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Report On

SOIL GEOCHEMICAL AND BULLDOZER TRENCHING PROGRAM

Piglet 1-32; Quiver 1, 2, 11, 12, 21-24, 25, 30, 32, 34;

and Sow 1-5 Claims

(YA70902-YA70933, YA68429, YA68430, YA68439, YA68440

YA68449-YA68452, YA68709, YA68714, YA68716, YA68718

and YB00422-YB00426)

NTS 95D/12

Latitude 60°31'; Longitude 127°52'

December, 1987

J.T. Dennett, B.Sc.

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Work done between June 4 and September 8, 1987

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INTRODUCTION

Hyland Gold Joint Venture (Silverquest Resources Ltd., Novamin Resources Inc. and NDU Resources Ltd.) was formed in spring 1987 to explore Silverquest's Piglet claims in southeastern Yukon (see Figure 1 on the following page). The claims cover a 3,000 by 2,300 m area of weakly to strongly anomalous gold, arsenic and bismuth soil geochemical response from which grab samples taken in 1986 returned up to 4.0 g/t Au over 10 m.

The 1987 Hyland Gold Joint Venture (HGJV) field program was funded by Novamin and NDU, and was conducted between June 4 and September 8 by a crew of four under the authors' supervision. Work included minor soil geochemistry on the margin of the existing grid, road construction, bulldozer trenching and resurveying of baselines and crosslines cut in the early 1970's to convert the old imperial grid to metric. The Authors' Statements of Qualifications appear in Appendix I while personnel who worked on the project are listed in Appendix II.

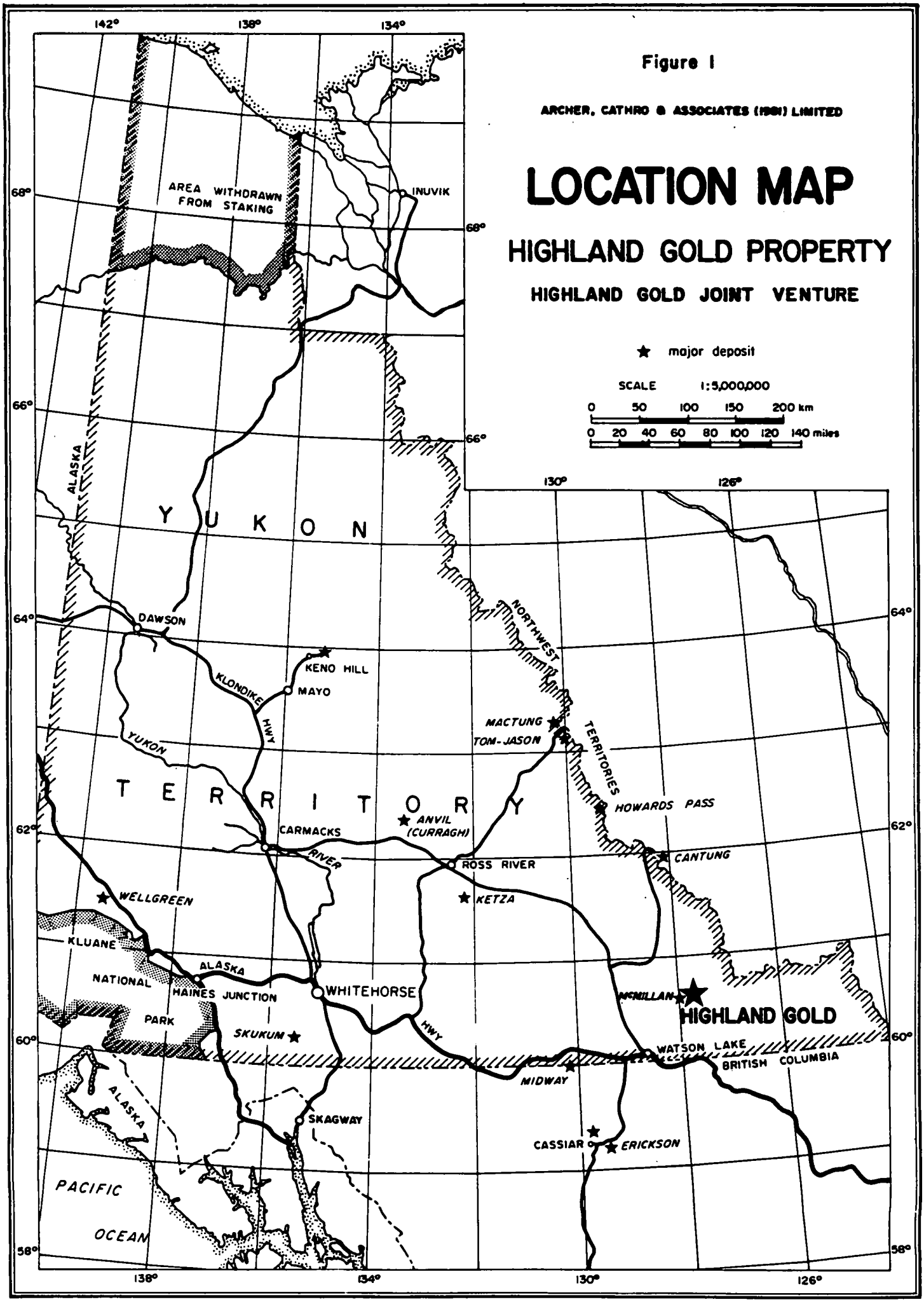
Figure 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION MAP

