM |
| 12-3 | 6 | 0.000 | 0.04 | 0.01 | 1.0 | K7525 | | MP✓ | W/R FLST w 1-2% TOUR, 1-3% PY MOD LIM |
| 12-3 | 7 | 0.000 | 0.03 | 0.00 | 1.0 | K7526 | | MP✓ | W/R FLST w 1-2% TOUR, 1-3% PY MOD LIM |
| 12-4 | 1 | 0.000 | 0.16 | 0.03 | 1.0 | K7504 | | MP✓ | VN FLST? Y-BN CLAY |
| 12-4 | 2 | 0.000 | 0.24 | 0.02 | 1.0 | K7505 | | MP✓ | VN FLST? Y-BN CLAY |
| 12-4 | 3 | 0.000 | 0.08 | 0.08 | 1.0 | K7506 | | MP | VN FLST? Y-BN CLAY |
| 12-4 | 4 | 0.005 | 1.82 | 0.34 | 1.0 | K7507 | | MP✓ | VN FLST? Y-BN CLAY |
| 12-4 | 5 | 0.003 | 0.06 | 0.07 | 1.0 | K7508 | | MP | VN FLST 3-5% PY, FAIR LIM & MN ON FX |
| 12-4 | 6 | 0.003 | 0.46 | 0.15 | 1.0 | K7509 | | MP✓ | VN FLST 3-5% PY FAIR LIM & MN ON FX |
| 12-4 | 7 | 0.003 | 2.60 | 0.16 | 1.0 | K7510 | | MP✓ | FLST HIGH ALT BN CLAY, LIM & MN ON FX |
| 12-4 | 8 | 0.000 | 0.10 | 0.01 | 2.0 | K7511 | | MP✓ | FLST HIGH ALT, BN CLAY, LIM & MN ON FX |
| 12-4 | 9 | 0.000 | 0.16 | 0.01 | 2.0 | K7512 | | MP✓ | FLST SLABBY, HIGH ALT WELL FXD w LIM & MN |
| 12-4 | 10 | 0.000 | 0.16 | 0.01 | 2.0 | K7513 | | MP✓ | FLST SLABBY, HIGH ALT, WELL FXD w LIM & MN |
| 12-4 | 11 | 0.000 | 0.04 | 0.02 | 2.0 | K7514 | | MP | FLST SLABBY, HIGH ALT, WELL FXD w LIM & MN |
| 12-4 | 12 | 0.000 | 0.03 | 0.01 | 2.0 | K7515 | | MP✓ | FLST SLABBY, HIGH ALT, STRONG FX LIM & MN |
| 12-4 | 13 | 0.000 | 0.02 | 0.00 | 2.0 | K7516 | | MP✓ | FLST SLABBY, HIGH ALT, STRONG FX LIM & MN |
| 12-4 | 14 | 0.000 | 0.02 | 0.00 | 2.0 | K7517 | | MP✓ | FLST Y CLAY & GRAV, FXG HIGH ALT |
| 12-4 | 15 | 0.000 | 0.04 | 0.01 | 2.0 | K7518 | | MP✓ | FLST Y CLAY & GRAV, FXG HIGH ALT |
| 12-4 | 16 | 0.000 | 0.04 | 0.01 | 2.0 | K7519 | | MP✓ | FLST BLOCKY, 3-5% PY, STRONG LIM ON FX |
| 16-1 | 1 | 0.006 | 0.04 | 0.01 | 2.0 | K7887 | | HD✓ | VN? MOD MN, LIM STNG |
| 16-1 | 2 | 0.005 | 0.02 | 0.00 | 2.0 | K7888 | | HD✓ | VN MOD MN, LIM STNG |
| 16-1 | 3 | 0.006 | 0.02 | 0.00 | 0.0 | K7889 | | HD✓ | GRAB FLT/ QZ VN MATL VUSSY, 2-5% PY, BOXWORK->LIM |
| 16-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7882 | | HD✓ | W/R BAS RUSTY-WEATH |
| 16-2 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K7883 | | HD✓ | VN MATL, STRONG OR GOUGE, JAR STNG? HIGH ARG ALT |
| 16-2 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7884 | | HD✓ | VN MATL, MOD OR GOUGE |
| 16-2 | 4 | 0.000 | 0.02 | 0.01 | 1.0 | K7885 | | HD | VN MATL, MOD OR GOUGE, STRONG MN STNG |
| 16-2 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K7886 | | HD✓ | W/R BAS, RUSTY-WEATH, MOD MN STNG |
| 16-3 | 1 | 0.000 | 0.04 | 0.00 | 1.0 | K7581 | | MP✓ | W/R WEAK FXG w PY & LIM ON FX, THN |
| 16-3 | 2 | 0.000 | 0.02 | 0.00 | 1.5 | K7582 | | MP✓ | VN FLST WEAK LIM |
| 16-3 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7583 | | MP✓ | W/R THN HIGHLY FXD, STRONG LIM & 25% BN CLAY |
| 18-1 | 1 | 0.000 | 0.32 | 0.23 | 1.0 | K3657 | | LL | NORM W/R & COARSE BANDED S/HEN QZ VN 0.2m WIDE |
| 18-2 | 1 | 0.000 | 0.80 | 0.16 | 1.0 | K3658 | | LL✓ | NORM W/R GRADES TO MN-STND BLCHD W/R LAST 0.1m |
| 18-2 | 2 | 0.010 | 5.36 | 0.71 | 0.5 | K3659 | | LL✓ | COARSE BANDED DRUSY S/HEN QZ VN w 60% S/HEN |
| 18-2 | 3 | 0.000 | 0.92 | 0.59 | 1.0 | K3660 | | LL | CLAY SEAM GRADING TO .8m MN-STND BLCHD W/R |
| 18-2 | 4 | 0.006 | 1.22 | 0.00 | 0.9 | K3661 | | LL✓ | MN-STND BLCHD W/R TO LOW ALT W/R |
| 18-2 | 5 | 0.000 | 0.12 | 0.12 | 1.0 | K3662 | | LL | NORM W/R |

10/15/81

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wtd | Sampl | # | Mpr | Description of sample |
|------|---|-------|------|------|-----|-------|-----|-----|---|
| | | oz/T | oz/T | Z | (m) | | | | |
| 18-3 | 1 | 0.000 | 0.20 | 0.16 | 1.0 | K3663 | LL | | LOW TO MOD ALT W/R |
| 18-3 | 2 | 0.000 | 0.38 | 0.39 | 0.4 | K3664 | LL | | MSV SUB-VITREOUS WH PARTLY DRUSY QZ VN, MINOR S/HEM BLEBS |
| 18-3 | 3 | 0.000 | 0.04 | 0.05 | 1.0 | K3665 | LL | | DR-BN-WEATH GRIT & <3cm QZ VN FRAGS |
| 18-3 | 4 | 0.000 | 0.02 | 0.02 | 1.6 | K3666 | LL | | RUSTY-BN GRIT CLAY w <4cm QZ VN & W/R FRAGS |
| 18-3 | 5 | 0.000 | 0.02 | 0.02 | 1.0 | K3667 | LL | | LOW-MOD ALT W/R, MINOR MN |
| 18-3 | 6 | 0.000 | 0.02 | 0.01 | 1.0 | K3668 | LL | | NORM W/R |
| 18-4 | 1 | 0.006 | 0.02 | 0.32 | 1.0 | K3669 | LL | | CHIP SMPs OF BN DRUSY QZ VN FROM 0.1-0.15m VN |
| 18-4 | 2 | 0.000 | 0.02 | 0.04 | 1.0 | K3670 | LL | | ROSETTE TOUR IN FLST & ALT W/R |
| 18-4 | 3 | 0.006 | 0.72 | 0.59 | 1.0 | K3671 | LL | | BN DRUSY QZ OF 0.1-0.2m VN |
| 18-4 | 4 | 0.000 | 0.04 | 0.04 | 1.0 | K3672 | LL | | ROSETTE TOUR IN FLST & ALT W/R |
| 18-4 | 5 | 0.000 | 0.86 | 0.97 | 1.0 | K3673 | LL | | BN DRUSY QZ OF 0.1m VN |
| 18-4 | 6 | 0.024 | 8.64 | 0.89 | 0.2 | K3674 | LL✓ | | BN DRUSY QZ OF 0.2m VN & CLAY SEAM 50% VN |
| 18-5 | 1 | 0.000 | 0.08 | 0.02 | 1.0 | K3675 | LL✓ | | NORM W/R |
| 18-5 | 2 | 0.000 | 0.48 | 0.54 | 0.4 | K3676 | LL | | ALT W/R & FLST VNS |
| 18-5 | 3 | 0.005 | 0.06 | 0.21 | 1.0 | K3677 | LL | | NORM W/R & SL SIL |
| 18-7 | 1 | 0.000 | 0.02 | 0.05 | 1.0 | K3678 | LL | | NORM TO LOW ALT W/R |
| 18-7 | 2 | 0.000 | 0.12 | 0.22 | 0.7 | K3679 | LL | | SANDY CLAY & FIST-SIZED BLCHD MN-COATED FLST |
| 18-7 | 3 | 0.000 | 0.26 | 0.24 | 0.8 | K3680 | LL | | HIGH ALT MN-STND TO LOW ALT W/R |
| 18-7 | 4 | 0.005 | 0.36 | 0.95 | 1.0 | K3681 | LL | | BANDED SUGARY VN MATL & Y SANDY CLAY |
| 18-7 | 5 | 0.005 | 0.24 | 0.50 | 1.0 | K3682 | LL | | HIGH TO LOW ALT W/R |
| 18-7 | 6 | 0.003 | 0.16 | 0.30 | 1.0 | K3683 | LL | | BLCHD TO LOW ALT W/R |
| 19-3 | 1 | 0.000 | 0.01 | 0.02 | 1.0 | K3400 | LL | | W/R w EP IN JOINTS |
| 19-3 | 2 | 0.000 | 0.02 | 0.08 | 1.0 | K3401 | LL | | W/R MN IN JOINTS |
| 19-3 | 3 | 0.000 | 0.04 | 0.35 | 1.0 | K3402 | LL | | ALT W/R STRONG MN COATING |
| 19-3 | 4 | 0.000 | 1.24 | 0.68 | 0.8 | K3403 | LL | | WH PK CLAY w VN FRAGS |
| 19-3 | 5 | 0.000 | 2.18 | 0.97 | 0.6 | K3404 | LL✓ | | BN GRIT, WEATH VN MATL |
| 19-3 | 6 | 0.000 | 0.74 | 0.48 | 1.1 | K3405 | LL | | ALT W/R MN-STND |
| 19-3 | 7 | 0.000 | 0.38 | 0.16 | 1.0 | K3406 | LL✓ | | NORM W/R |
| 19-4 | 1 | 0.000 | 0.06 | 0.05 | 1.0 | K3407 | LL | | NORM W/R EP IN JOINTS & VUGS |
| 19-4 | 2 | 0.000 | 0.18 | 0.17 | 1.0 | K3408 | LL | | LOW ALT W/R MN COATING |
| 19-4 | 3 | 0.000 | 0.62 | 0.14 | 0.7 | K3409 | LL✓ | | MOD ALT W/R HEAVY MN |
| 19-4 | 4 | 0.010 | 2.20 | 0.14 | 0.9 | K3410 | LL✓ | | WH-Y CLAY BN QZ VN FRAGS |
| 19-4 | 5 | 0.000 | 0.20 | 0.02 | 1.0 | K3411 | LL✓ | | MOD ALT W/R MN COATING |
| 19-4 | 6 | 0.000 | 0.08 | 0.02 | 1.0 | K3412 | LL✓ | | NORM W/R CHL EP |
| 19-5 | 1 | 0.000 | 0.14 | 0.14 | 1.0 | K3417 | LL | | NORM W/R |
| 19-5 | 2 | 0.000 | 0.40 | 0.30 | 1.0 | K3416 | LL | | BLCHD W/R S/HEM VNLETS |
| 19-5 | 3 | 0.000 | 0.32 | 0.29 | 0.8 | K3415 | LL | | WH, Y CLAY & QZ VN FRAGS |
| 19-5 | 4 | 0.000 | 0.16 | 0.12 | 1.0 | K3413 | LL | | BLCHD ALT W/R |
| 19-5 | 5 | 0.000 | 0.01 | 0.07 | 1.0 | K3414 | LL | | NORM W/R CHL GARNET? |
| 19-5 | 6 | 0.000 | 0.02 | 0.04 | 1.0 | K3418 | LL | | NORM W/R S/HEM IN JOINTS |
| 19-5 | 7 | 0.006 | 1.44 | 0.21 | 0.1 | K3419 | LL✓ | | BLCHD RUBBLE & RED/GN CLAY |
| 19-5 | 8 | 0.000 | 0.38 | 0.08 | 0.8 | K3420 | LL✓ | | ALT W/R OLIVE GN CHL RUBBLY |
| 19-5 | 9 | 0.000 | 0.14 | 0.06 | 1.0 | K3421 | LL✓ | | NORM W/R S/HEM, MN IN JOINTS |
| 19-6 | 1 | 0.000 | 0.08 | 0.03 | 1.0 | K3422 | LL✓ | | NORM W/R |
| 19-6 | 2 | 0.000 | 0.02 | 0.06 | 0.5 | K3423 | LL | | BLCHD W/R |
| 19-6 | 3 | 0.000 | 0.30 | 0.20 | 1.0 | K3424 | LL | | BN GN WH CLAY & QZ VN FRAGS |
| 19-6 | 4 | 0.000 | 0.06 | 0.04 | 1.0 | K3425 | LL | | BK GN MN W/R RUBBLE |
| 19-6 | 5 | 0.000 | 0.14 | 0.06 | 0.5 | K3426 | LL✓ | | BN GN CLAY BLCHD W/R FRAGS |

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| TRF | # | Au | Ag | Pb | Wid | Sampl | # | Mpr | Description of sample |
|------|----|-------|------|------|-----|-------|----|-----|---|
| | | oz/T | oz/T | % | (m) | | | | |
| 19-6 | 6 | 0.000 | 0.34 | 0.06 | 1.0 | K3427 | LL | ✓ | DK GN HIGH BLCHD W/R |
| 19-6 | 7 | 0.004 | 0.12 | 0.01 | 1.0 | K3428 | LL | ✓ | RED BK MN HEM ALT W/R |
| 19-6 | 8 | 0.000 | 0.28 | 0.01 | 1.0 | K3429 | LL | ✓ | NORM TO MOD ALT W/R |
| 19-6 | 9 | 0.000 | 0.16 | 0.15 | 0.5 | K3430 | LL | | Y GN CLAY S/HEM BN QZ VN FRAGS |
| 19-6 | 10 | 0.000 | 0.06 | 0.04 | 1.0 | K3431 | LL | | RED GN BK ALT W/R |
| 19-6 | 11 | 0.000 | 0.01 | 0.04 | 1.0 | K3432 | LL | | DK GN CHL EP FINE RUBBLE W/R |
| 19-6 | 12 | 0.000 | 0.16 | 0.12 | 0.3 | K3433 | LL | | RED HEM CLAY & OXIDIZED VN |
| 19-6 | 13 | 0.000 | 0.01 | 0.04 | 1.0 | K3434 | LL | | NORM TO LOW ALT CHL W/R |
| 19-7 | 1 | 0.000 | 0.02 | 0.03 | 1.0 | K3706 | LL | | GN CHL GRITTY BLOCKY W/R |
| 19-7 | 2 | 0.000 | 0.12 | 0.10 | 0.6 | K3707 | LL | | VN BREAK 70% VARICOLOURED CLAY 30% MULTISTAGE QZ S/HEM VN |
| 19-7 | 3 | 0.000 | 0.06 | 0.08 | 1.0 | K3708 | LL | | GN GRITTY LOW ALT W/R |
| 19-8 | 1 | 0.000 | 0.04 | 0.01 | 1.0 | K3453 | LL | ✓ | NORM W/R |
| 19-8 | 2 | 0.000 | 0.14 | 0.06 | 1.3 | K3454 | LL | ✓ | NORM W/R TO LIM MN & S/HEM |
| 19-8 | 3 | 0.000 | 0.42 | 0.16 | 0.3 | K3455 | LL | ✓ | S/HEM VN w DR-Y VN FRAGS |
| 19-8 | 4 | 0.000 | 0.22 | 0.08 | 0.7 | K3456 | LL | ✓ | BLCHD W/R |
| 19-8 | 5 | 0.000 | 0.10 | 0.06 | 1.0 | K3457 | LL | | NORM W/R |
| 19-8 | 6 | 0.000 | 0.44 | 0.15 | 1.0 | K3458 | LL | ✓ | NORM W/R GRADING TO GOUGE & VN FRAGS |
| 19-8 | 7 | 0.000 | 0.04 | 0.01 | 1.0 | K3459 | LL | ✓ | NORM W/R |
| 19-8 | 8 | 0.000 | 0.18 | 0.23 | 1.0 | K3460 | LL | | OLIVE-GN GOUGE, BN-AQUA VN CLAY & FRAGS |
| 19-8 | 9 | 0.000 | 0.16 | 0.07 | 1.0 | K3461 | LL | ✓ | BK BN GOUGE MN RUBBLE |
| 19-8 | 10 | 0.000 | 0.03 | 0.05 | 1.0 | K3462 | LL | | BK BN GOUGE MN RUBBLE |
| 19-8 | 11 | 0.000 | 0.03 | 0.03 | 1.0 | K3463 | LL | | BK BN GOUGE MN RUBBLE GRADING TO COARSE RUBBLE |
| 19-8 | 12 | 0.004 | 0.04 | 0.01 | 1.0 | K3464 | LL | ✓ | BK BN RUBBLE MINOR GN GOUGE |
| 19-8 | 13 | 0.000 | 0.06 | 0.02 | 1.0 | K3465 | LL | ✓ | NORM W/R |
| 19-8 | 14 | 0.000 | 0.05 | 0.01 | 1.0 | K3466 | LL | ✓ | NORM W/R GRADING TO MN-STND ALT W/R |
| 19-8 | 15 | 0.000 | 0.20 | 0.03 | 1.0 | K3467 | LL | ✓ | LOW ALT W/R MN-STND CLAY-LINED JOINTS |
| 19-8 | 16 | 0.000 | 0.12 | 0.01 | 1.0 | K3468 | LL | ✓ | LOW ALT W/R MN-STND CLAY-LINED JOINTS |
| 19-8 | 17 | 0.000 | 0.16 | 0.03 | 1.0 | K3469 | LL | ✓ | LOW ALT W/R MN-STND CLAY-LINED JOINTS |
| 19-8 | 18 | 0.000 | 0.06 | 0.03 | 1.2 | K3470 | LL | | ALT W/R MN CLAY SEAMS |
| 19-8 | 19 | 0.000 | 0.03 | 0.02 | 1.0 | K3471 | LL | | ALT W/R MN CLAY SEAMS |
| 19-8 | 20 | 0.000 | 0.18 | 0.17 | 1.0 | K3472 | LL | | Y CLAY & VN FRAGS IN MOD ALT W/R |
| 19-8 | 21 | 0.000 | 0.14 | 0.10 | 1.0 | K3473 | LL | | MN RUBBLE 50% OLIVE GN & Y CLAY |
| 19-8 | 22 | 0.000 | 0.12 | 0.08 | 1.0 | K3474 | LL | | MN RUBBLE 50% OLIVE-GN & Y CLAY |
| 19-8 | 23 | 0.000 | 0.08 | 0.06 | 1.0 | K3475 | LL | | MN RUBBLE 60% OLIVE-GN & Y CLAY |
| 19-8 | 24 | 0.005 | 0.18 | 0.03 | 1.0 | K3476 | LL | ✓ | NORM TO ALT W/R & CLAY |
| 19-9 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K3477 | LL | ✓ | NORM W/R |
| 19-9 | 2 | 0.000 | 0.02 | 0.00 | 1.0 | K3478 | LL | ✓ | DK GN MN ALT FIST-SIZED RUBBLE |
| 19-9 | 3 | 0.000 | 0.04 | 0.00 | 1.0 | K3479 | LL | ✓ | DK GN MN ALT FIST-SIZED RUBBLE |
| 19-9 | 4 | 0.000 | 0.02 | 0.01 | 1.0 | K3480 | LL | | RUBBLE w CLAYEY GOUGE |
| 19-9 | 5 | 0.000 | 0.04 | 0.02 | 1.0 | K3481 | LL | | BK RUBBLE GN CLAY S/HEM |
| 19-9 | 6 | 0.000 | 0.03 | 0.04 | 1.0 | K3482 | LL | | BK BN RUBBLE CLAY |
| 19-9 | 7 | 0.000 | 0.06 | 0.03 | 1.0 | K3483 | LL | | GN RUBBLE & GN EP CLAY |
| 19-9 | 8 | 0.000 | 0.06 | 0.02 | 1.0 | K3484 | LL | ✓ | GN RUBBLE BN-BK CLAY |
| 19-9 | 9 | 0.000 | 0.28 | 0.11 | 1.0 | K3485 | LL | ✓ | BK RUBBLE Y-GN CLAY |
| 19-9 | 10 | 0.000 | 0.16 | 0.07 | 1.0 | K3486 | LL | ✓ | GN-Y-RED CLAY GRADING TO NORM W/R |
| 19-9 | 11 | 0.000 | 0.10 | 0.00 | 1.0 | K3488 | LL | ✓ | MOD ALT W/R & 20% GR CLAY |
| 19-9 | 12 | 0.000 | 0.02 | 0.05 | 0.6 | K3489 | LL | | LOW ALT W/R 5% CLAY |
| 19-9 | 13 | 0.000 | 0.04 | 0.28 | 0.6 | K3490 | LL | | THUMB-SIZED VN FRAGS & MINOR CLAY |

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| TR# | # | Au | Ag | Pb | Mid | Sampl | # | Mpr | Description of sample |
|-------|----|-------|------|------|-----|-------|----|-----|--|
| | | oz/T | oz/T | Z | (m) | | | | |
| 19-9 | 14 | 0.000 | 0.22 | 0.03 | 1.0 | K3491 | LL | ✓ | THUMB-SIZED RUBBLE & W/R FRAGS |
| 19-9 | 15 | 0.000 | 0.02 | 0.07 | 1.0 | K3492 | LL | | THUMB-SIZED RUBBLE, MN, CHL & SAND |
| 19-10 | 1 | 0.000 | 0.08 | 0.03 | 1.0 | K3493 | LL | ✓ | NORM W/R (0.3m) & BN CLAY GRIT (0.7m) |
| 19-10 | 2 | 0.000 | 0.06 | 0.16 | 1.0 | K3494 | LL | | BN CLAY GRIT (0.6m) & BK S/HEM CLAY (0.4m) |
| 19-10 | 3 | 0.004 | 0.20 | 0.06 | 1.0 | K3495 | LL | ✓ | BK-BN S/HEM CLAY (0.6m) & SAND GRIT (0.4m) |
| 19-10 | 4 | 0.006 | 0.14 | 0.09 | 1.0 | K3496 | LL | | BN SANDY GRIT |
| 19-10 | 5 | 0.000 | 0.01 | 0.06 | 1.0 | K3497 | LL | | Y-OR CLAY (0.3m) GRADES TO HIGH ALT W/R |
| 19-10 | 6 | 0.000 | 0.04 | 0.04 | 1.0 | K3498 | LL | | BN BLCHD W/R 20% CLAY |
| 19-10 | 7 | 0.000 | 0.04 | 0.02 | 1.0 | K3499 | LL | | BN BLCHD W/R 30% CLAY |
| 19-10 | 8 | 0.004 | 0.02 | 0.05 | 1.0 | K3600 | LL | | BN BLCHD W/R 20% CLAY |
| 19-10 | 9 | 0.006 | 0.06 | 0.07 | 1.0 | K3601 | LL | | BN BLCHD W/R 20% CLAY |
| 19-10 | 10 | 0.006 | 0.04 | 0.04 | 1.0 | K3602 | LL | | BLCHD CRUMBLY PPRY DYKE? |
| 19-10 | 11 | 0.006 | 0.04 | 0.04 | 1.0 | K3603 | LL | | BLCHD PPRY (0.5m) & S/HEM QZ VN W/R (0.5m) |
| 19-10 | 12 | 0.004 | 0.02 | 0.04 | 1.0 | K3604 | LL | | ALT BLCHD W/R 30% BN CLAY MN, CLAY JOINTS |
| 19-10 | 13 | 0.005 | 0.02 | 0.04 | 1.0 | K3605 | LL | | MOD ALT W/R S/HEM JOINT LINING & VNLETS |
| 19-10 | 14 | 0.006 | 0.04 | 0.04 | 1.0 | K3606 | LL | | NORM W/R GRADING TO MOD ALT |
| 19-10 | 15 | 0.006 | 0.06 | 0.05 | 1.0 | K3607 | LL | | MOD ALT W/R S/HEM JOINT LINING & VNLETS |
| 19-10 | 16 | 0.000 | 0.02 | 0.04 | 1.0 | K3608 | LL | | MOD ALT W/R S/HEM JOINT LINING & VNLETS |
| 19-10 | 17 | 0.000 | 0.03 | 0.04 | 1.0 | K3609 | LL | | NORM TO LOW ALT W/R GRADING TO MOD ALT W/R |
| 19-10 | 18 | 0.000 | 0.01 | 0.00 | 1.0 | K3610 | LL | ✓ | BN-Y GOUGE & CRUMBLY W/R |
| 19-10 | 19 | 0.000 | 0.01 | 0.01 | 1.0 | K3611 | LL | | MOD-HIGH ALT CRUMBLY W/R |
| 19-10 | 20 | 0.000 | 0.04 | 0.01 | 1.0 | K3612 | LL | ✓ | MOD-HIGH ALT CRUMBLY W/R & VN & GOUGE CLAY |
| 19-10 | 21 | 0.000 | 0.04 | 0.01 | 1.0 | K3613 | LL | ✓ | MOD-HIGH ALT CRUMBLY W/R & VN & GOUGE CLAY |
| 19-10 | 22 | 0.003 | 0.08 | 0.07 | 1.0 | K3614 | LL | | HIGH ALT W/R GRADING TO GOUGEY W/R |
| 19-10 | 23 | 0.000 | 0.28 | 0.17 | 1.0 | K3615 | LL | | HIGH ALT W/R & BN-WEATH VN MATL (0.2m) |
| 19-10 | 24 | 0.004 | 0.06 | 0.02 | 1.0 | K3616 | LL | ✓ | MOD-HIGH ALT W/R MN S/HEM 40% CLAY-ALT MIN |
| 19-10 | 25 | 0.006 | 0.22 | 0.11 | 1.0 | K3617 | LL | | MOD ALT W/R (0.6m) & Y-OR GOUGE, VN FRAGS (0.4m) |
| 19-10 | 26 | 0.004 | 0.08 | 0.09 | 0.8 | K3618 | LL | | Y-OR GOUGE CLAY HIGH ALT W/R |
| 19-10 | 27 | 0.005 | 0.18 | 0.03 | 1.0 | K3619 | LL | ✓ | NORM W/R & PATCHY HIGH ALT W/R |
| 19-11 | 1 | 0.000 | 0.02 | 0.03 | 1.0 | K3620 | LL | | V LOW TO MOD ALT W/R |
| 19-11 | 2 | 0.010 | 0.10 | 0.05 | 1.0 | K3621 | LL | | BK-BN GRITTY ALT W/R 10% FINES |
| 19-11 | 3 | 0.000 | 0.04 | 0.00 | 1.0 | K3622 | LL | ✓ | LT TO DK BN GRITTY ALT W/R 10% FINES |
| 19-11 | 4 | 0.000 | 0.02 | 0.00 | 1.6 | K3623 | LL | ✓ | DK BN MOD BLCHD BLOCKY FRIABLE W/R |
| 19-11 | 5 | 0.000 | 0.03 | 0.00 | 0.6 | K3624 | LL | ✓ | OR-Y MOTTLED BLCHD CRUMBLY W/R |
| 19-11 | 6 | 0.006 | 0.04 | 0.01 | 1.0 | K3625 | LL | ✓ | OR-Y MOTTLED BLCHD CRUMBLY W/R |
| 19-11 | 7 | 0.008 | 0.08 | 0.09 | 1.0 | K3626 | LL | | GN-Y MOTTLED BLCHD CRUMBLY W/R |
| 19-11 | 8 | 0.008 | 0.16 | 0.26 | 0.5 | K3627 | LL | | PALE GN-WH MOTTLED BLCHD CRUMBLY W/R |
| 19-11 | 9 | 0.000 | 0.42 | 0.23 | 1.1 | K3628 | LL | | BN OR HIGH ALT CRUMBLY MN INJECTION VN? |
| 19-11 | 10 | 0.000 | 0.08 | 0.08 | 1.0 | K3629 | LL | | HIGH ALT BLCHD TO LOW ALT W/R |
| 19-11 | 11 | 0.000 | 0.10 | 0.11 | 1.0 | K3630 | LL | | LOW ALT TO NORM W/R |
| 19-12 | 1 | 0.000 | 0.08 | 0.05 | 1.1 | K3631 | LL | | NORM W/R MINOR ALT QZ VNS |
| 19-12 | 2 | 0.010 | 0.16 | 0.15 | 1.4 | K3632 | LL | | MSV WH SUGARY QZ VN BLEBS OF S/HEM COMMON |
| 19-12 | 3 | 0.000 | 0.54 | 0.09 | 1.0 | K3633 | LL | ✓ | HIGH ALT MN, S/HEM COATED W/R |
| 19-12 | 4 | 0.000 | 0.56 | 0.05 | 1.0 | K3634 | LL | ✓ | MOD ALT MN-COATED W/R |
| 19-12 | 5 | 0.000 | 0.54 | 0.06 | 1.0 | K3635 | LL | ✓ | MOD ALT MN-COATED W/R |
| 19-12 | 6 | 0.003 | 0.62 | 0.10 | 1.3 | K3636 | LL | ✓ | LOW TO HIGH ALT W/R DISS S/HEM COMMON |
| 19-12 | 7 | 0.000 | 0.60 | 0.06 | 1.0 | K3637 | LL | ✓ | WH CHALKY SIL QZ INJECTED FG PPRY |
| 19-12 | 8 | 0.000 | 0.64 | 0.10 | 1.0 | K3638 | LL | ✓ | WH CHALKY SIL QZ INJ FG PPRY & 0.12m QZ S/HEM VN |

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| TR# | # | Au | Ag | Pb | Mid | Sampl # | Mpr | Description of sample |
|-------|----|-------|-------|------|-----|---------|-----|---|
| | | oz/T | oz/T | Z | (m) | | | |
| 19-12 | 9 | 0.000 | 0.54 | 0.09 | 0.7 | K3639 | LL✓ | WH CHALKY SIL QZ INJ FG PPRY |
| 19-12 | 10 | 0.000 | 0.54 | 0.05 | 1.4 | K3640 | LL✓ | HIGH ALT MOTTLED W/R QZ S/HEM VN |
| 19-12 | 11 | 0.000 | 0.60 | 0.07 | 1.1 | K3641 | LL✓ | MOD TO HIGH ALT W/R MN, S/HEM, LIM COATING |
| 19-12 | 12 | 0.000 | 0.62 | 0.07 | 1.0 | K3642 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN, LIM |
| 19-12 | 13 | 0.000 | 0.56 | 0.06 | 1.0 | K3643 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 14 | 0.000 | 0.62 | 0.07 | 1.0 | K3644 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 15 | 0.003 | 0.68 | 0.10 | 1.0 | K3645 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 16 | 0.003 | 0.60 | 0.12 | 1.0 | K3646 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 17 | 0.005 | 0.74 | 0.09 | 1.0 | K3647 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 18 | 0.000 | 0.66 | 0.12 | 1.0 | K3648 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 19 | 0.000 | 0.62 | 0.10 | 1.0 | K3649 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 20 | 0.004 | 0.56 | 0.09 | 1.0 | K3650 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 21 | 0.000 | 0.58 | 0.16 | 1.0 | K3651 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 22 | 0.003 | 1.22 | 0.16 | 1.0 | K3652 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-12 | 23 | 0.000 | 0.52 | 0.06 | 1.0 | K3653 | LL✓ | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 19-13 | 1 | 0.004 | 0.04 | 0.04 | 1.0 | K3654 | LL | LOW TO MOD ALT BLOCKY W/R MN COATING NEAR VN |
| 19-13 | 2 | 0.000 | 0.10 | 0.05 | 1.0 | K3655 | LL | BLCHD W/R & QZ S/HEM VN |
| 19-13 | 3 | 0.000 | 0.08 | 0.05 | 1.0 | K3656 | LL | COARSE BLOCKY NORM W/R |
| 22-1 | 1 | 0.005 | 0.04 | 0.06 | 1.0 | K3709 | LL | LOW TO MOD ALT GN W/R 0.2m BN CLAY SEAM w VN BX |
| 22-1 | 2 | 0.005 | 0.08 | 0.10 | 1.0 | K3710 | LL | LOW TO MOD ALT W/R |
| 22-1 | 3 | 0.000 | 0.10 | 0.10 | 1.0 | K3711 | LL | MOD TO HIGH ALT BLCHD W/R |
| 22-1 | 4 | 0.006 | 0.10 | 0.10 | 1.0 | K3712 | LL | MOD TO HIGH ALT BLCHD W/R |
| 22-1 | 5 | 0.005 | 0.10 | 0.12 | 1.0 | K3713 | LL | LOW ALT W/R |
| 22-1 | 6 | 0.000 | 0.24 | 0.17 | 1.0 | K3714 | LL | LOW ALT W/R w MINOR MN STNG |
| 22-1 | 7 | 0.000 | 0.30 | 0.16 | 1.3 | K3715 | LL | MOD TO HIGH ALT W/R w VN MATL & PPRY |
| 22-1 | 8 | 0.000 | 0.34 | 0.15 | 1.0 | K3716 | LL✓ | LOW ALT TO NORM W/R |
| 22-2 | 1 | 0.000 | 0.22 | 0.15 | 1.0 | K3717 | LL | NORM TO MOD ALT W/R |
| 22-2 | 2 | 0.006 | 0.12 | 0.06 | 1.0 | K3718 | LL | BLCHD MN-INJECTED CRUMBLY W/R |
| 22-2 | 3 | 0.000 | 0.38 | 0.49 | 1.0 | K3719 | LL | MOD TO HIGH ALT BLCHD W/R INJ BY FLST VNS |
| 22-2 | 4 | 0.005 | 0.08 | 0.13 | 1.0 | K3720 | LL | MOD TO HIGH ALT BLCHD W/R INJ BY FLST VNS |
| 22-2 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K3721 | LL✓ | CLAYEY MOD ALT W/R GRADING TO NORM W/R |
| 22-2 | 6 | 0.006 | 0.34 | 0.16 | 1.0 | K3722 | LL✓ | PROP ALT GRADING TO BLCHD HIGH ALT W/R |
| 22-2 | 7 | 0.006 | 2.26 | 2.00 | 1.0 | K3723 | LL | GN LOW ALT W/R TO CRUMBLY HIGH ALT W/R |
| 22-2 | 8 | 0.030 | 10.28 | 5.00 | 0.4 | K3724 | LL✓ | WH BN BK MSV DRUSY QZ VN, MINOR S/HEM, TR HS? |
| 22-2 | 9 | 0.008 | 2.26 | 1.70 | 1.0 | K3725 | LL | GN-BN GOUGE w RUBBLY W/R |
| 22-2 | 10 | 0.005 | 1.96 | 1.38 | 1.0 | K3726 | LL | GN-BN GOUGE w RUBBLY W/R |
| 22-2 | 11 | 0.000 | 0.34 | 0.27 | 1.0 | K3727 | LL | PROP ALT TO NORM W/R |
| 22-3 | 1 | 0.000 | 0.05 | 0.01 | 1.0 | K3728 | LL✓ | NORM W/R |
| 22-3 | 2 | 0.000 | 0.06 | 0.04 | 0.4 | K3724 | LL | BLCHD W/R VN MATL IN GN GOUGE |
| 22-3 | 3 | 0.000 | 0.05 | 0.02 | 1.0 | K3730 | LL✓ | LOW ALT TO NORM W/R |
| 22-4 | 1 | 0.000 | 0.03 | 0.00 | 1.0 | K3731 | LL✓ | GN BLOCKY NORM W/R w 35cm GN RED GOUGE & CLAY |
| 23-1 | 1 | 0.000 | 0.01 | 0.01 | 1.0 | K7973 | HO | W/R PPRC VOLC, MN STND |
| 23-1 | 2 | 0.000 | 0.01 | 0.01 | 1.0 | K7974 | HO | VN DR GOUGE, STRONG MN STNG |
| 23-1 | 3 | 0.000 | 0.01 | 0.01 | 1.0 | K7975 | HO | VN DR GOUGE |
| 23-1 | 4 | 0.000 | 0.03 | 0.02 | 1.0 | K7976 | HO | VN HIGH ARG ALT, JAR? TOUR |
| 23-1 | 5 | 0.000 | 0.07 | 0.06 | 2.0 | K7977 | HO | VN |
| 23-1 | 6 | 0.000 | 0.01 | 0.01 | 3.0 | K7978 | HO | VN, MOD LIM STNG |

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LILYPAD 1921 TRENCHING / MAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wid | Saap # | Mpr | Description of sample |
|------|----|-------|-------|-------|-----|--------|------|---|
| | | oz/T | oz/T | % | (m) | | | |
| 23-1 | 7 | 0.000 | 0.01 | 0.01 | 1.0 | K7979 | HD | W/R VOLC |
| 23-1 | 8 | 0.000 | 0.01 | 0.01 | 1.0 | K7980 | HD | W/R VOLC |
| 23-1 | 9 | 0.000 | 0.06 | 0.08 | 1.0 | K7981 | HD | VN STRONG DR GOUGE, MN STNG |
| 23-1 | 10 | 0.000 | 0.04 | 0.02 | 1.0 | K7982 | HD | W/R VOLC |
| 23-1 | 11 | 0.000 | 0.06 | 0.02 | 0.5 | K7983 | HD✓ | VN STRONG DR GOUGE |
| 23-1 | 12 | 0.000 | 0.04 | 0.02 | 1.0 | K7984 | HD | W/R VOLC |
| 23-2 | 1 | 0.010 | 11.18 | 4.62 | 0.5 | K7985 | HD✓ | GRAB SAMPLE/ VUGGY QZ, JAR STNG, <1Z PY, GAL->ANG, SMALL FRAGS |
| 23-2 | 2 | 0.000 | 0.14 | 0.05 | 1.0 | K7986 | HD✓ | W/R PPRC VOLC <5Z DISS PY, MN STNG |
| 23-2 | 3 | 0.000 | 0.04 | 0.00 | 2.0 | K7987 | HD✓ | VN? STRONG LIM STNG, VOLC, 5Z DISS PY, WEAK MN STNG |
| 23-2 | 4 | 0.000 | 0.01 | 0.00 | 2.0 | K7988 | HD✓ | VN? STRONG LIM STNG, VOLC, 5Z DISS PY, WEAK MN STNG |
| 23-2 | 5 | 0.005 | 0.20 | 0.02 | 1.0 | K7989 | HD✓ | VN? STRONG LIM STNG, VOLC, 5Z DISS PY, WEAK MN STNG, ARG ALT |
| 23-2 | 6 | 0.005 | 0.05 | 0.02 | 1.0 | K7990 | HD✓ | W/R PPRC VOLC, MN STNG |
| 23-3 | 1 | 0.000 | 0.08 | 0.06 | 1.0 | K7991 | HD | W/R ARG ALT VOLC |
| 23-3 | 2 | 0.000 | 0.52 | 0.17 | 1.0 | K7992 | HD✓ | VN VUGGY, DRUSY QZ, LIM & HEM STNG |
| 23-4 | 1 | 0.000 | 1.74 | 0.58 | 1.0 | K7993 | HD✓ | BREAK MATL, DR GOUGE PROP VOLC, LIM STNG, WEAK ARG ALT |
| 23-5 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7994 | HD✓ | VN? MOD LIM STNG, DR GOUGE, WEAK MN STNG, ARG ALT |
| 23-5 | 2 | 0.000 | 0.10 | 0.05 | 1.0 | K7995 | HD | W/R VOLC PPRY MN STNG |
| 23-5 | 3 | 0.000 | 0.24 | 0.07 | 1.0 | K7996 | HD✓ | VN? MOD LIM STNG, DR GOUGE, WEAK-MOD ARG ALT |
| 23-6 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7997 | HD✓ | W/R VOLC PPRY, MINOR MN STNG |
| 23-6 | 2 | 0.000 | 0.03 | 0.00 | 1.0 | K7998 | HD✓ | VN? DR GOUGE, STRONG LIM STNG VOLC, MN STNG |
| 23-6 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7999 | HD✓ | W/R VOLC PPRY |
| 30-1 | 1 | 0.000 | 0.14 | 0.02 | 1.0 | K7924 | HD ✓ | VN |
| 30-1 | 2 | 0.000 | 1.04 | 0.10 | 1.0 | K7925 | HD✓ | VN ARG ALT |
| 30-1 | 3 | 0.005 | 2.28 | 0.46 | 1.0 | K7926 | HD✓ | VN |
| 30-2 | 1 | 0.000 | 0.60 | 0.30 | 1.0 | K7923 | HD | VN ARG ALT |
| 30-3 | 1 | 0.000 | 0.06 | 0.01 | 1.0 | K7918 | HD✓ | W/R |
| 30-3 | 2 | 0.000 | 0.08 | 0.03 | 1.0 | K7919 | HD✓ | VN LIM |
| 30-3 | 3 | 0.000 | 0.06 | 0.03 | 1.0 | K7920 | HD | VN ARG ALT |
| 30-3 | 4 | 0.005 | 0.96 | 0.23 | 1.0 | K7921 | HD✓ | VN LIM |
| 30-3 | 5 | 0.000 | 0.04 | 0.01 | 1.0 | K7922 | HD✓ | W/R |
| 30-4 | 1 | 0.006 | 10.12 | 0.44 | 1.0 | K7917 | HD✓ | VN |
| 32-1 | 1 | 0.000 | 0.08 | 0.15 | 1.0 | K7916 | HD | VN |
| 32-2 | 1 | 0.004 | 0.50 | 0.74 | 1.0 | K7914 | HD | VN |
| 32-2 | 2 | 0.030 | 8.60 | 21.00 | 0.0 | K7915 | HD | GRAB SAMPLE/ |
| 32-3 | 1 | 0.000 | 0.44 | 35.00 | 1.0 | K7909 | HD | W/R |
| 32-3 | 2 | 0.000 | 0.08 | 0.09 | 1.0 | K7910 | HD | VN |
| 32-3 | 3 | 0.000 | 0.06 | 0.03 | 1.0 | K7911 | HD | VN |
| 32-3 | 4 | 0.008 | 3.96 | 0.29 | 1.0 | K7912 | HD✓ | VN |
| 32-3 | 5 | 0.000 | 0.16 | 0.02 | 1.0 | K7913 | HD✓ | W/R |
| 32-4 | 1 | 0.000 | 0.26 | 0.14 | 1.0 | K7904 | HD | W/R |
| 32-4 | 2 | 0.008 | 2.72 | 2.34 | 1.0 | K7905 | HD | VN |
| 32-4 | 3 | 0.000 | 0.16 | 0.22 | 1.0 | K7906 | HD | VN |
| 32-4 | 4 | 0.006 | 0.24 | 0.07 | 1.0 | K7907 | HD✓ | W/R |
| 32-4 | 5 | 0.032 | 61.24 | 29.90 | 0.0 | K7908 | HD✓ | GRAB SAMPLE/ |
| 32-5 | 1 | 0.000 | 0.24 | 0.08 | 1.0 | K7902 | HD✓ | VN |
| 32-5 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K7903 | HD✓ | VN |
| 32-6 | 1 | 0.000 | 0.60 | 0.04 | 1.0 | K7901 | HD✓ | VN |
| 33-2 | 1 | 0.000 | 0.24 | 0.09 | 0.7 | K7570 | MP✓ | VN Y CLAY GOUGE & FINE HIGHLY BID TMN & STRONG LIM & UP TO 3Z DISS PY |