HIGHLAND GOLD PROPERTY

HIGHLAND GOLD JOINT VENTURE



PROPERTY, LOCATION AND ACCESS

The Hyland Gold Property consists of 49 contiguous mineral claims (see Figure 2 in the pocket) registered with the Watson Lake mining recorder as follows:

Claim Name	Grant Numbers	Expiry Date
Piglet 1-32	YA70902-YA70933	12 March, 1995
Quiver 1-2	YA68429-YA68430	11 March, 1992
Quiver 11-12	YA68439-YA68440	11 March, 1992
Quiver 21-24	YA68449-YA68452	11 March, 1992
Quiver 25	YA68709	11 March, 1992
Quiver 30	YA68714	11 March, 1992
Quiver 32	YA68716	11 March, 1992
Quiver 34	YA68718	11 March, 1992
Sow 1-5	YB00422-YB00426	11 March, 1993

The claims are located on NTS map sheet 95D/12 at latitude 60°31' and longitude 127°52' along the southeast edge of Quartz (Hulse) Lake, some 70 km northeast of Watson Lake.

Access in 1987 was by float-equipped, Beaver, Otter and Cessna 185 aircraft operated by Watson Lake Flying Services from a base at Watson Lake. The HGJV campsite is located on a sandy creek delta on the south shore of the lake in the northwest corner of the claim block. Weekly food and supply trips were made to Watson Lake with each trip consisting of two flights. On the first flight, fuel was flown in and empty drums, samples and one crew member were sent to town, later that day the crew member returned to camp with supplies and more fuel and additional drums were sent out on the backhaul. Helicopter support was provided on a casual basis by a Frontier Helicopter Ltd. Bell 206B operating from Watson Lake. In spring the bulldozer was mobilized to the property by following the Mel property winter road for 35 km from Contact Creek on to the Alaska Highway to the Coal River, then cutting a new 40 km trail from Coal River to the property.

HISTORY

The Quartz Lake area of southeastern Yukon has been prospected for placer gold and base metal deposits since the late 1800's when the McMillan lead-zinc-silver showing was discovered. This occurrence, 5 km west of the Hyland Gold property, has received more or less continuous exploration, including extensive drilling, since the late 1940's and is presently held by Liard River Mining Company Ltd. (Noranda Mines Ltd., Asarco and New Jersey Zinc).

The area now covered by the Hyland Gold property was first staked as the SN claims in August, 1954 by Liard River Mining as part of a large claim block around the McMillan deposit. Work included mapping, hand trenching, soil sampling and an EM survey in 1954 and four drill holes, about 1.5 km to the west, in 1955.

The property was restaked as the Porker 1-56 claims in July, 1973 by Hyland Joint Venture (Marietta Resources International Limited, Mitsubishi Metal Corporation and Messrs. Landon T. Clay and Harris Clay) which carried out detailed mapping, prospecting and grid soil sampling the same year. Hyland JV conducted a gravity survey over the north part of the claims in 1974 and drilled four holes totalling 303 m in the northeast part of the present property in 1975.

Kidd Creek Mines Limited staked the Cuz and Quiver claims on the northeastern, eastern and southern fringe of the Porker property in winter 1981. Geological and geochemical surveys were done in 1982, while rock sampling and hand trenching was performed in 1985.

Most of the Porker claim group expired in spring 1984 and the area was immediately restaked as the Piglet 1-32 claims by Archer, Cathro & Associates (1981) Limited which conducted a wide-spaced grid soil sampling program on the property later that year. Archer, Cathro acquired twelve Quiver claims on the north side of the Piglet block in spring 1986 before selling the entire property to Silverquest Resources Ltd. which performed prospecting, close spaced grid soil sampling and hand trenching the following summer.

PHYSIOGRAPHY AND GEOMORPHOLOGY

The property covers moderately rugged terrane with elevations ranging from 920 m on the shore of Quartz Lake to 1320 m on ridge crests. It lies below treeline which locally occurs at about 1465 m and exhibits mossy black spruce and deep moss on wet northerly-facing slopes, thick tangles of alder and willow on wet slopes with a southerly aspect, and relatively open mixed pine and white spruce stands on dry hilltops and southwest-facing slopes. Outcrop is restricted to small cliffs on the upper slopes and scattered exposures in creek cuts.

The area has been subjected to heavy Pleistocene glaciation with local ice direction apparently from the north or northwest as determined from scour marks and distribution of glacial deposits. Most north-facing slopes are bare while south and west-facing hillsides are mantled with a variable thickness of glacial till. A prominent terrace of glaciofluvial material lies along the northeast and west boundaries of the property at about 1070 m elevation. This is part of a relatively continuous deposit of similar material that rims both sides of Quartz Lake and adjoining valleys.

GEOLOGY

Regional Setting

Figure 3 in the pocket illustrates the general geology of the Quartz Lake area which is predominantly underlain by sedimentary rocks that are part of the Selwyn Basin, a Late Precambrian to Early Mesozoic continental margin sequence. Locally, the rocks consist of quartzite and phyllite with interbedded grit, quartz-feldspar pebble conglomerate and limestone, all of which belong to the Hadrynian Grit Unit or the partially correlative, predominantly Lower Cambrian Phyllite Unit. Both units exhibit lower greenschist regional metamorphism.

Although the property is located near the southwestern end of a northeast-trending belt of Mid-Cretaceous to Tertiary granitic plutons, there are no large surface exposures of intrusive bodies in the immediate vicinity. Evidence for a nearby buried intrusion is seen 2 km east of Quartz Lake where sedimentary rocks in a two square kilometre area are thermally metamorphosed to garnet-staurolite schist.

The McMillan deposit, which lies 5 km west of the Hyland Gold property, contains approximately one million drill indicated tonnes grading 10% Zn, 5% Pb and 56 g/t Ag. The deposit is open-pittable and consists of both stratabound and structurally controlled massive sulphide mineralization hosted by Hadrynian to Cambrian sedimentary rocks. A case can be made for either a syngenetic origin and therefore a Hadrynian or Cambrian age of mineralization, or a later hydrothermal replacement of existing strata, perhaps related to an unroofed Tertiary intrusive body. Lead isotope and fluid inclusion data support the latter hypothesis.

Property Geology

The claims are underlain by weakly metamorphosed limestone, phyllite, metaquartzite and orthoquartzite of the Grit and Phyllite Units, as shown on Figure 4 on the following page and Figure 5 with more detail in the pocket. Bedding generally strikes north to north-northwest and dips moderately to steeply toward the west. A few broad folds are seen in the coarse units, while chevron folds occur locally in the phyllites. A number of large faults cut all units making stratigraphic relationships difficult to interpret.

The major rock types are briefly described below while detailed petrographic descriptions of representative specimens appear in Appendix III.

Hqu consists of blocky weathering, tan, grey and pale green lithic quartzites, orthoquartzites, calcareous quartzites and minor sandstones. Occasional clay altered interbeds are present within the quartzite sequence and petrographic examination of one of the interbeds identified it as a highly altered carbonaceous, quartz-pyrite-tourmaline replaced, dacitic tuffaceous sedimentary rock. Individual quartzite beds range from 50 cm to 50 m thick.