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LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| Trk | # | Au | Ag | Pb | Mid | Sample # | Mpr | Description of sample |
|------|----|-------|-------|-------|-----|----------|-----|---|
| | | oz/T | oz/T | Z | (m) | | | |
| 33-2 | 2 | 0.003 | 1.32 | 0.16 | 0.3 | K7571 | MP✓ | VN QZ MICROXIL SUGARY FAIR-MOD LIM ON FX, OCC UP TO 3% PY & ASP? |
| 33-2 | 3 | 0.000 | 0.86 | 0.20 | 0.8 | K7572 | MP✓ | VN BXD FLST STRONG LIM HIGHLY PITTED & LEACHED |
| 33-2 | 4 | 0.000 | 0.10 | 0.03 | 1.0 | K7573 | MP✓ | W/R TMN STRONG FX & COATING LIM, MN & CAL |
| 33-3 | 1 | 0.000 | 0.03 | 0.00 | 0.7 | K7861 | HD✓ | W/R BAS |
| 33-3 | 2 | 0.000 | 0.04 | 0.00 | 1.0 | K7862 | HD✓ | VN MATL OR GOUGE, LIM, MN STNG |
| 33-3 | 3 | 0.000 | 0.06 | 0.01 | 2.0 | K7863 | HD✓ | VN MATL, THUMB-SIZED FRAGS, OR GOUGE |
| 33-3 | 4 | 0.003 | 0.42 | 0.08 | 0.0 | K7864 | HD✓ | GRAB SAMPLE/ STRONG RUSTY-WEATH ROCK QZ IN MSV STRINGERS, VUGGY, DRUSY, <1% HS |
| 33-3 | 5 | 0.000 | 0.08 | 0.01 | 1.0 | K7865 | HD✓ | W/R BAS |
| 33-3 | 6 | 0.000 | 0.03 | 0.00 | 2.0 | K7866 | HD✓ | VN MATL? |
| 33-4 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7856 | HD✓ | W/R VOLC PPRY, VESIC |
| 33-4 | 2 | 0.000 | 0.08 | 0.03 | 0.5 | K7857 | HD✓ | VN STRONG CHALKY MN GOUGE, ARG ALT |
| 33-4 | 3 | 0.003 | 0.24 | 0.13 | 1.0 | K7858 | HD | MAIN VN VUGGY QZ, STRONG MN, LIM, MN STNG |
| 33-4 | 4 | 0.000 | 0.06 | 0.02 | 1.0 | K7859 | HD✓ | VN WEAKER WEATHG & ALT THAN 33-4 (3) |
| 33-4 | 5 | 0.000 | 0.04 | 0.01 | 1.0 | K7860 | HD✓ | W/R VOLC PPRY |
| 34-1 | 1 | 0.032 | 24.96 | 54.00 | 0.0 | K7588 | MP | GRAB FLDAT/ 90% ANG, 10% QZ |
| 34-1 | 2 | 0.012 | 24.26 | 56.90 | 0.0 | K7589 | MP | GRAB FLOAT/ HIGH ALT TMN & 10% QZ, 20% GAL w MINOR ANG |
| 34-2 | 1 | 0.000 | 0.06 | 0.24 | 1.0 | K7590 | MP | TMN HIGH FXD & MN, LIM STNG |
| 34-2 | 2 | 0.000 | 0.04 | 0.06 | 0.9 | K7591 | MP | VN Y-BN CLAY & BLCHD, LIM-MN STRONG STNG |
| 34-2 | 3 | 0.000 | 0.08 | 0.26 | 1.0 | K7592 | MP | W/R TMN WEAK MN & LIM STNG |
| 35-1 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7577 | MP✓ | W/R MSV TMN |
| 35-1 | 2 | 0.000 | 0.02 | 0.00 | 0.8 | K7578 | MP✓ | VN BN CLAY & 50% 1cm HIGH ALT FX, FAIR-MOD LIM & MN |
| 35-1 | 3 | 0.000 | 0.28 | 0.04 | 1.0 | K7579 | MP✓ | W/R TMN HIGH FXD, MOD FX LIM, MN |
| 35-1 | 4 | 0.000 | 1.08 | 0.36 | 1.0 | K7580 | MP✓ | W/R TMN HIGH FXD, MOD FX LIM, MN, SLABBY |
| 35-2 | 1 | 0.000 | 0.18 | 0.03 | 1.0 | K7878 | HD✓ | W/R BAS |
| 35-2 | 2 | 0.000 | 0.48 | 0.09 | 1.0 | K7879 | HD✓ | VN MATL OR GOUGE, STRONGLY WEATH, STRONG LIM, MN STNG |
| 35-2 | 3 | 0.000 | 0.54 | 0.11 | 0.0 | K7880 | HD✓ | GRAB SAMPLE/ VUGGY DRUSY QZ, LIM STNG |
| 35-2 | 4 | 0.000 | 0.02 | 0.00 | 1.0 | K7881 | HD✓ | W/R BAS |
| 35-3 | 1 | 0.000 | 0.04 | 0.03 | 1.0 | K7875 | HD | W/R VOLC |
| 35-3 | 2 | 0.000 | 0.18 | 0.10 | 1.0 | K7876 | HD | VN MATL OR GOUGE STRONG LIM, MN STNG, BOXWORK STRUC 5-8Z |
| 35-3 | 3 | 0.000 | 0.04 | 0.05 | 1.0 | K7877 | HD | W/R VOLC |
| 37-1 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K3530 | MP✓ | W/R TMN FRESH TO LOW ALT |
| 37-1 | 2 | 0.000 | 0.04 | 0.00 | 1.3 | K3531 | MP✓ | VN? FAULT? Y-BN GRADING TO BN CLAY |
| 37-1 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K3532 | MP✓ | W/R TMN FRESH-LOW ALT |
| 37-1 | 4 | 0.000 | 0.01 | 0.01 | 1.0 | K3533 | MP | W/R TMN FRESH-LOW ALT 75% BN CLAY |
| 37-1 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K3534 | MP✓ | VN Y CLAY w FINE FRAGS HIGH ALT TMN |
| 37-1 | 6 | 0.000 | 0.01 | 0.00 | 0.9 | K3535 | MP✓ | VN Y CLAY w 10% FINE WH QZ FRAGS |
| 37-1 | 7 | 0.000 | 0.02 | 0.00 | 0.8 | K3536 | MP✓ | W/R TMN FAIR ALT, MOD MN, MINOR VN-BARITE |
| 37-1 | 8 | 0.000 | 0.02 | 0.03 | 1.0 | K3537 | MP | W/R TMN FAIR ALT FX, MN, 1-2% HS |
| 37-1 | 9 | 0.000 | 0.46 | 0.04 | 0.9 | K3538 | MP✓ | VN Y CLAY 5% VN QZ w MN |
| 37-1 | 10 | 0.010 | 12.18 | 0.82 | 1.0 | K3539 | MP✓ | VN Y CLAY, 25-40% QZ-BA w MINOR CHL, MAL & AZ |
| 37-1 | 11 | 0.010 | 2.52 | 0.43 | 1.1 | K3540 | MP✓ | VN Y CLAY, 50-60% BA-QZ, FAIR MAL, AZ, POSSIBLY DISTURBED |
| 37-1 | 12 | 0.000 | 0.66 | 0.03 | 1.0 | K3541 | MP✓ | VN 80% CLAY & FX MOD ALT TMN, FAIR MN |
| 37-1 | 13 | 0.000 | 0.04 | 0.02 | 1.0 | K3542 | MP | VN Y CLAY w 5% FX ALT STRONGLY TMN |
| 37-1 | 14 | 0.000 | 0.02 | 0.00 | 1.0 | K3543 | MP✓ | VN Y CLAY w 5% FX HIGH ALT TMN |
| 37-1 | 15 | 0.000 | 1.26 | 0.06 | 1.5 | K3544 | MP✓ | VN Y-BN CLAY w 5% TMN FX w MN COATING |
| 37-1 | 16 | 0.000 | 2.86 | 0.13 | 1.0 | K3545 | MP✓ | W/R TMN BLOCKY FX & CAL VNG |
| 37-1 | 17 | 0.005 | 14.68 | 33.20 | 0.0 | K3580 | MP | GRAB FLDAT/ VN QZ 5-10% GAL, 10-20% HS |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wid | Samp # | Mpr | Description of sample |
|------|----|-------|--------|-------|-----|--------|-----|---|
| | | oz/T | oz/T | z | (m) | | | |
| 37-2 | 1 | 0.000 | 0.08 | 0.15 | 1.0 | K3525 | MP | W/R TMN FX STRONG MN COATING |
| 37-2 | 2 | 0.000 | 8.34 | 4.06 | 0.4 | K3526 | MP✓ | VN HIGH ALT CLAY |
| 37-2 | 3 | 0.006 | 33.64 | 73.90 | 0.2 | K3527 | MP | VN 10-20% CLAY IN QZ VN |
| 37-2 | 4 | 0.000 | 0.94 | 1.46 | 0.4 | K3528 | MP | VN CRUSHED ALT FAIR MN |
| 37-2 | 5 | 0.000 | 0.16 | 0.26 | 1.0 | K3529 | MP | W/R TMN FX MN STND |
| 37-2 | 6 | 0.000 | 0.02 | 0.00 | 1.0 | K3552 | MP✓ | W/R TMN FX MINOR MN STND |
| 37-2 | 7 | 0.000 | 0.02 | 0.00 | 1.0 | K3553 | MP✓ | VN BN Y CLAY, MINOR QZ |
| 37-2 | 8 | 0.000 | 0.01 | 0.00 | 1.0 | K3554 | MP✓ | VN BN-Y CLAY, MINOR QZ |
| 37-2 | 9 | 0.000 | 0.01 | 0.00 | 1.0 | K3555 | MP✓ | W/R TMN FX MINOR MN STND |
| 37-2 | 10 | 0.000 | 0.03 | 0.01 | 1.0 | K3556 | MP✓ | W/R TMN w MN COATING BN SOIL |
| 37-2 | 11 | 0.000 | 0.04 | 0.00 | 1.0 | K3557 | MP✓ | VN BN SOIL TMN FX w STRONG MN COATING |
| 37-2 | 12 | 0.000 | 0.03 | 0.00 | 1.0 | K3558 | MP✓ | VN BN SOIL TMN FX w STRONG MN COATING |
| 37-2 | 13 | 0.000 | 0.02 | 0.00 | 1.0 | K3559 | MP✓ | W/R TMN WEAK MN COATING |
| 37-3 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K3560 | MP✓ | W/R TMN LOW ALT STRONG MN |
| 37-3 | 2 | 0.000 | 2.94 | 1.06 | 1.0 | K3561 | MP✓ | VN 1cm BA w GR & Y CLAY, FINE MN COATING FX |
| 37-3 | 3 | 0.000 | 25.10 | 55.40 | 0.0 | K3562 | MP | GRAB FLDAT/ VN 50% BA, 50% GAL |
| 37-3 | 4 | 0.000 | 0.44 | 0.72 | 1.0 | K3563 | MP | W/R TMN LOW ALT BN SOIL MN COATING |
| 37-4 | 1 | 0.024 | 244.52 | 36.80 | 0.0 | K3564 | MP✓ | GRAB FLDAT/ QZ VN 10% GAL&ANG, 5% MAL |
| 37-5 | 1 | 0.000 | 1.46 | 0.04 | 1.0 | K3565 | MP✓ | W/R TMN 5% PY & LIM ON FX |
| 37-5 | 2 | 0.000 | 0.30 | 0.11 | 0.5 | K3566 | MP✓ | VN? BN CLAY w 50% ALT TMN, MN ON FX |
| 37-5 | 3 | 0.000 | 0.10 | 0.03 | 1.0 | K3567 | MP✓ | W/R BN CLAY w 75% TMN, PY & LIM ON FX |
| 37-5 | 4 | 0.000 | 0.04 | 0.02 | 1.0 | K3568 | MP | W/R TMN 5% LIM & PY |
| 37-5 | 5 | 0.000 | 0.04 | 0.02 | 1.0 | K3569 | MP | TFP EXTREME CLAY |
| 37-5 | 6 | 0.000 | 0.04 | 0.02 | 1.0 | K3570 | MP | TFP FLST MOD ALT LIM 2-3%, BN SOIL |
| 37-5 | 7 | 0.000 | 0.04 | 0.02 | 1.0 | K3571 | MP | TFP FLST MOD ALT LIM 2-3%, BN SOIL |
| 37-5 | 8 | 0.000 | 0.02 | 0.02 | 1.0 | K3572 | MP | TMN STRONGLY ALT, BN SOIL |
| 37-5 | 9 | 0.000 | 0.03 | 0.00 | 1.0 | K3573 | MP✓ | TMN HIGH ALT, BN SOIL |
| 37-5 | 10 | 0.000 | 0.28 | 0.25 | 1.0 | K3574 | MP | W/R TMN FX |
| 37-5 | 11 | 0.008 | 25.20 | 37.10 | 0.1 | K3575 | MP | VN (4cm) QZ + 30% GAL |
| 37-5 | 12 | 0.004 | 2.84 | 2.20 | 1.0 | K3576 | MP | VN? BN CLAY |
| 38-1 | 1 | 0.000 | 0.16 | 0.36 | 1.0 | K3500 | MP | W/R TMN ALT MINOR PY & HS |
| 38-1 | 2 | 0.010 | 96.54 | 62.30 | 0.3 | K3501 | MP | VN MSV GAL & ANG |
| 38-1 | 3 | 0.010 | 10.60 | 2.50 | 1.0 | K3502 | MP✓ | VN ALT TMN MINOR GAL |
| 38-1 | 4 | 0.000 | 4.02 | 2.03 | 1.0 | K3503 | MP | W/R ALT TMN w PY & HS, MINOR GAL w QZ & MAL |
| 38-1 | 5 | 0.008 | 14.94 | 2.84 | 0.3 | K3504 | MP✓ | VN Y GOUGE, CRUSHED TMN |
| 38-1 | 6 | 0.026 | 29.66 | 17.10 | 1.0 | K3505 | MP | VN ALT GOUGEY TMN, FAIR PODOY GAL |
| 38-1 | 7 | 0.000 | 0.62 | 0.27 | 1.0 | K3506 | MP✓ | W/R TMN BLCHD 2% PY & HS, FAIR-STRONG CLAY |
| 38-1 | 8 | 0.014 | 0.10 | 0.06 | 1.0 | K3507 | MP | W/R? BLCHD, HIGHLY FXD |
| 38-1 | 9 | 0.000 | 0.04 | 0.04 | 1.0 | K3508 | MP | VN HIGHLY FXD, GOUGE |
| 38-1 | 10 | 0.000 | 0.04 | 0.09 | 1.0 | K3509 | MP | VN HIGHLY FXD, GOUGE |
| 38-1 | 11 | 0.000 | 0.06 | 0.03 | 1.0 | K3510 | MP | W/R BLCHD 1-2% MN |
| 38-1 | 12 | 0.000 | 0.01 | 0.00 | 2.5 | K3511 | MP✓ | VN? FAULT? FINE BROKEN TMN w BN CLAY |
| 38-1 | 13 | 0.000 | 0.01 | 0.00 | 2.5 | K3512 | MP✓ | VN? FAULT? FINE BROKEN TMN w BN CLAY |
| 38-2 | 1 | 0.000 | 0.04 | 0.02 | 1.0 | K3513 | MP | W/R TMN CRUMBLY w PY, MN |
| 38-2 | 2 | 0.000 | 0.52 | 0.52 | 0.9 | K3514 | MP | VN Y GOUGE & SAND |
| 38-2 | 3 | 0.000 | 0.40 | 0.18 | 1.0 | K3515 | MP✓ | W/R TMN CRUMBLY, HIGH WEATH |
| 38-2 | 4 | 0.000 | 0.01 | 0.02 | 0.5 | K3516 | MP | VN SAND & CLAY |
| 38-3 | 1 | 0.008 | 0.68 | 0.02 | 1.0 | K3517 | MP✓ | W/R TMN BLCHD, UP TO 10% PY |

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| TH# | # | Au | Ag | Pb | Wid | Sam# | Mpr | Description of sample |
|------|----|-------|-------|-------|-----|-------|-----|---|
| | | oz/T | oz/T | % | (m) | | | |
| 38-3 | 2 | 0.106 | 0.74 | 0.14 | 1.0 | K3518 | MP✓ | W/R TMN FRESH UP TO 5% VNLET HS |
| 38-3 | 3 | 0.000 | 1.14 | 0.36 | 1.3 | K3519 | MP✓ | VN Y CRUMBLY QZ |
| 38-3 | 4 | 0.000 | 0.40 | 0.34 | 1.0 | K3520 | MP | W/R |
| 38-3 | 5 | 0.005 | 0.36 | 0.17 | 1.0 | K3521 | MP✓ | W/R TMN ALT 1-2% PY |
| 38-3 | 6 | 0.008 | 26.30 | 48.70 | 0.4 | K3522 | MP | VN 50% GAL 50% QZ |
| 38-3 | 7 | 0.000 | 1.76 | 1.17 | 0.9 | K3523 | MP | VN TMN ALT 10-20% QZ, MINOR GAL |
| 38-3 | 8 | 0.000 | 0.74 | 0.78 | 1.0 | K3524 | MP | W/R TMN FX LOW ALT |
| 38-4 | 1 | 0.000 | 0.26 | 0.06 | 1.0 | K3546 | MP✓ | W/R TMN FX |
| 38-4 | 2 | 0.000 | 0.02 | 0.00 | 1.0 | K3547 | MP✓ | W/R TMN HIGH ALT |
| 38-4 | 3 | 0.000 | 0.03 | 0.00 | 0.6 | K3548 | MP✓ | VN TMN HIGH ALT |
| 38-4 | 4 | 0.000 | 0.03 | 0.00 | 0.4 | K3549 | MP✓ | W/R TMN |
| 38-4 | 5 | 0.000 | 0.08 | 0.07 | 1.0 | K3550 | MP | VN Y-BN SOIL & ALT TMN |
| 38-4 | 6 | 0.000 | 0.03 | 0.00 | 1.0 | K3551 | MP✓ | W/R TMN w 1-2% HS |
| 39-1 | 1 | 0.005 | 1.50 | 0.01 | 0.1 | K7502 | MP✓ | 5cm VUGGY QZ STRONG LIM BOXWORK |
| 39-1 | 2 | 0.000 | 0.22 | 0.01 | 1.0 | K7503 | MP✓ | TMN HIGH ALT w HS & HS+QZ VNG |
| 39-2 | 1 | 0.000 | 0.22 | 0.01 | 1.0 | K3589 | MP✓ | W/R TMN LOW ALT MINOR PY, HS |
| 39-2 | 2 | 0.000 | 0.01 | 0.01 | 1.0 | K3590 | MP | VN BN-Y CLAY w LOW ALT TMN FX, WEAK MN |
| 39-2 | 3 | 0.000 | 0.01 | 0.01 | 1.0 | K3591 | MP | VN |
| 39-2 | 4 | 0.005 | 0.26 | 0.10 | 1.0 | K3592 | MP✓ | VN |
| 39-2 | 5 | 0.000 | 0.01 | 0.03 | 0.6 | K3593 | MP | VN |
| 39-2 | 6 | 0.020 | 0.06 | 0.00 | 0.9 | K3594 | MP✓ | VN |
| 39-2 | 7 | 0.010 | 0.04 | 0.03 | 1.0 | K3595 | MP | VN |
| 39-2 | 8 | 0.000 | 0.01 | 0.01 | 0.7 | K3596 | MP | VN |
| 39-2 | 9 | 0.008 | 0.03 | 0.03 | 1.0 | K3597 | MP | VN |
| 39-2 | 10 | 0.010 | 0.05 | 0.06 | 1.0 | K3598 | MP | VN |
| 39-2 | 11 | 0.004 | 0.50 | 0.02 | 0.5 | K3599 | MP✓ | VN |
| 39-2 | 12 | 0.000 | 0.04 | 0.04 | 1.0 | K7501 | MP | W/R |
| 39-3 | 1 | 0.000 | 0.10 | 0.10 | 1.0 | K3581 | MP | W/R TMN FRESH IN BN CLAY |
| 39-3 | 2 | 0.000 | 0.02 | 0.04 | 0.5 | K3582 | MP | VN? WEAK BREAK LOW ALT w MN COATING FX |
| 39-3 | 3 | 0.000 | 0.02 | 0.01 | 0.8 | K3583 | MP | VN? BN CLAY 35% w UP TO 1cm OF UNALT FRAGS |
| 39-3 | 4 | 0.000 | 0.03 | 0.03 | 1.0 | K3584 | MP | W/R TMN 10% CLAY |
| 39-3 | 5 | 0.000 | 0.04 | 0.03 | 1.0 | K3585 | MP | W/R TMN FRESH w MN STNG ON FX |
| 39-3 | 6 | 0.000 | 0.04 | 0.03 | 0.5 | K3586 | MP | VN Y CLAY w UP TO 3cm HIGH ALT FRAGS & UP TO 5cm QZ VN w UP TO 50% HS |
| 39-3 | 7 | 0.000 | 0.12 | 0.03 | 1.0 | K3587 | MP✓ | W/R TMN LOW ALT w MINOR HS |
| 39-3 | 8 | 0.000 | 0.06 | 0.04 | 0.0 | K3588 | MP | GRAB FLOAT/ 5cm MSV HS |
| 40-1 | 1 | 0.000 | 0.34 | 0.20 | 0.1 | K3577 | MP | 4cm VN? TMN w MN STNG & MINOR QZ |
| 40-1 | 2 | 0.000 | 0.28 | 0.33 | 1.0 | K3578 | MP | TMN LOW ALT STRONG MN, TR QZ |
| 40-1 | 3 | 0.022 | 70.06 | 63.90 | 0.0 | K3579 | MP | GRAB FLOAT/ 25% QZ VN 75% GAL |
| 60-1 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7555 | MP✓ | W/R DK GN HARD FAIR-MOD MN ON FX |
| 60-1 | 2 | 0.000 | 0.02 | 0.00 | 0.8 | K7556 | MP✓ | VN Y-GR CLAY GOUGE w 10% TO 2cm TMN FXG w STRONG MN |
| 60-1 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7557 | MP✓ | W/R TMN DK GN NEAR VN, STRONG FXG w STRONG MN |
| 60-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7558 | MP✓ | VN Y-GR CLAY w 10-20% GRIT SIZED FX |
| 60-2 | 2 | 0.000 | 0.04 | 0.00 | 1.0 | K7559 | MP✓ | VN Y-GR CLAY 30-40% MN-COATED, UP TO 5cm ALT FRAGS |
| 60-2 | 3 | 0.000 | 0.22 | 0.00 | 1.0 | K7560 | MP✓ | W/R TMN FAIR FXG w MOD-STRONG MN |
| 61-1 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7848 | HD✓ | W/R VOLC PPRY, 2mm HB |
| 61-1 | 2 | 0.000 | 0.03 | 0.00 | 0.5 | K7849 | HD✓ | VN MATL OR GOUGE MOD LIM STNG, VOLC |
| 61-1 | 3 | 0.000 | 0.05 | 0.00 | 0.3 | K7850 | HD✓ | GRAB SAMPLE/ FROM RUBBLE, QZ IN FLST, LOW ARG ALT |
| 61-2 | 1 | 0.000 | 0.04 | 0.00 | 1.0 | K7851 | HD✓ | W/R VOLC PPRY |

10/15/81

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wid | Sam # | Mpr | Description of sample |
|-------|----|-------|-------|-------|-----|-------|-----|---|
| | | oz/T | oz/T | Z | (m) | | | |
| 61-2 | 2 | 0.000 | 0.03 | 0.00 | 1.5 | K7852 | HD✓ | VN MATL MOD LIM, MN STNG |
| 61-2 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7853 | HD✓ | W/R VOLC PPRY |
| 61-2 | 4 | 0.000 | 0.00 | 0.00 | 1.0 | K7854 | HD | VN DR GOUGE MOD LIM, MN STNG |
| 61-2 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K7855 | HD✓ | W/R VOLC PPRY |
| 62-1 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7561 | MP✓ | W/R TMN STRONG MN ON FX, INCREASING BN CLAY TOWARDS VN |
| 62-1 | 2 | 0.000 | 0.04 | 0.00 | 1.3 | K7562 | MP✓ | VN Y CLAY GOUGE w FLST FRAGS, FAIR MN WEAK FX LIM |
| 62-1 | 3 | 0.005 | 0.06 | 0.00 | 1.0 | K7563 | MP✓ | W/R TMN HIGHLY-WEAK FXD w MN COATING COMMON |
| 62-2 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7564 | MP✓ | W/R TMN WEAK MN COATING FX |
| 62-2 | 2 | 0.000 | 0.18 | 0.10 | 0.9 | K7565 | MP | VN FLST WEAK CLAY ALT, FAIR FX LIM, TR QZ VNG |
| 62-2 | 3 | 0.000 | 0.10 | 0.02 | 0.8 | K7566 | MP✓ | VN Y CLAY GOUGE w 10-20% FLST FRAGS, STRONG MN, WEAK LIM COATING FX |
| 62-3 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7567 | MP✓ | W/R TMN SLABBY FX w BN CLAY, WEAK MN |
| 62-3 | 2 | 0.000 | 0.30 | 0.11 | 1.0 | K7568 | MP✓ | VN Y CLAY w FLST FRAGS, WEAK LIM |
| 62-3 | 3 | 0.000 | 0.03 | 0.00 | 1.0 | K7569 | MP✓ | W/R TMN WEAK FX w WEAK MN |
| 63-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7867 | HD✓ | W/R BAS |
| 63-2 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K7868 | HD✓ | VN MATL WEAK DR GOUGE, WEAK MN STNG |
| 63-2 | 3 | 0.000 | 0.01 | 0.00 | 1.0 | K7869 | HD✓ | VN MATL STRONG DR GOUGE, MN STNG |
| 63-2 | 4 | 0.000 | 0.04 | 0.00 | 1.0 | K7870 | HD✓ | W/R BAS |
| 64-1 | 1 | 0.000 | 0.06 | 0.00 | 0.0 | K7871 | HD✓ | GRAB SAMPLE/ DRUSY QZ, VUGGY STRNGRS IN HG VOLC MILKY WH, NO VISIBLE MINERALIZATION |
| 64-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7872 | HD✓ | W/R BAS |
| 64-2 | 2 | 0.000 | 0.04 | 0.04 | 0.5 | K7873 | HD | VN MOD LIM, MN STNG |
| 64-2 | 3 | 0.000 | 0.00 | 0.00 | 1.0 | K7874 | HD | W/R BAS |
| 64-3 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7574 | MP✓ | W/R TMN HIGH FX WEAK MN |
| 64-3 | 2 | 0.000 | 0.14 | 0.09 | 0.3 | K7575 | MP | VN FLST HIGH CLAY STRONG DISS & FX LIM |
| 64-3 | 3 | 0.000 | 0.03 | 0.00 | 1.0 | K7576 | MP✓ | W/R TMN FISSILE WEAK MN |
| 109-1 | 1 | 0.000 | 0.02 | 0.02 | 1.0 | K3779 | LL | MOD BLCHD MN LIM COATED W/R |
| 109-1 | 2 | 0.000 | 0.02 | 0.02 | 1.0 | K3780 | LL | HIGH BLCHD AMPH, MT -> CHL, HEM |
| 109-1 | 3 | 0.000 | 0.02 | 0.06 | 1.0 | K3781 | LL | V HIGH ALT RUBBLY CLAYEY BLCHD ROCK |
| 109-1 | 4 | 0.000 | 0.04 | 0.10 | 1.0 | K3782 | LL | V HIGH ALT RUBBLY CLAYEY BLCHD ROCK |
| 109-1 | 5 | 0.000 | 0.02 | 0.04 | 1.0 | K3783 | LL | MOD ALT MN STND SLICKENSIDED W/R |
| 109-1 | 6 | 0.000 | 0.04 | 0.01 | 1.0 | K3784 | LL✓ | MOD ALT COARSE BLOCKY MN COATED W/R |
| 200-1 | 1 | 0.000 | 0.40 | 0.03 | 1.0 | K7584 | MP✓ | W/R TMN FXD, FAIR MN & BN CLAY |
| 200-1 | 2 | 0.004 | 1.56 | 0.34 | 0.8 | K7585 | MP✓ | VN BN & Y-BN CLAY w 50% (1cm) FXG w HEAVY MN |
| 200-1 | 3 | 0.102 | 47.83 | 68.50 | 0.3 | K7586 | MP | VN 90% GAL, 2% ASP, 5% QZ, 5% BA & CAL |
| 200-1 | 4 | 0.003 | 0.84 | 0.74 | 1.0 | K7587 | MP | W/R TMN FXD w BN CLAY, FAIR MN |
| 200-2 | 1 | 0.005 | 0.02 | 0.00 | 1.0 | K7890 | HD✓ | W/R BAS, 2% DISS PY, MN STNG |
| 200-2 | 2 | 0.000 | 0.14 | 0.05 | 0.5 | K7891 | HD✓ | VN MATL MOD DR GOUGE, LIM MN STND VOLC |
| 200-2 | 3 | 0.006 | 0.18 | 0.11 | 1.0 | K7892 | HD | W/R VOLC MOD MN STNG |
| 401-2 | 1 | 0.044 | 4.46 | 3.02 | 1.0 | K3684 | LL | NORM W/R |
| 401-2 | 2 | 0.000 | 0.18 | 0.17 | 1.0 | K3685 | LL | BN-RK COARSE BANDED MN-STND APLITE-FLST QZ VN |
| 401-2 | 3 | 0.026 | 2.69 | 2.96 | 1.0 | K3686 | LL | ALT PPRY QZ VN |
| 401-2 | 4 | 0.008 | 2.02 | 2.14 | 1.0 | K3687 | LL | BN GOUGE w 5cm DIAM BLCHD RUBBLE |
| 401-2 | 5 | 0.012 | 6.96 | 3.14 | 1.0 | K3688 | LL✓ | BN GOUGE w 5cm DIAM BLCHD RUBBLE, 15cm QZ MN VN |
| 401-2 | 6 | 0.006 | 2.44 | 1.78 | 1.0 | K3689 | LL | LOW TO MOD ALT W/R |
| 401-2 | 7 | 0.003 | 0.66 | 0.51 | 1.0 | K3690 | LL | MOD TO HIGH ALT CLAYEY RUBBLE |
| 401-2 | 8 | 0.000 | 0.52 | 0.40 | 1.0 | K3691 | LL | MOD TO HIGH ALT CLAYEY RUBBLE |
| 401-2 | 9 | 0.003 | 0.10 | 0.13 | 1.0 | K3692 | LL | MOD TO HIGH ALT CLAYEY RUBBLE w 10cm Y SAND SEAM |
| 401-2 | 10 | 0.000 | 0.04 | 0.09 | 1.0 | K3693 | LL | BN CLAYEY FINE RUBBLE |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Sampl # | Mpr | Description of sample |
|-------|----|-------|-------|-------|-----|---------|-----|--|
| | | oz/T | oz/T | % | (m) | | | |
| 401-2 | 11 | 0.020 | 0.08 | 0.04 | 1.0 | K3694 | LL | BN CLAYEY FINE RUBBLE GRADING TO MSV VARICOLOURED CLAY |
| 401-2 | 12 | 0.006 | 0.03 | 0.03 | 1.0 | K3695 | LL | MSV VARICOLOURED CLAY SHARP BREAK NORM W/R |
| 401-3 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K3696 | LL✓ | GN-BR LOW ALT MN STND RUBBLE |
| 401-3 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K3697 | LL✓ | DR Y WH GN VN CLAY 30Z W/R RUBBLE |
| 401-3 | 3 | 0.000 | 0.02 | 0.01 | 1.0 | K3698 | LL | DR Y WH GN VN CLAY 50Z W/R RUBBLE |
| 401-3 | 4 | 0.000 | 0.04 | 0.01 | 1.0 | K3699 | LL✓ | DR Y WH GN VN CLAY 60Z W/R RUBBLE |
| 401-3 | 5 | 0.000 | 0.02 | 0.01 | 1.0 | K3700 | LL | DR Y WH GN VN CLAY 60Z W/R RUBBLE |
| 401-3 | 6 | 0.000 | 0.02 | 0.01 | 1.0 | K3701 | LL | DR Y WH GN VN CLAY 60Z W/R RUBBLE |
| 401-3 | 7 | 0.000 | 0.02 | 0.01 | 1.0 | K3702 | LL | DR Y WH GN VN CLAY 70Z W/R RUBBLE |
| 401-3 | 8 | 0.008 | 0.03 | 0.02 | 1.0 | K3703 | LL | DR Y SANDY CLAY w FIST SIZED VEIN FRAGS |
| 401-3 | 9 | 0.000 | 0.02 | 0.02 | 1.0 | K3704 | LL | BN-DK GN GRITTY BLOCKY LOW ALT RUBBLE |
| 401-3 | 10 | 0.000 | 0.02 | 0.00 | 1.0 | K3705 | LL✓ | LOW ALT GRADING TO NORM W/R |
| 403-1 | 1 | 0.000 | 0.01 | 0.02 | 1.0 | K3435 | LL | NORM W/R |
| 403-1 | 2 | 0.000 | 0.54 | 0.07 | 1.0 | K3436 | LL✓ | LOW ALT W/R QZ VN |
| 403-1 | 3 | 0.000 | 0.28 | 0.10 | 1.0 | K3437 | LL✓ | BLCHD W/R 10-30Z CLAY |
| 403-1 | 4 | 0.000 | 0.18 | 0.16 | 0.9 | K3438 | LL | BK-BN VN FRAGS 60Z CLAY |
| 403-1 | 5 | 0.000 | 0.01 | 0.11 | 1.1 | K3439 | LL | Y-BN GOUGE, CLAY VN MATL |
| 403-1 | 6 | 0.000 | 0.02 | 0.03 | 1.0 | K3440 | LL | Y-DR GRIT |
| 403-1 | 7 | 0.000 | 0.34 | 0.20 | 0.5 | K3441 | LL | Y-DR GOUGE w VN FRAGS |
| 403-2 | 1 | 0.000 | 0.02 | 0.04 | 1.0 | K3442 | LL | NORM W/R |
| 403-2 | 2 | 0.000 | 0.01 | 0.01 | 0.3 | K3443 | LL | BK RED MN ALT W/R |
| 403-2 | 3 | 0.000 | 0.14 | 0.08 | 1.1 | K3444 | LL | Y-BN CLAY GOUGE & VN FRAGS |
| 403-2 | 4 | 0.000 | 0.06 | 0.02 | 0.5 | K3445 | LL✓ | BN ALT W/R & 50Z BN CLAY |
| 403-2 | 6 | 0.000 | 0.08 | 0.03 | 1.0 | K3447 | LL✓ | NORM W/R |
| 403-2 | 7 | 0.000 | 0.12 | 0.11 | 1.1 | K3448 | LL | BK MN-COATED BLCHD W/R 40Z Y CLAY |
| 403-2 | 8 | 0.000 | 0.06 | 0.12 | 1.0 | K3449 | LL | BK MN COATED BLCHD W/R 40Z Y CLAY |
| 403-2 | 9 | 0.000 | 0.02 | 0.03 | 0.9 | K3450 | LL | BK MN-COATED BLCHD W/R |
| 403-2 | 10 | 0.000 | 0.03 | 0.01 | 1.0 | K3451 | LL✓ | RED CLAY GN GOUGE TO ALT W/R |
| 403-2 | 11 | 0.000 | 0.03 | 0.04 | 1.0 | K3452 | LL | NORM W/R |
| 406-1 | 1 | 0.000 | 0.68 | 0.27 | 0.5 | K7541 | MP✓ | BXD FLST STRONG LEACHING, WEAK LIM |
| 406-1 | 2 | 0.000 | 0.74 | 0.39 | 2.0 | K7542 | MP | FLST & BXD FLST, TR LIM |
| 406-1 | 3 | 0.000 | 0.16 | 0.11 | 2.0 | K7543 | MP | FLST & BXD FLST, TR LIM |
| 406-1 | 4 | 0.000 | 0.05 | 0.00 | 2.0 | K7544 | MP✓ | FLST & BXD FLST, TR LIM |
| 406-1 | 5 | 0.000 | 0.04 | 0.00 | 2.0 | K7545 | MP✓ | FLST & BXD FLST, TR LIM |
| 406-1 | 6 | 0.005 | 0.02 | 0.00 | 2.0 | K7546 | MP✓ | W/R TMN? STRONG LIM TO 3Z PY, TR CP |
| 406-1 | 7 | 0.000 | 0.01 | 0.00 | 2.0 | K7547 | MP✓ | W/R TMN? STRONG LIM TO 3Z PY, TR CP |
| 406-3 | 1 | 0.000 | 0.12 | 0.01 | 1.0 | K7548 | MP✓ | W/R TMN BLCHD 1Z PY |
| 406-3 | 2 | 0.018 | 0.08 | 0.02 | 1.5 | K7549 | MP✓ | BXD FLST, MINOR LIM, WEAK PY |
| 406-3 | 3 | 0.006 | 3.42 | 0.87 | 2.0 | K7550 | MP✓ | BXD FLST, MINOR LIM, WEAK PY |
| 406-3 | 4 | 0.024 | 5.16 | 0.74 | 1.0 | K7551 | MP✓ | BXD FLST, MINOR LIM, WEAK PY |
| 406-3 | 5 | 0.000 | 0.38 | 0.10 | 1.5 | K7552 | MP✓ | BXD FLST, MINOR LIM, WEAK PY |
| 406-3 | 6 | 0.000 | 0.04 | 0.02 | 1.5 | K7553 | MP | W/R TMN HIGH ALT, ABOVE AVERAGE LIM, MN |
| 406-3 | 7 | 0.000 | 0.02 | 0.01 | 1.0 | K7554 | MP | W/R TMN HIGH ALT, ABOVE AVERAGE LIM, MN |
| 407-1 | 1 | 0.004 | 1.04 | 0.49 | 1.0 | K7927 | HD✓ | W/R SIL VOLC, LIM STND, DISS PY 5-8Z |
| 407-1 | 2 | 0.028 | 8.26 | 2.14 | 1.0 | K7928 | HD✓ | VN MATL, FELSIC PPRY, STRONG LIM STNG, HIGH ARG ALT |
| 407-1 | 3 | 0.190 | 18.14 | 32.90 | 0.0 | K7929 | HD | GRAB SAMPLE/ DRUSY QZ, DISS PY 2Z, MSV GAL-YANG |
| 407-1 | 4 | 0.092 | 8.63 | 5.42 | 1.0 | K7930 | HD | VN MATL, FELSIC PPRY, STRONG LIM STNG, JAR |
| 407-1 | 5 | 0.006 | 0.24 | 0.30 | 1.0 | K7931 | HD | W/R SIL VOLC STRONG MN STNG, 8Z DISS PY |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Saap # | Mpr | Description of sample |
|-------|---|-------|------|------|-----|--------|-----|--|
| | | oz/T | oz/T | Z | (m) | | | |
| 407-2 | 1 | 0.178 | 0.24 | 0.16 | 0.0 | K7932 | HD | GRAB SAMPLE/ QZ VN MATL IN SIL FELSIC PPRY FS 2-4mm, JAR MN STND, DISS PY & GAL |
| 407-1 | 2 | 0.000 | 0.08 | 0.07 | 1.0 | K7933 | HD | VN MATL, STRONG LIM STNG, MN STNG, FELSIC PPRY, TOUR |
| 407-2 | 3 | 0.003 | 0.18 | 0.29 | 2.0 | K7934 | HD | VN, LIM STND |
| 407-2 | 4 | 0.000 | 0.38 | 0.01 | 1.0 | K7935 | HD✓ | SECOND BREAK DR GOUGE |
| 407-2 | 5 | 0.000 | 0.04 | 0.00 | 0.5 | K7936 | HD✓ | FLST PPRY, CHALKY MH w PY ANYG, HB HALDES 3-5mm |
| 407-2 | 6 | 0.010 | 0.40 | 0.05 | 1.0 | K7937 | HD✓ | W/R VOLC BX CLASTS 3-10mm |
| 407-3 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7938 | HD✓ | W/R VOLC BX, MN STND, HIGH ARG ALT |
| 407-3 | 2 | 0.000 | 0.02 | 0.00 | 2.0 | K7939 | HD✓ | VN, STRONGLY WEATH LIM STND |
| 407-3 | 3 | 0.000 | 0.01 | 0.00 | 2.0 | K7940 | HD✓ | VN STRONGLY WEATH LIM STND HEM STND |
| 407-3 | 4 | 0.000 | 0.02 | 0.02 | 1.0 | K7941 | HD | W/R VOLC BX, MN STND |
| 407-5 | 1 | 0.000 | 0.02 | 0.01 | 1.0 | K7942 | HD | W/R VOLC MN STND |
| 407-5 | 2 | 0.000 | 0.02 | 0.01 | 1.5 | K7943 | HD | VN LIM STND |
| 407-5 | 3 | 0.000 | 0.02 | 0.01 | 1.0 | K7944 | HD | W/R VOLC |
| 407-7 | 1 | 0.000 | 0.02 | 0.02 | 1.0 | K7945 | HD | W/R PPRC VOLC MN STND <1% DISS PY |
| 407-7 | 2 | 0.000 | 0.03 | 0.00 | 1.5 | K7946 | HD✓ | VN MOD LIM STNG, SOIL, MINOR QZ VN VUGGY, HEM STND |
| 407-7 | 3 | 0.000 | 0.01 | 0.03 | 1.0 | K7947 | HD | W/R PPRC VOLC |
| 408-1 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7948 | HD✓ | VN WEAK LIM, MN STNG |
| 408-2 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7949 | HD✓ | W/R VOLC MN STND, PPRC |
| 408-2 | 2 | 0.000 | 0.03 | 0.00 | 2.0 | K7950 | HD✓ | VN LIM STND, DR GOUGE, MOD ARG ALT |
| 408-2 | 3 | 0.000 | 0.03 | 0.00 | 1.0 | K7951 | HD✓ | W/R PPRC VOLC |
| 408-3 | 1 | 0.000 | 0.24 | 0.16 | 1.0 | K7952 | HD | W/R PPRC VOLC DISS PY |
| 408-4 | 1 | 0.000 | 0.06 | 0.02 | 1.0 | K7954 | HD✓ | W/R LOW ALT PPRC VOLC DISS PY STRONG MN STNG |
| 408-4 | 2 | 0.016 | 2.18 | 0.74 | 2.0 | K7955 | HD✓ | VN FLST PPRY, SIL, HIGH ARG ALT, DRUSY QZ 30%, DISS PY, JAR + LIM |
| 408-4 | 3 | 0.010 | 3.38 | 0.84 | 1.0 | K7956 | HD✓ | W/R LOW ARG ALT PPRC VOLC |
| 408-4 | 4 | 0.000 | 0.40 | 0.17 | 1.0 | K7957 | HD✓ | VN? V SIL VOLC MOD LIM & HEM STNG |
| 408-5 | 1 | 0.000 | 0.01 | 0.02 | 1.0 | K7958 | HD | W/R PPRC VOLC VESIC LOW-MOD ARG ALT DISS PY |
| 408-5 | 2 | 0.000 | 0.02 | 0.02 | 1.0 | K7959 | HD | VN DR GOUGE, MOD LIM STNG, JAR? LOW-MOD ARG ALT VOLC |
| 408-5 | 3 | 0.000 | 0.03 | 0.01 | 1.0 | K7960 | HD✓ | W/R PPRC VOLC SIL |
| 408-5 | 4 | 0.000 | 0.04 | 0.04 | 1.0 | K7961 | HD | W/R SIL PPRC VOLC, MN STNG |
| 408-5 | 5 | 0.000 | 0.02 | 0.00 | 3.0 | K7962 | HD✓ | VN DR GOUGE, LIM MN STND, MOD ARG ALT, BOXWORK |
| 408-5 | 6 | 0.000 | 0.08 | 0.13 | 1.0 | K7963 | HD | W/R PPRC VOLC |
| 408-6 | 1 | 0.003 | 0.18 | 0.32 | 1.0 | K7964 | HD | W/R PPRC VOLC 2-5% DISS PY LOW-MOD ARG ALT |
| 408-6 | 2 | 0.003 | 0.03 | 0.06 | 2.0 | K7965 | HD | VN HIGH ARG ALT OF PPRC VOLC, V SIL, TOUR, MN STND, JAR? |
| 408-6 | 3 | 0.000 | 0.03 | 0.02 | 2.0 | K7966 | HD | VN HIGH ARG ALT OF PPRC VOLC, V SIL, MN STND, JAR?, TOUR |
| 408-6 | 4 | 0.000 | 0.02 | 0.03 | 2.5 | K7967 | HD | VN HIGH ARG ALT OF PPRC VOLC, V SIL, TOUR, MN STND, JAR? |
| 408-6 | 5 | 0.000 | 0.10 | 0.12 | 1.0 | K7968 | HD | W/R PPRC VOLC MN & HEM STND, 5% DISS PY |
| 408-6 | 6 | 0.000 | 0.02 | 0.00 | 0.0 | K7969 | HD✓ | GRAB SAMPLE/ HIGH ARG ALT, JAR STND, TOUR, MOD LIM, ALTD PPRC VOLC |
| 408-7 | 1 | 0.000 | 0.04 | 0.01 | 1.0 | K7970 | HD✓ | W/R PPRC VOLC, 5-8% DISS PY, CP, BOXWORK |
| 408-7 | 2 | 0.000 | 0.05 | 0.00 | 2.0 | K7971 | HD✓ | VN STRONGLY WEATH, LIM MN STND, DISS HS, BOXWORK |
| 408-7 | 3 | 0.000 | 0.02 | 0.00 | 1.0 | K7972 | HD✓ | W/R PPRC VOLC FELSIC? |
| 409-1 | 1 | 0.000 | 0.10 | 0.00 | 1.0 | K8000 | HD✓ | W/R PPRC VOLC, MN STND, DISS HS, LIM |
| 409-1 | 2 | 0.000 | 0.06 | 0.08 | 1.0 | K7801 | HD | VN WEAK DR GOUGE, STRONG MN STNG |
| 409-1 | 3 | 0.000 | 0.06 | 0.02 | 1.0 | K7802 | HD✓ | VN WEAK DR GOUGE, STRONG MN & LIM STNG |
| 409-1 | 4 | 0.000 | 0.03 | 0.00 | 2.0 | K7803 | HD✓ | VN STRONG DR GOUGE |
| 409-1 | 5 | 0.000 | 0.02 | 0.00 | 1.5 | K7804 | HD✓ | W/R VOLC |
| 409-1 | 6 | 0.000 | 0.02 | 0.01 | 0.5 | K7805 | HD | VN DR GOUGE STRONG LIM STNG |
| 409-1 | 7 | 0.000 | 0.02 | 0.00 | 1.0 | K7806 | HD✓ | W/R PPRC VOLC |

LILYPAD 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Sample # | Mpr | Description of sample |
|--------|---|-------|------|------|-----|----------|-----|---|
| | | oz/T | oz/T | % | (m) | | | |
| 409-2 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7807 | HD✓ | W/R PPRC VOLC DISS PY <1% |
| 409-2 | 2 | 0.000 | 0.01 | 0.00 | 0.5 | K7808 | HD✓ | VN DR GOUGE, MN STND VOLC, VESIC |
| 409-2 | 3 | 0.000 | 0.01 | 0.01 | 1.0 | K7809 | HD | W/R PPRC VOLC |
| 409-2 | 4 | 0.000 | 0.04 | 0.01 | 1.0 | K7810 | HD✓ | VN STRONG DR GOUGE, STRONG MN STNG, MOD LIM STNG |
| 409-2 | 5 | 0.006 | 0.03 | 0.00 | 2.0 | K7811 | HD✓ | VN STRONG DR GOUGE, STRONG MN STNG, MOD LIM STNG |
| 409-2 | 6 | 0.000 | 0.02 | 0.02 | 1.0 | K7812 | HD | W/R PPRC VOLC |
| 409-3 | 1 | 0.000 | 0.03 | 0.00 | 1.0 | K7813 | HD✓ | VOLC V HIGH ARG ALT CHALKY WH |
| 409-3 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K7814 | HD✓ | W/R PPRC VOLC |
| 409-3 | 3 | 0.000 | 0.03 | 0.05 | 1.0 | K7815 | HD | VN STRONG DR GOUGE, MN STNG |
| 409-3 | 4 | 0.000 | 0.02 | 0.01 | 1.0 | K7816 | HD | W/R PPRC VOLC |
| 409-4 | 1 | 0.000 | 0.02 | 0.01 | 1.0 | K7817 | HD | W/R PPRC VOLC, <2% DISS PY |
| 409-4 | 2 | 0.000 | 0.03 | 0.01 | 0.3 | K7818 | HD✓ | VN STRONG DR GOUGE, STRONG LIM STNG, WEAK-MOD MN STNG |
| 409-4 | 3 | 0.000 | 0.02 | 0.03 | 1.0 | K7819 | HD | W/R PPRC VOLC |
| 409-4 | 4 | 0.000 | 0.04 | 0.09 | 2.5 | K7820 | HD | VN STRONG DR GOUGE, MOD MN STNG |
| 409-4 | 5 | 0.000 | 0.03 | 0.03 | 1.0 | K7821 | HD | W/R PPRC VOLC |
| 409-5 | 1 | 0.005 | 0.01 | 0.00 | 1.0 | K7822 | HD✓ | W/R PPRC VOLC 2-5% DISS PY |
| 409-5 | 2 | 0.000 | 0.04 | 0.01 | 2.0 | K7823 | HD✓ | VN DR GOUGE (MOD) STRONG MN STNG |
| 409-5 | 3 | 0.000 | 0.02 | 0.00 | 0.5 | K7824 | HD✓ | VN HIGH ARG ALT, Y-WH GOUGE |
| 409-5 | 4 | 0.000 | 0.00 | 0.00 | 0.5 | K7825 | HD | W/R PPRC VOLC |
| 409-5 | 5 | 0.000 | 0.02 | 0.00 | 1.0 | K7826 | HD✓ | VN STRONG DR GOUGE |
| 409-5 | 6 | 0.000 | 0.00 | 0.00 | 1.0 | K7827 | HD | W/R PPRC VOLC |
| 409-5 | 7 | 0.000 | 0.01 | 0.00 | 0.5 | K7828 | HD✓ | VN LT DR GOUGE, STRONG MN STNG, BOXWORK |
| 409-6 | 1 | 0.000 | 0.02 | 0.00 | 1.0 | K7829 | HD✓ | W/R PPRC VOLC 5% DISS PY, WEAK MN STNG |
| 409-6 | 2 | 0.000 | 0.01 | 0.00 | 1.0 | K7830 | HD✓ | VN WEAK DR GOUGE, STRONG MN STNG, MOD LIM STNG, HIGH ARG ALT OF FS PPRY |
| 409-6 | 3 | 0.000 | 0.00 | 0.00 | 2.0 | K7831 | HD | VN WEAK DR GOUGE, MN & LIM STNG, DISS PY & CP, MOD-HIGH ARG ALT |
| 409-6 | 4 | 0.000 | 0.01 | 0.00 | 1.0 | K7832 | HD✓ | W/R PPRC VOLC |
| 409-7 | 1 | 0.000 | 0.00 | 0.00 | 1.0 | K7833 | HD | W/R PPRC VOLC 2-5% DISS PY, WEAK MN STNG |
| 409-7 | 2 | 0.000 | 0.03 | 0.00 | 1.5 | K7834 | HD✓ | VN DR GOUGE, MN STNG, ARG ALT FS PPRY, 5-8% BOXWORK |
| 409-7 | 3 | 0.000 | 0.01 | 0.00 | 1.0 | K7835 | HD✓ | W/R PPRC VOLC WEAK MN STNG |
| 409-8 | 1 | 0.000 | 0.01 | 0.00 | 1.0 | K7836 | HD✓ | W/R GRANODIORITE <1% DISS PY WEAK LIM STNG |
| 409-8 | 2 | 0.005 | 0.32 | 0.16 | 1.0 | K7837 | HD | VN? STRONG MN-STND VOLC, FID |
| 409-8 | 3 | 0.000 | 0.10 | 0.06 | 0.5 | K7838 | HD | VN STRONG DR GOUGE, STRONG LIM STNG, LOW-MOD ARG ALT |
| 409-8 | 4 | 0.000 | 0.00 | 0.00 | 1.0 | K7839 | HD | VN? STRONG MN-STND VOLC |
| 409-8 | 5 | 0.000 | 0.00 | 0.01 | 2.0 | K7940 | HD | VN? WEAK MN-STND VOLC |
| 409-8 | 6 | 0.000 | 0.01 | 0.00 | 1.0 | K7941 | HD✓ | W/R PPRC VOLC |
| 409-10 | 1 | 0.000 | 0.00 | 0.00 | 1.0 | K7842 | HD | W/R GRANODIORITE DISS PY 5% |
| 409-10 | 2 | 0.000 | 0.01 | 0.01 | 1.0 | K7843 | HD | VN STRONG DR GOUGE, STRONG LIM STND FS PPRY |
| 409-10 | 3 | 0.000 | 0.00 | 0.02 | 1.0 | K7844 | HD | W/R THUMB SIZED VOLC FRAGS |
| 409-10 | 4 | 0.000 | 0.02 | 0.03 | 1.0 | K7845 | HD | W/R STRONG MN-STND VOLC, THUMB-SIZED FRAGS |
| 409-10 | 5 | 0.005 | 0.03 | 0.06 | 1.0 | K7846 | HD | VN STRONG DR GOUGE, STRONG LIM STND FS PPRY |
| 409-10 | 6 | 0.005 | 0.03 | 0.06 | 1.0 | K7847 | HD | W/R PPRC VOLC 5-8% DISS PY->LIM |

✓ Ag : Pb ≥ 2

APPENDIX III

10/15/81

LILY 1981 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Sample # | Apr | Description of sample |
|-------|----|-------|--------|-------|-----|----------|-----|---|
| | | oz/T | oz/T | Z | (m) | | | |
| 3-1 | 2 | 0.020 | 7.14 | 0.79 | 1.0 | K3733 | LL | BX QZ S/HEM VN IN ALT GOUGE |
| 10-1 | 26 | 0.008 | 4.48 | 0.57 | 2.0 | K3818 | LL | BLCHD VN FRAGS & FLST PPRY |
| 12-3 | 4 | 0.008 | 10.50 | 1.08 | 0.9 | K7523 | MP | VN FLST ANDS MOD ALT, CAL VN w MAL & AZ, QZ VN w PY & CP, DISS PY & CP 12 |
| 12-4 | 4 | 0.005 | 1.82 | 0.34 | 1.0 | K7507 | MP | VN FLST? Y-BN CLAY |
| 12-4 | 7 | 0.003 | 2.60 | 0.16 | 1.0 | K7510 | MP | FLST HIGH ALT BN CLAY, LIM & MN ON FX |
| 18-2 | 2 | 0.010 | 5.36 | 0.71 | 0.5 | K3659 | LL | COARSE BANDED DRUSY S/HEM QZ VN w 60% S/HEM |
| 18-2 | 4 | 0.006 | 1.22 | 0.00 | 0.9 | K3661 | LL | MN-STND BLCHD W/R TO LOW ALT W/R |
| 18-4 | 6 | 0.024 | 8.64 | 0.89 | 0.2 | K3674 | LL | BN DRUSY QZ OF 0.2m VN & CLAY SEAM 50% VN |
| 19-3 | 4 | 0.000 | 1.24 | 0.68 | 0.8 | K3403 | LL | WH PK CLAY w VN FRAGS |
| 19-3 | 5 | 0.000 | 2.18 | 0.97 | 0.6 | K3404 | LL | WH GRIT, WEATH VN MATL |
| 19-4 | 4 | 0.010 | 2.20 | 0.14 | 0.9 | K3410 | LL | WH-Y CLAY BN QZ VN FRAGS |
| 19-5 | 7 | 0.006 | 1.44 | 0.21 | 0.1 | K3419 | LL | BLCHD RUBBLE & RED/GN CLAY |
| 19-12 | 22 | 0.003 | 1.22 | 0.16 | 1.0 | K3652 | LL | QZ S/HEM VNS MOD TO HIGH ALT W/R MN LIM |
| 22-2 | 7 | 0.006 | 2.26 | 2.00 | 1.0 | K3723 | LL | GN LOW ALT W/R TO CRUMBLY HIGH ALT W/R |
| 22-2 | 8 | 0.030 | 10.28 | 5.00 | 0.4 | K3724 | LL | WH BN BK MSV DRUSY QZ VN, MINOR S/HEM, TR HS? |
| 22-2 | 9 | 0.008 | 2.26 | 1.70 | 1.0 | K3725 | LL | GN-BN GOUGE w RUBBLY W/R |
| 22-2 | 10 | 0.005 | 1.96 | 1.38 | 1.0 | K3726 | LL | GN-BN GOUGE w RUBBLY W/R |
| 23-2 | 1 | 0.010 | 11.18 | 4.62 | 0.5 | K7985 | HD | GRAB SAMPLE/ VUGGY QZ, JAR STNG, (<1% PY, GAL->ANS, SMALL FRAGS |
| 23-4 | 1 | 0.006 | 1.74 | 0.58 | 1.0 | K7993 | HD | BREAK MATL, OR GOUGE PROP VOLC, LIM STNG, WEAK ARG ALT |
| 30-1 | 2 | 0.000 | 1.04 | 0.10 | 1.0 | K7925 | HD | VN ARG ALT |
| 30-1 | 3 | 0.005 | 2.28 | 0.46 | 1.0 | K7926 | HD | VN |
| 30-4 | 1 | 0.006 | 10.12 | 0.44 | 1.0 | K7917 | HD | VN |
| 32-3 | 4 | 0.008 | 3.96 | 0.29 | 1.0 | K7912 | HD | VN |
| 32-4 | 2 | 0.008 | 2.72 | 2.34 | 1.0 | K7905 | HD | VN |
| 32-4 | 5 | 0.032 | 61.24 | 29.90 | 0.0 | K7908 | HD | GRAB SAMPLE/ |
| 33-2 | 2 | 0.003 | 1.32 | 0.16 | 0.3 | K7571 | MP | VN QZ MICROXL SUBARY FAIR-MOD LIM ON FX, OCC UP TO 3% PY & ASP? |
| 35-1 | 4 | 0.000 | 1.08 | 0.36 | 1.0 | K7580 | MP | W/R TMN HIGH FXD, MOD FX LIM, MN, SLABBY |
| 37-1 | 10 | 0.010 | 12.18 | 0.82 | 1.0 | K3539 | MP | VN Y CLAY, 25-40% QZ-BA w MINOR CHL, MAL & AZ |
| 37-1 | 11 | 0.010 | 2.52 | 0.43 | 1.1 | K3540 | MP | VN Y CLAY, 50-60% BA-QZ, FAIR MAL, AZ, POSSIBLY DISTURBED |
| 37-1 | 15 | 0.000 | 1.26 | 0.06 | 1.5 | K3544 | MP | VN Y-BN CLAY w 5% TMN FX w MN COATING |
| 37-1 | 16 | 0.000 | 2.86 | 0.13 | 1.0 | K3545 | MP | W/R TMN BLOCKY FX & CAL VNS |
| 37-2 | 2 | 0.000 | 8.34 | 4.06 | 0.4 | K3526 | MP | VN HIGH ALT CLAY |
| 37-3 | 2 | 0.000 | 2.94 | 1.06 | 1.0 | K3561 | MP | VN 1cm BA w GR & Y CLAY, FINE MN COATING FX |
| 37-4 | 1 | 0.024 | 244.52 | 36.80 | 0.0 | K3564 | MP | GRAB FLOAT/ QZ VN 10% GAL&ANG, 5%AZ>MAL |
| 37-5 | 1 | 0.000 | 1.46 | 0.04 | 1.0 | K3565 | MP | W/R TMN 5% PY & LIM ON FX |
| 37-5 | 12 | 0.004 | 2.84 | 2.20 | 1.0 | K3576 | MP | VN? BN CLAY |
| 38-1 | 2 | 0.010 | 96.54 | 62.30 | 0.3 | K3501 | MP | VN MSV GAL & ANG |
| 38-1 | 3 | 0.010 | 10.60 | 2.50 | 1.0 | K3502 | MP | VN ALT TMN MINOR GAL |
| 38-1 | 4 | 0.000 | 4.02 | 2.03 | 1.0 | K3503 | MP | W/R ALT TMN w PY & HS, MINOR GAL w QZ & MAL |
| 38-1 | 5 | 0.008 | 14.94 | 2.84 | 0.3 | K3504 | MP | VN Y GOUGE, CRUSHED TMN |
| 38-1 | 6 | 0.026 | 29.66 | 17.10 | 1.0 | K3505 | MP | VN ALT GOUSEY TMN, FAIR PDDY GAL |
| 38-3 | 3 | 0.000 | 1.14 | 0.36 | 1.3 | K3519 | MP | VN Y CRUMBLY QZ |
| 38-3 | 7 | 0.000 | 1.76 | 1.17 | 0.9 | K3523 | MP | VN TMN ALT 10-20% QZ, MINOR GAL |
| 39-1 | 1 | 0.005 | 1.50 | 0.01 | 0.1 | K7502 | MP | 5cm VUGGY QZ STRONG LIM BOXWORK |
| 40-1 | 3 | 0.022 | 70.06 | 63.90 | 0.0 | K3579 | MP | GRAB FLOAT/ 25% QZ VN 75% GAL |
| 200-1 | 2 | 0.004 | 1.56 | 0.34 | 0.8 | K7585 | MP | VN BN & Y-BN CLAY w 50% (<1cm FXG w HEAVY MN |
| 401-2 | 1 | 0.044 | 4.46 | 3.02 | 1.0 | K3684 | LL | NORM W/R |
| 401-2 | 5 | 0.012 | 6.96 | 3.14 | 1.0 | K3688 | LL | BN GOUGE w 5cm DIAM BLCHD RUBBLE, 15cm QZ MN VN |

Report of ~~the~~
REE NO. 00002
0/15/B1

Samples for Ag > 1 oz/T and Ag:Pb > 1.0

ILYF 981 TRENCHING / NAT JOINT VENTURE

| RR | # | Au | Ag | Pb | Mid | Samp | # | Mpr | Description of sample |
|-------|---|-------|------|------|-----|-------|----|-----|---|
| | | oz/T | oz/T | z | (#) | | | | |
| 101-2 | 6 | 0.006 | 2.44 | 1.78 | 1.0 | K3689 | LL | | LOW TO MOD ALT W/R |
| 106-3 | 3 | 0.006 | 3.42 | 0.87 | 2.0 | K7550 | MP | | BXD FLST, MINOR LIM, WEAK PY |
| 106-3 | 4 | 0.024 | 5.16 | 0.74 | 1.0 | K7551 | MP | | BXD FLST, MINOR LIM, WEAK PY |
| 107-1 | 1 | 0.004 | 1.04 | 0.49 | 1.0 | K7927 | HD | | W/R SIL VOLC, LIM STND, DISS PY 5-BZ |
| 107-1 | 2 | 0.028 | 8.26 | 2.14 | 1.0 | K7928 | HD | | VN MATL, FELSIC PPRY, STRONG LIM STNG, HIGH ARG ALT |
| 107-1 | 4 | 0.092 | 8.63 | 5.42 | 1.0 | K7930 | HD | | VN MATL, FELSIC PPRY, STRONG LIM STNG, JAR |
| 108-4 | 2 | 0.016 | 2.18 | 0.74 | 2.0 | K7955 | HD | | VN FLST PPRY, SIL, HIGH ARG ALT, DRUSY QZ 30Z, DISS PY, JAR + LIM |
| 108-4 | 3 | 0.010 | 3.38 | 0.84 | 1.0 | K7956 | HD | | W/R LOW ARG ALT PPRC VOLC |

10/15/81

LIL' 1921 TRENCHING / NAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Wid | Samp # | Mpr | Description of sample |
|-------|---|-------|--------|-------|-----|--------|-----|--|
| | | oz/T | oz/T | % | (m) | | | |
| 3-1 | 3 | 0.030 | 0.30 | 0.16 | 0.7 | K3734 | LL | BX QZ S/HEM VN IN ALT GOUGE |
| 7-1 | 3 | 0.026 | 0.92 | 0.84 | 0.6 | K3739 | LL | Y-BN CLAYEY GRIT w THUMB-SIZED VN FRAGS |
| 7-1 | 4 | 0.028 | 25.74 | 79.10 | 0.2 | K3740 | LL | MSV GAL w MINOR BOXWORK QZ VN IN JAR/MAL COATING |
| 7-1 | 5 | 0.202 | 8.42 | 28.30 | 0.3 | K3741 | LL | BOXWORK QZ VN w 10-20% GAL, JAR, MAL, AZ, DISS PY |
| 7-1 | 6 | 0.048 | 0.82 | 1.87 | 0.3 | K3742 | LL | HIGH ALT WEATH BLCHD CRUMBLY VN RUBBLE |
| 7-2 | 5 | 0.024 | 0.82 | 1.84 | 0.6 | K3750 | LL | Y-OR CLAY-GOUGE w MINOR VN FRAGS |
| 7-2 | 6 | 0.148 | 1.83 | 4.59 | 1.2 | K3751 | LL | VN ZONE QZ TOUR RECEMENTED QZ VN BX |
| 7-3 | 3 | 0.036 | 0.24 | 0.49 | 0.6 | K3757 | LL | HIGH ALT BLCHD RUBBLY W/R |
| 7-4 | 4 | 0.042 | 9.50 | 31.80 | 0.3 | K3764 | LL | RED MOD DRUSY COARSE-BANDED QZ VN & 30-40% GAL |
| 7-4 | 5 | 0.026 | 1.22 | 4.06 | 0.9 | K3765 | LL | WH TD PALE-Y FLST DYKE |
| 7-5 | 6 | 0.028 | 0.14 | 0.47 | 1.0 | K3775 | LL | HIGH BLCHD CRUMBLY MN-STND W/R |
| 18-4 | 6 | 0.024 | 8.64 | 0.89 | 0.2 | K3674 | LL | BN DRUSY QZ OF 0.2m VN & CLAY SEAM 50% VN |
| 22-2 | 8 | 0.030 | 10.28 | 5.00 | 0.4 | K3724 | LL | WH BN BK MSV DRUSY QZ VN, MINOR S/HEM, TR HS? |
| 32-2 | 2 | 0.030 | 8.60 | 21.00 | 0.0 | K7915 | HD | GRAB SAMPLE/ |
| 32-4 | 5 | 0.032 | 61.24 | 29.90 | 0.0 | K7908 | HD | GRAB SAMPLE/ |
| 34-1 | 1 | 0.032 | 24.96 | 54.00 | 0.0 | K7588 | MP | GRAB FLOAT/ 90% ANG, 10% QZ |
| 37-4 | 1 | 0.024 | 244.32 | 36.80 | 0.0 | K3564 | MP | GRAB FLOAT/ QZ VN 10% GAL&ANG, 5%AZ>MAL |
| 38-1 | 6 | 0.026 | 29.66 | 17.10 | 1.0 | K3505 | MP | VN ALT GOUGEY TMN, FAIR PDDY GAL |
| 38-3 | 2 | 0.106 | 0.74 | 0.14 | 1.0 | K3518 | MP | W/R TMN FRESH UP TO 5% VNLET HS |
| 40- | 3 | 0.022 | 70.06 | 63.90 | 0.0 | K3579 | MP | GRAB FLOAT/ 25% QZ VN 75% GAL |
| 200-1 | 3 | 0.102 | 47.83 | 68.50 | 0.3 | K7586 | MP | VN 90% GAL, 2% ASP, 5% QZ, 5% BA & CAL |
| 401-2 | 1 | 0.044 | 4.46 | 3.02 | 1.0 | K3684 | LL | NORM W/R |
| 401-2 | 3 | 0.026 | 2.68 | 2.96 | 1.0 | K3686 | LL | ALT PPRY QZ VN |
| 406-3 | 4 | 0.024 | 5.16 | 0.74 | 1.0 | K7551 | MP | BXD FLST, MINOR LIM, WEAK PY |
| 407-1 | 2 | 0.028 | 8.26 | 2.14 | 1.0 | K7928 | HD | VN MATL, FELSIC PPRY, STRONG LIM STNG, HIGH ARG ALT |
| 407-1 | 3 | 0.190 | 18.14 | 32.90 | 0.0 | K7929 | HD | GRAB SAMPLE/ DRUSY QZ, DISS PY 2Z, MSV GAL->ANG |
| 407-1 | 4 | 0.092 | 8.63 | 5.42 | 1.0 | K7930 | HD | VN MATL, FELSIC PPRY, STRONG LIM STNG, JAR |
| 407-2 | 1 | 0.178 | 0.24 | 0.16 | 0.0 | K7932 | HD | GRAB SAMPLE/ QZ VN MATL IN SIL FELSIC PPRY FS 2-4mm, JAR MN STND, DISS PY & GAL |

LILYPAD 1981 TRENCHING / MAT JOINT VENTURE

| TR# | # | Au | Ag | Pb | Mid | Samp # | Mpr | Description of sample |
|-------|----|-------|-------|-------|-----|--------|-----|---|
| | | oz/T | oz/T | % | (a) | | | |
| 7-1 | 4 | 0.028 | 25.74 | 79.10 | 0.2 | K3740 | LL | MSV GAL w MINOR BOXWORK QZ VN IN JAR/MAL COATING |
| 7-1 | 5 | 0.202 | 8.42 | 28.30 | 0.3 | K3741 | LL | BOXWORK QZ VN w 10-20% GAL, JAR, MAL, AZ, DISS PY |
| 7-2 | 6 | 0.148 | 1.83 | 4.59 | 1.2 | K3751 | LL | VN ZONE QZ TOUR RECEMENTED QZ VN BX |
| 7-4 | 4 | 0.042 | 9.50 | 31.80 | 0.3 | K3764 | LL | RED MOD DRUSY COARSE-BANDED QZ VN & 30-40% GAL |
| 12-3 | 4 | 0.008 | 10.50 | 1.08 | 0.9 | K7523 | MP | VN FLST ANDS MOD ALT, CAL VN w MAL & AZ, QZ VN w PY & CP, DISS PY & CP 1% |
| 18-4 | 6 | 0.024 | 8.64 | 0.89 | 0.2 | K3674 | LL | BN DRUSY QZ DF 0.2% VN & CLAY SEAM 50% VN |
| 22-2 | 8 | 0.030 | 10.28 | 5.00 | 0.4 | K3724 | LL | WH BN BK MSV DRUSY QZ VN, MINOR S/HEM, TR HS? |
| 23-2 | 1 | 0.010 | 11.18 | 4.62 | 0.5 | K7985 | HO | GRAB SAMPLE/ VUGGY QZ, JAR STNG, <1% PY, GAL->ANG, SMALL FRAGS |
| 30-4 | 1 | 0.006 | 10.12 | 0.44 | 1.0 | K7917 | HO | VN |
| 37-1 | 10 | 0.010 | 12.18 | 0.82 | 1.0 | K3539 | MP | VN Y CLAY, 25-40% QZ-BA w MINOR CHL, MAL & AZ |
| 37-2 | 3 | 0.006 | 33.64 | 73.90 | 0.2 | K3527 | MP | VN 10-20% CLAY IN QZ VN |
| 37-5 | 11 | 0.008 | 25.20 | 37.10 | 0.1 | K3575 | MP | VN (4cm) QZ + 30% GAL |
| 38-1 | 2 | 0.010 | 96.54 | 62.30 | 0.3 | K3501 | MP | VN MSV GAL & ANG |
| 38-1 | 3 | 0.010 | 10.60 | 2.50 | 1.0 | K3502 | MP | VN ALT TMN MINOR GAL |
| 38-1 | 5 | 0.008 | 14.94 | 2.84 | 0.3 | K3504 | MP | VN Y BOUSE, CRUSHED TMN |
| 38-1 | 6 | 0.026 | 29.66 | 17.10 | 1.0 | K3505 | MP | VN ALT BOUSEY TMN, FAIR PODDY GAL |
| 38-3 | 6 | 0.008 | 26.30 | 48.70 | 0.4 | K3522 | MP | VN 50% GAL 50% QZ |
| 200-1 | 3 | 0.102 | 47.83 | 68.50 | 0.3 | K7586 | MP | VN 90% GAL, 2% ASP, 5% QZ, 5% BA & CAL |
| 407-1 | 4 | 0.092 | 8.63 | 5.42 | 1.0 | K7930 | HO | VN MATL, FELSIC PPRY, STRONG LIM STNG, JAR |

APPENDIX IV

PERSONNEL

| <u>Name</u> | <u>Address</u> | <u>Period of Employment</u> |
|--------------------|---|-----------------------------|
| E. Onasick | 3 - 2859 W. Broadway Ave., Vancouver, B.C. | 4 June - 30 Aug., 1981 |
| H. Oiye | 107 - 1730 Chesterfield St., North Vancouver, B.C. | 31 May - 26 Aug., 1981 |
| L. Lindinger | 5 - 1940 Arbutus St., Vancouver, B.C. | 1 June - 2 Sept., 1981 |
| J. Robertson | 2421 Royal Ave., Saskatoon, Sask. | 3 June - 27 Aug., 1981 |
| B. Jenkins | General Delivery, Shoal Lake, Man. | 10 June - 30 Aug., 1981 |
| B. Goldbeck | 2034 Townline Rd., Abbotsford, B.C. | 6 June - 22 Aug., 1981 |
| M. Phillips | Box 4127, Whitehorse, Y.T. | 20 July - 30 Aug., 1981 |
| M. Trudzik | Box 93, Mayerthorpe, Alta. | 10 June - 31 July, 1981 |
| D. Charters | 9694 Ardmore Dr., Sydney, B.C. | 10 - 13 June, 1981 |
| D. Heberlein | 4639 W. 9th Ave., Vancouver, B.C. | 13 - 22 Aug., 1981 |
| J. Duke | Box 4801, Whitehorse, Y.T. | 7 - 27 Aug., 1981 |
| D. Eaton | 6108 Burns St., Burnaby, B.C. | 31 May - 4 June, 1981 |
| D. Tempelman-Kluit | 15 Sunset Blvd., Whitehorse, Y.T. | 21 - 23 Aug., 1981 |

APPENDIX V

TECHNIQUES OF GEOCHEMICAL ANALYSIS

Analysis techniques used in 1981 included geochemical and fire assay methods, the latter used mainly for rock specimens with visible mineralization. After screening to -35 mesh and pulverizing to -80 mesh for silts and soils, or crushing and screening to -80 mesh for rocks, samples were analyzed for gold by the "combo" method, silver and lead by nitric-perchloric extraction followed by Atomic Absorption, and arsenic by the hydride vapour technique. The combo method for gold is concentration by fire assay followed by measurement with either Neutron Activation Analysis (1 ppb detection) or Atomic Absorption (5 ppb detection). Most of NAT's 1981 analysis used the more sensitive detection limit.

Bulk trench samples at the Lilypad property were analyzed for gold and silver in ounces per ton by fire assay, and lead by percent assay.

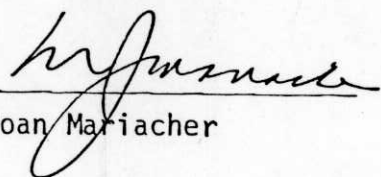
1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8



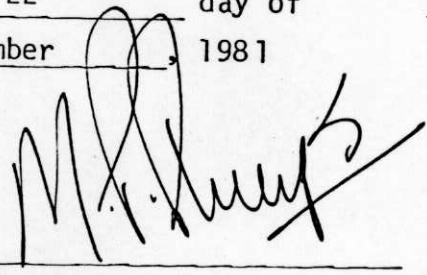
AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Y.T. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Lilypad 1-429, Newt 1-132 & 135-163 mineral claims on Claim Sheet 115I/5 & 115J/8 is accurate.


Joan Mariacher

Sworn before me at Whitehorse, Y.T.
this 22 day of
September, 1981



Notary, Yukon Territory

Statement I

Statement of Expenditures
Surveying, Air Photography,
Geochemical Sampling and Geological Mapping
Lilypad 1-429; Newt 1-132, 135-163 Cls.

Management

Archer, Cathro & Associates (1981) Limited \$ 7,000.00

Labour

| | | |
|--|-----------------|-----------|
| E. Onasick (crew chief) - 26 days at \$220/day | \$ 5,720.00 | |
| H. Oiye (geologist) - 29 days at \$162/day | 4,698.00 | |
| L. Lindinger (geologist) - 49 days at \$162/day | 7,938.00 | |
| J. Robertson (student) - 25 days at \$101/day | 2,525.00 | |
| B. Jenkins (student) - 31 days at \$89/day | 2,759.00 | |
| M. Trudzik (student) - 27 days at \$86/day | 2,322.00 | |
| B. Goldbeck (surveyor) - 45 days at \$95/day | 4,275.00 | |
| J. Duke (student) - 13 days at \$95/day | 1,235.00 | |
| D. Charters (student) - 3 days at \$86/day | 258.00 | |
| D. Eaton (geologist) - 4 days at \$230/day | 920.00 | |
| D. Heberlein (geologist) - 10 days at \$137/day | <u>1,370.00</u> | 34,020.00 |

Expenses

| | | |
|--|-----------------|---------------------|
| Room and board - 262 crew days, 27 days management personnel, 50 days helicopter crew; total 339 mandays at \$40/day | 13,560.00 | |
| Helicopter - contract Hughes 500C from TNTA - total 172.8 hours at \$350/hr | 60,480.00 | |
| Helicopter fuel - 172.8 hours at 22gal/hr at \$3.80/gal at Bow Camp | 14,446.00 | |
| Assaying, Chemex Labs Ltd. - 1384 geochemical assays for Pb, As, Au & Ag at \$10.40 each | 14,393.00 | |
| Hosford, Impey & Welter - | | |
| 1. Surveys | 9,572.00 | |
| 2. Air photography | <u>4,601.00</u> | <u>117,052.00</u> |
| Total | | <u>\$158,072.00</u> |

Statement II

Statement of Expenditures
Bulldozer Trenching, Road, Camp & Airstrip Construction
Trench Mapping & Sampling
Lilypad 1-429; Newt 1-132, 135-163

Management

Archer, Cathro & Associates (1981) Limited \$ 3,000.00

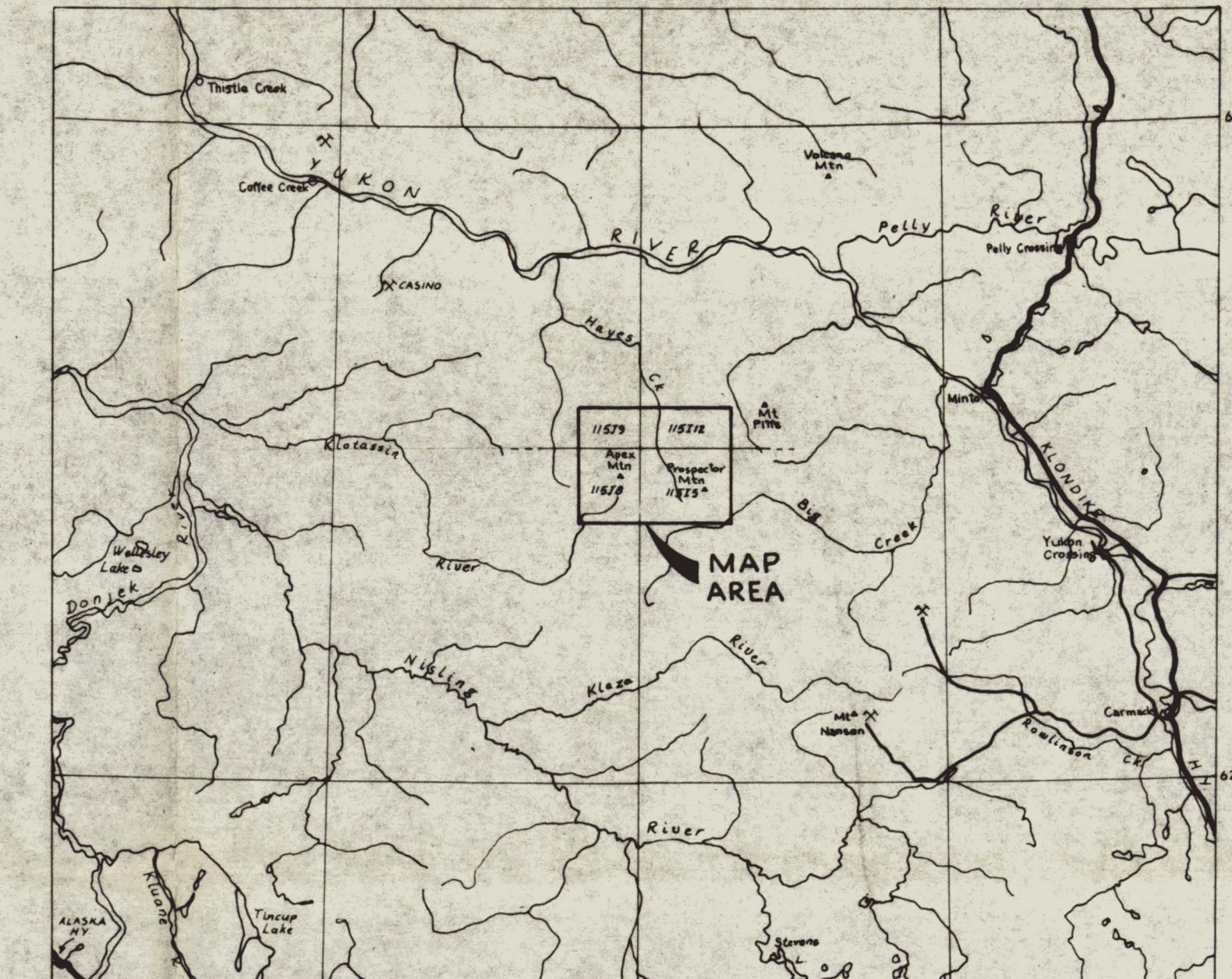
Labour

M.P. Phillips (geologist) - 31 1/2 days at \$250/day \$ 7,875.00
J. Duke (student) - 30 days at \$95/day 2,850.00
L. Lindinger (geologist) - 6 days at \$162/day 972.00 11,697.00

Expenses

Bulldozing - J-Nor Enterprises - 464 hours
at \$75/hr 34,800.00
Bulldozer fuel - 464 hours at 6 gal/hr at
\$3.70/gal 10,300.00
Helicopter support - bulldozer repair etc. -
18.9 hours TNTA Hughes 500C at \$350/hr
plus 22 gal/hr fuel at \$3.80/hr 8,195.00
Helicopter support - TNTA Hughes 500C 4.2 hours
at \$350/hr plus 22 gal/hr fuel at \$3.80/gal 1,821.00
Bell 206B casual rates plus fuel 1,265.00
Trench samples - 706 samples assayed for Pb, Ag,
& Au - Chemex Labs Ltd. at \$13.60 each 9,601.00 65,982.00

Total \$80,679.00



LOCATION MAP
SCALE 1:100,000

LEGEND

- area covered by figures N23 & N25
- claim boundary
- soil samples (Au ppb, As ppm)
- silt samples (Au ppb, As ppm)
- rock samples (Au ppb, As ppm)
- trace
- ounces per ton
- greater than 10,000

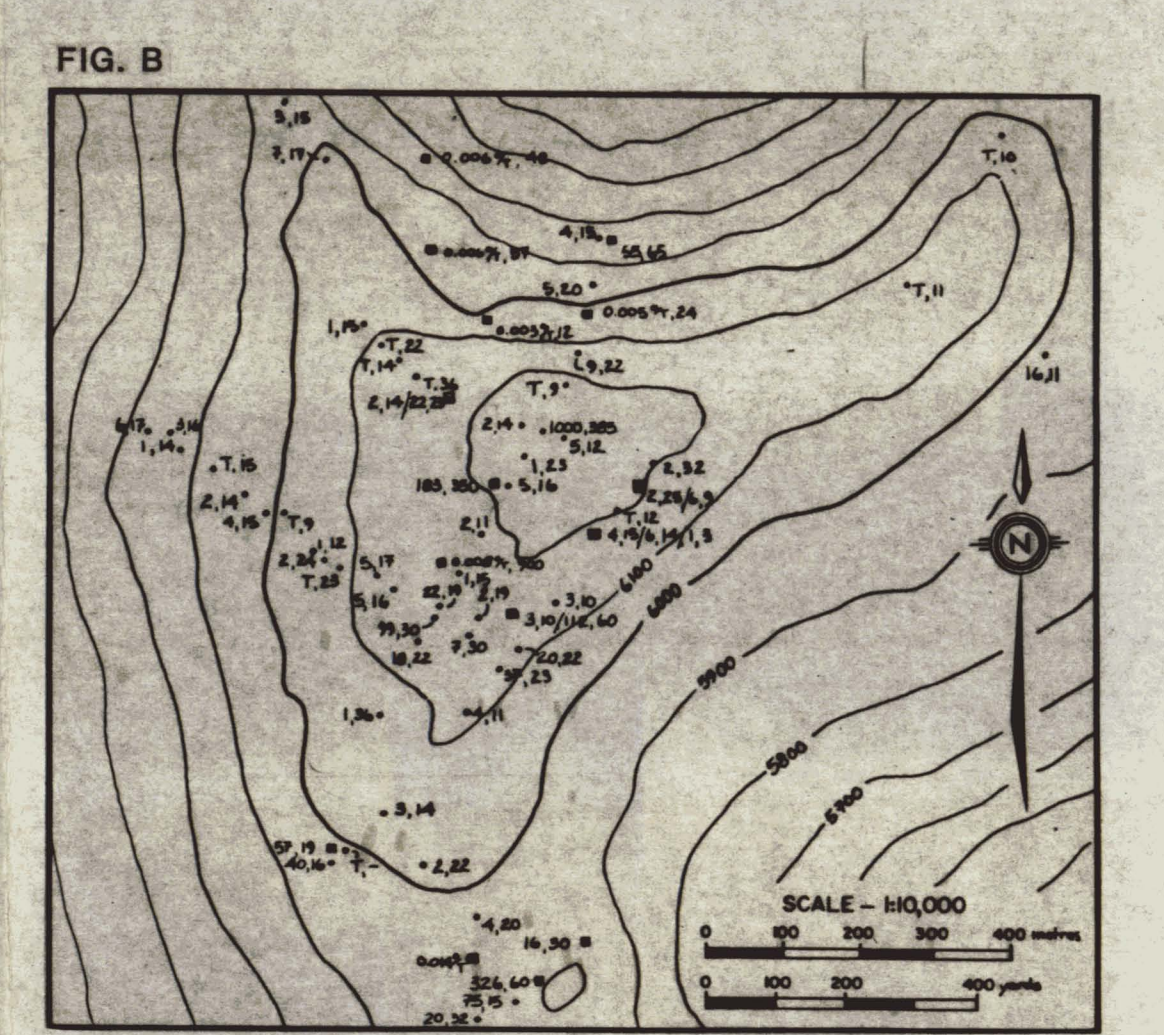
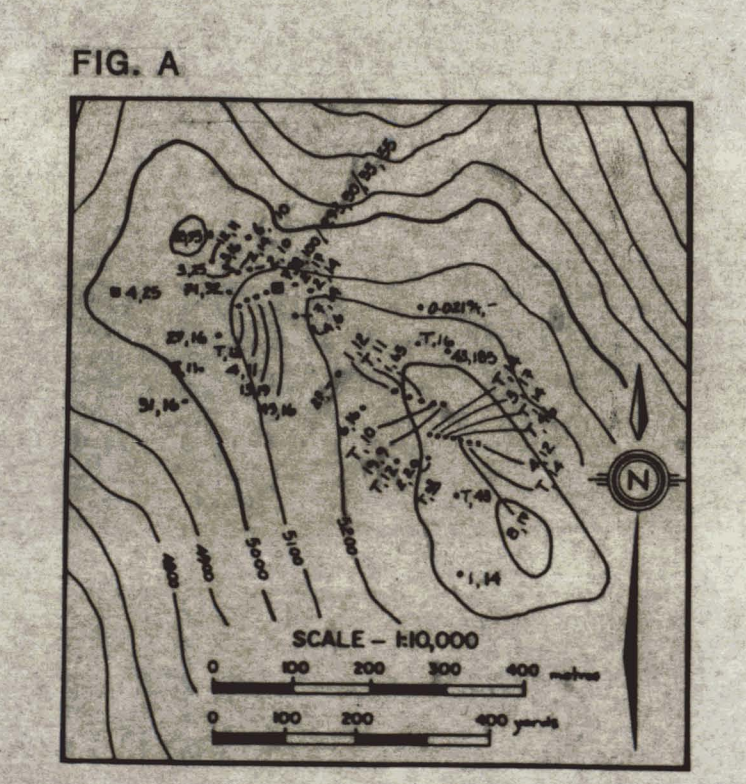
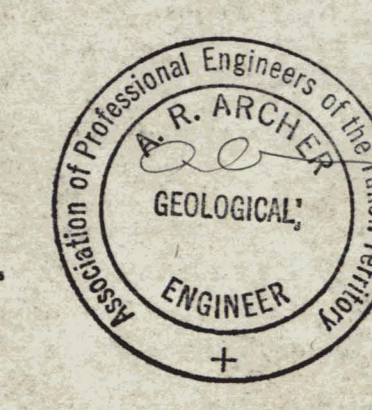
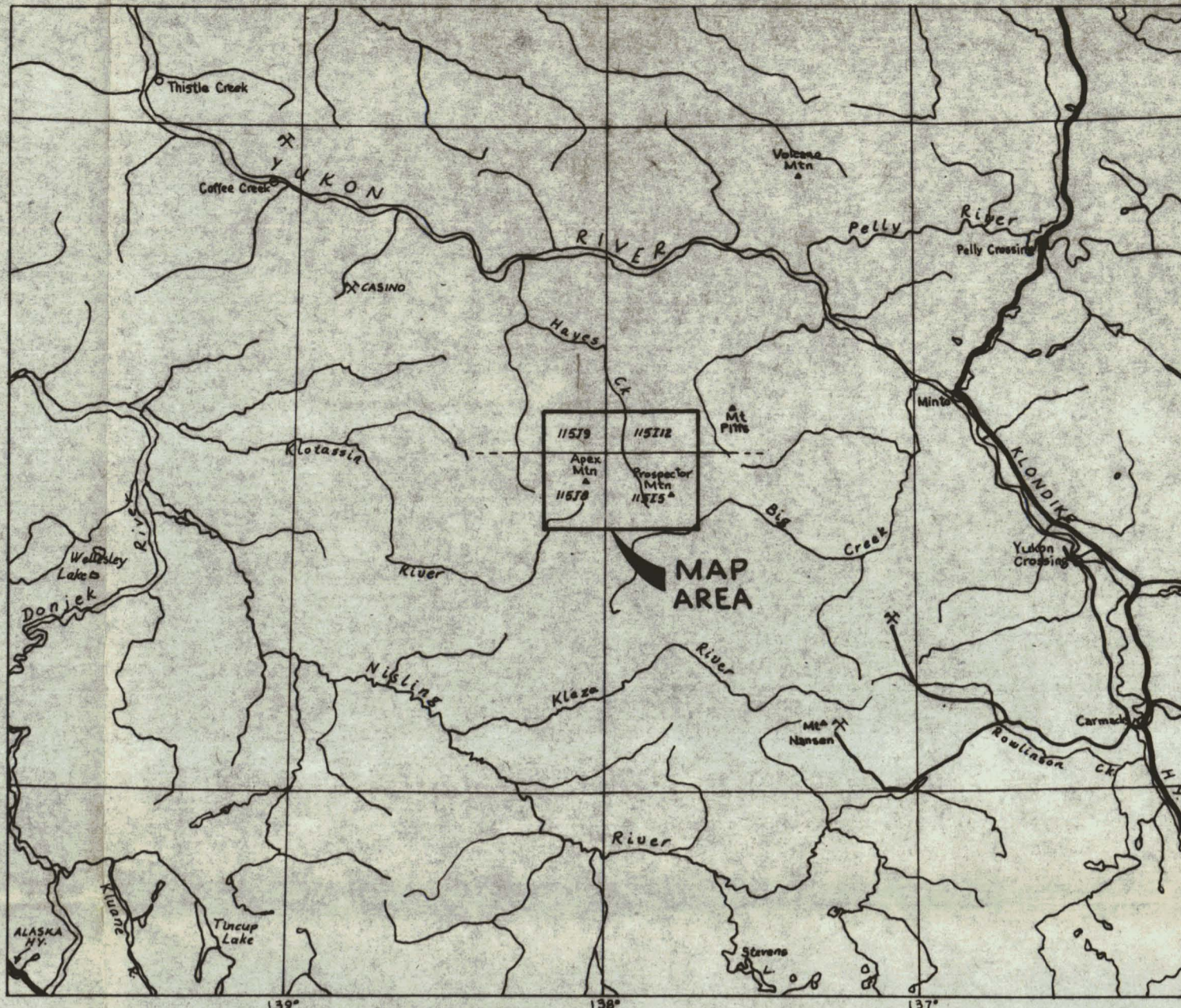
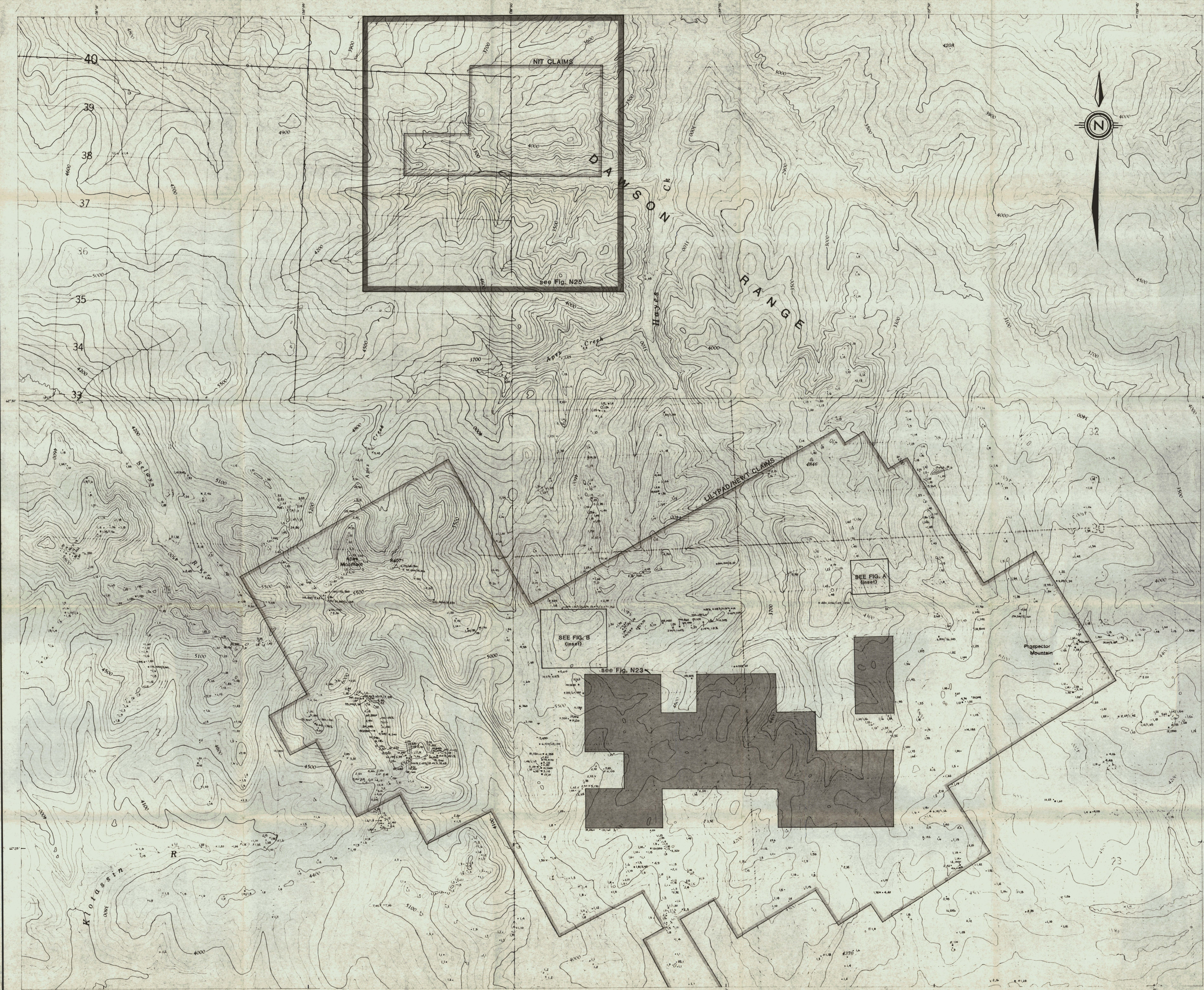


FIGURE N7D
ARCHER, CATHRO & ASSOCIATES (1983) LTD

Au & As GEOCHEMISTRY
HAYES CREEK AREA
NAT JOINT VENTURE
SCALE 1:25,000





LOCATION MAP
SCALE 1:100,000

LEGEND

- area covered by figures N23 & N25
- claim boundary
- soil samples (Ag x 10 ppm, Pb ppm)
- rock samples
- trace
- ounces per ton
- greater than 10,000