Hgr is dominantly comprised of dark grey to buff, poorly sorted quartz and feldspar grits. The quartz grains are typically subrounded to subangular and are bluish to milky. Feldspars are generally altered to clay. The larger grains are supported by sand size matrix.

Hph1 includes thinly laminated grey, black and green phyllites that are occasionally graphitic. These rocks commonly appear as interbeds in Hqu and Hgr, but also form relatively homogeneous sequences up to 50 m thick. They are often highly fractured and sheared.

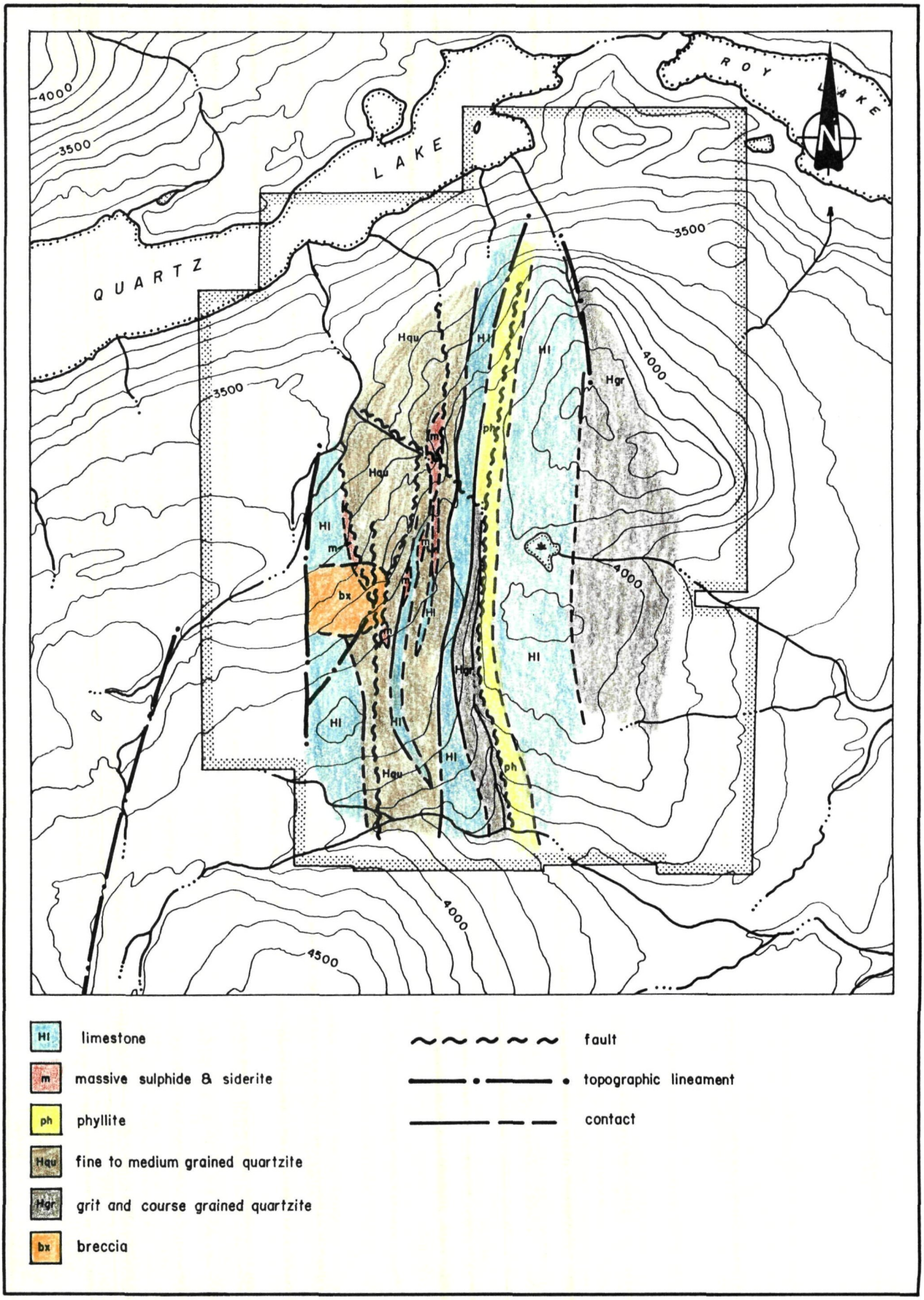


Figure 4 : GENERALIZED GEOLOGY HYLAND GOLD PROPERTY

Hph2 consists of pink, tan, maroon and green phyllitic siltstones and phyllites that may be correlative with Hph1.