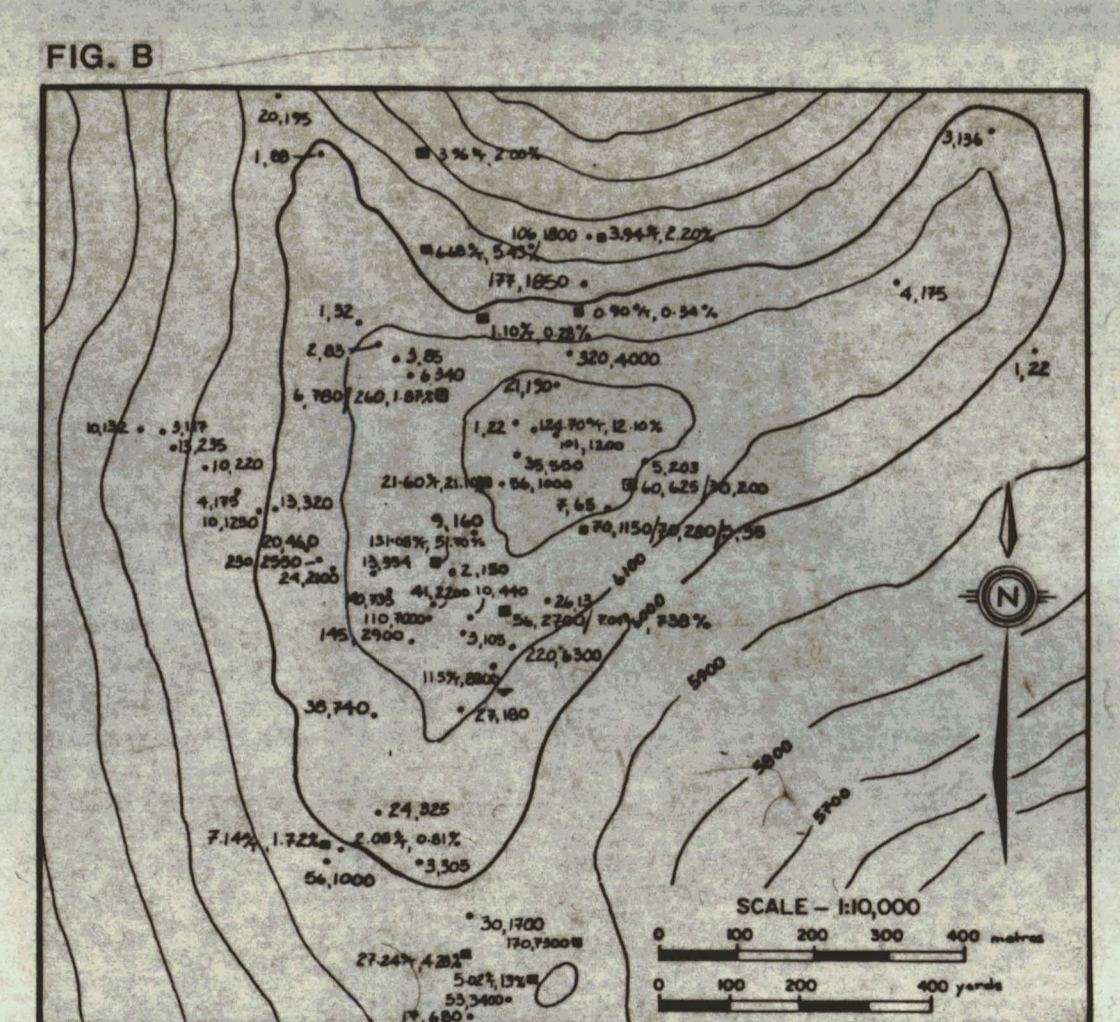
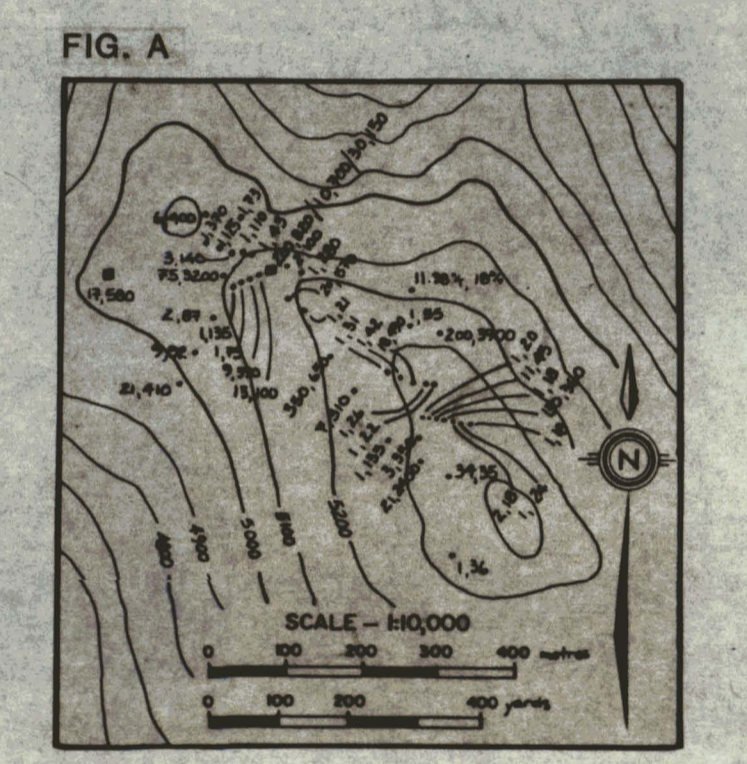
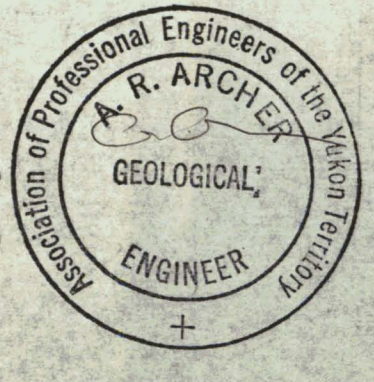
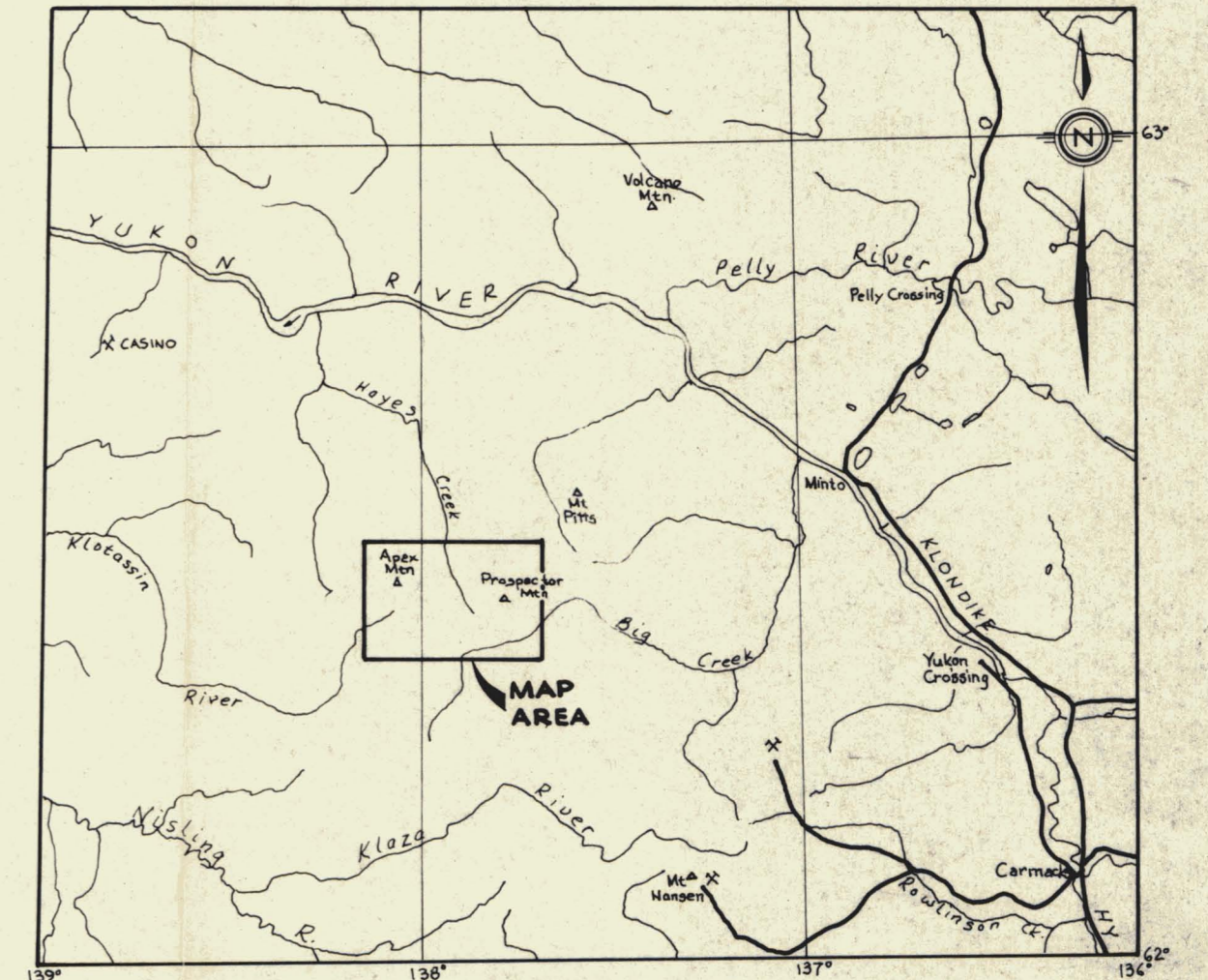
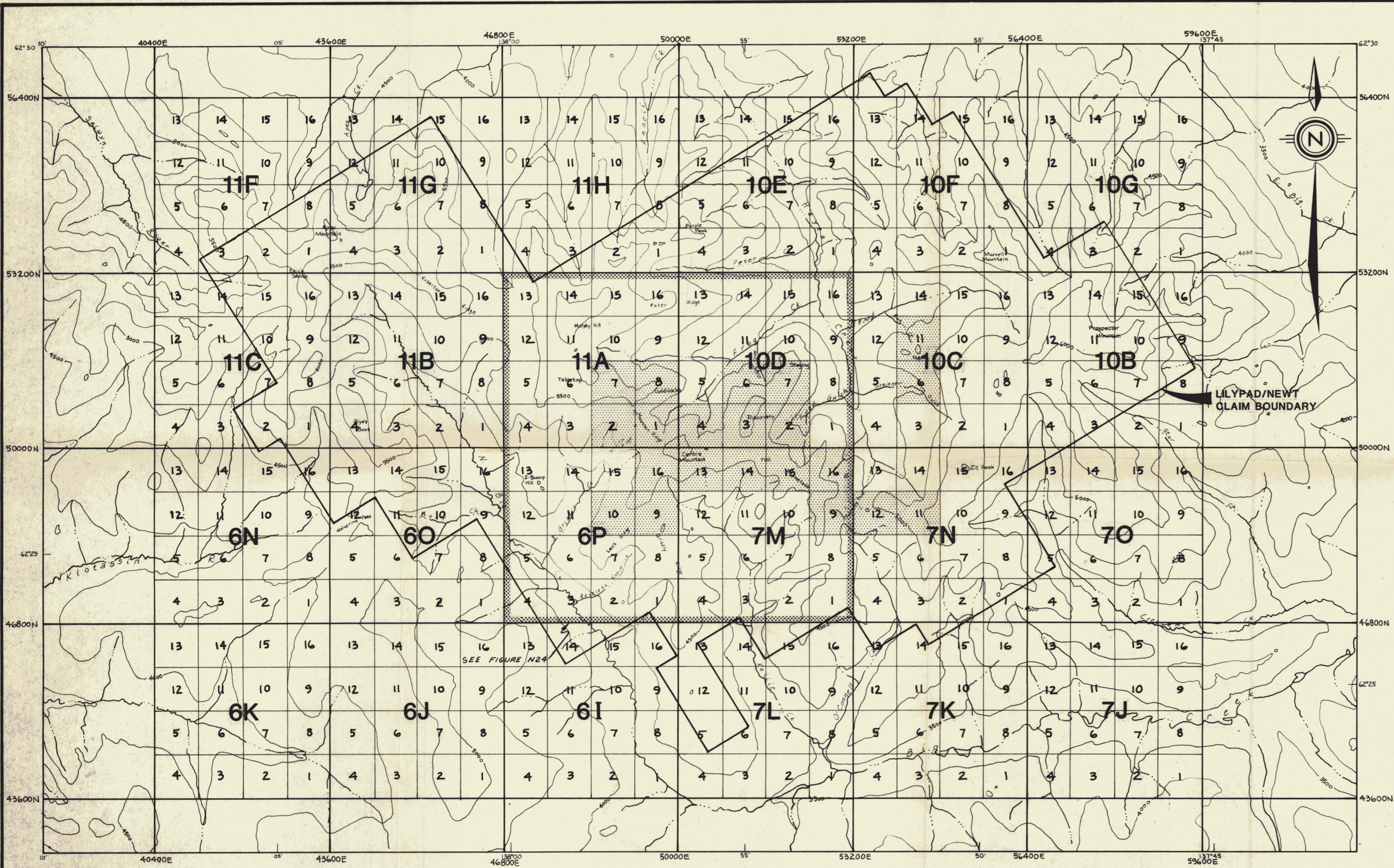


FIGURE N25
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
Ag & Pb GEOCHEMISTRY
HAYES CREEK AREA
NAT JOINT VENTURE
SCALE 1:25,000





LOCATION MAP
SCALE 1:1000000

0 5 10 20 30 40 50 Km
0 5 10 20 Miles

LEGEND:

| | | | |
|-------|-------|-------|-------|
| GP/13 | GP/14 | GP/15 | GP/16 |
| ↑ | | | |
| GP/12 | GP/11 | GP/10 | GP/9 |
| | | ↑ | |
| GP/5 | GP/6 | GP/7 | GP/8 |
| ↑ | | | |
| GP/4 | GP/3 | GP/2 | GP/1 |

GP/10 REPRESENTS 1:1000 SCALE MAP SIZE = 800 X 800 METRES (SEE FIGURE N23: SERIES)

GP REPRESENTS 1:4000 SCALE MAP SIZE = 3200 X 3200 METRES (SEE FIGURE N22: SERIES)

(6) REPRESENTS 1:16000 SCALE MAP (NOT USED)

ORGANIZATION IS ANALOGOUS TO THE GOVERNMENT N.T.S. SYSTEM AND IS SIMILAR AT EACH SCALE.

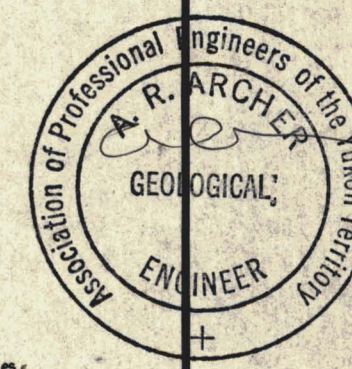
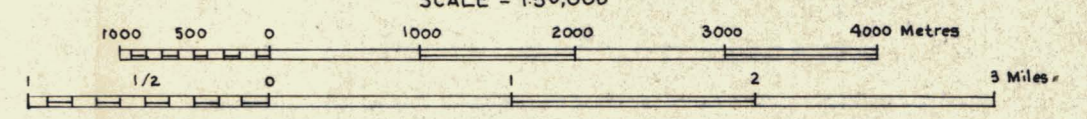
THE GRID SYSTEM IS ORTHOGONAL (TRUE NORTH-SOUTH AND EAST-WEST) ABOUT COORDINATES 50000 N / 50000 E AT CENTRE MOUNTAIN, AND EXTENDS 25.6 KILOMETRES IN EACH DIRECTION.

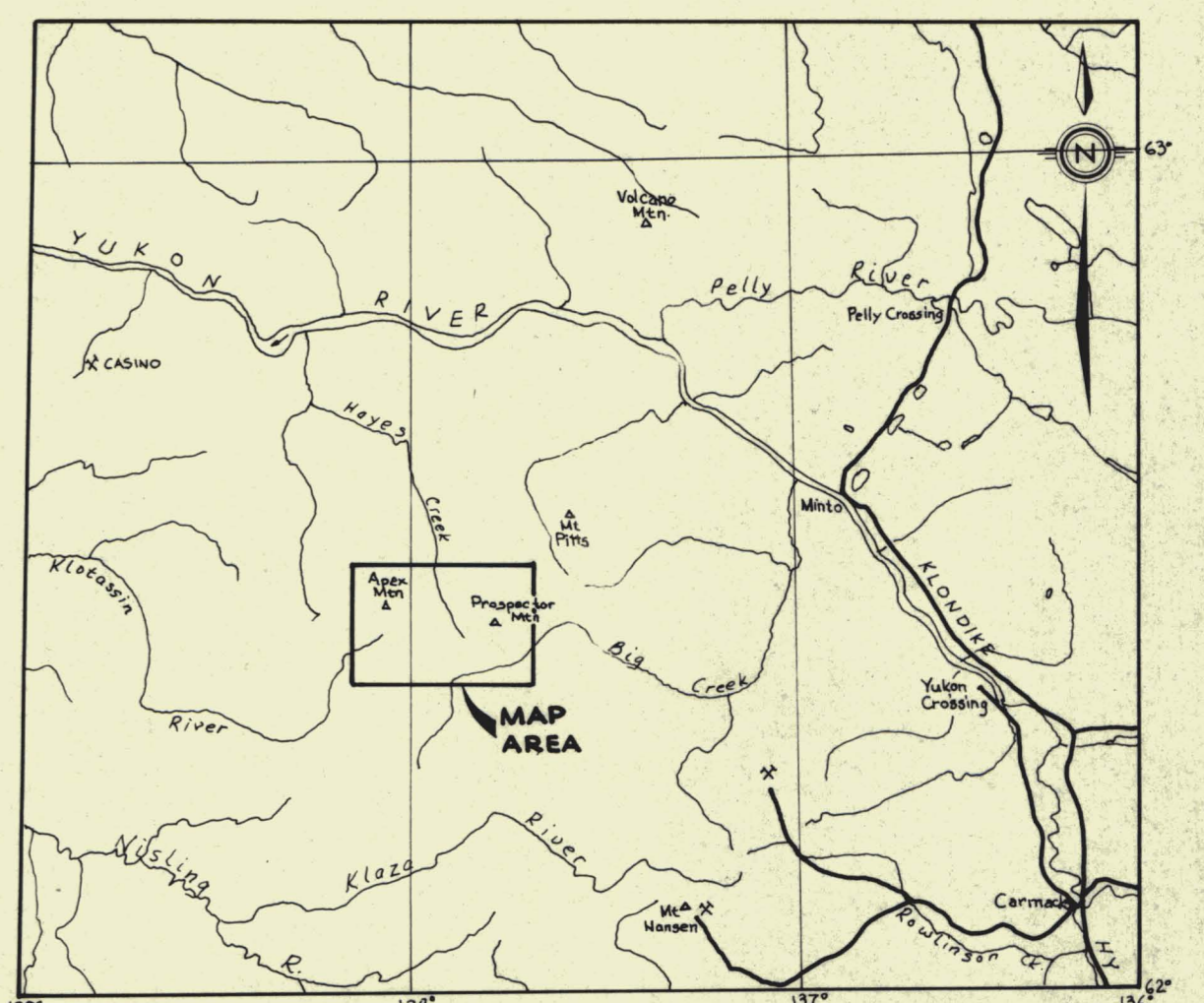
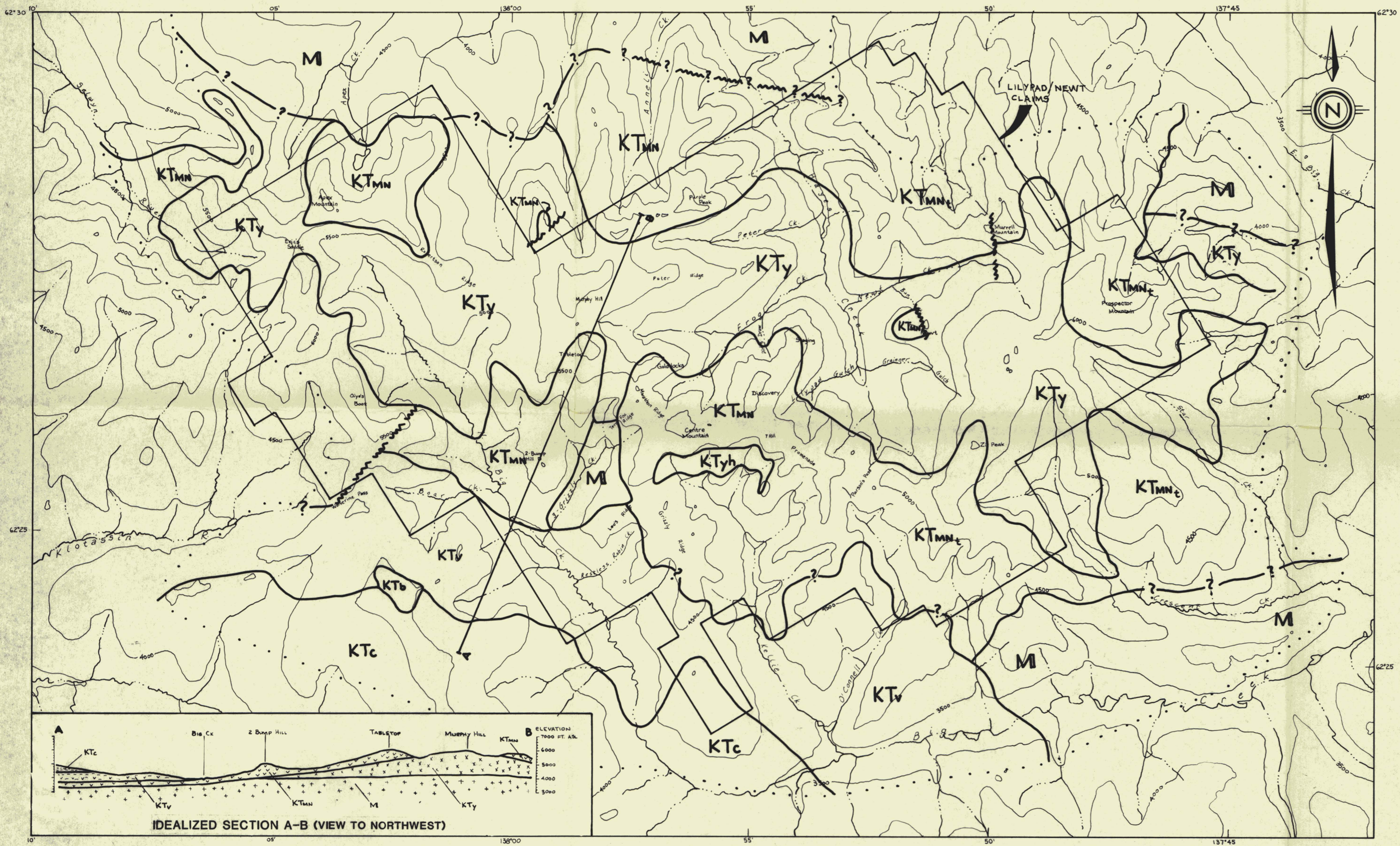
STIPPLED PATTERN GIVES LOCATION OF 1:1000 SCALE MAPS OF FIG. N23 SERIES

FIGURE N21A
ARCHER, CATHRO & ASSOCIATES (1981) LTD

KEY TO GRID SYSTEM
LILYPAD AREA
NAT JOINT VENTURE

SCALE - 1:50,000





LOCATION MAP
SCALE 1:100,000

- LEGEND:**
- LATE CRETACEOUS/EARLY TERTIARY
- KT_m** MT. NANSEN: volcanic breccia, tuffs and flows; dark grey weathering, thin-bedded to massive, commonly fragmental; quartz-feldspar-hornblende; water-laid tuffs and sediments (KT_mt)
 - KTC** CARMACKS: olivine basalt flows; dun-brown weathering, thicker bedded than KT_m, not fragmental; no-quartz present; substantial flow tops; coeval with KT_m
 - KT_v** MIXED: tuffs and flows, including undifferentiated KT_m and KTC
 - KT_b** GABBRO: probably KTC feeder pipe
 - KTy** SYENITE: fresh to weakly altered, fine to medium grained, commonly porphyritic (K-feldspar); feldspar-biotite-hornblende, with up to 10% quartz in places; probably plutonic equivalent of KT_m, but may intrude it in places
 - KT_{yh}** HYBRID SYENITE: sill and/or dyke rocks; possibly represents KT_m feeder zone
- MESOZOIC AND EARLIER
- M** BASEMENT ROCKS: including Paleozoic schists and gneisses (EPsn), and undifferentiated granitic rocks
- CONTACT: mapped, assumed
 - - - FAULT: mapped, assumed
 ... LIMIT OF MAPPING

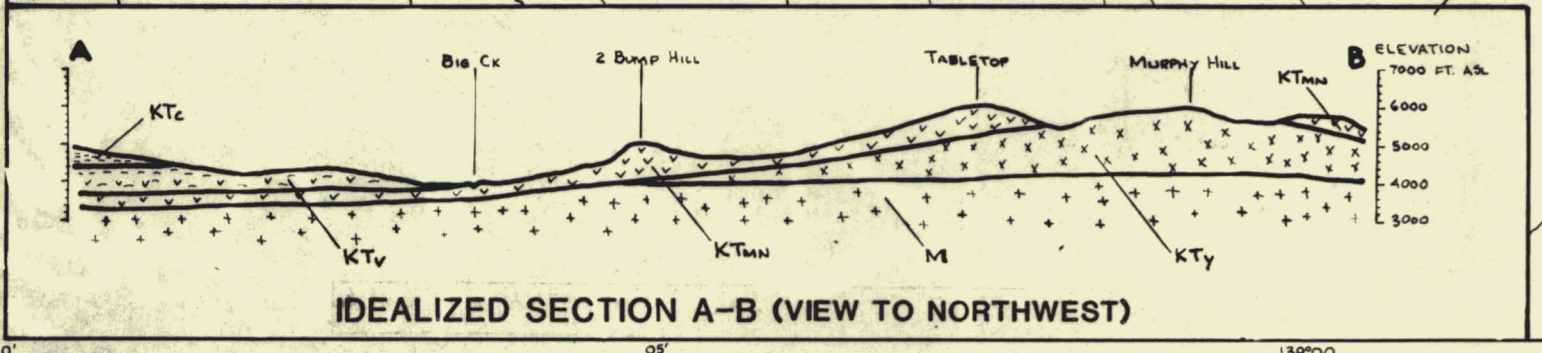
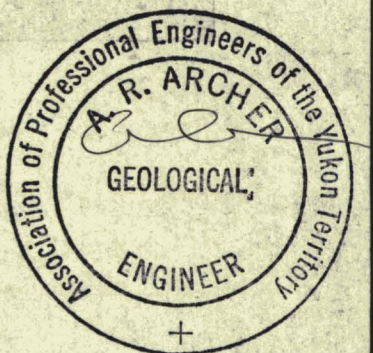
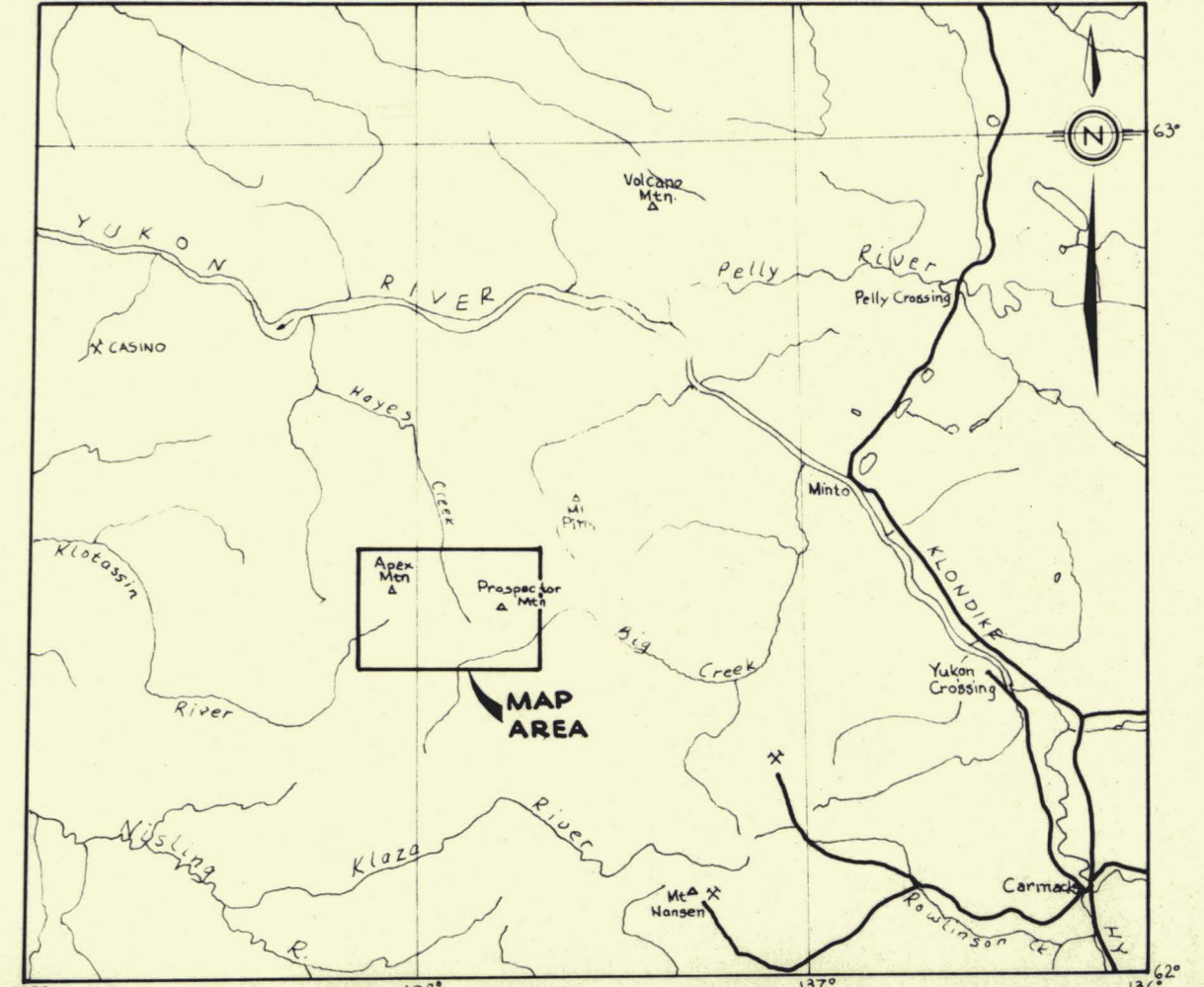
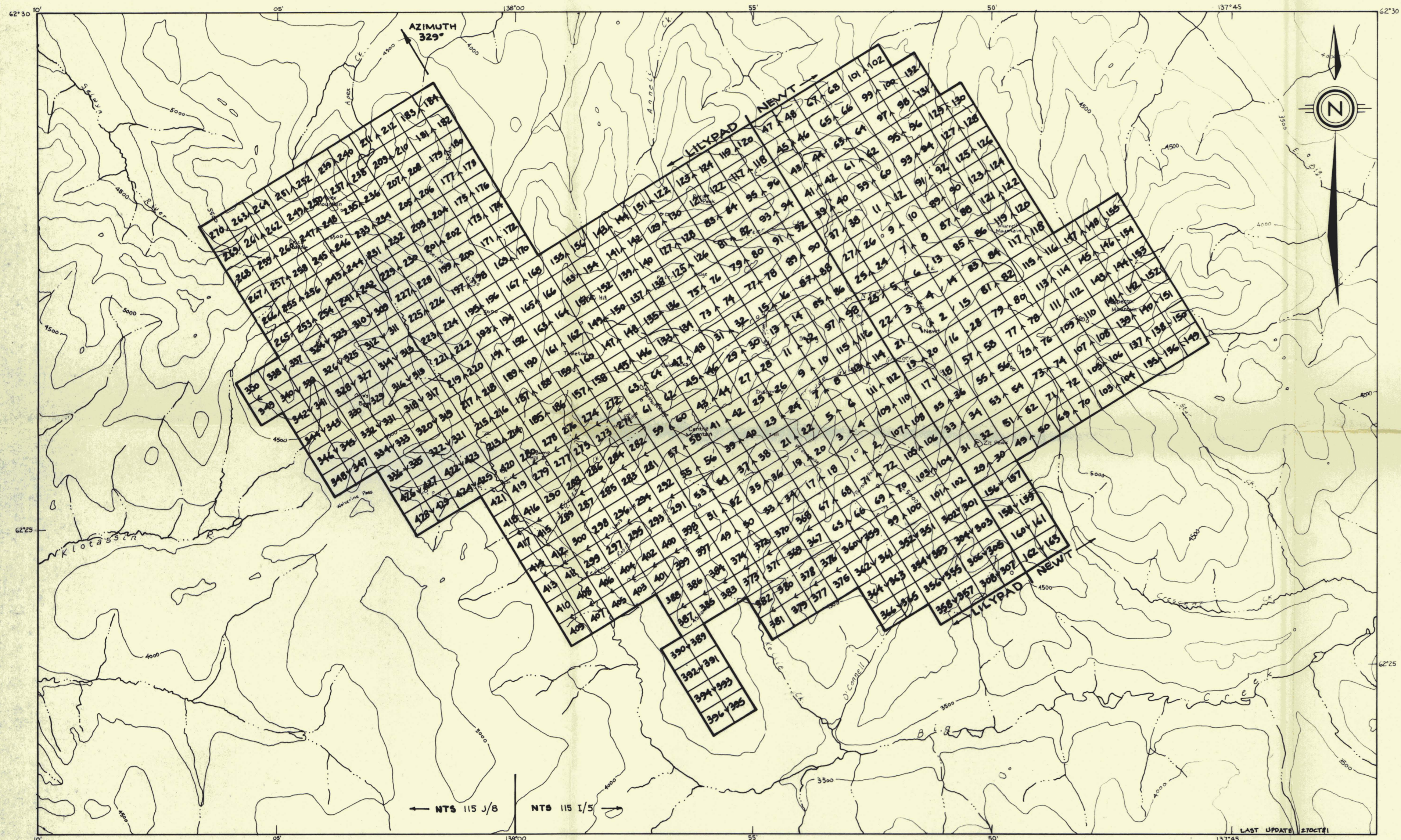


FIGURE N21B
 ARCHER, CATHRO & ASSOCIATES (1981) LTD
GEOLOGY
 After D.J. Tempelman-Kluit (DIAND)
LILYPAD AREA
 NAT JOINT VENTURE
 SCALE - 1:50,000



090976



LOCATION MAP
SCALE 1:1000000



STAKERS

| | |
|--------------------------|--------------------------|
| LILYPAD: | NEWT: |
| 1 8 J.DENNETT | 1 6 J.ROBERTSON |
| 9 16 M.P.PHILLIPS | 7 14 A.ARCHER |
| 17 24 A.TOLVANEN | 15 20 J.STANIFORTH |
| 25 32 N.BALL | 21 32 MCCRORY CONTRACT |
| 33 40 K.WYLLIE | 133 134 (UNSTAKED) |
| 41 48 E.ONASICK | 135 155 MCCRORY CONTRACT |
| 49 56 D.REID | 156 163 H.DIYE |
| 57 64 B.GRAINGER | |
| 65 72 J.BRADLEY | |
| 73 80 M.D.EATON | |
| 81 84 J.COCKELL | |
| 85 92 B.HALLERAN | |
| 93 96 J.COCKELL | |
| 97 98 J.STANIFORTH | |
| 99 100 J.ROBERTSON | |
| 101 108 M.P.PHILLIPS | 337 344 D.TILDEN |
| 109 188 MCCRORY CONTRACT | 345 348 J.PEARCE |
| 189 196 J.SPURLING | 349 350 C.HOELLER |
| 197 270 MCCRORY CONTRACT | 351 358 A.GELLING |
| 271 278 D.CHARTERS | 359 366 B.GOLDBECK |
| 279 286 J.WILLIAMS | 367 374 J.MILNER |
| 287 294 L.LINDINGER | 375 382 J.DUKE |
| 295 300 C.HOELLER | 383 388 K.HACKMAN |
| 301 308 F.SCHUERHECK | 389 396 C.DYSON |
| 309 316 W.KARTECHNER | 399 406 M.TRUDZIK |
| 317 322 A.OLEKSON | 407 414 M.LEGASSICKE |
| 323 330 D.SCOTT | 415 421 J.O'CONNELL |
| 331 334 J.PEARCE | 422 429 B.JENKINS |
| 335 336 A.OLEKSON | |

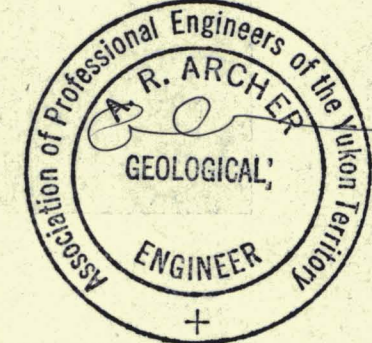
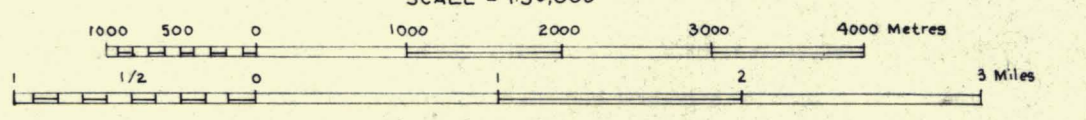
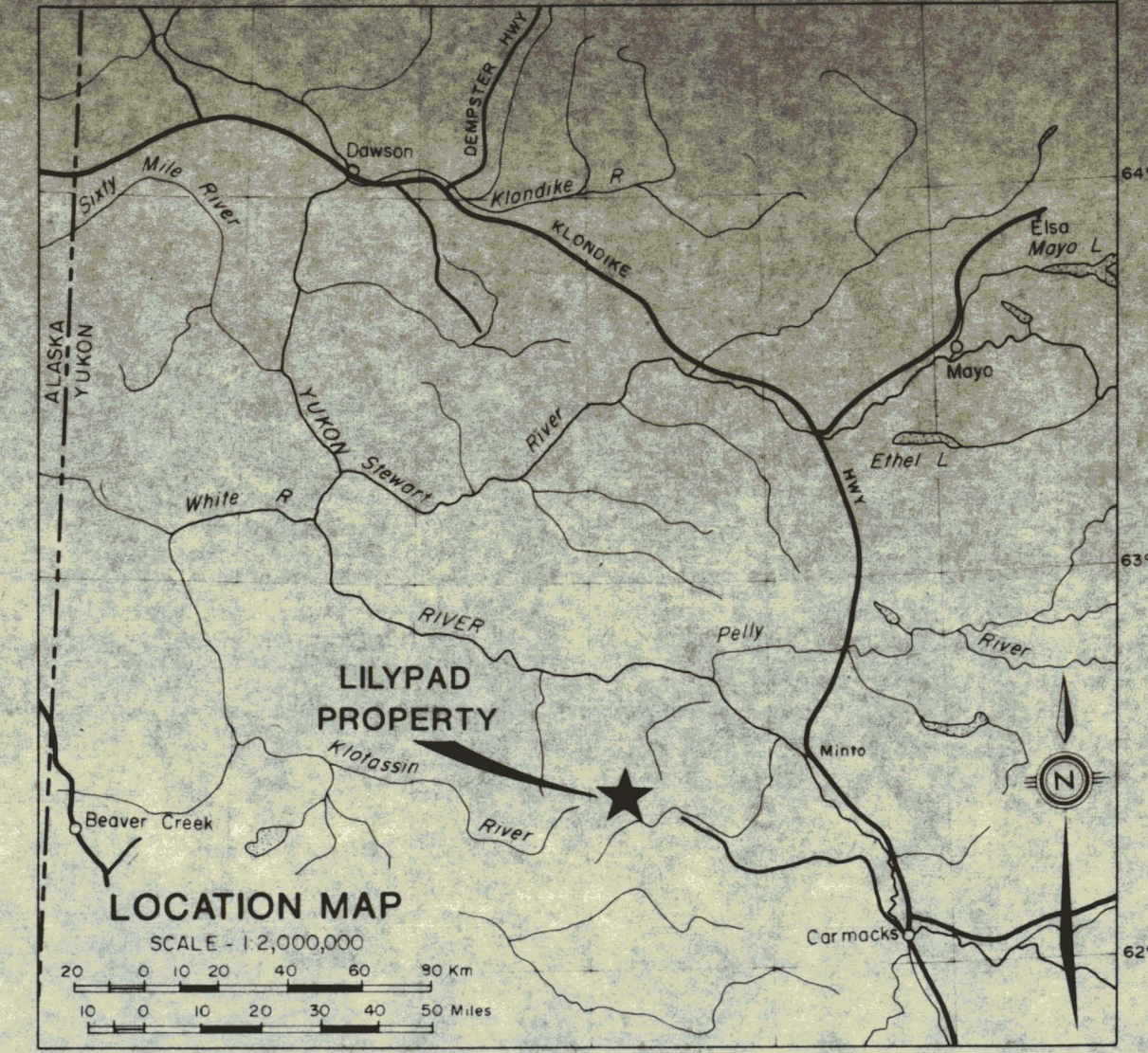
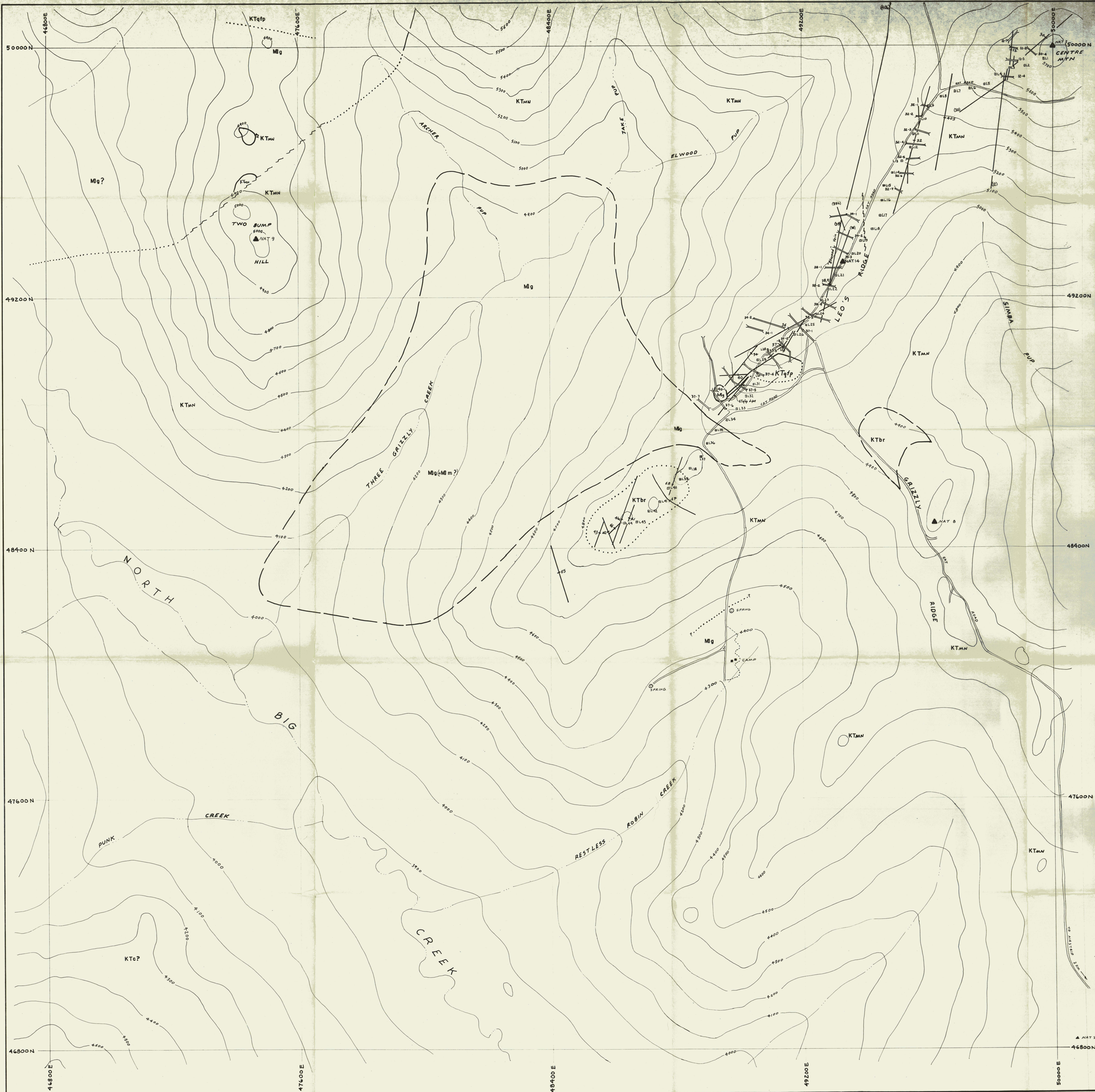


FIGURE N21C
ARCHER, CATHRO & ASSOCIATES (1981) LTD
LILYPAD & NEWT CLAIMS
LILYPAD AREA
NAT JOINT VENTURE
SCALE - 1:50,000



LAST UPDATE 27OCT81

To accompany report by A.R. Archer, Jan '82



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|----|----|-----|
| HS | HA | 100 |
| 60 | BP | 7M |
| 6J | 6I | 7L |

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc CARMAUX VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dyes
 - KTm MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp FELDSPAR PORPHYRY: Sills, dikes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTgfp QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTv SVENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite-syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm

- CRETACEOUS AND EARLIER**
- Mg BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- ~ FAULT (Showing down-faulted side)

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲ NAT 8 SURVEY MONUMENT
 - BL1 SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

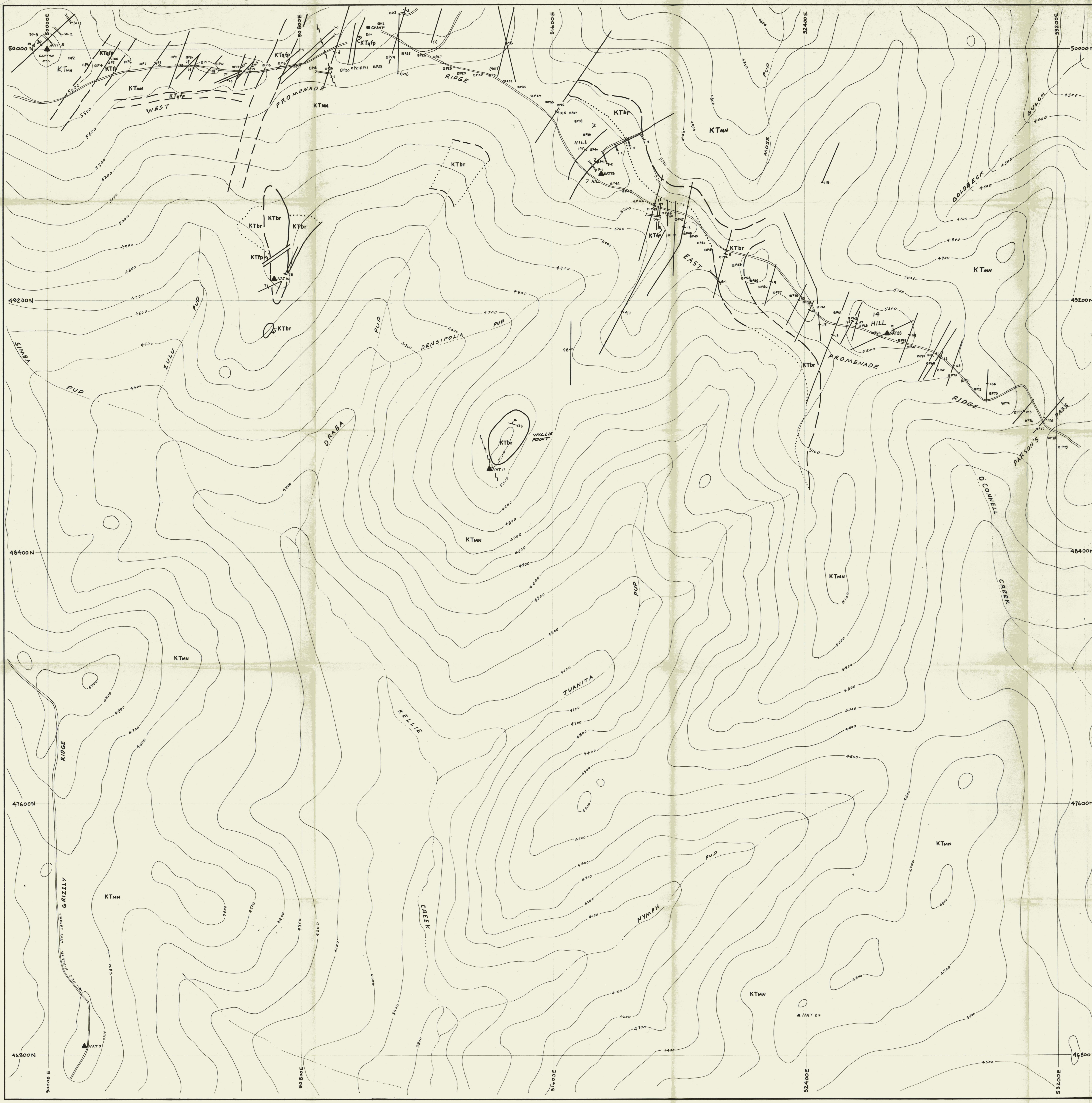
FIGURE N22:BP
 ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND SURVEY CONTROL
 LILYPAD PROPERTY
 NAT JOINT VENTURE

SCALE 1:4000

0 100 200 300 400 METRES

90976

To accompany report by A.R. Archer, July 81.



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

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

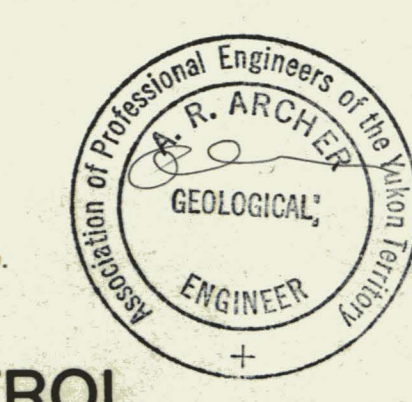
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes.
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with intercalated sediments.
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement.
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding.
 - KTgfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm).
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite.
 - KTv** SYENITE: Fine, grey and rusty weathering, fresh to weakly altered (prophyritic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm.
- CRETACEOUS AND EARLIER
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks.
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite.
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- ~ FAULT (Showing down-faulted side)

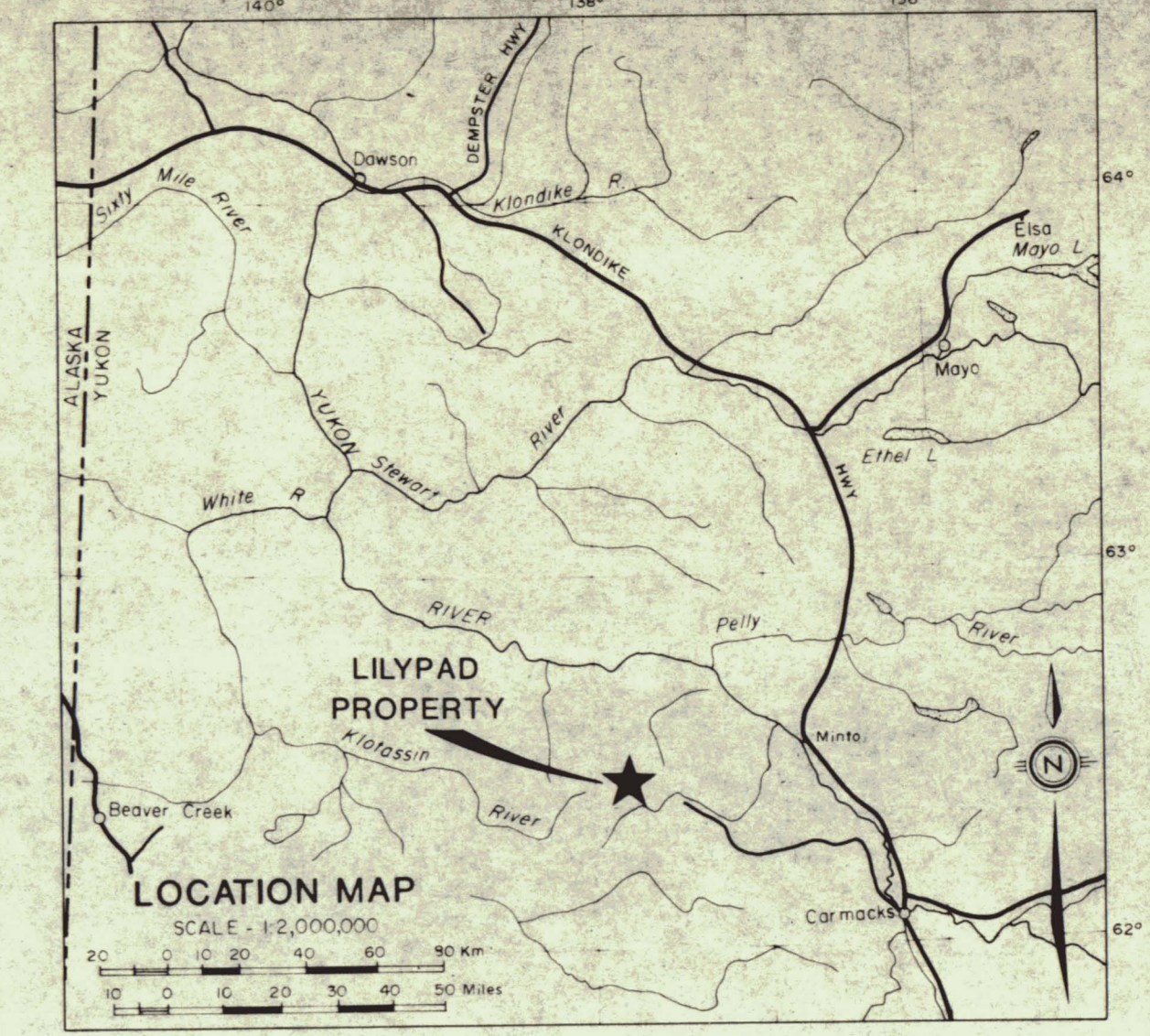
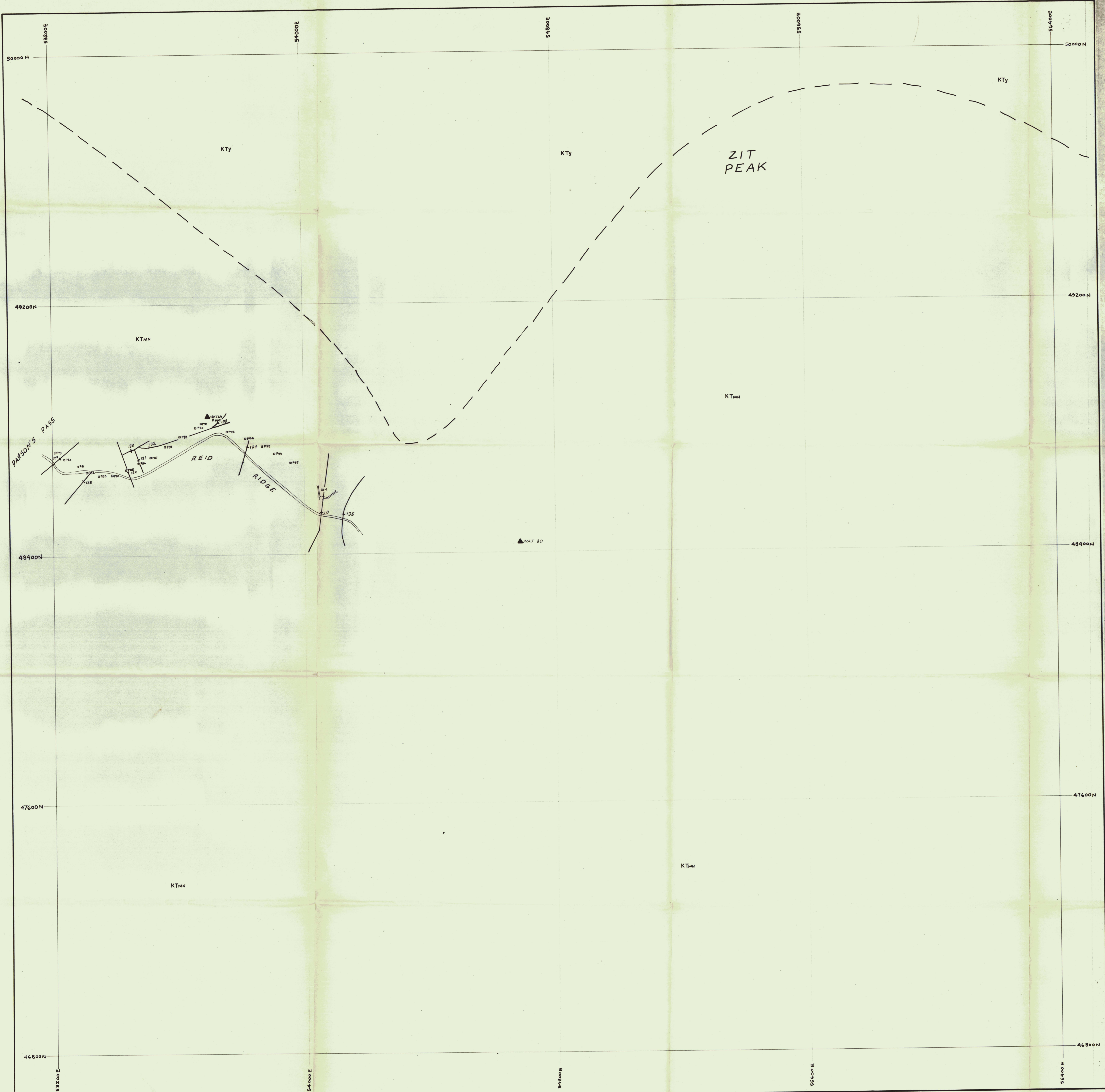
- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲ NAT 28 SURVEY MONUMENT
 - P45 SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

FIGURE N22-7M
 ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND SURVEY CONTROL
 LILYPAD PROPERTY
 NAT JOINT VENTURE

SCALE 1:4000

990976





| | | |
|-----|-----|-----|
| 100 | 100 | 100 |
| 7M | 7N | 7O |
| 7L | 7K | 7J |

KEY TO ADJOINING MAP AREAS
(SEE FIGURE N21A)

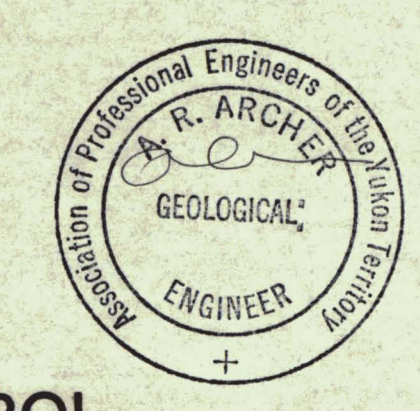
LEGEND

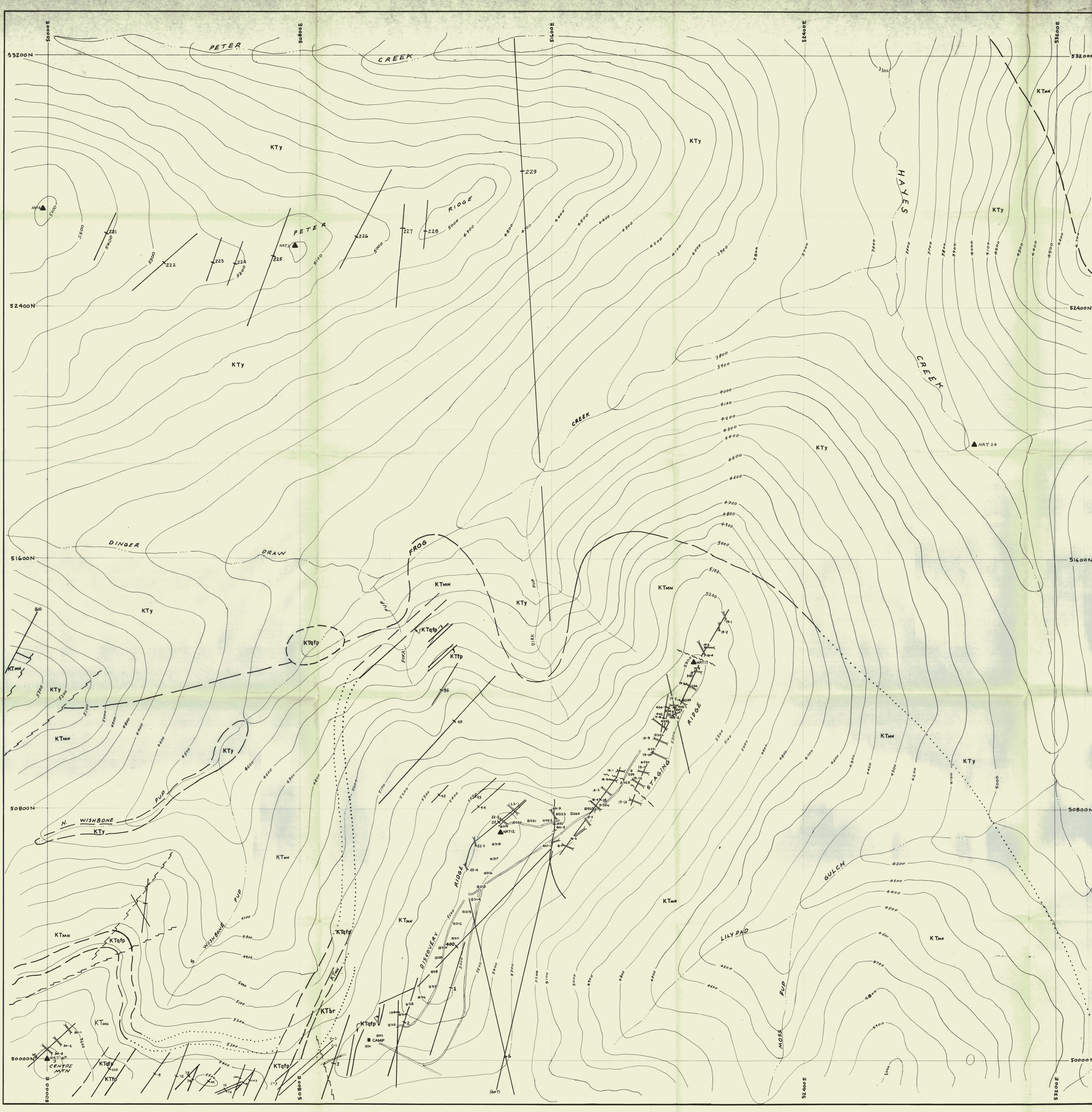
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTr CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dikes.
 - KTm MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and miclastic breccias and flows; commonly fragmental, with intercalated sediments.
 - KTr FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement.
 - KTp FELDSPAR PORPHYRY: Sills, dikes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding.
 - KTqfp QUARTZ FELDSPAR PORPHYRY: As KTp with subhedral quartz phenocrysts (to 5mm).
 - KTga1 ALKALITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite.
 - KTy SVENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenites commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTr.
- CRETACEOUS AND EARLIER
- Mg BASEMENT: Undifferentiated felsic intrusive rocks.
 - Mn BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite.
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- FAULT (Showing down-faulted side)
- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲ WAT 30 SURVEY MONUMENT
 - P 81 SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

FIGURE N22:7N
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND SURVEY CONTROL
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:4000





KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

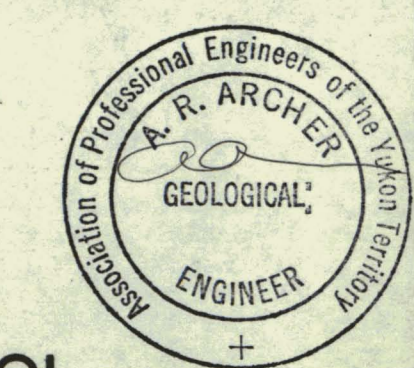
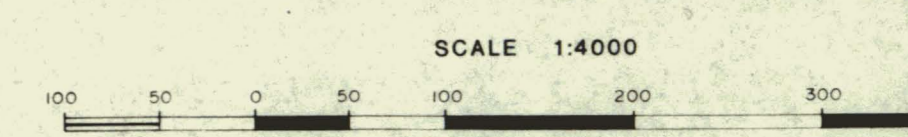
| | | |
|-----|-----|-----|
| 11H | 10E | 10F |
| 11A | 10D | 10C |
| 9P | 7M | 7N |

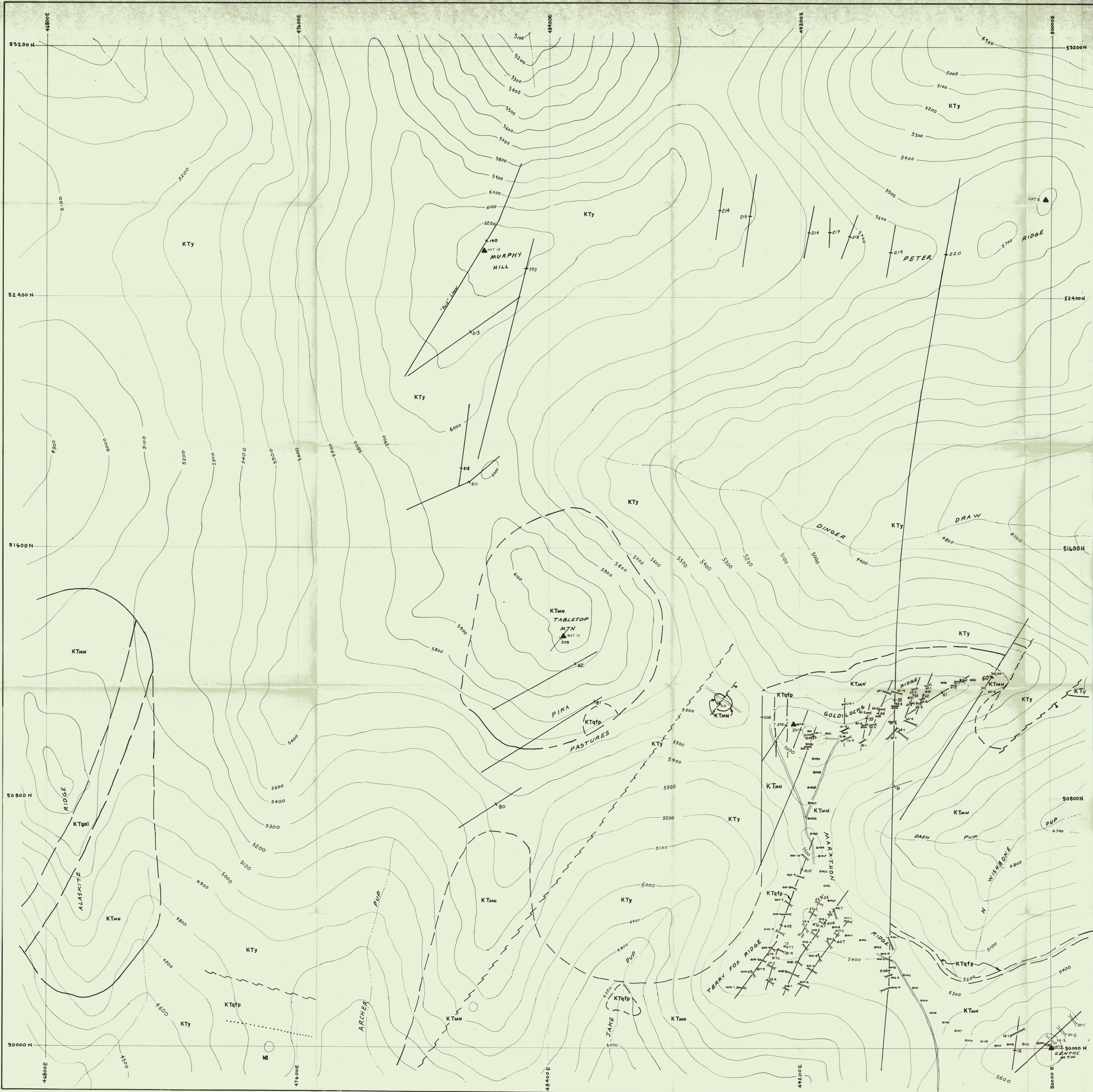
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTy** SVENITE: Pink, grey and rusty weathering, fresh to weally altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTw.
 - KTMN** MT NANSEN VOLCANICS: Rocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments.
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement.
 - KTfp** FELDSPAR PORPHYRY: Sills, dikes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding.
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm).
 - KTal** ALASHITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite.
- CRETACEOUS AND EARLIER**
- Mq** BASEMENT: Undifferentiated felsic intrusive rocks.
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite.

- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- FAULT (Showing down-faulted side)

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲** NAT24 SURVEY MONUMENT
 - 0-32 SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

FIGURE N22:100
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND SURVEY CONTROL
LILYPAD PROPERTY
NAT JOINT VENTURE





| | | |
|-----|-----|-----|
| 118 | 119 | 120 |
| 118 | 11A | 120 |
| 60 | 6P | 7M |

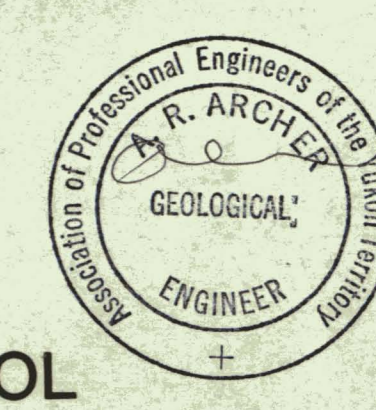
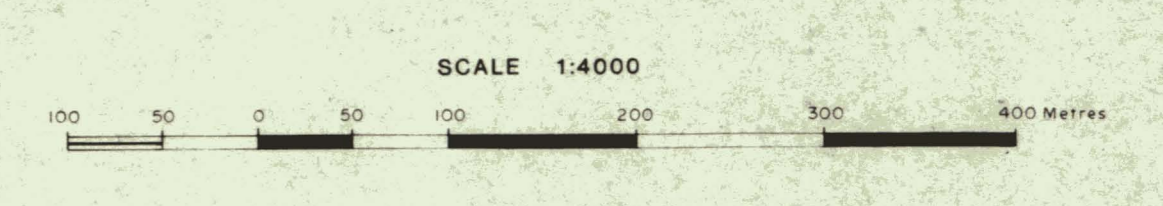
KEY TO ADJOINING MAP AREAS
(SEE FIGURE N21A)

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTE** CARPACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTMN** MT NANSEN VOLCANICS: Rocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SVENITE: Pink, grey and rusty weathering, fresh to weally altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite-syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTMN
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite

- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- FAULT (Showing down-faulted side)

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲** NAT 21 SURVEY MONUMENT
 - SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

FIGURE N22-11A
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND SURVEY CONTROL
LILYPAD PROPERTY
NAT JOINT VENTURE



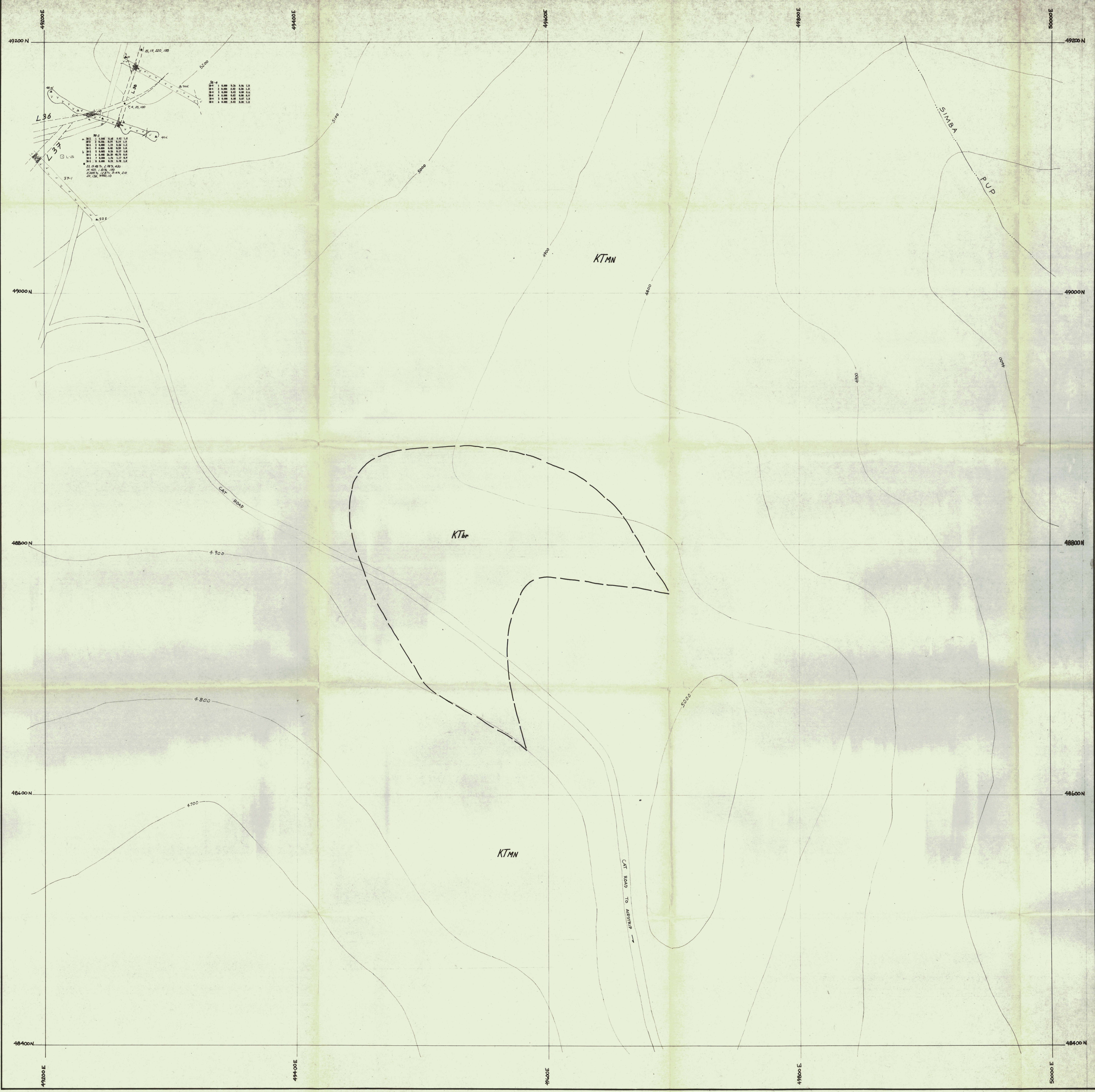
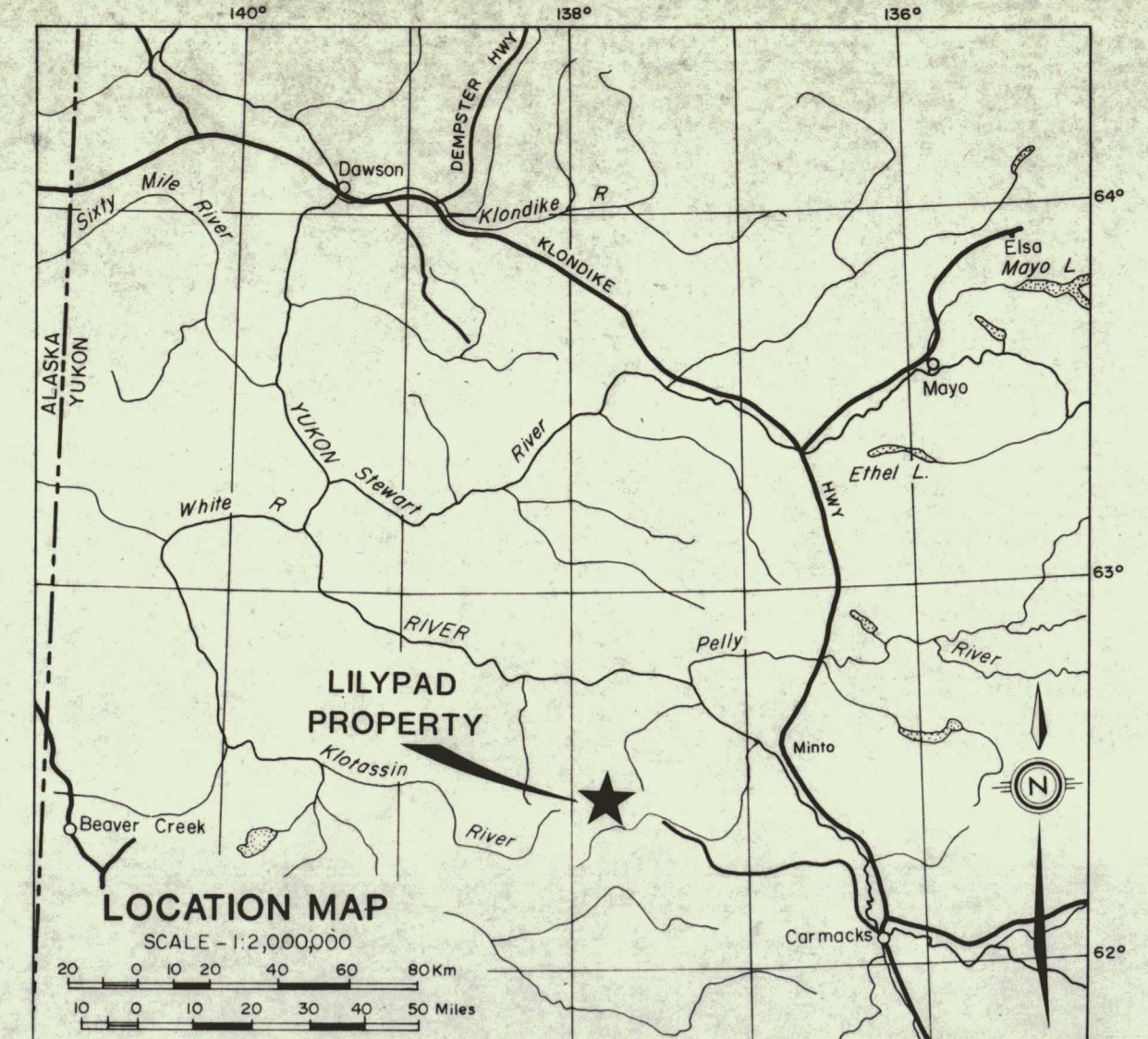


TABLE 1

| Sample No. | Location | Depth (m) | Grain Size | Color | Texture | Remarks |
|------------|----------|-----------|------------|-------|---------|---------|
| 1 | L36 | 0-10 | fine | grey | massive | |
| 2 | L37 | 0-10 | fine | grey | massive | |
| 3 | L38 | 0-10 | fine | grey | massive | |
| 4 | L39 | 0-10 | fine | grey | massive | |
| 5 | L40 | 0-10 | fine | grey | massive | |
| 6 | L41 | 0-10 | fine | grey | massive | |
| 7 | L42 | 0-10 | fine | grey | massive | |
| 8 | L43 | 0-10 | fine | grey | massive | |
| 9 | L44 | 0-10 | fine | grey | massive | |
| 10 | L45 | 0-10 | fine | grey | massive | |
| 11 | L46 | 0-10 | fine | grey | massive | |
| 12 | L47 | 0-10 | fine | grey | massive | |
| 13 | L48 | 0-10 | fine | grey | massive | |
| 14 | L49 | 0-10 | fine | grey | massive | |
| 15 | L50 | 0-10 | fine | grey | massive | |



KEY TO ADJOINING MAP AREAS
(SEE FIGURE N2(A))

| | | |
|-------|-------|-------|
| 6P/15 | 6P/16 | 7M/13 |
| 6P/10 | 6P/18 | 7M/12 |
| 6P/17 | 6P/19 | 7M/15 |

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes.
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments.
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement.
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding.
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm).
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite.
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenites; commonly porphyritic (w-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm.

- CRETACEOUS AND EARLIER
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks.
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite.
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURMALINIZATION
- VOLCANIC
- GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - - - - FAULT (Showing down-faulted side)

MINERALOGICAL

| | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
- ASSUMED SURFACE TRACE of LINEAR and NUMBER
- ▲ SURVEY MONUMENT
- SURVEY PICKET
- ▲° TRENCH SURVEY PICKET
- ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
- TRENCH with VEIN EXPOSURE
- BULLDOZER ROAD
- KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
Au, Ag, Pb, Zn
 - +10K Value greater than 10000
 - g/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

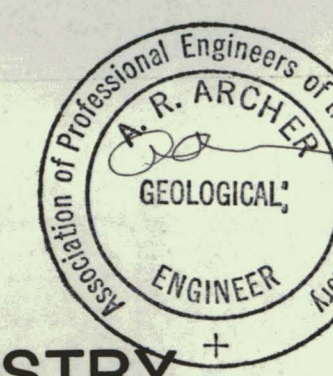
| Trench Sample | Au (oz/T) | Ag (oz/T) | Pb (oz/T) | Width (m) | |
|---------------|-----------|-----------|-----------|-----------|-----|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

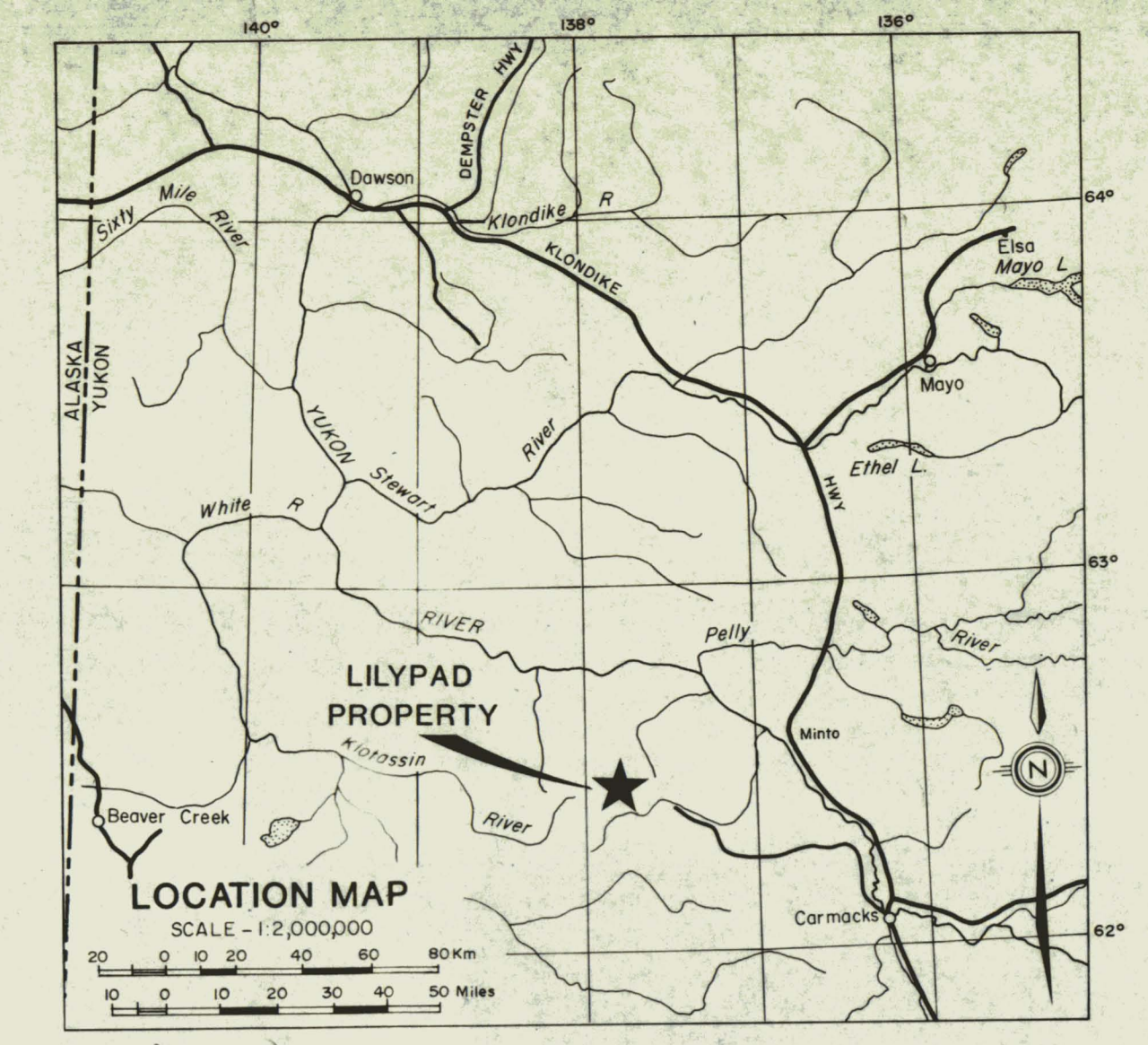
Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23: 6P/9
GRIZZLY RIDGE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000





KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 6P/4 | 6P/5 | 6P/6 |
| 6P/7 | 6P/8 | 6P/9 |
| 6P/10 | 6P/11 | 6P/12 |

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 50cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-ephibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic); fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE**
- FELSITE or APLITE DYKE**
- STRONGLY ALTERED, FINE GRAINED GOUGE**
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE**
- BRECCIA**
- PERIPHERAL MANGANESE ALTERATION**
- TOURMALINIZATION**
- VOLCANIC**
- GRANITE/SYENITE**
- FAULT (Showing down-faulted side)**
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')**
- ASSUMED SURFACE TRACE of LINEAR and NUMBER**
- ▲** SURVEY MONUMENT
 - SURVEY PICKET
 - ▲** TRENCH SURVEY PICKET
 - ▼ +** REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x** SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K** Value greater than 10000
 - g/T** Troy ounces per Ton
 - T** Trace
 - ↓** GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

| | | | | | |
|--------|--------|----------|----------|-------|----------|
| Trench | Sample | Au(gz/T) | Ag(oz/T) | Pb(%) | Width(m) |
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

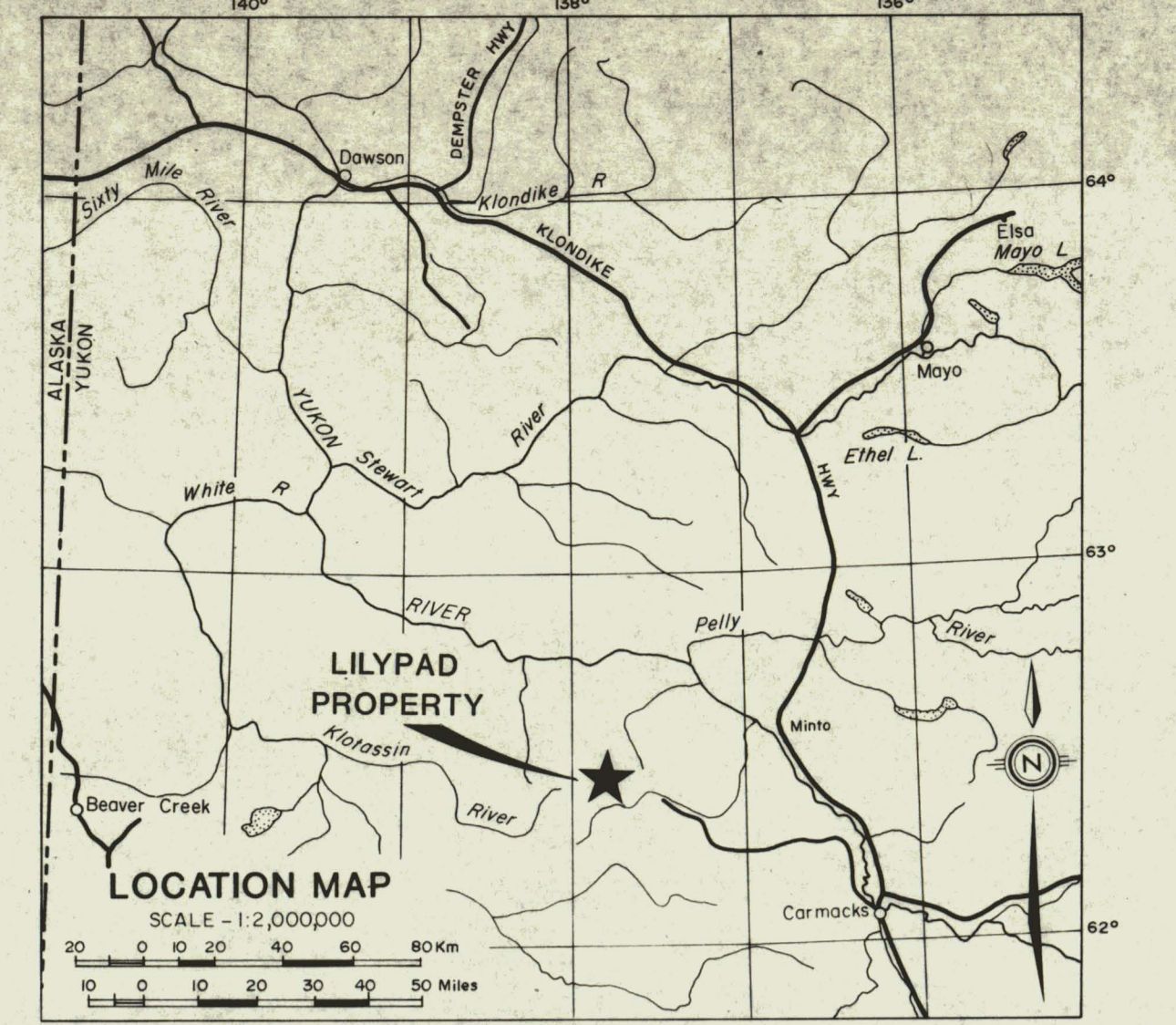
FIGURE N23: 6P/10
LEO'S RIDGE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

0 10 20 30 40 50 60 70 80 90 100 METERS

909976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| BA/2 | BA/1 | 100/4 |
| EP/15 | EP/16 | TM/13 |
| EP/10 | EP/9 | TM/12 |

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALOGICAL**
- MV** MINERALIZED VEIN
 - PD** PORPHYRY DYKE
 - FS** FELSITE or APLITE DYKE
 - SA** STRONGLY ALTERED, FINE GRAINED GOUGE
 - PA** PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - B** BRECCIA
 - MA** PERIPHERAL MANGANESE ALTERATION
 - T** TOURMALINIZATION
 - V** VOLCANIC
 - G/S** GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 100 — TOPOGRAPHICAL CONTOUR (Interval 100')
 - - - - - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
Au, Ag, Cd, Pb, As
 - +10K Value greater than 10000
 - g/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

| Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (oz/T) | Width (m) |
|--------|--------|-----------|-----------|-----------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

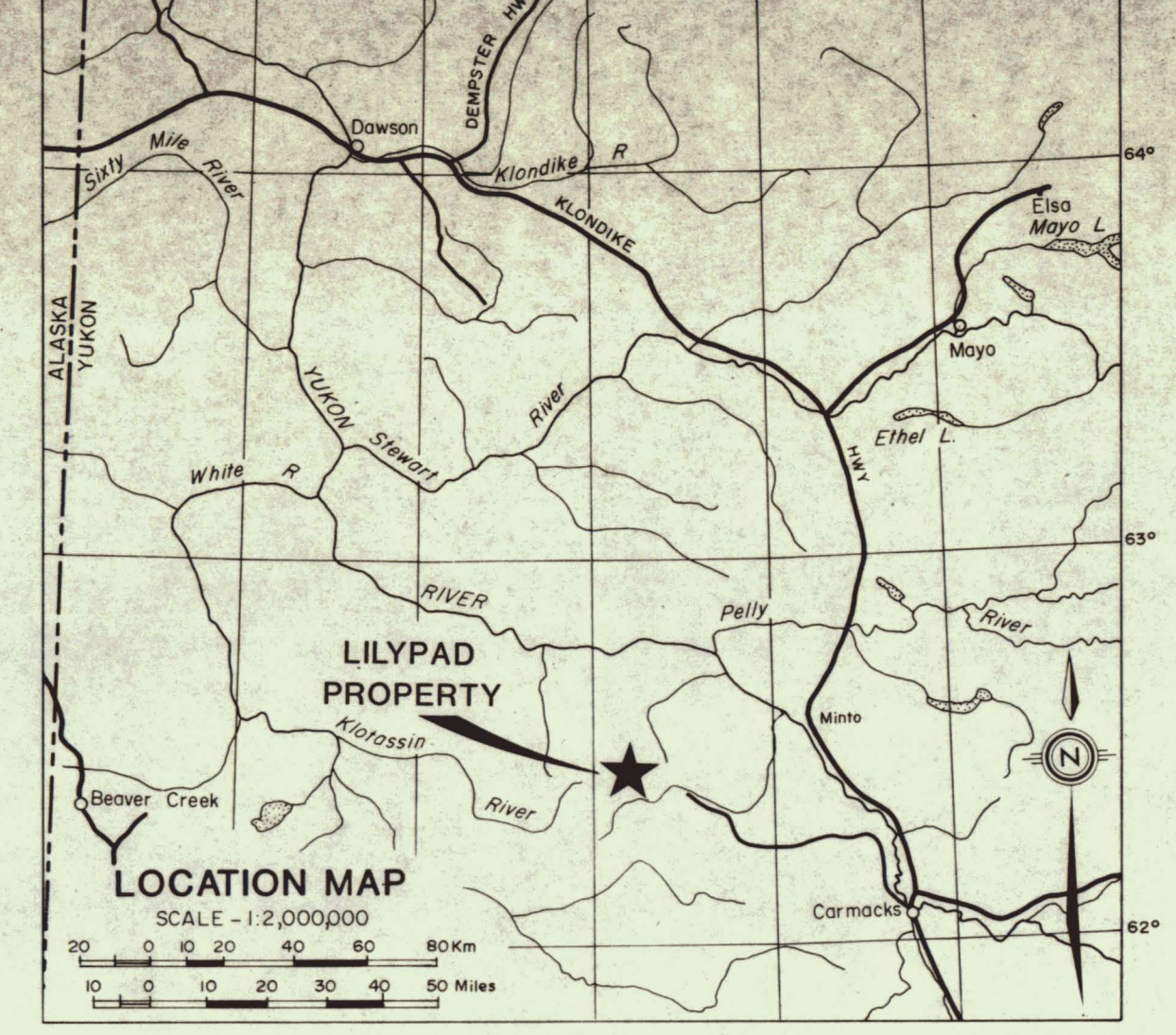
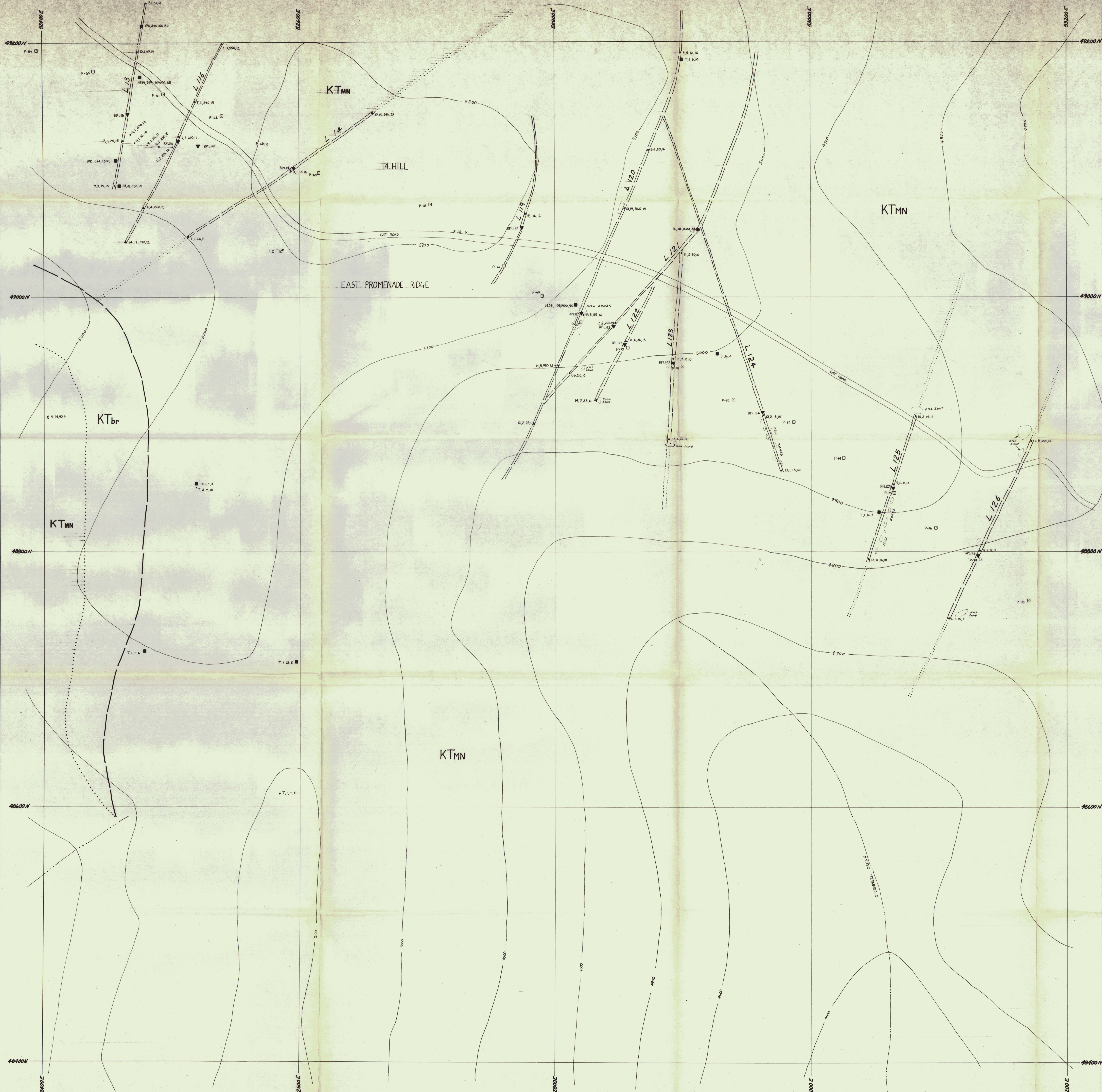
FIGURE N23:0P/16
LEO, B/CENTRE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

0 10 20 30 40 50 60 70 80 90 100 Metres

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| TW/5 | TW/6 | TW/8 |
| TW/10 | TW/12 | TW/13 |
| TW/7 | TW/9 | TW/11 |