Hl is comprised of dark grey, fine-grained, fissile limestone with up to 5% white calcite forming thin lenses and laminations. Limestone beds range from 1 m to more than 100 m thick. Massive siderite (Hls) lenses up to 10 m thick occur along the margins of the limestone and as distinct horizons within it.

A 300 by 200 m breccia zone (BX) located in the southwestern part of the property is mapped as a separate unit. The rocks are medium to dark brown weathering and consist of 65 to 95% wallrock fragments in a limonite matrix. Fragments are typically angular to subangular and are often only slightly rotated. Thin section examination of one specimen showed that the fragments were quartzites (Hqu); however, the breccia appears to cut across other stratigraphic units and presumably should include other types of fragments as well. The breccia is described in more detail in the Mineralization section.

The only other rock type identified on the property is a 25 cm wide, porphyritic dyke of basaltic composition that was discovered in one of the bulldozer trenches. Thin section descriptions of the rock appear in Appendix III.

The majority of the faults on the property trend north or northeast and dip steeply westward. They are subparallel to bedding and often follow phyllitic horizons. Four prominent northerly-trending airphoto linears cut across the property and correspond with a series of overburden-filled depressions, cliffs and vegetation anomalies. Many of the trenches crossed these linears but only a few reached bedrock because of a thick layer (greater than 6 m) of talus and/or fluvial material that fills the depressions. Where exposed, the linears are large, steeply-dipping faults.

MINERALIZATION

Five types of mineralization have been identified on the property. The following descriptions are generalizations based principally on surface work and more complete descriptions are included in the Bulldozer Trenching section of this report.

1. Pyrite and arsenopyrite occur with yellow limonite, scorodite and rarely jamesonite and malachite in narrow veins with or without quartz gangue. These veins are widespread and parallel the major faults but appear to lack lateral continuity. Specimens of scorodite stained quartz return erratic gold assays ranging from near background to 18.17 g/t while massive jamesonite samples assayed up to 3.91 g/t Au and 4.65 g/t Ag.

2. A limonite breccia zone is developed in a 300 by 200 m area toward the south end of the main soil geochemical anomaly and is exposed in a series of low hummocks that may be rotated blocks in a large slump. The breccia typically consists of 0.5 to 2 cm in diameter barren white quartzite fragments surrounded by medium brown limonite.

Microscopic tourmaline is common in the breccia while scorodite stains and traces of pyrite are occasionally present. Grab samples taken in 1986 from surface exposures returned up to 4.80 g/t Au over 10 m. Multi-element analyses on moderate to well mineralized breccia specimens showed they are strongly enriched in arsenic (5,500 to >10,000 ppm), and moderately anomalous for bismuth (35 to 800 ppm), antimony (30 to 300 ppm) and silver (8 to 35 ppm), but contain near background values for other significant metals (as shown in Appendix IV). There is no direct correlation between the abundance of limonite and gold grade.

Although large faults and topographic linears trend through the breccia zone, the exact relationship between them and the mineralization is not yet known.

3. Disseminated and fracture filling pyrite and arsenopyrite are common in quartzite horizons away from the breccia zone but rocks of this type have not returned any significant assays. Quartzites containing this type of mineralization often exhibit a bleached, sugary appearance where the sulphides have been leached away leaving pits and characteristically contain greenish-yellow to light brown limonite. Multi-element analysis show that these rocks often contain more arsenic than the well mineralized breccias.