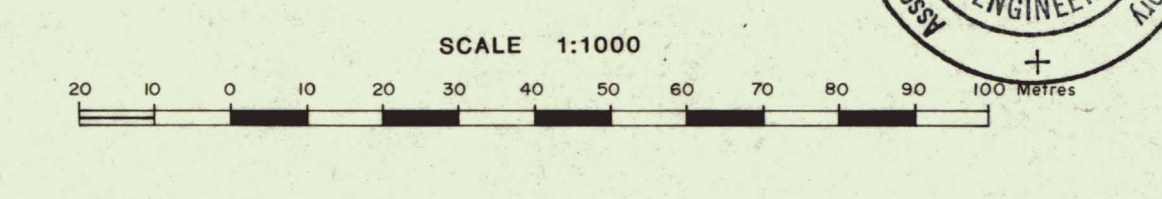
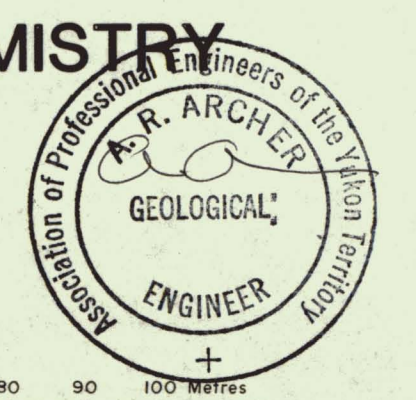
- LEGEND**
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc CARMAK'S VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqf QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER
- Mg BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURMALINIZATION
- VOLCANIC
- GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| chp | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 100' TOPOGRAPHICAL CONTOUR (Interval 100')
- ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
- ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag, X10, Pb, As
 - o/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

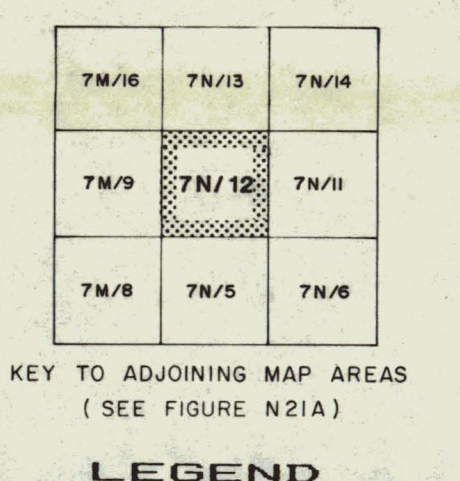
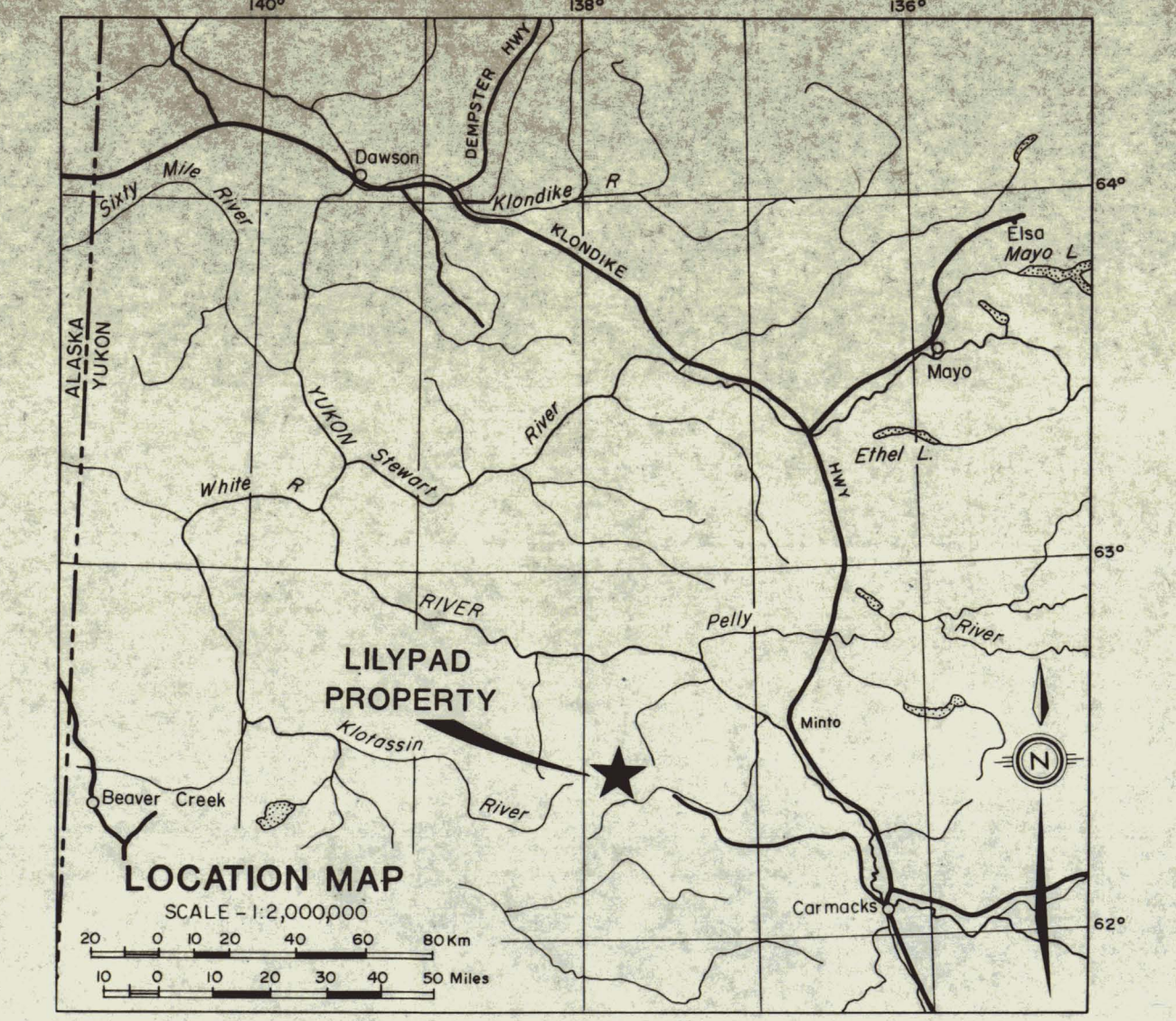
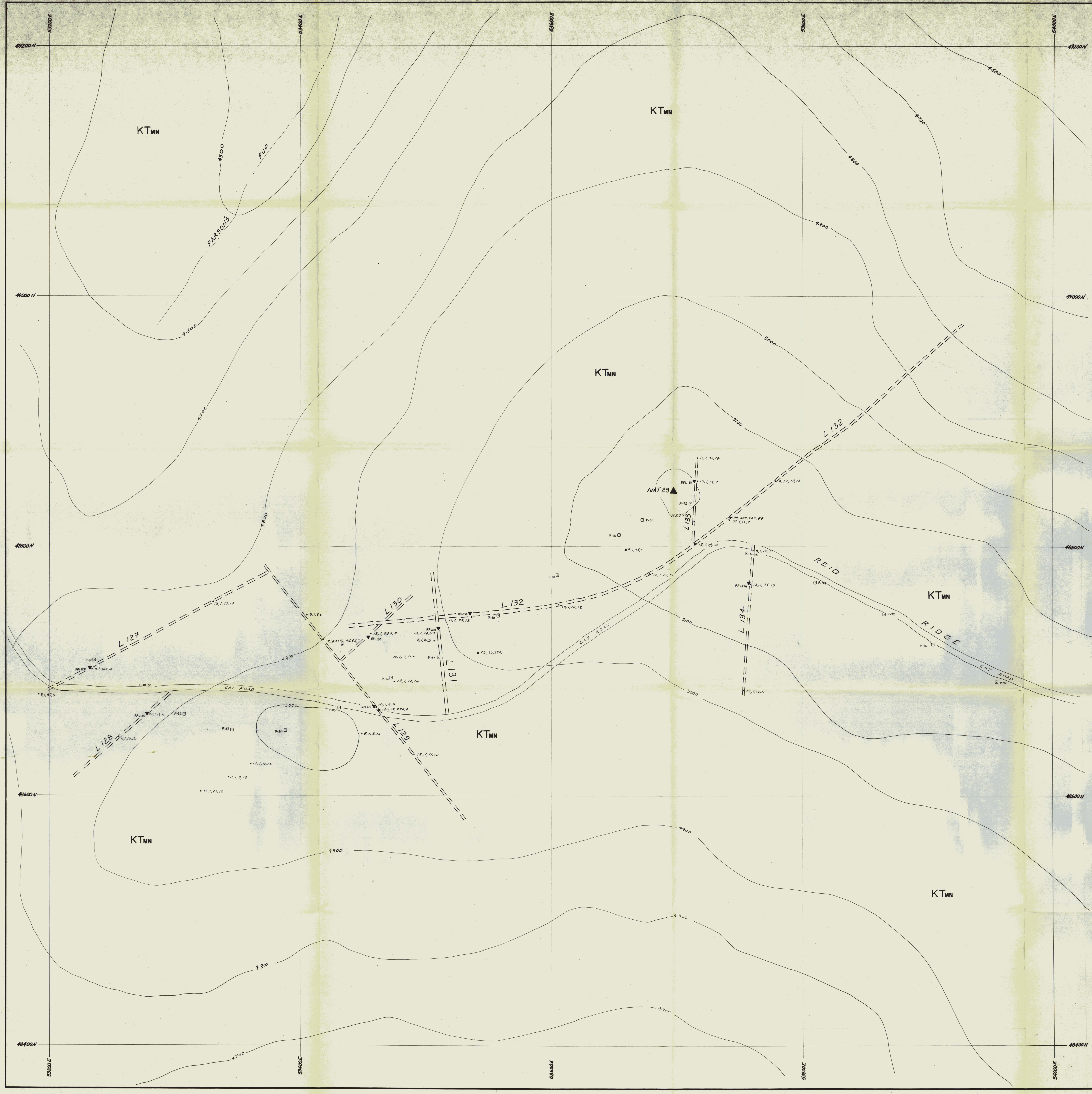
FORMAT OF ASSAY TABLES

| Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:7M/9
EAST PROMENADE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE





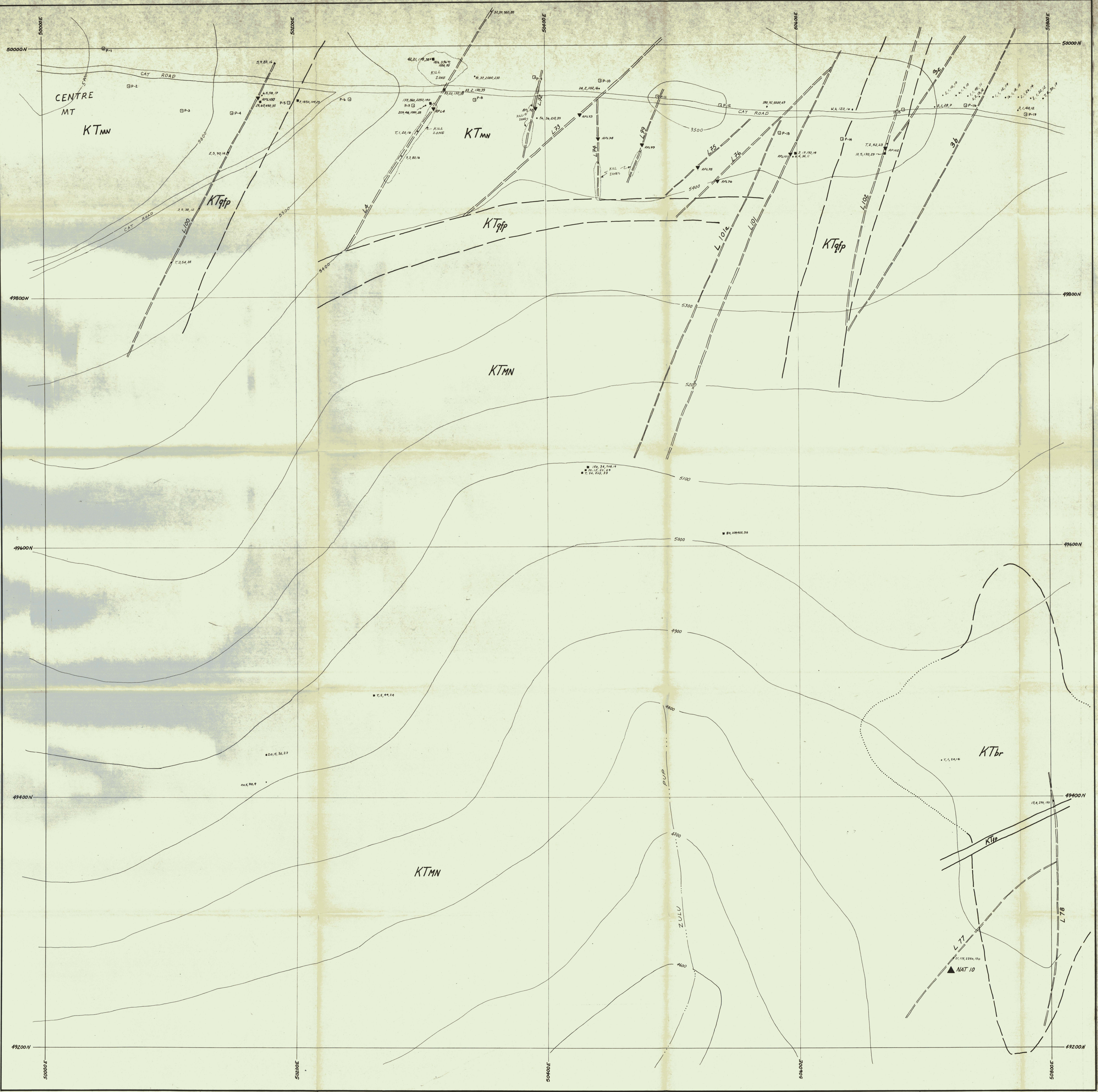
- LEGEND**
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent; dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SVENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SVENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcocypite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL CONTOUR (Interval 100')**
- ASSUMED SURFACE TRACE OF LINEAR AND NUMBER**
- ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt) Au, Ag, Cu, Pb, As
 - +10K Value greater than 10000
 - oz/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - ▬ TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:7N/12
PARSON'S PASS
ARCHER, CATIRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 11A/1 | 10D/4 | 10D/3 |
| 6P/6 | 7M/18 | 7M/4 |
| 6P/9 | 7M/12 | 7M/11 |

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-ambigole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALABASTITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic); fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn

- CRETACEOUS AND EARLIER
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALOGICAL
- MINERALIZED VEIN
 - PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- FAULT (Showing down-faulted side)

MINERALOGICAL

| | | | |
|-----|----------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcocopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |

- TOPOGRAPHICAL
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - SURVEY MONUMENT
 - SURVEY PICKET
 - TRENCH SURVEY PICKET
 - REFERENCE POST FOR LINEAR (Surveyed, Approximate)
 - TRENCH WITH VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE

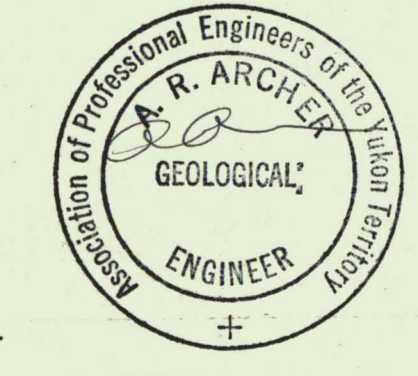
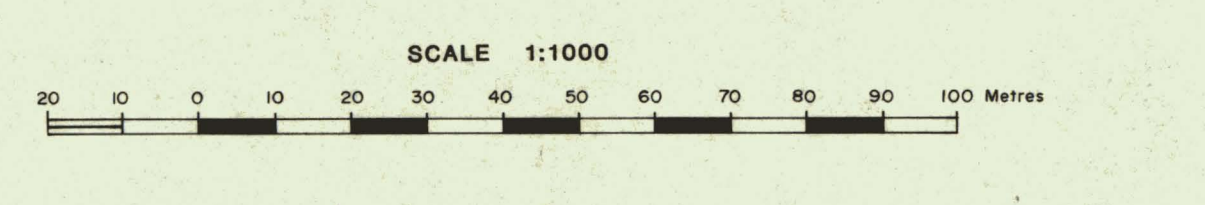
- GEOCHEMICAL
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag, IO, Pb, As
 - g/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

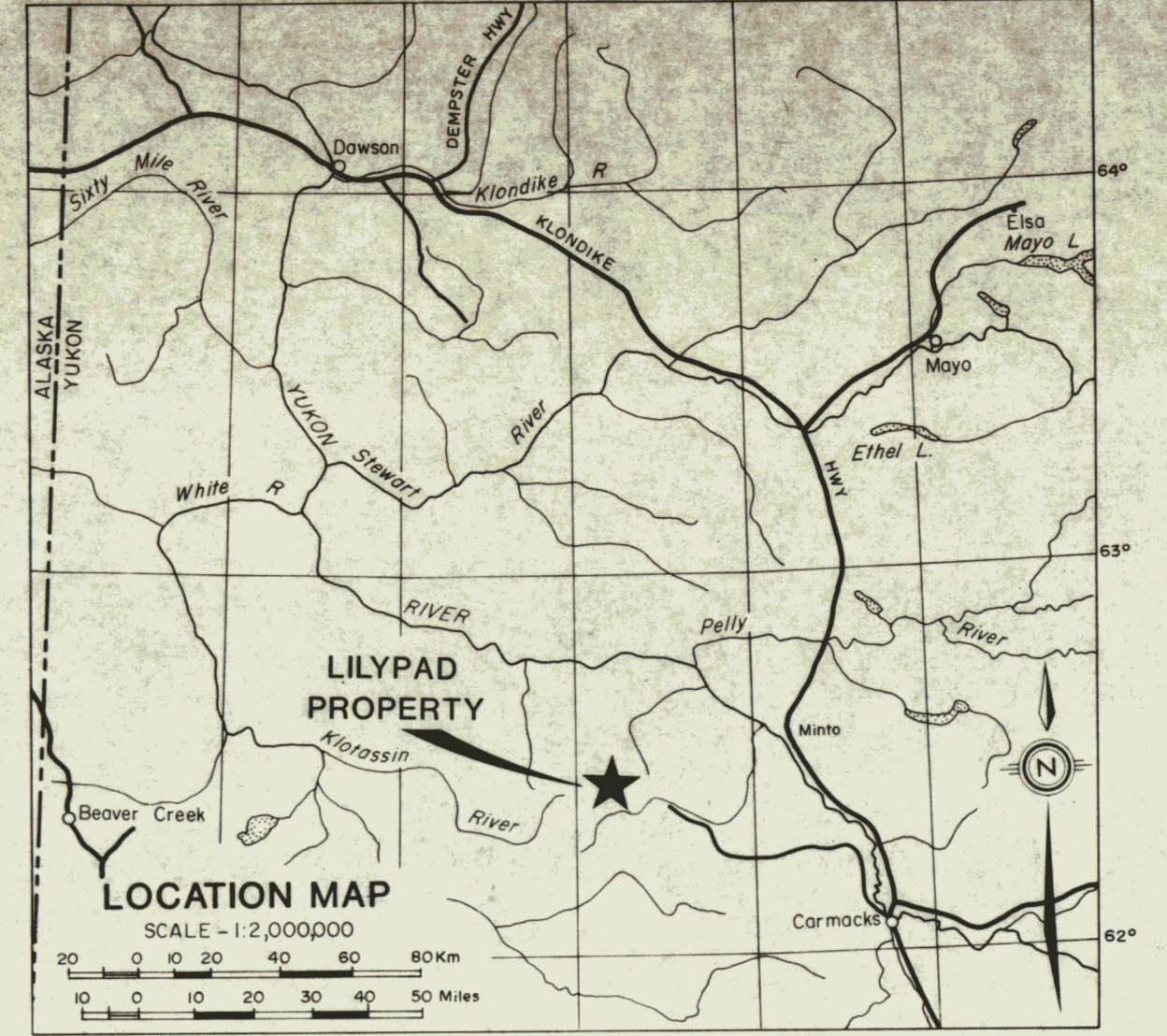
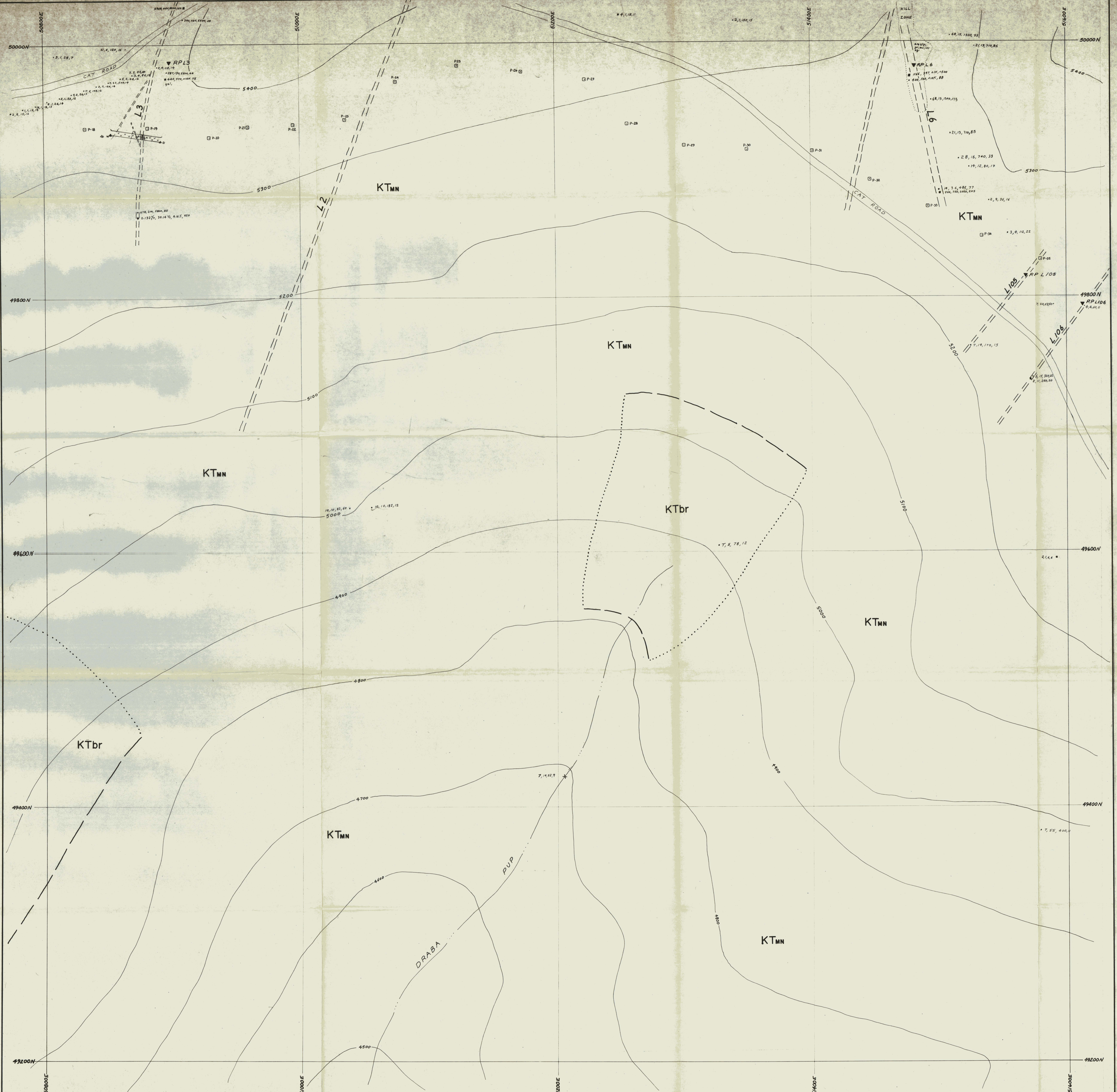
FORMAT OF ASSAY TABLES

| | | | | | |
|--------|--------|-----------|-----------|--------|-----------|
| Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N20.7M/13
WEST PROMENADE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE





| | | |
|-------|-------|-------|
| 10/D4 | 10/D3 | 10/D2 |
| 7M/18 | 7M/14 | 7M/15 |
| 7M/12 | 7M/11 | 7M/10 |

KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-norblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SVENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-norblende-syenite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- Mi** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SVENITE
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hea | heavite | sph | sphalerite |
- TOPOGRAPHICAL**
- 5200 — TOPOGRAPHICAL CONTOUR (Interval 100')
 - L12 — ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
Au, Ag, X10, Pb, As
 - +10K Value greater than 10000
 - 9/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - ▬ TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

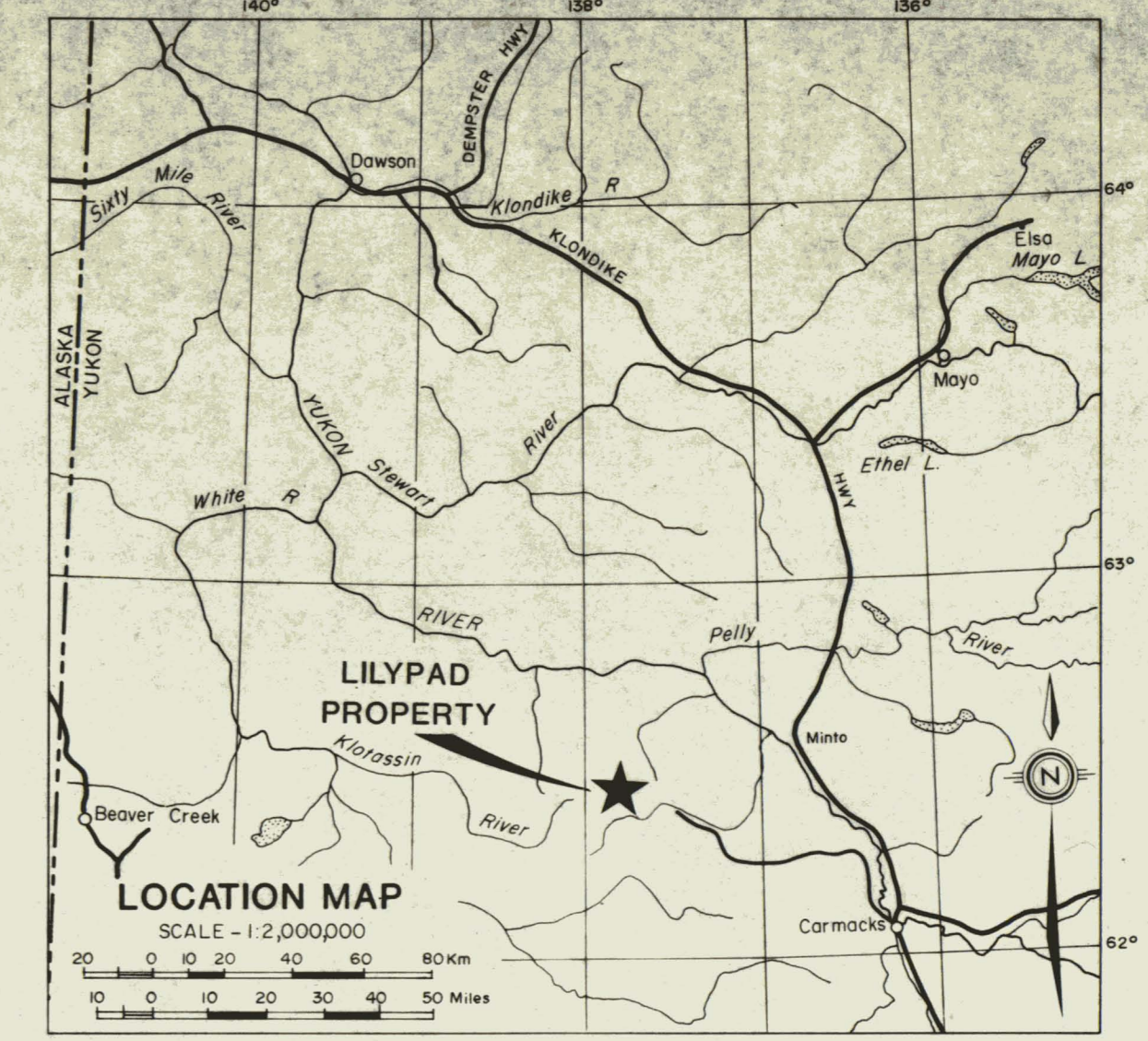
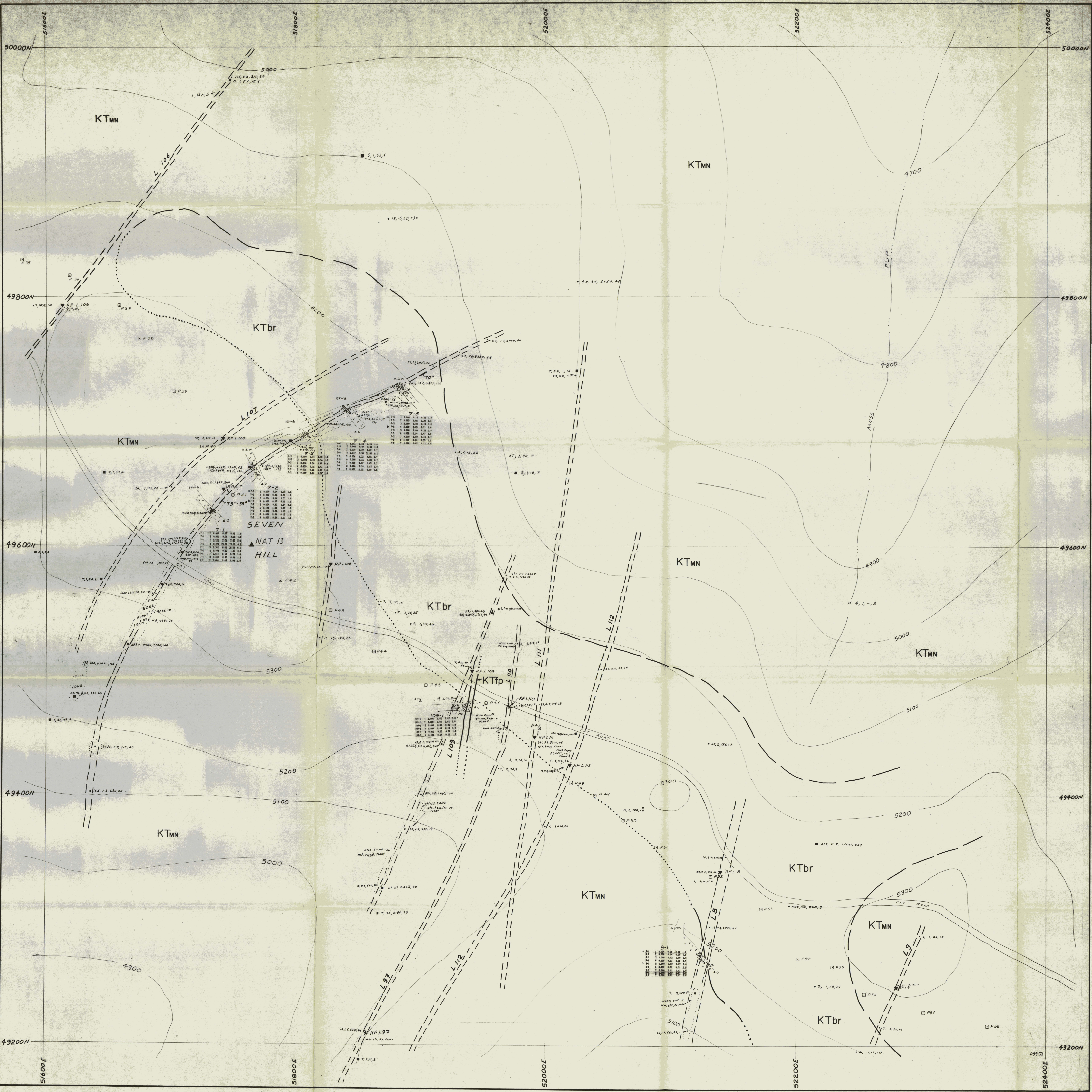
| | | | | |
|---------------|-----------|-----------|--------|-----------|
| Trench Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
| 7-3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:7M/14
DRABA PUP
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 100/3 | 100/4 | 100/1 |
| 7M/4 | 7M/16 | 7M/18 |
| 7M/11 | 7M/10 | 7M/9 |

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubby, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent; dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 20cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic); fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn

- CRETACEOUS AND EARLIER**
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mb** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE**
- FELSITE or APLITE DYKE**
- STRONGLY ALTERED, FINE GRAINED GOUGE**
- PROPYLITICALLY ALTERED, RUBBY WALLROCK GOUGE**
- BRECCIA**
- PERIPHERAL MANGANESE ALTERATION**
- TOURMALINIZATION**
- VOLCANIC**
- GRANITE/SYENITE**
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - -** FAULT (Showing down-faulted side)

MINERALOGICAL

| | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - - - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST FOR LINEAR (Surveyed, Approximate)
 - - - TRENCH WITH VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE

- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag, Pb, Zn
 - oz/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

| Trench | Sample | Au(oz/T) | Ag(oz/T) | Pb(%) | Width(m) |
|--------|--------|----------|----------|-------|----------|
| 7-3 | S | 0.005 | 0.10 | 0.55 | 1.0 |

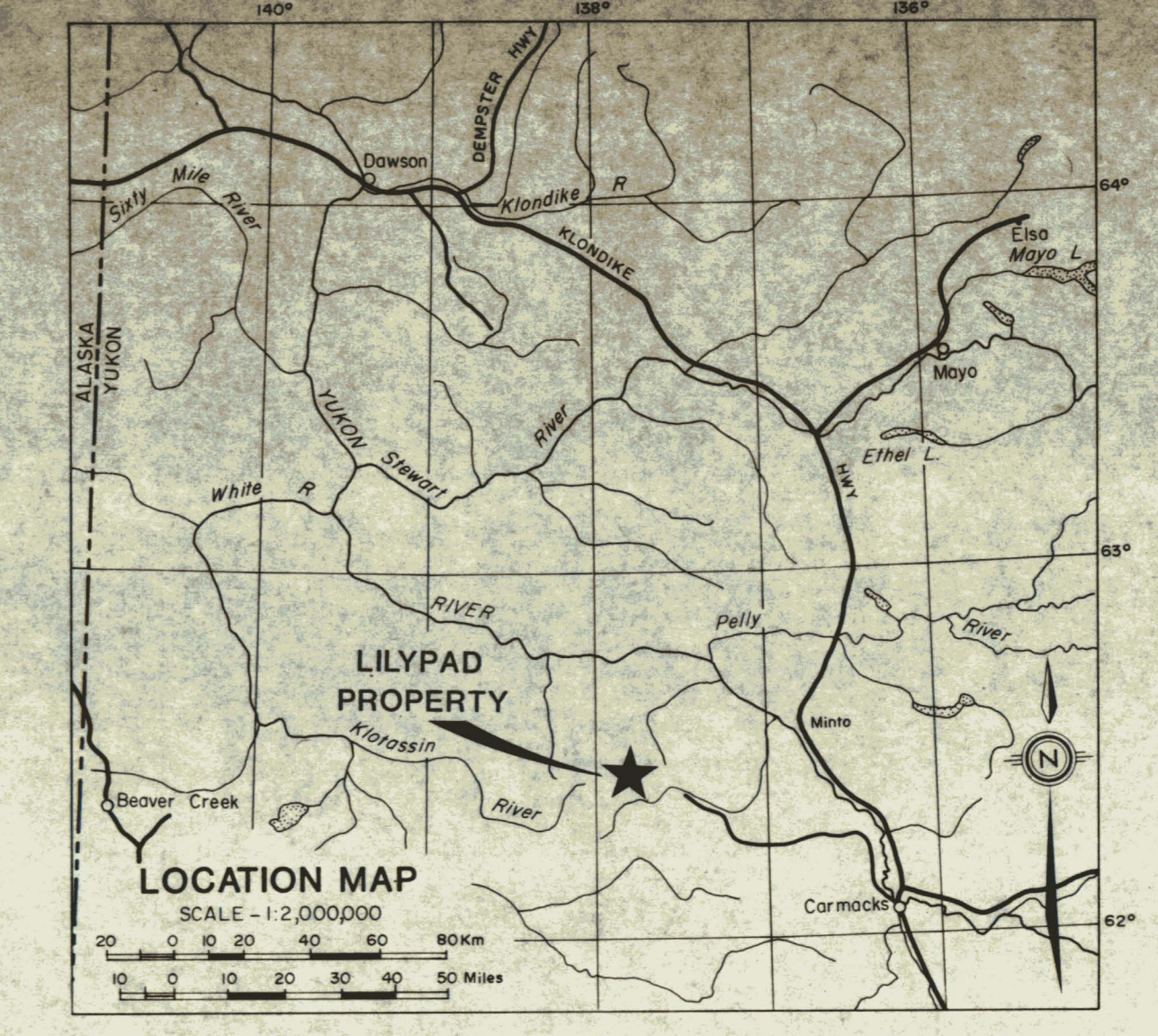
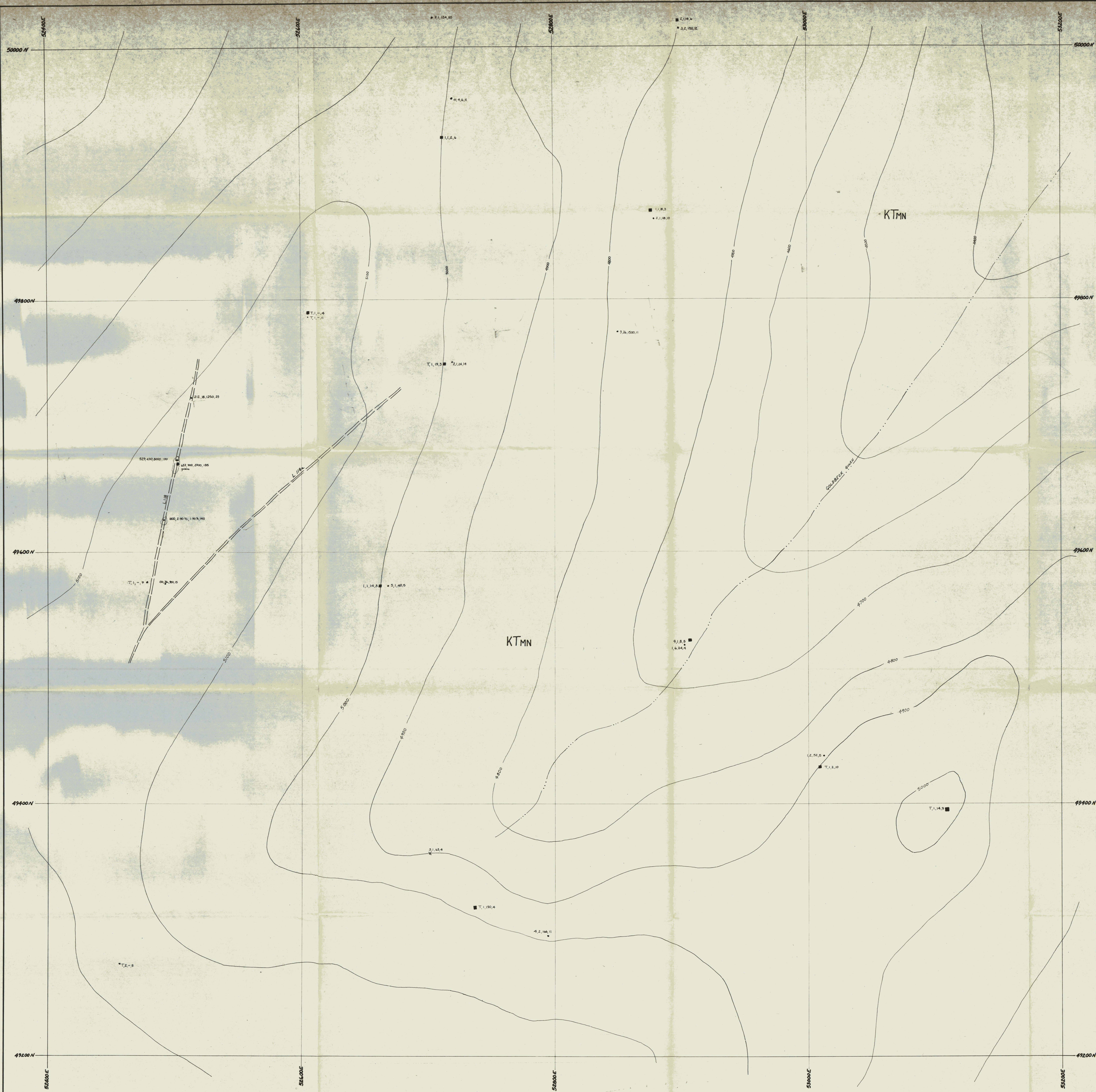
Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23-7M/15
SEVEN HILL
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:10000

9099-6



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

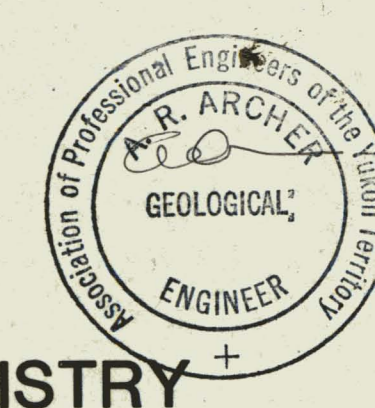
| | | |
|-------|-------|-------|
| 10D/2 | 10D/1 | 10C/4 |
| 7M/5 | 7M/16 | 7M/3 |
| 7M/10 | 7M/9 | 7M/2 |

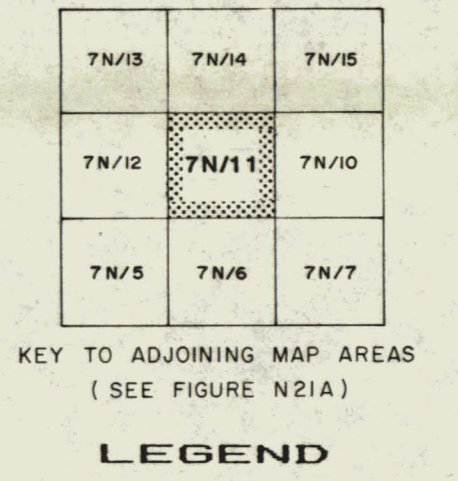
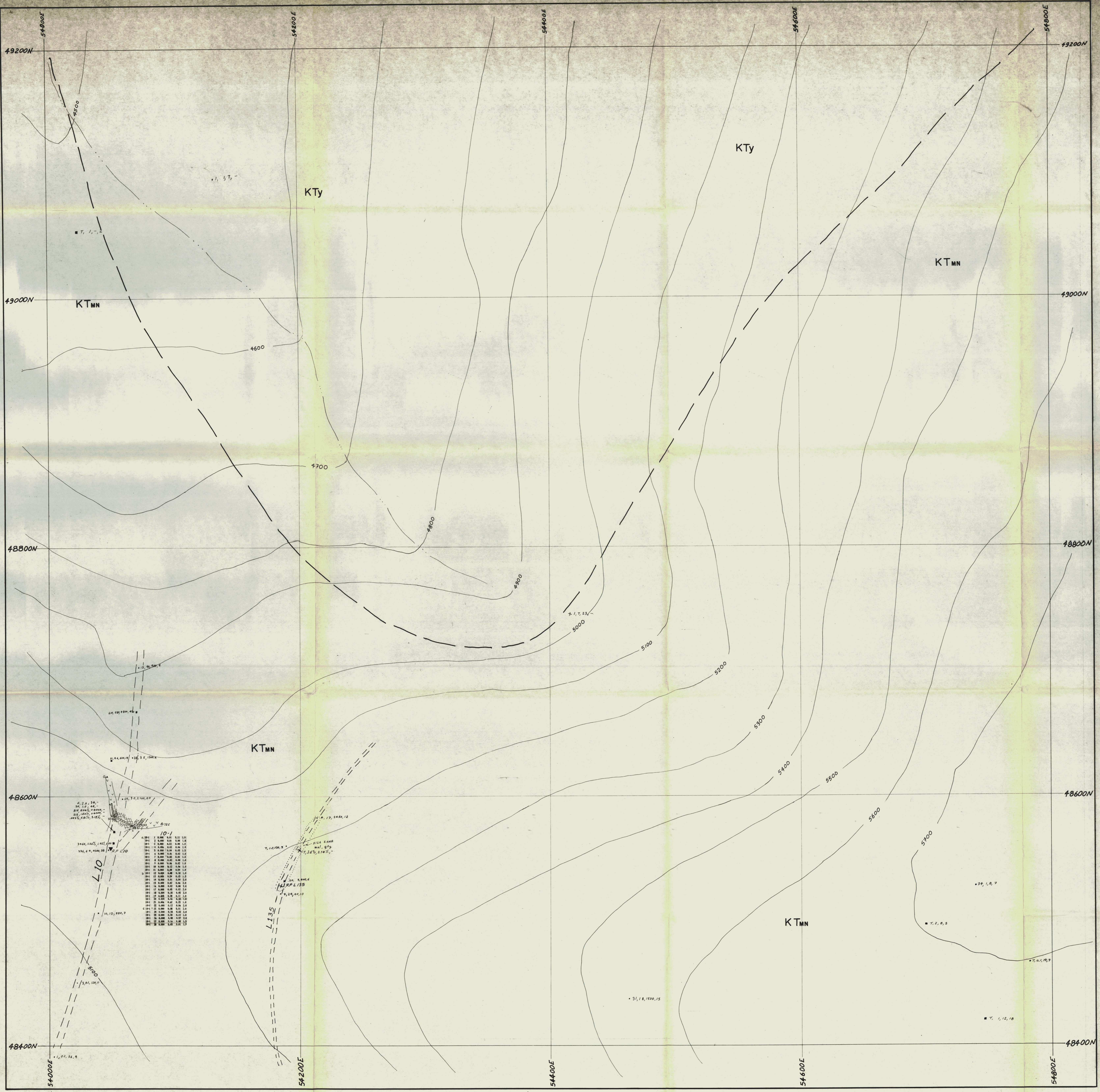
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTC** CARMAKES VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTMN** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5cm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTY** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTM
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 500 TOPOGRAPHICAL CONTOUR (Interval 100')
 - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - SURVEY MONUMENT
 - SURVEY PICKET
 - TRENCH SURVEY PICKET
 - REFERENCE POST FOR LINEAR (Surveyed, Approximate)
 - TRENCH WITH VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - Value greater than 10000
 - Troy ounces per Ton
 - Trace
 - GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23: 7M/16
GOLDBECK GILCH
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000





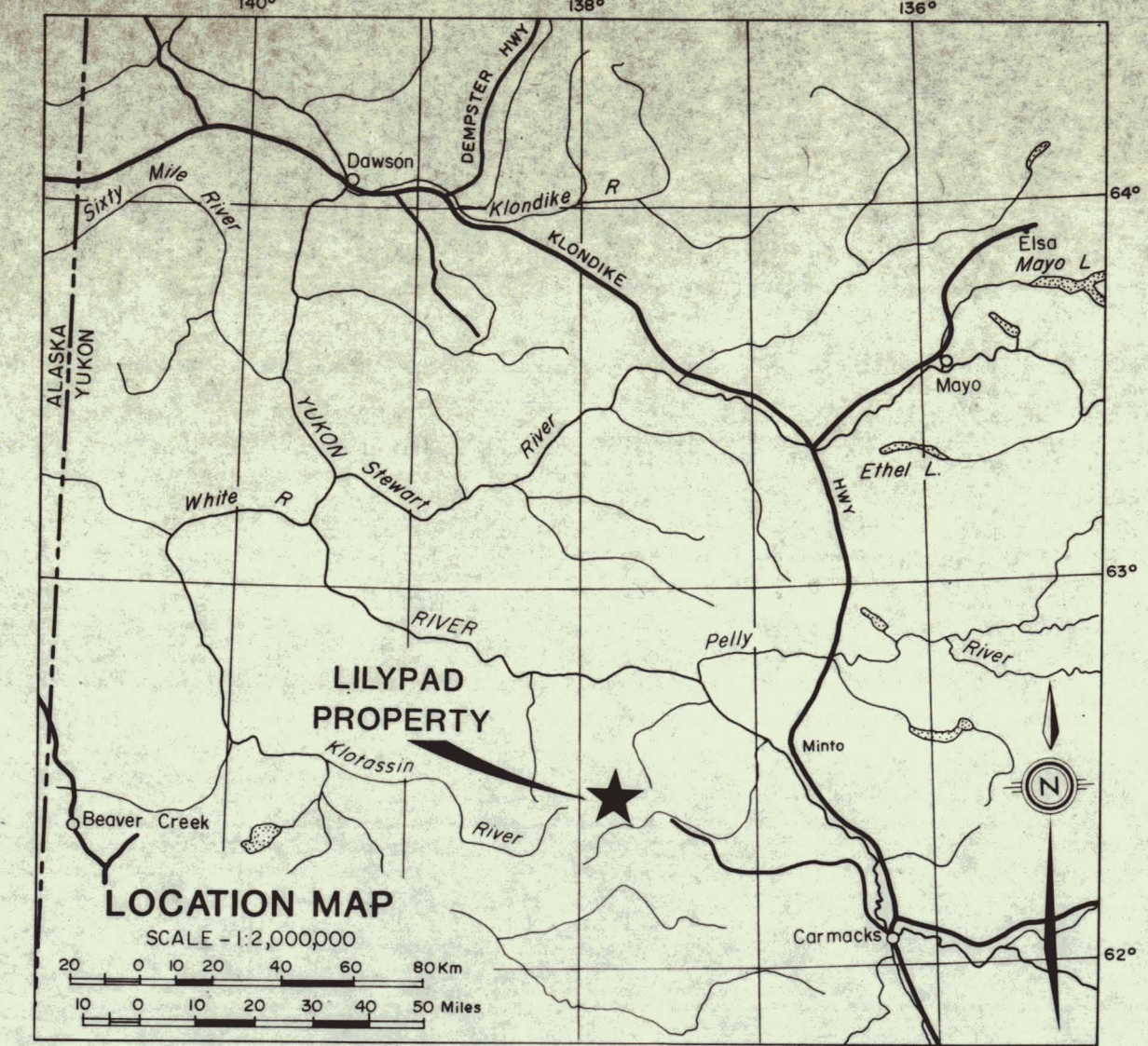
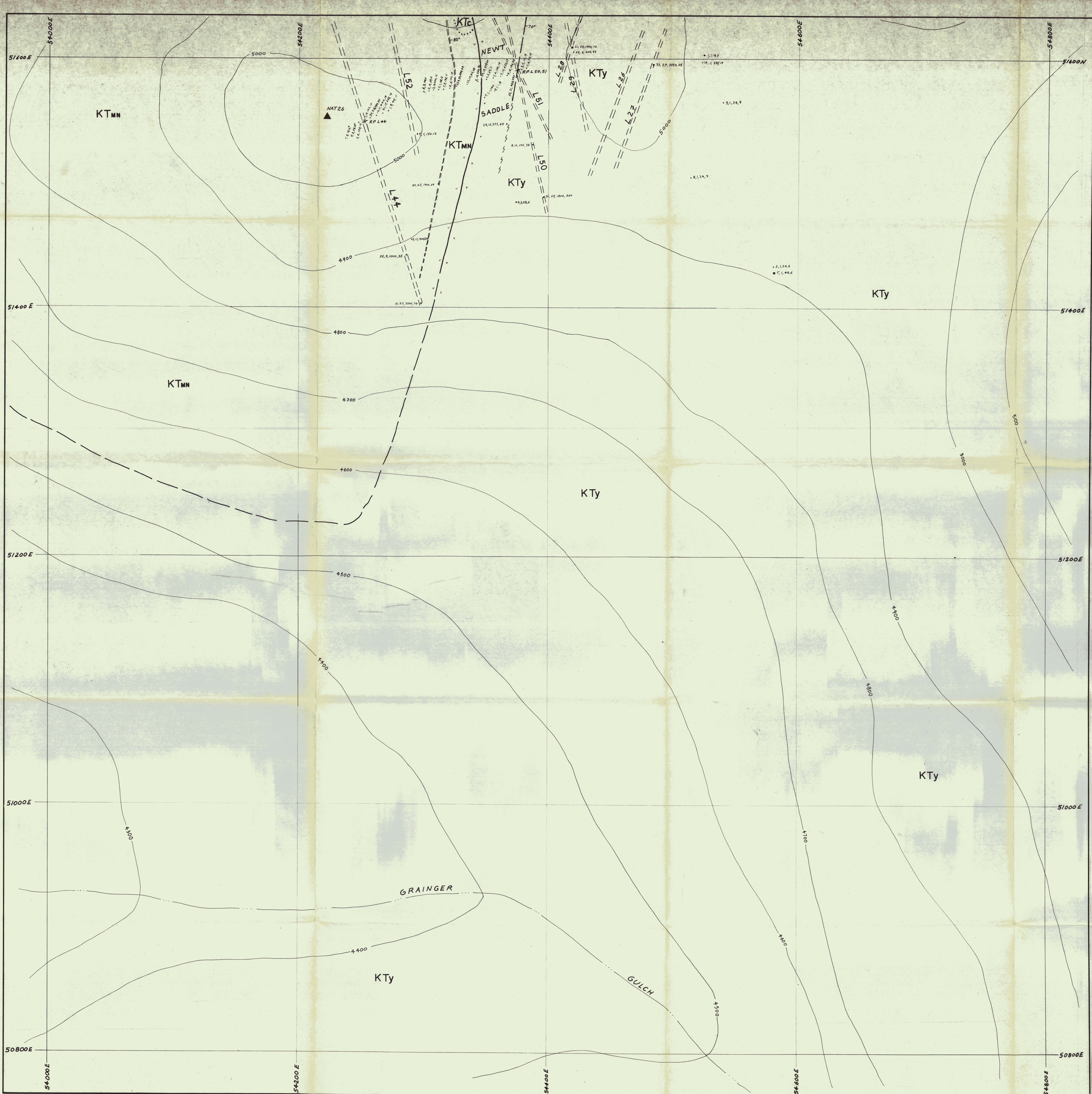
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes.
 - KTmn** MT NANSSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments.
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement.
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding.
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm).
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite.
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenites; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn.
- CRETACEOUS AND EARLIER
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks.
 - Mh** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite.
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURMALINIZATION
- VOLCANIC
- GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - - FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 100 --- TOPOGRAPHICAL CONTOUR (Interval 100')
- L12 --- ASSUMED SURFACE TRACE of LINEAR and NUMBER
- ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
Au, Ag, IO, Pb, As
 - +10K Value greater than 10000
 - g/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | | | | | |
|---------------|-----------|-----------|--------|-----------|
| Trench Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
| 7-3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23.7N/11
REID RIDGE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21)

| | | |
|-------|-------|--------|
| 10C/2 | 10C/1 | 10C/10 |
| 10C/5 | 10C/6 | 10C/7 |
| 10C/4 | 10C/3 | 10C/8 |

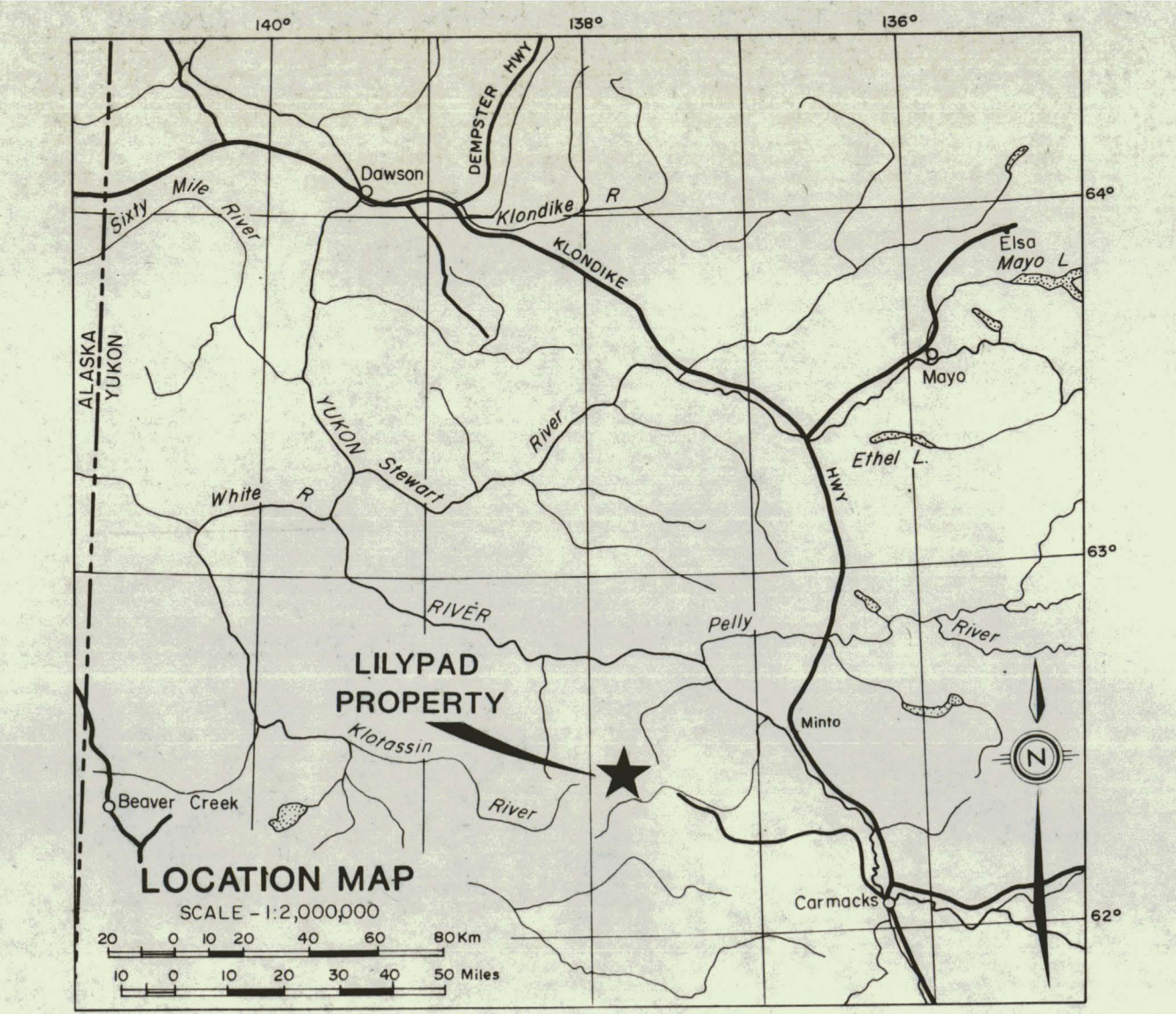
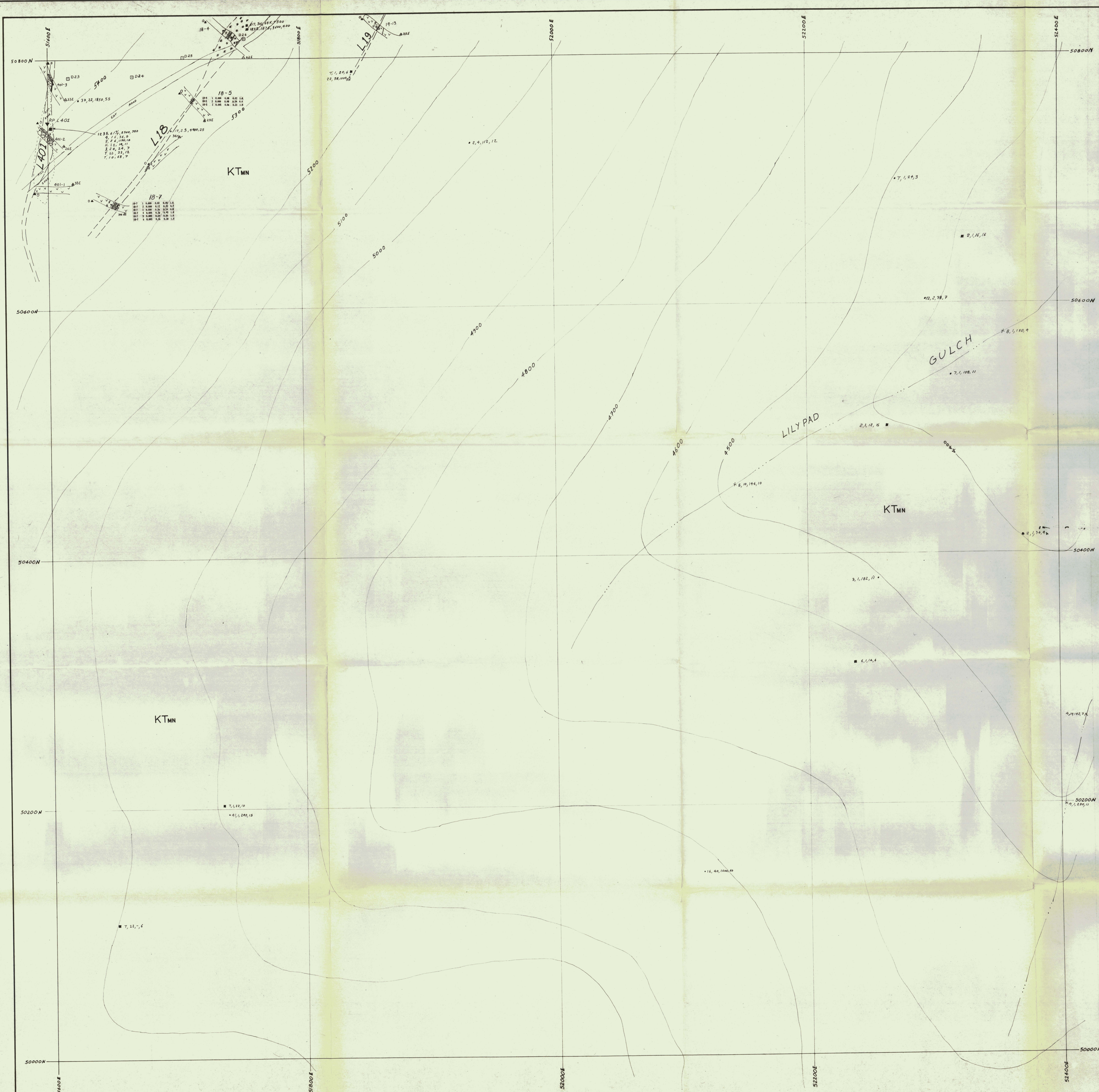
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmN** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5cm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SVENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (w-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- M₁** BASEMENT: Undifferentiated felsic intrusive rocks
 - M₂** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE**
- FELSITE or APLITE DYKE**
- STRONGLY ALTERED, FINE GRAINED GOUGE**
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE**
- BRECCIA**
- PERIPHERAL MANGANESE ALTERATION**
- TOURMALINIZATION**
- VOLCANIC**
- GRANITE/SVENITE**
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - -** FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
- - -** ASSUMED SURFACE TRACE OF LINEAR and NUMBER
- ▲** SURVEY MONUMENT
 - SURVEY PICKET
 - △** TRENCH SURVEY PICKET
 - △** REFERENCE POST for LINEAR (Surveyed, Approximate)
 - +** TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x** SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K** Value greater than 10000 (Au, Ag x10, Pb, As)
 - g/T** Troy ounces per Ton
 - T** Trace
 - +** GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au(oz/T) | Ag(oz/T) | Pb(%) | Width(m) |
|--------|--------|----------|----------|-------|----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23-10C/8
GRAINGER GULCH
ARCHER, CATHRO & ASSOCIATES (1981) LTD.
GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

20 40 60 80 100 120 140 160 180 200 Metres

990976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 10D/6 | 10D/7 | 10D/8 |
| 10D/3 | 10D/2 | 10D/1 |
| 7M/4 | 7M/5 | 7M/6 |

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTM** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTM

- CRETACEOUS AND EARLIER
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mh** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURNALIZATION
 - VOLCANIC
 - GRANITE/SYENITE

- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- ~ FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lia | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |

- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
 - ASSUMED SURFACE TRACE of LINEAR and NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000
 - g/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

| Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |

Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

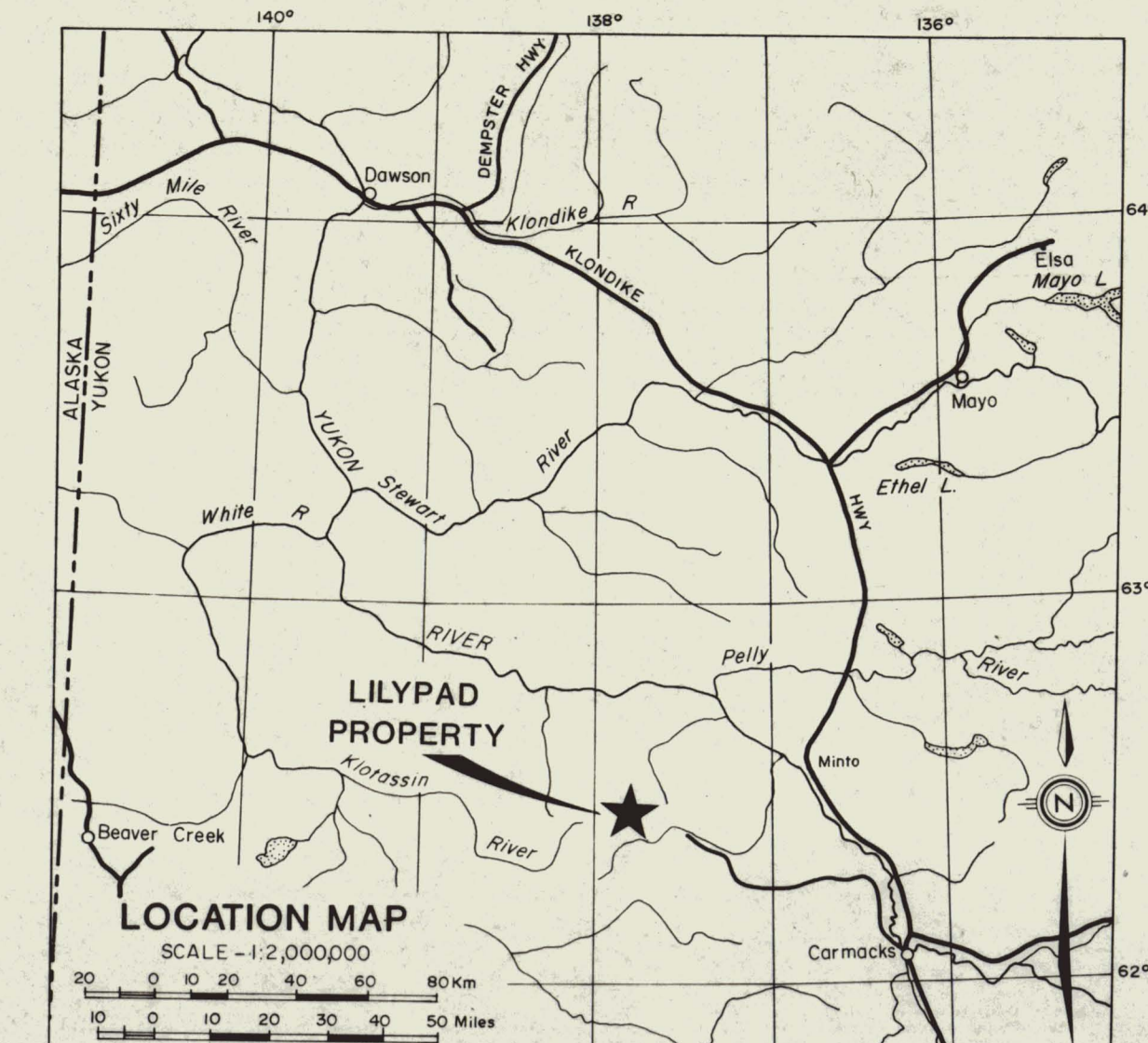
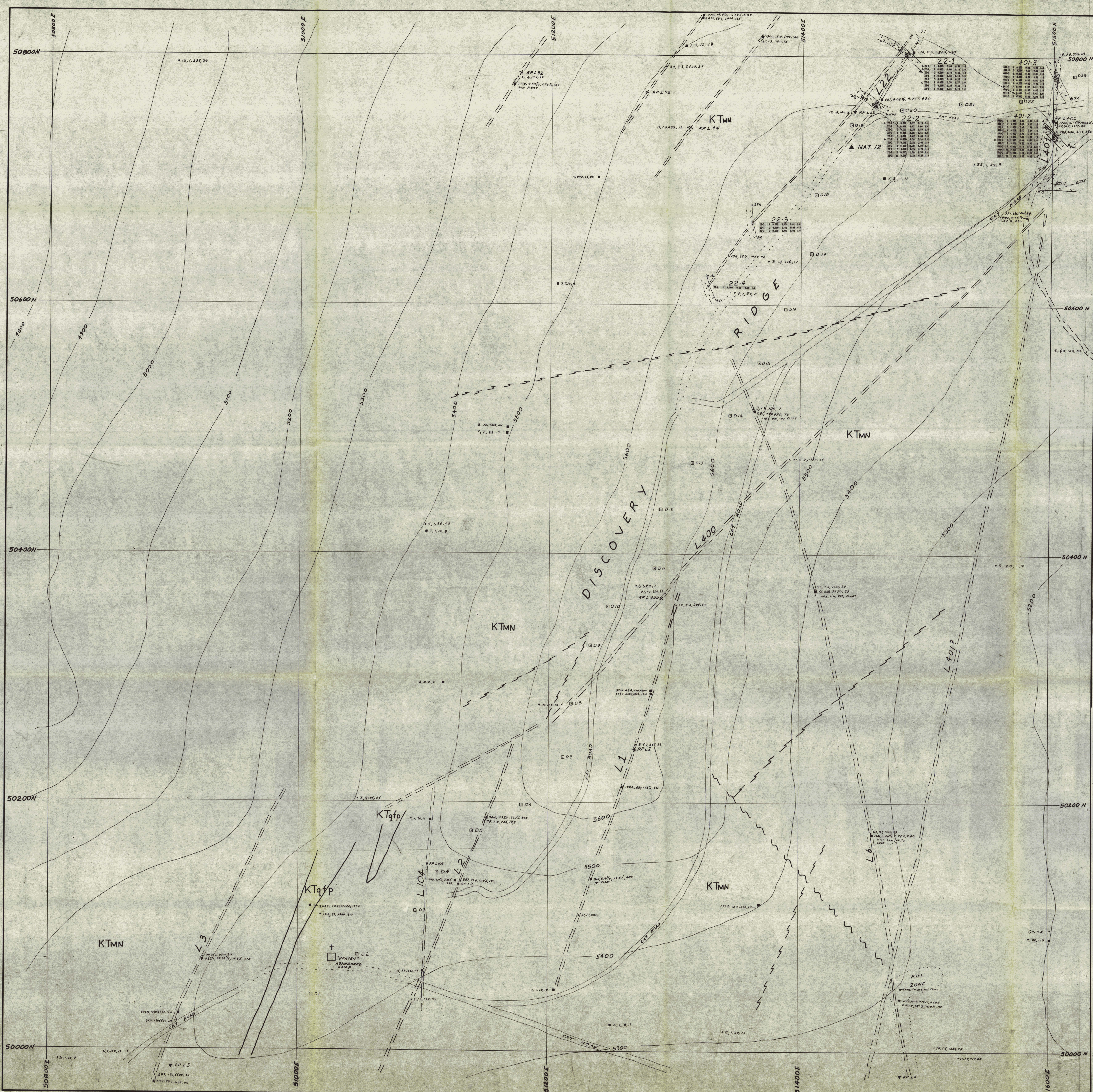
FIGURE N23:10D/2
LILYPAD GULCH
ARCHER, CATIRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

0 10 20 30 40 50 60 70 80 90 100 Metres

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 100/5 | 100/6 | 100/7 |
| 100/4 | 100/3 | 100/2 |
| 7M/5 | 7M/4 | 7M/3 |

LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTMN** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm; alteration to chlorite and yellowish grit with local quartz flooding)
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTY** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTMN
- CRETACEOUS AND EARLIER
- Mb** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURNALINIZATION
- VOLCANIC
- GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - - FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- IDEOGRAPHICAL**
- 100m TOPOGRAPHICAL CONTOUR (Interval 100')
 - - - ASSUMED SURFACE TRACE OF LINEAR and NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲²⁰⁰ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - - - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag x10, Pb, As
 - g/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - ▬ TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:10D/3
DISCOVERY

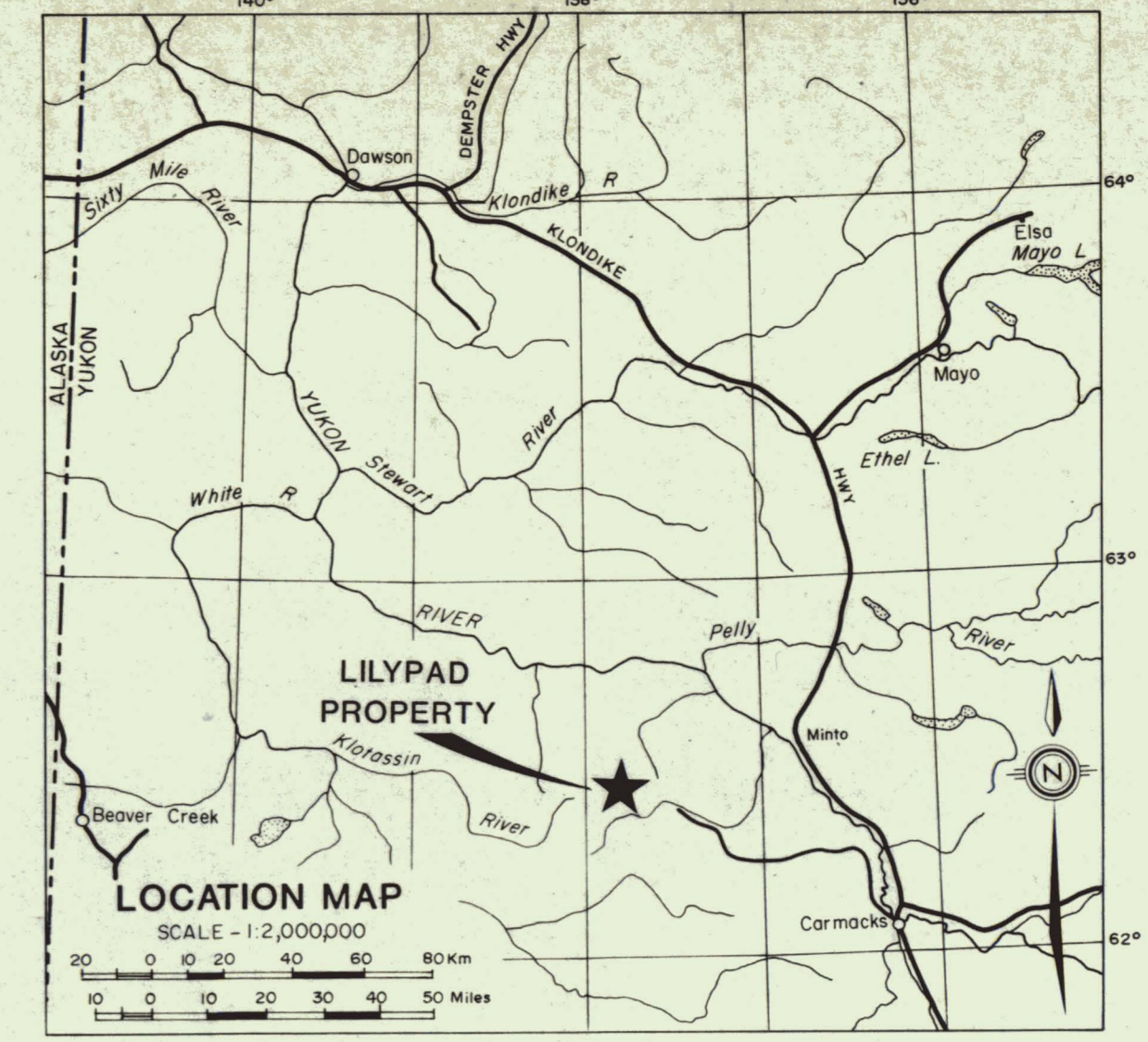
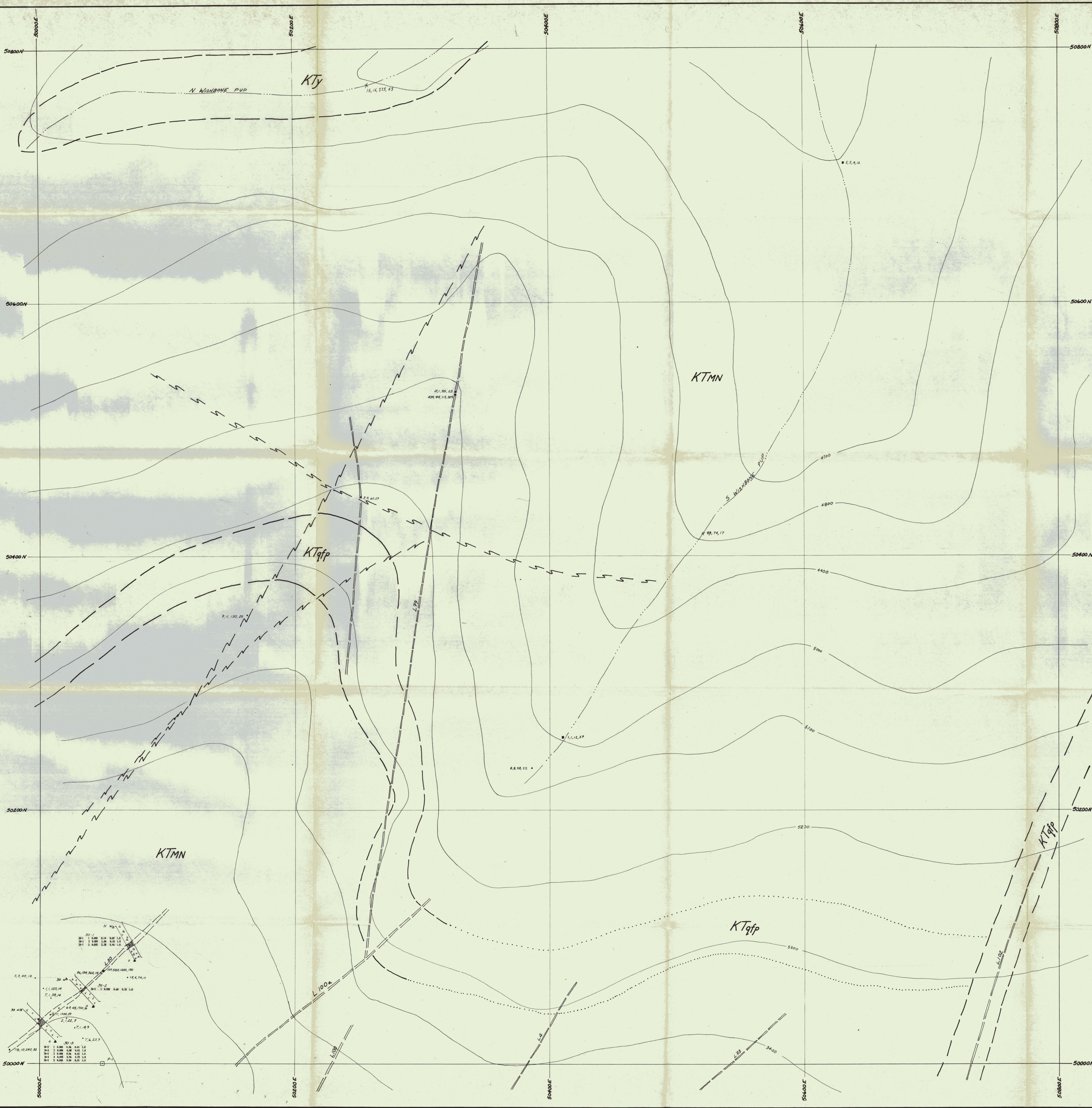
ARCHER, CATRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

0 10 20 30 40 50 60 70 80 90 100 Meters

090976



KEY TO ADJOINING MAP AREAS
(SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 11A/8 | 10D/5 | 10D/6 |
| 11A/1 | 10D/4 | 10D/3 |
| 6P/6 | 7M/5 | 7M/4 |

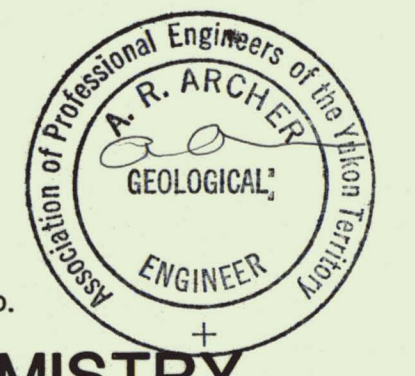
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-ephibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenites; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALOGICAL**
- MV** MINERALIZED VEIN
 - PD** PORPHYRY DYKE
 - FL** FELSITE or APLITE DYKE
 - SA** STRONGLY ALTERED, FINE GRAINED GOUGE
 - PA** PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - B** BRECCIA
 - MA** PERIPHERAL MANGANESE ALTERATION
 - T** TOURMALINIZATION
 - V** VOLCANIC
 - G/S** GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- F** FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 100** TOPOGRAPHICAL CONTOUR (Interval 100')
 - L/L** ASSUMED SURFACE TRACE OF LINEAR and NUMBER
 - ▲** SURVEY MONUMENT
 - SURVEY PICKET
 - ▲** TRENCH SURVEY PICKET
 - ▼** REFERENCE POST for LINEAR (Surveyed, Approximate)
 - T** TRENCH with VEIN EXPOSURE
 - ROAD** BULLDOZER ROAD
 - KILL ZONE** KILL ZONE
- GEOCHEMICAL**
- x** SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
Au, Ag, Pb, As
 - +10K** Value greater than 10000
 - oz/T** Troy ounces per Ton
 - T** Trace
 - ↓** GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

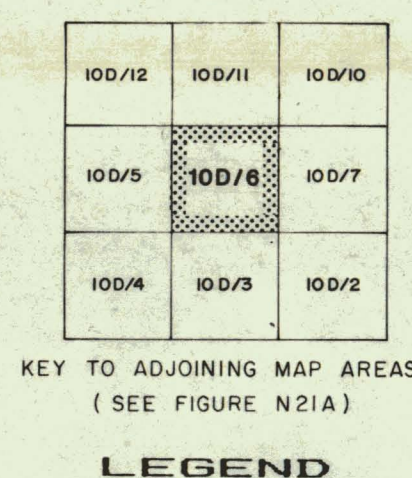
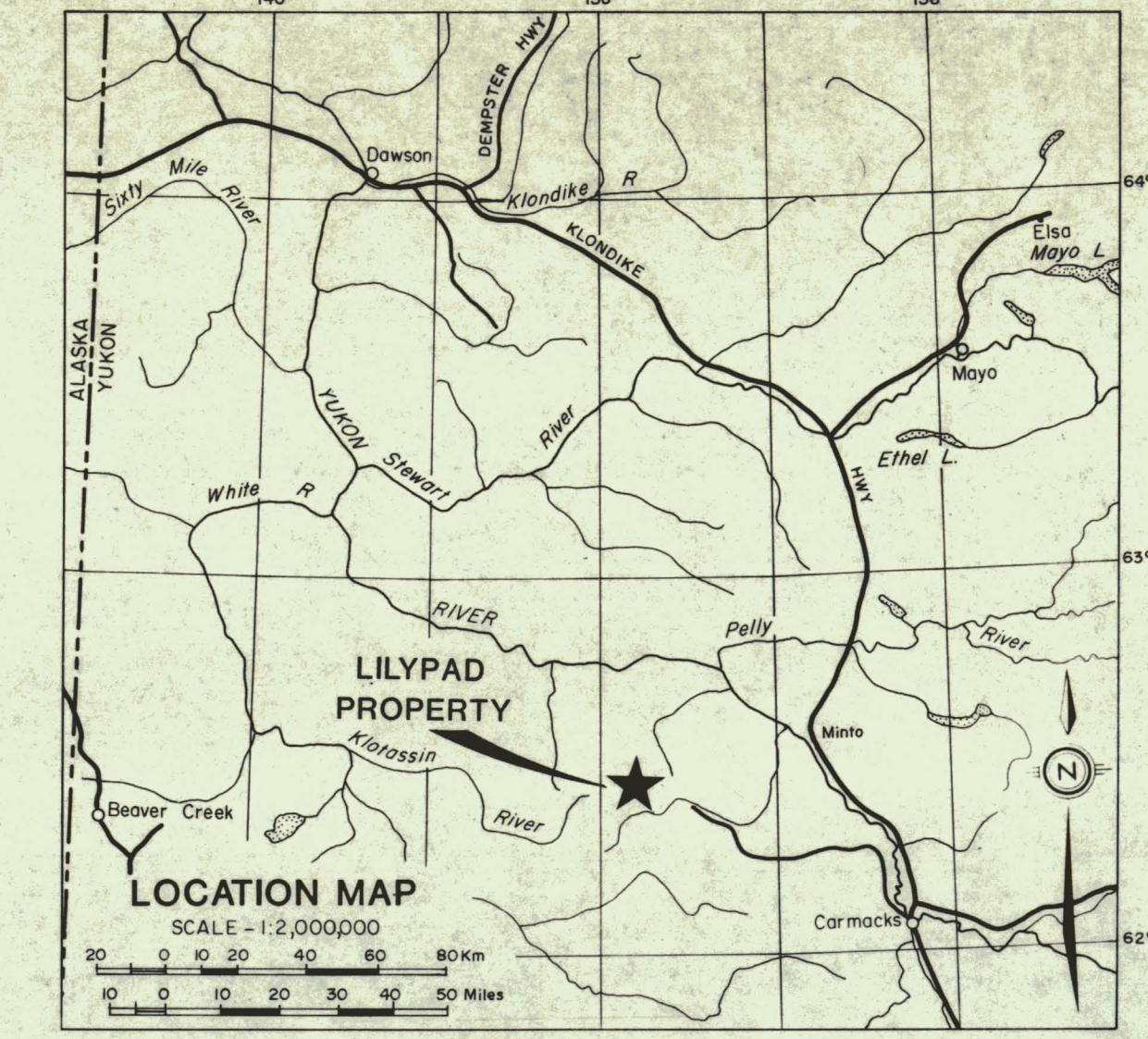
FIGURE N23: 10D/4
SOUTH WISHBONE
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

0 10 20 30 40 50 60 70 80 90 100 Metres





- GEOLOGICAL**
- CRETACEOUS AND(?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mb** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURNALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 1200 TOPOGRAPHICAL CONTOUR (Interval 100')
 - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - SURVEY MONUMENT
 - SURVEY PICKET
 - TRENCH SURVEY PICKET
 - REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - Value greater than 10000
 - Troy ounces per Ton
 - Trace
 - GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | | | | | | |
|--------|--------|----------|----------|-------|----------|
| Trench | Sample | Au(oz/T) | Ag(oz/T) | Pb(%) | Width(m) |
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

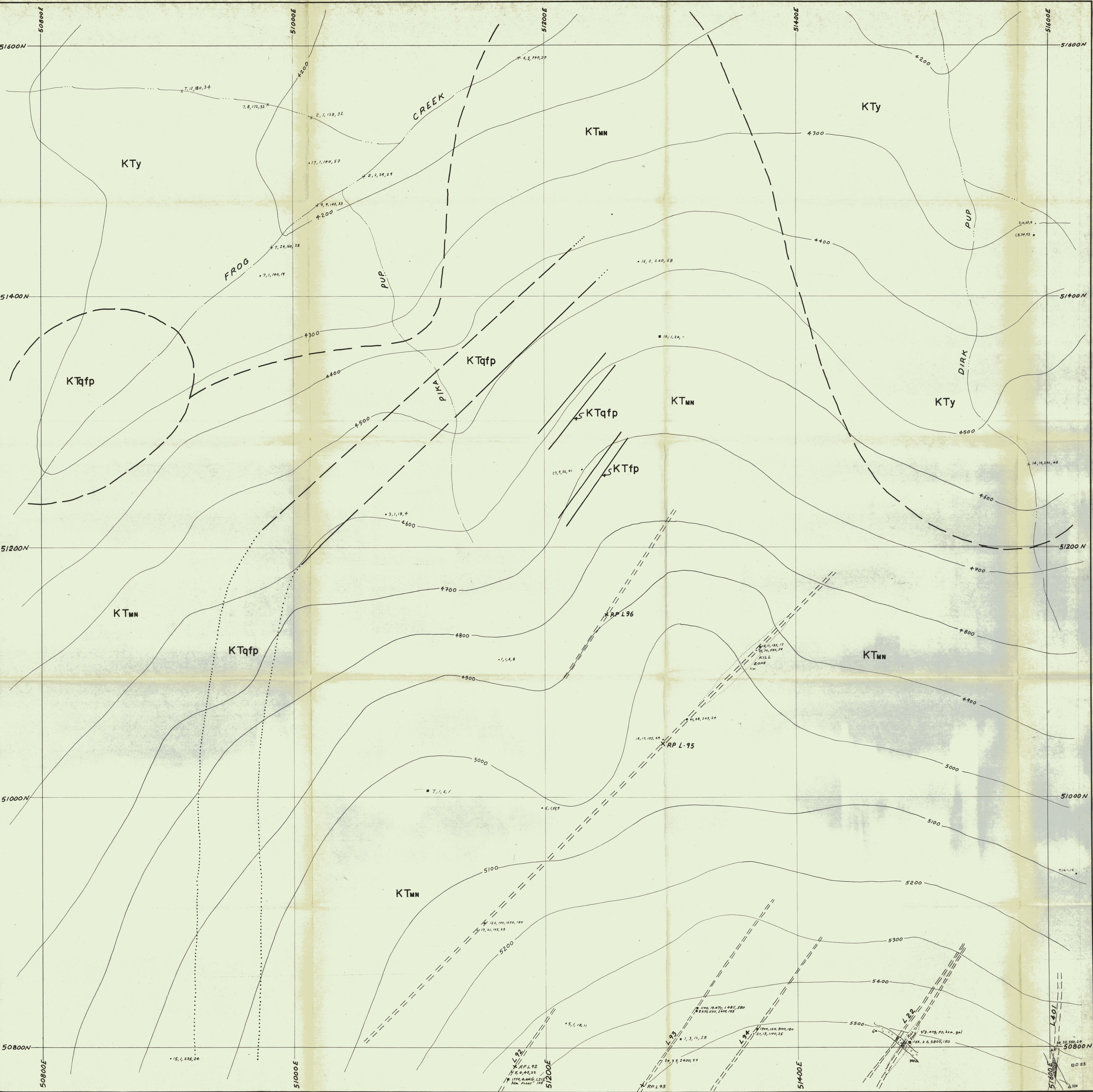
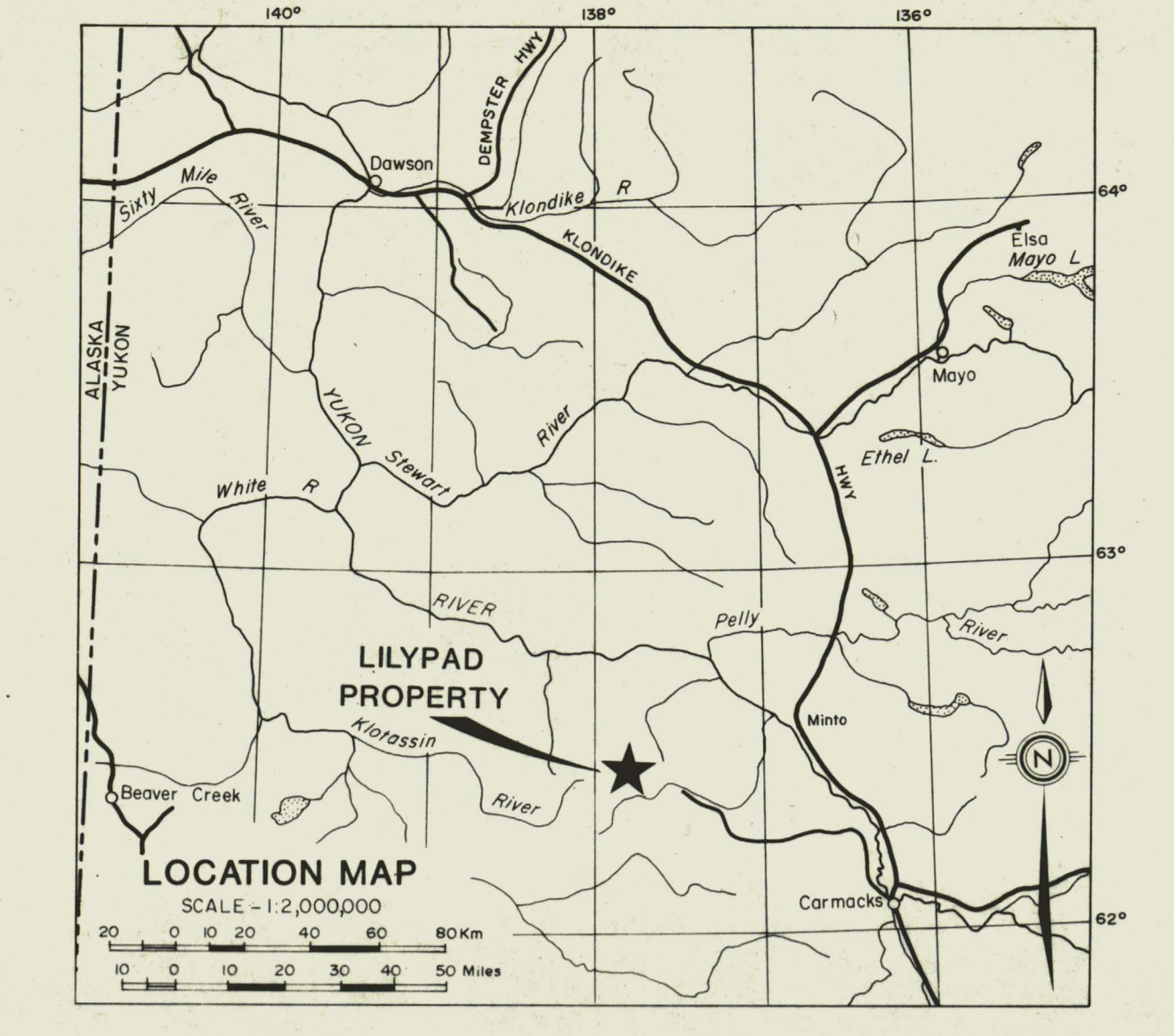
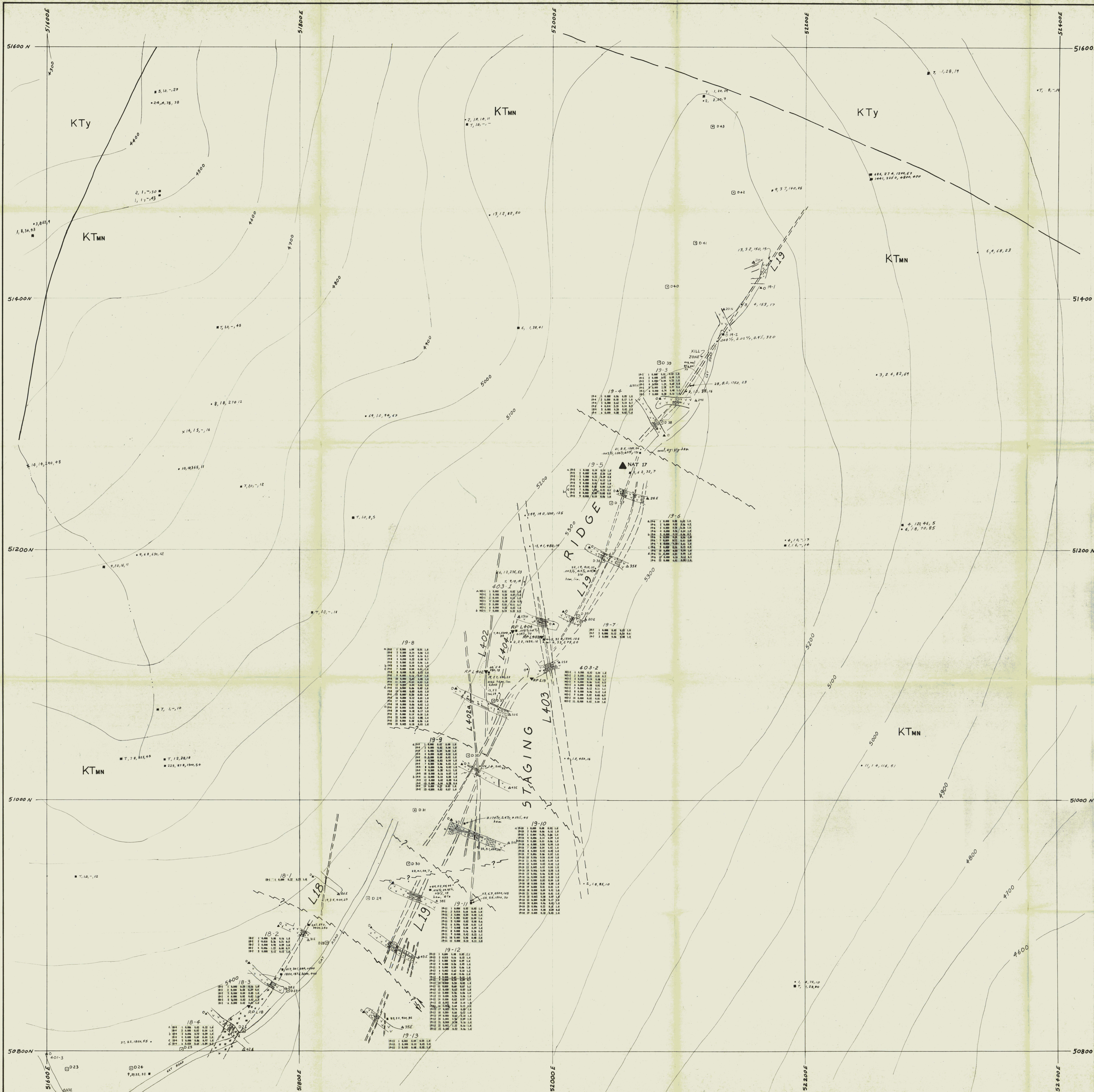


FIGURE N23: 10D/6
ARCHER, CATRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|--------|--------|-------|
| 100/11 | 100/10 | 100/9 |
| 100/6 | 100/7 | 100/8 |
| 100/3 | 100/2 | 100/1 |

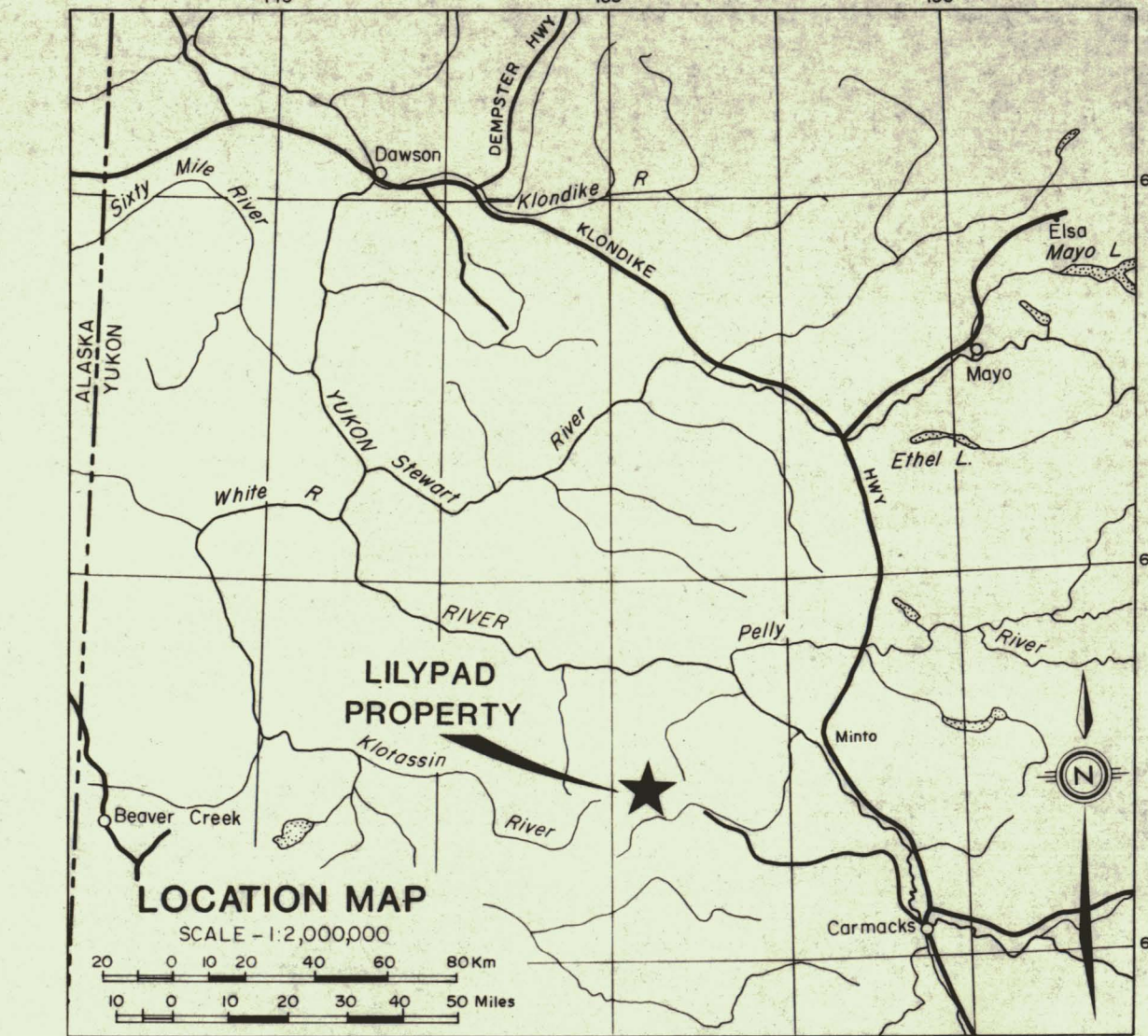
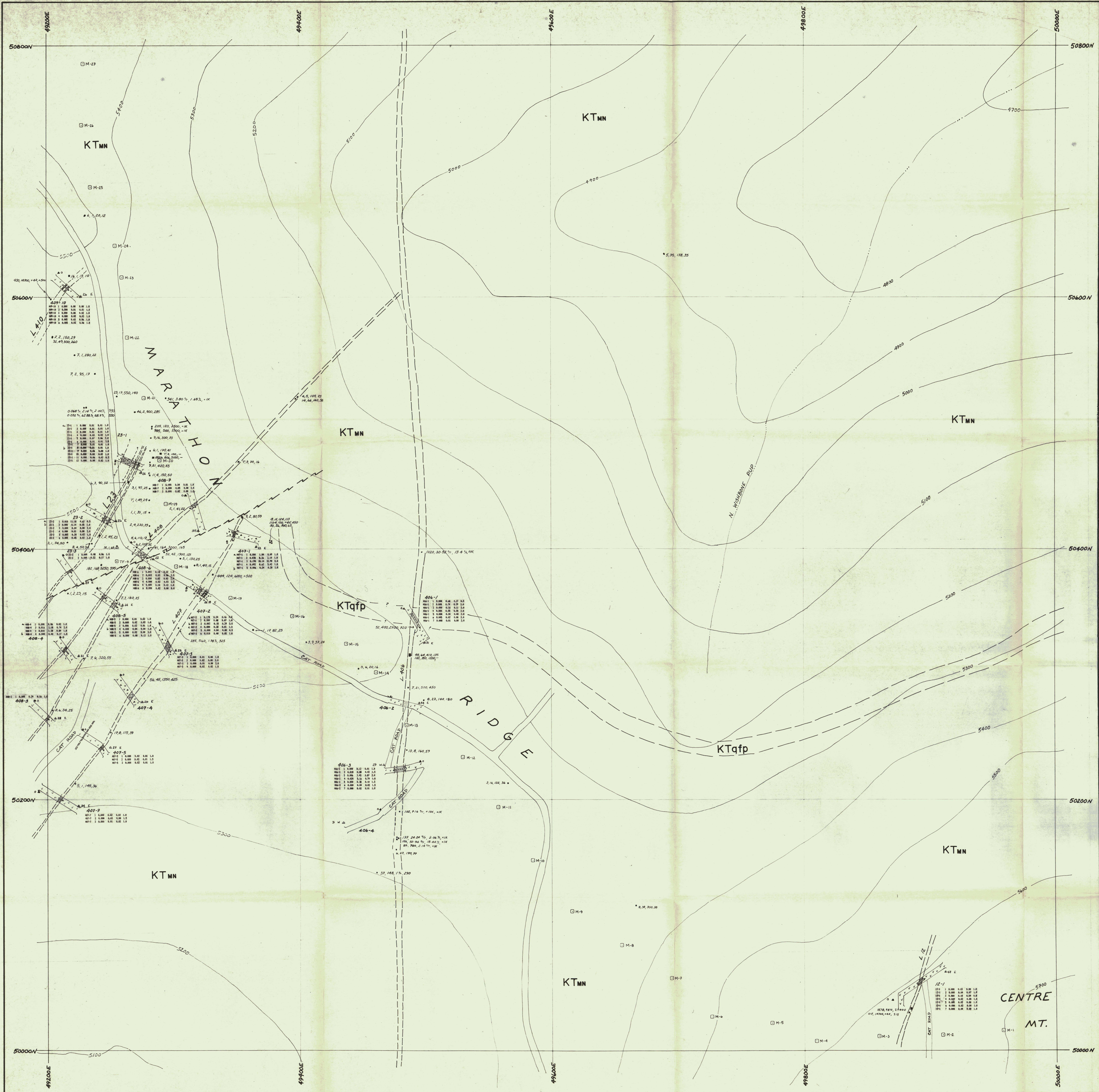
LEGEND

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded; dark grey olivine-augite basalt flows and associated diabase dikes
 - KTmn** MT NANSSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent; dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTrfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered; feldsparitic to aegirineitic, fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz; in places, locally biotite-rich; may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER**
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anorthite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 500 TOPOGRAPHICAL CONTOUR (Interval 100')
 - L12 ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
- STAGING**
- ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - ▲ BULLDOZER ROAD
 - ▲ KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 (Au, Ag, Pb, As)
 - %T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - ▬ TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench | Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|--------|--------|-----------|-----------|--------|-----------|
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:100/7
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 11A/7 | 11A/8 | 11A/9 |
| 11A/2 | 11A/1 | 11A/3 |
| 11A/5 | 11A/6 | 11A/4 |

LEGEND

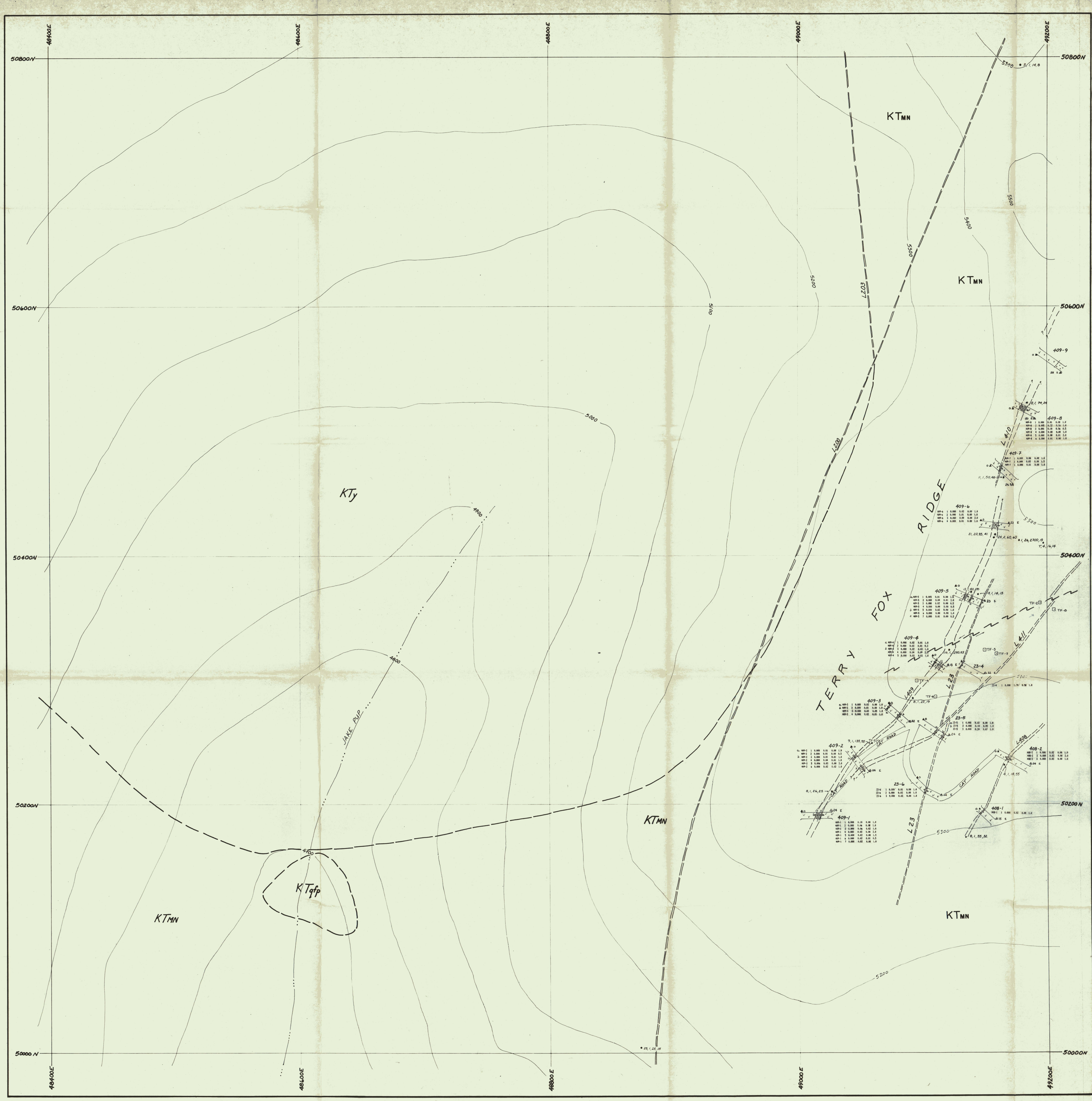
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubby, thick-bedded, dark gray olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mn** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURMALINIZATION
- VOLCANIC
- GRANITE, SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - - - - FAULT (Showing down-faulted side)
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anlesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- TOPOGRAPHICAL CONTOUR (Interval 100')
- - - - - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
- ▲ SURVEY MONUMENT
 - ▴ SURVEY PICKET
 - ▲ TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST FOR LINEAR (Surveyed, Approximate)
 - ▬ TRENCH with VEIN EXPOSURE
 - ▬ BULLDOZER ROAD
 - ▬ KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag, Pb, As
 - g/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - ▬ TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | Trench Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
|---------------|-----------|-----------|--------|-----------|
| 7-3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:11A/1
MARATHON RIDGE
ARCHER, CARRHO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

990976

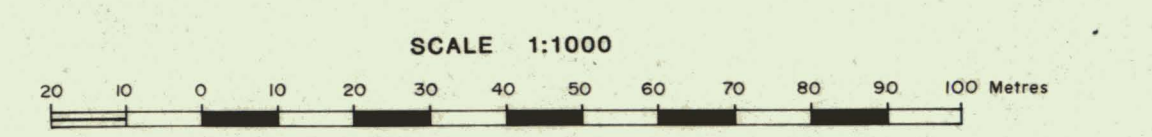
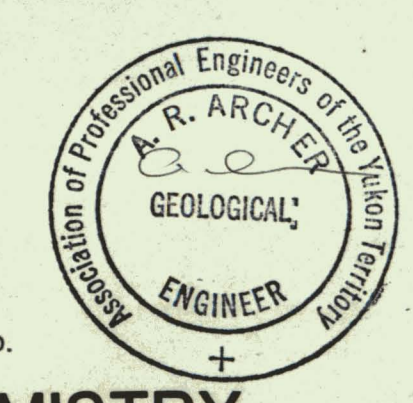


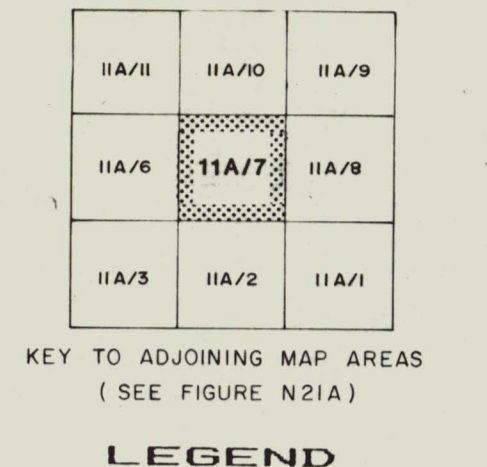
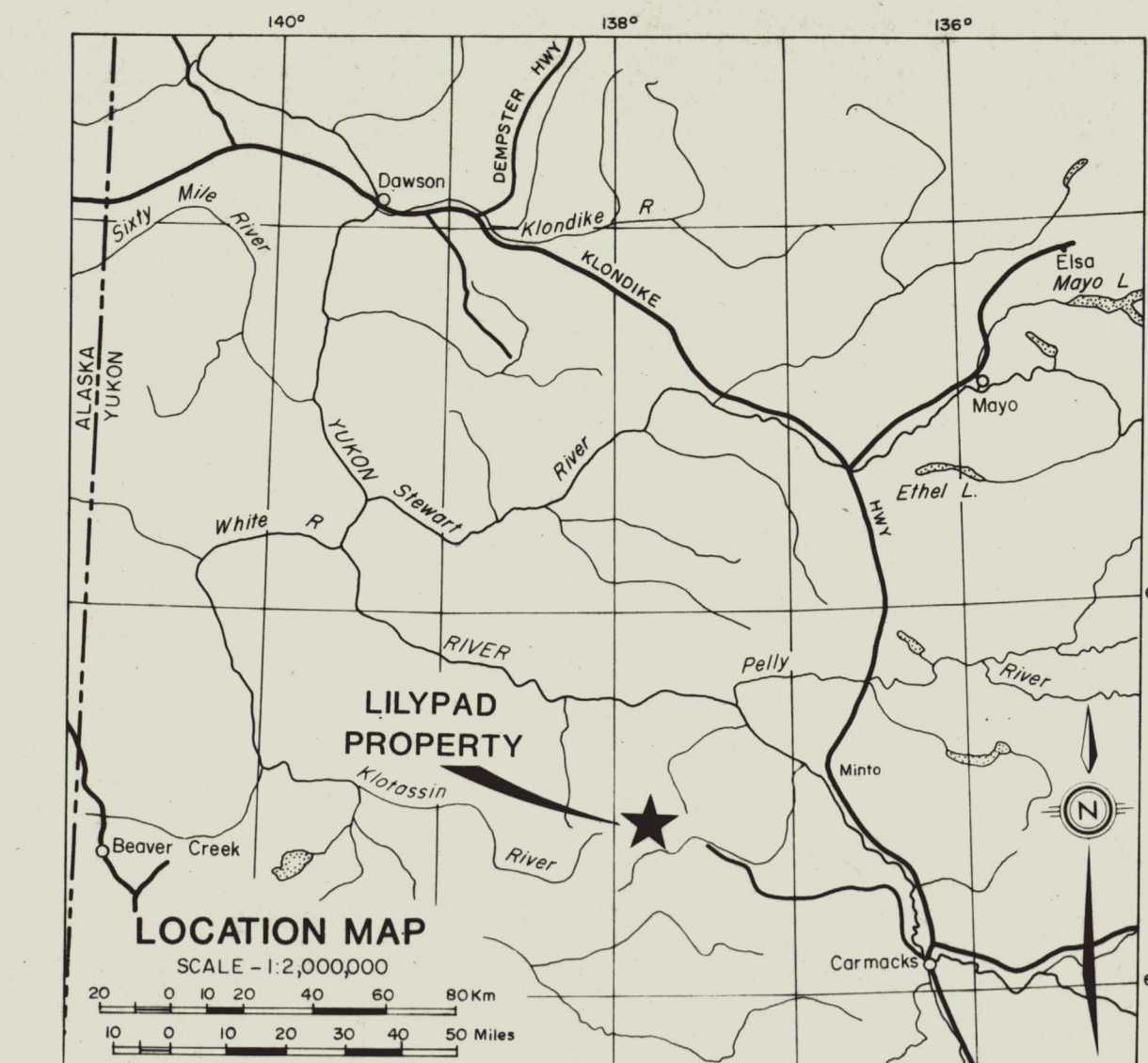
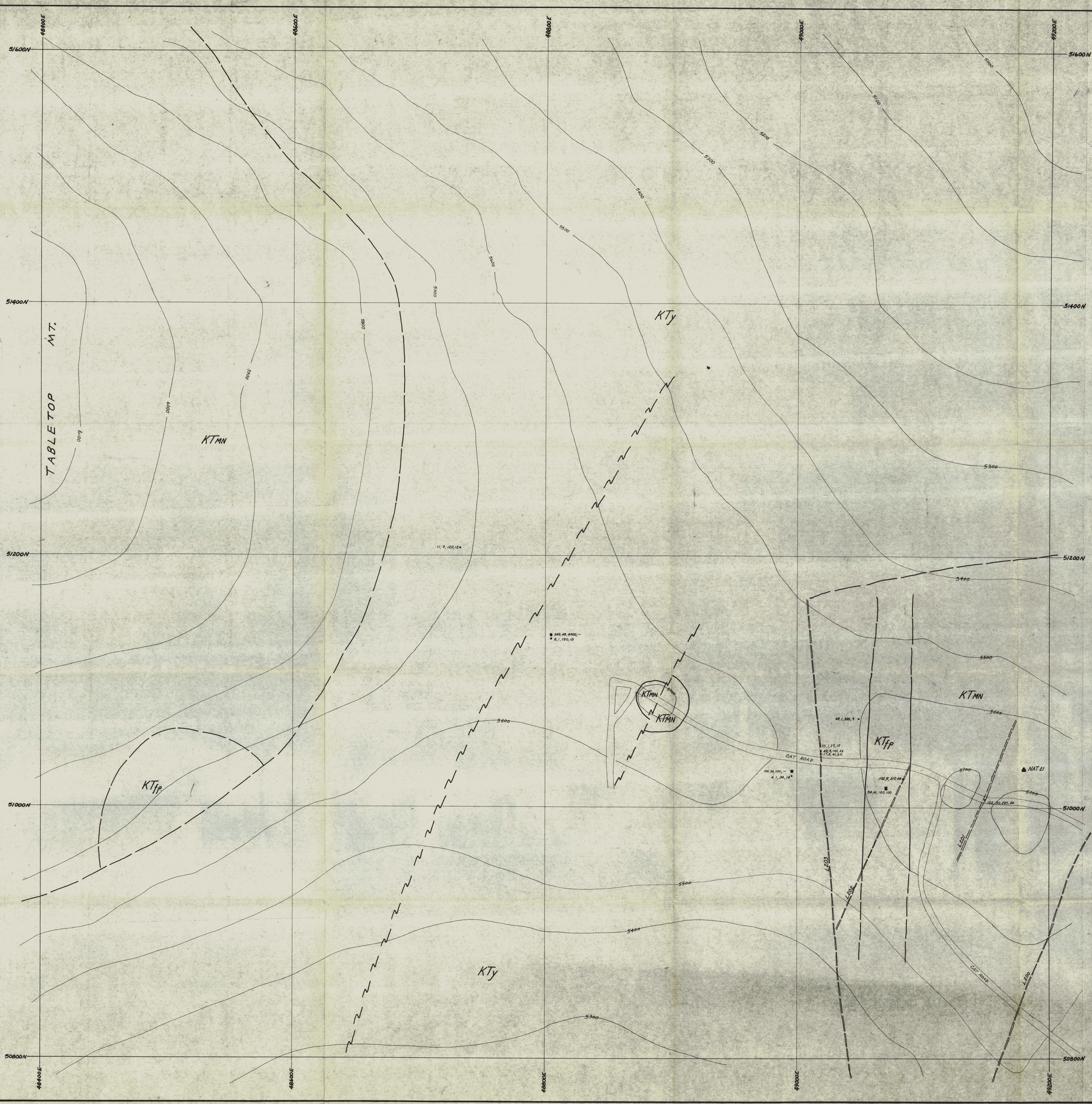
KEY TO ADJOINING MAP AREAS
(SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| IIA/6 | IIA/7 | IIA/8 |
| IIA/3 | IIA/2 | IIA/1 |
| SP/4 | SP/3 | SP/2 |

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTmn** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTj** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff; equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTmn
- CRETACEOUS AND EARLIER**
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)**
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 100 — TOPOGRAPHICAL CONTOUR (Interval 100')
 - L-2- ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - ▲^{20'} TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x • SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Ag, As, Cu, Pb, Zn
 - g/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | | | | | | |
|--------|--------|----------|----------|-------|----------|
| Trench | Sample | Au(oz/T) | Ag(oz/T) | Pb(%) | Width(m) |
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:11A/2
RIDGE OF HOPE
ARCHER, CATRO & ASSOCIATES (1981) LTD.
GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE





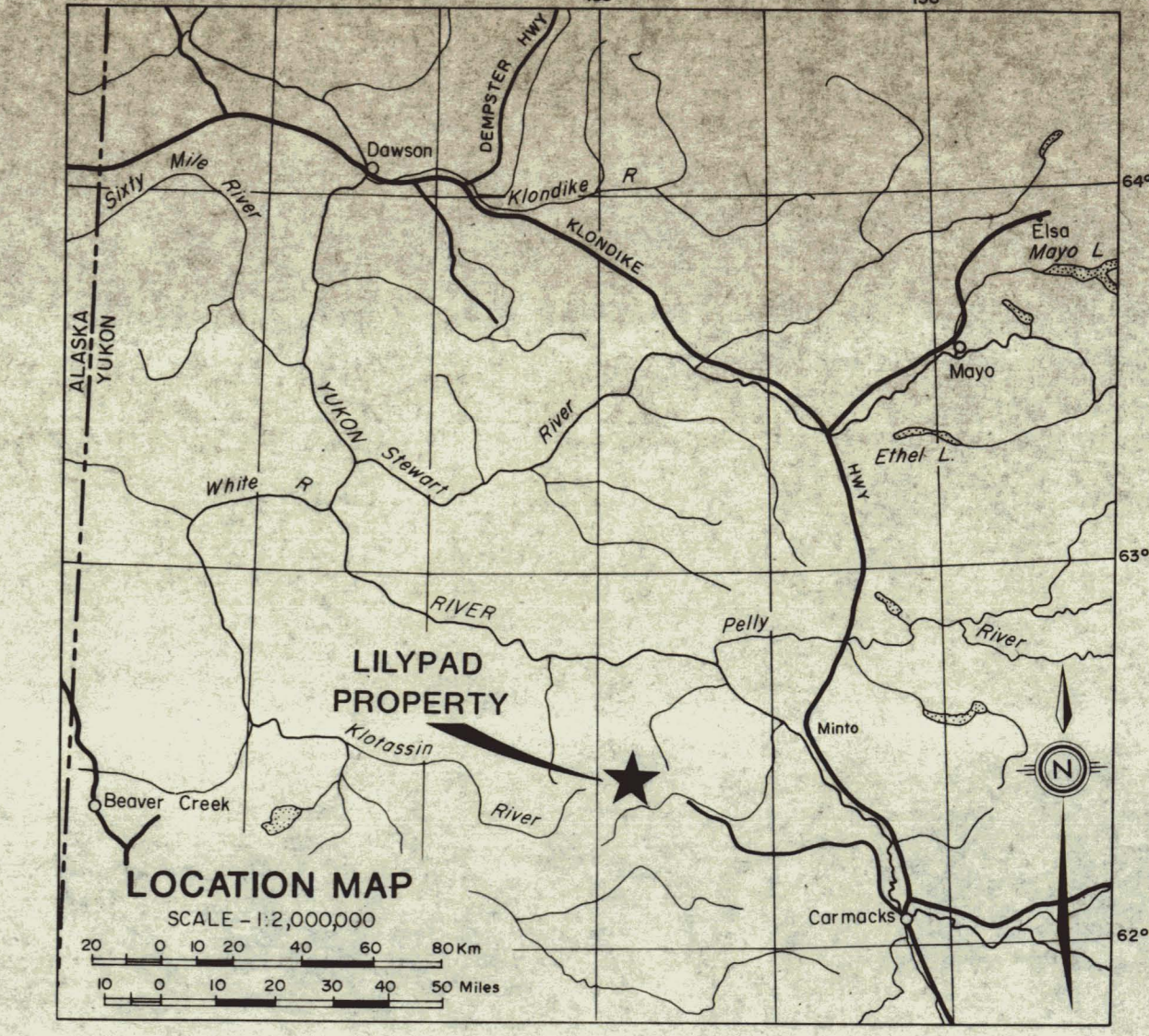
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTC** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mh** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN**
- PORPHYRY DYKE
 - FELSITE or APLITE DYKE
 - STRONGLY ALTERED, FINE GRAINED GOUGE
 - PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
 - BRECCIA
 - PERIPHERAL MANGANESE ALTERATION
 - TOURMALINIZATION
 - VOLCANIC
 - GRANITE/SYENITE
- FAULT (Showing down-faulted side)**
- MINERALOGICAL**
- | | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |
- TOPOGRAPHICAL**
- 5200 TOPOGRAPHICAL CONTOUR (Interval 100')
 - L12 ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
- SYMBOLS**
- ▲ SURVEY MONUMENT
 - TRENCH PICKET
 - ▲^o TRENCH SURVEY PICKET
 - ▼ + REFERENCE POST for LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD BULLDOZER ROAD
 - KILL ZONE
- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000
 - oz/t Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)
- FORMAT OF ASSAY TABLES**
- | | | | | | |
|--------|--------|----------|----------|-------|----------|
| Trench | Sample | Au(oz/T) | Ag(oz/T) | Pb(%) | Width(m) |
| 7-3 | 3 | 0.006 | 0.16 | 0.53 | 1.0 |
- Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23:11A/7
WEST GOLDLOCKS
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000

090976



KEY TO ADJOINING MAP AREAS (SEE FIGURE N21A)

| | | |
|-------|-------|-------|
| 11A/0 | 11A/9 | 10D/2 |
| 11A/7 | 11A/8 | 10D/5 |
| 11A/2 | 11A/1 | 10D/4 |

- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY
- KTc** CARMACKS VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dykes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled, aphanitic to fine grained, vitreous to sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent (?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dykes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTgal** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic); fine to medium grained, grey, green and buff, equigranular, feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTW

- CRETACEOUS AND EARLIER
- Mj** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- MINERALIZED VEIN
- PORPHYRY DYKE
- FELSITE or APLITE DYKE
- STRONGLY ALTERED, FINE GRAINED GOUGE
- PROPYLITICALLY ALTERED, RUBBLY WALLROCK GOUGE
- BRECCIA
- PERIPHERAL MANGANESE ALTERATION
- TOURMALINIZATION
- VOLCANIC
- GRANITE/SYENITE
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- - - FAULT (Showing down-faulted side)

MINERALOGICAL

| | | | |
|-----|--------------|-----|------------|
| ang | anglesite | jar | jarosite |
| asp | arsenopyrite | lim | limonite |
| az | azurite | mal | malachite |
| cpy | chalcopyrite | py | pyrite |
| gal | galena | qtz | quartz |
| hem | hematite | sph | sphalerite |

- TOPOGRAPHICAL**
- 100 --- TOPOGRAPHICAL CONTOUR (Interval 100')
 - - - ASSUMED SURFACE TRACE OF LINEAR AND NUMBER
 - ▲ SURVEY MONUMENT
 - SURVEY PICKET
 - △ TRENCH SURVEY PICKET
 - ▽ + REFERENCE POST FOR LINEAR (Surveyed, Approximate)
 - TRENCH with VEIN EXPOSURE
 - CAT ROAD
 - KILL ZONE

- GEOCHEMICAL**
- x SURFACE GEOCHEMICAL SAMPLE SITE (Soil, Rock, Silt)
 - +10K Value greater than 10000 Au, Ag, Cu, Pb, Zn
 - 9/T Troy ounces per Ton
 - T Trace
 - ↓ GRAB SAMPLE SITE
 - TRENCH ASSAY SITES, in direction of arrow (Not to scale)

FORMAT OF ASSAY TABLES

| | | | | |
|---------------|-----------|-----------|--------|-----------|
| Trench Sample | Au (oz/T) | Ag (oz/T) | Pb (%) | Width (m) |
| 7-3 | 0.006 | 0.16 | 0.53 | 1.0 |

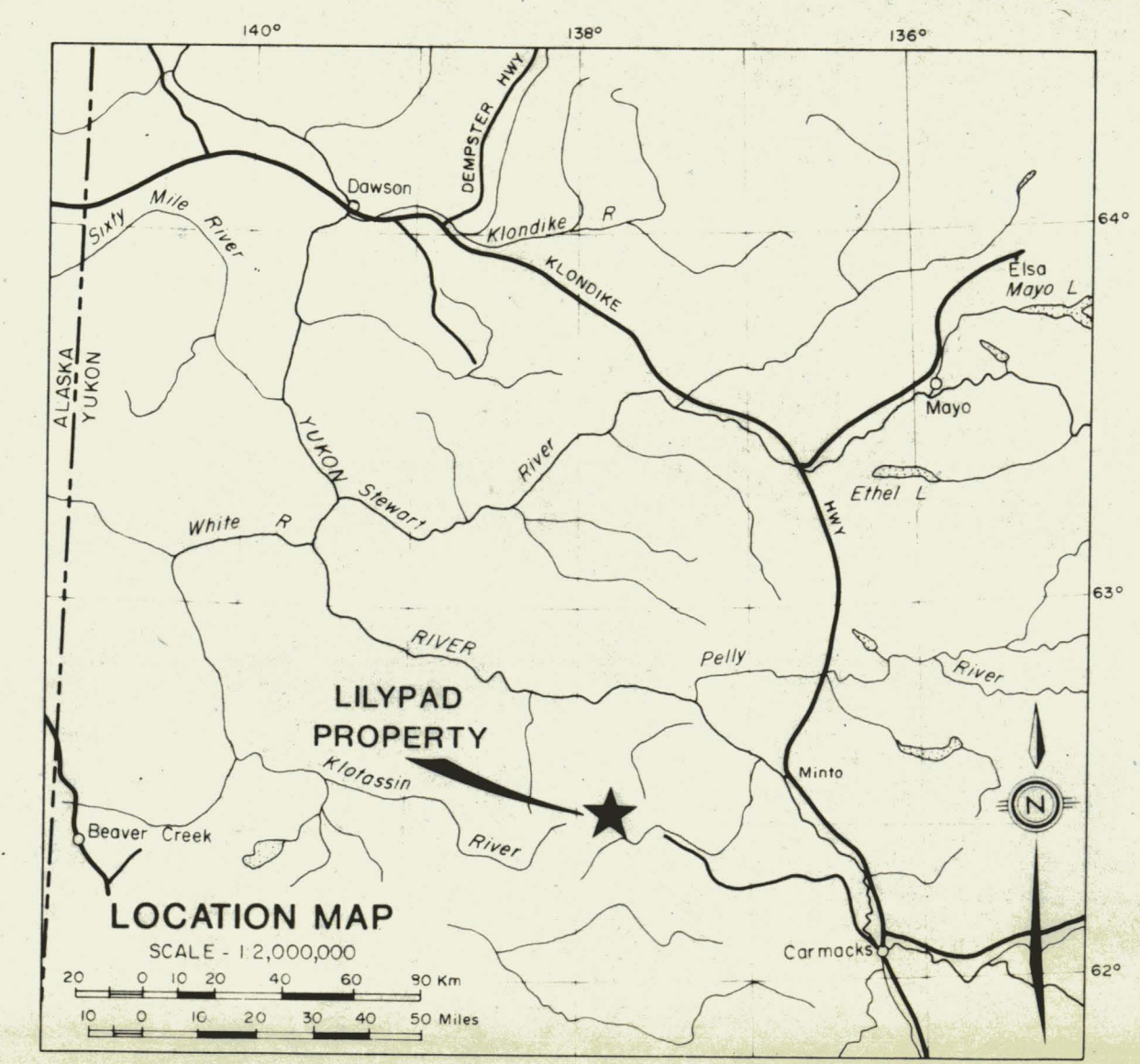
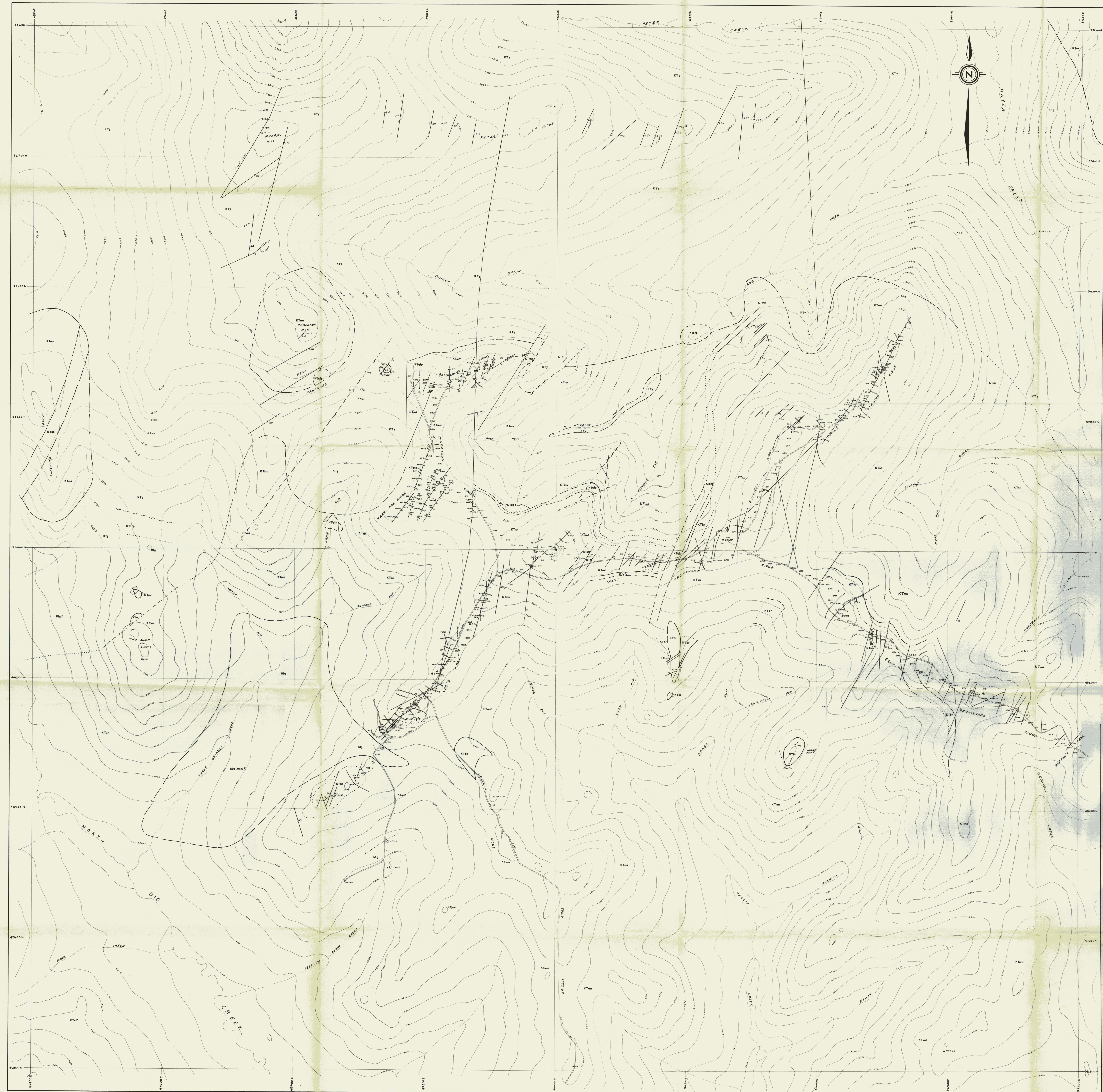
Note - An assay of zero indicates Trace
A width of zero indicates a grab sample

FIGURE N23-11A/B
EAST GOLDILOCKS
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

GEOLOGY AND GEOCHEMISTRY
LILYPAD PROPERTY
NAT JOINT VENTURE

SCALE 1:1000
0 10 20 30 40 50 60 70 80 90 100 Metres

990976



- LEGEND**
- GEOLOGICAL**
- CRETACEOUS AND (?) TERTIARY**
- KTe** CARMACK'S VOLCANICS: Dun to chocolate-brown weathering, rubbly, thick-bedded, dark grey olivine-augite basalt flows and associated diabase dikes
 - KTm** MT NANSEN VOLCANICS: Blocky, dark grey weathering, thin-bedded to massive, competent, dark green, grey, red and mottled; aphanitic to fine grained, vitreous, sugary, quartz-feldspar-hornblende subaqueous tuffs, pyro- and epiclastic breccias and flows; commonly fragmental, with intercalated sediments
 - KTbr** FRAGMENTAL ROCKS: Coarse grained vent(?) breccias containing clasts (to 30cm) of undifferentiated volcanics and basement
 - KTfp** FELDSPAR PORPHYRY: Sills, dikes and plugs of dark grey-green weathering, sugary to vitreous, quartz-feldspar-amphibole matrix containing 10-20% plagioclase phenocrysts (to 2cm); alteration to chlorite and yellowish grit with local quartz flooding
 - KTqfp** QUARTZ FELDSPAR PORPHYRY: As KTfp with subhedral quartz phenocrysts (to 5mm)
 - KTga** ALASKITE: Light tan weathering, leucocratic, aphanitic to coarse grained granite
 - KTy** SYENITE: Pink, grey and rusty weathering, fresh to weakly altered (propylitic to argillic), fine to medium grained, grey, green and buff, equigranular feldspar-hornblende-biotite syenite; commonly porphyritic (K-feldspar) with up to 10% quartz in places; locally biotite-rich; may be plutonic equivalent of KTm
- CRETACEOUS AND EARLIER**
- Mg** BASEMENT: Undifferentiated felsic intrusive rocks
 - Mm** BASEMENT: Undifferentiated metamorphic rocks, including schists, gneiss and quartzite
- GEOLOGICAL CONTACT (Defined, Approximate, Assumed)
- ~~~~~** FAULT (Showing down-faulted side)

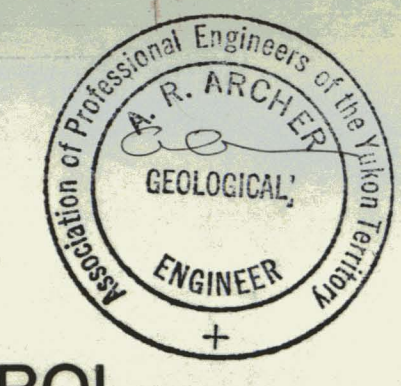
- TOPOGRAPHICAL**
- 100'** TOPOGRAPHICAL CONTOUR (Interval 100')
 - MAPPED LINEAR AND REFERENCE POINT
 - ▲** SURVEY MONUMENT
 - SURVEY PICKET
 - TRENCH
 - BULLDOZER ROAD

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

MAP AREAS INCLUDED

FIGURE N24
 ARCHER, CATRO & ASSOCIATES (1981) LTD.
**GEOLOGY
 AND SURVEY CONTROL**
 LILYPAD PROPERTY
 NAT JOINT VENTURE

SCALE 1:8000



Statement I

Statement of Expenditures
Surveying, Air Photography,
Geochemical Sampling and Geological Mapping
Lilypad 1-429; Newt 1-132, 135-163 Cls.

Management

Archer, Cathro & Associates (1981) Limited \$ 7,000.00

Labour

| | | |
|--|-----------------|-----------|
| E. Onasick (crew chief) - 26 days at \$220/day | \$ 5,720.00 | |
| H. Oiye (geologist) - 29 days at \$162/day | 4,698.00 | |
| L. Lindinger (geologist) - 49 days at \$162/day | 7,938.00 | |
| J. Robertson (student) - 25 days at \$101/day | 2,525.00 | |
| B. Jenkins (student) - 31 days at \$89/day | 2,759.00 | |
| M. Trudzik (student) - 27 days at \$86/day | 2,322.00 | |
| B. Goldbeck (surveyor) - 45 days at \$95/day | 4,275.00 | |
| J. Duke (student) - 13 days at \$95/day | 1,235.00 | |
| D. Charters (student) - 3 days at \$86/day | 258.00 | |
| D. Eaton (geologist) - 4 days at \$230/day | 920.00 | |
| D. Heberlein (geologist) - 10 days at \$137/day | <u>1,370.00</u> | 34,020.00 |

Expenses

| | | |
|--|-----------------|-------------------|
| Room and board - 262 crew days, 27 days management personnel, 50 days helicopter crew; total 339 mandays at \$40/day | 13,560.00 | |
| Helicopter - contract Hughes 500C from TNTA - total 172.8 hours at \$350/hr | 60,480.00 | |
| Helicopter fuel - 172.8 hours at 22gal/hr at \$3.80/gal at Bow Camp | 14,446.00 | |
| Assaying, Chemex Labs Ltd. - 1384 geochemical assays for Pb, As, Au & Ag at \$10.40 each | 14,393.00 | |
| Hosford, Impey & Welter - | | |
| 1. Surveys | 9,572.00 | |
| 2. Air photography | <u>4,601.00</u> | <u>117,052.00</u> |

Total

\$158,072.00

Statement II

Statement of Expenditures
Bulldozer Trenching, Road, Camp & Airstrip Construction
Trench Mapping & Sampling
Lilypad 1-429; Newt 1-132, 135-163

Management

Archer, Cathro & Associates (1981) Limited \$ 3,000.00

Labour

| | | |
|--|---------------|-----------|
| M.P. Phillips (geologist) - 31 1/2 days at \$250/day | \$ 7,875.00 | |
| J. Duke (student) - 30 days at \$95/day | 2,850.00 | |
| L. Lindinger (geologist) - 6 days at \$162/day | <u>972.00</u> | 11,697.00 |

Expenses

| | | |
|---|-----------------|------------------|
| Bulldozing - J-Nor Enterprises - 464 hours at \$75/hr | 34,800.00 | |
| Bulldozer fuel - 464 hours at 6 gal/hr at \$3.70/gal | 10,300.00 | |
| Helicopter support - bulldozer repair etc. - 18.9 hours TNTA Hughes 500C at \$350/hr plus 22 gal/hr fuel at \$3.80/hr | 8,195.00 | |
| Helicopter support - TNTA Hughes 500C 4.2 hours at \$350/hr plus 22 gal/hr fuel at \$3.80/gal | 1,821.00 | |
| Bell 206B casual rates plus fuel | 1,265.00 | |
| Trench samples - 706 samples assayed for Pb, Ag, & Au - Chemex Labs Ltd. at \$13.60 each | <u>9,601.00</u> | <u>65,982.00</u> |

Total \$80,679.00

ARCHER, CATIRO

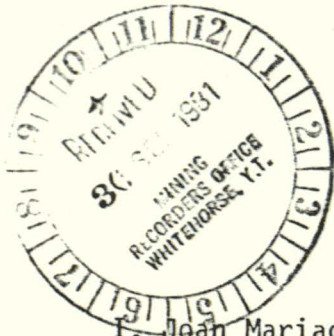
AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

Box 4127, WHITEHORSE, Y.T. Y1A 3S9 667-4415

STANDARD BUILDING, VANCOUVER, B.C. 688-2568

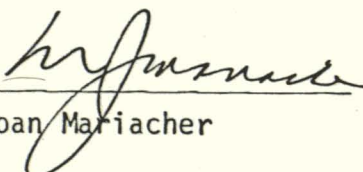
1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8



AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Y.T. make oath and say:

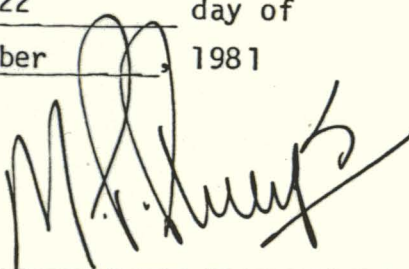
That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Lilypad 1-429, Newt 1-132 & 135-163 mineral claims on Claim Sheet 115I/5 & 115J/8 is accurate.


Joan Mariacher

Sworn before me at Whitehorse, Y.T.

this 22 day of

September, 1981


Notary, Yukon Territory

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