4. Heavily disseminated to massive pyrite with lesser arsenopyrite and pyrrhotite occur in lenses along limestone contacts and are intimately associated with siderite horizons. The sulphide concentrations and siderite both contain high gold backgrounds (typically between 0.10 and 1.0 g/t) and appear to be replacement mineralization that is in part localized by large faults. Although these rocks occur in a similar geological environment to the nearby McMillan deposit, they contain no significant lead, zinc, copper or silver values.

5. Graphitic shears with anomalous gold contents were recognized in a few 1987 trenches and are described in some detail in the Bulldozer Trenching section. The highest chip sample assay obtained to date from the property (12.70 g/t Au over 1.0 m) came from one of these shears. These structures are recessive weathering and are the most difficult type of mineralization to prospect for.

SOIL GEOCHEMISTRY

In 1984 wide spaced grid soil sampling was conducted over much of the property and in 1986 the grid was expanded and sample density increased in anomalous areas. Details of the work are described in a 1986 report by R.C. Carne and W.H. Halleran for Silverquest Resources Ltd. The sampling outlined a north-trending, 400 m wide, 2500 m long belt of largely coincident, strongly anomalous gold, arsenic and bismuth response, as shown on Figures 6, 7 and 8, respectively, in the pocket. This belt is the main area of interest and lies on a relatively well drained and frost free, mostly west-facing slope located in the western third of the property. It is obscured to the west and north by thick deposits of glaciofluvial till and may be terminated by a fault at the south end. The eastern edge of the anomalies is highly irregular and no geological or geomorphological control has been identified. Toward the southern end of the anomaly it appears to swing sharply to the east and this easterly trend merges with a second less distinct north-trending belt developed in the eastern third of the property. The second belt is much more erratic and less intense, but this may be due in part to thicker vegetation and more frost which makes good quality soil samples difficult to obtain. The east-trending anomaly and second north-trending belt both exhibit anomalous gold and arsenic values but lack the strong bismuth response that typifies the main area of interest. A fourth, smaller anomaly (400 by 200 m) is located near the north end of the grid, approximately halfway between the two north-trending belts.

Soil geochemistry in 1987 was confined to a 250 by 600 m area at the south end of the main area of interest. Samples were taken at 30 m intervals on compass and topofil controlled lines spaced 60 m apart. A total of 164 samples

was collected and sent to Chemex Labs Ltd. in North Vancouver, B.C. where they were dried, screened to -35 mesh, pulverized to -140 mesh and geochemically analyzed for gold using a fire assay preparation and neutron activation finish.

The work returned scattered weakly to strongly anomalous gold values (up to 344 ppb) with the best values occurring on the main anomalous trend, as shown on Figure 6. No analyses were done for the other metals.

BULLDOZER TRENCHING

General

Bulldozer trenching was done with a ripper-equipped Caterpillar D7E bulldozer contracted from E. Caron Diamond Drilling Ltd. of Whitehorse. The bulldozer and a sloop was walked three-quarters of the way to the property in March but encountered deep snow in a pass between two creek systems and had to be temporarily abandoned. They were mobilized the rest of the way in April. A casual helicopter based in Watson Lake was used to position additional fuel and supplies when required.

A total of 653.5 hours of bulldozer time was used between June 4 and September 1. During this period, 2.7 km of four-wheel drive roads and 5.4 km of bulldozer trails were constructed, 4125 linear m of bedrock was exposed in 22 trenches, and 3000 linear m of overburden was stripped from trenches that did not reach bedrock.

All trenches that reached bedrock were sampled using chisels and hammers to cut narrow, continuous channels along the floors. Samples were taken at approximately 5 m intervals along the entire length of each trench except in particularly interesting or uninteresting areas where sample intervals were shortened or lengthened as required. Five hundred and eighty-seven samples were collected and sent to Chemex Labs where they were dried, crushed, ring pulverized, screened to -140 mesh and homogenized before a one assay ton split was taken and fire assayed for gold using a gravimetric finish. Forty-seven selected chip samples were later reanalyzed for thirty-two elements by the Induced Coupled Plamsa technique. Eight soil samples were collected along the bottom of one trench (87-14) which did not reach bedrock, in order to compare

the geochemical response deep in the soil profile to that at surface. They were also sent to Chemex and analyzed for gold by the same geochemical technique used for soils from elsewhere on the property. All assay certificates are reproduced in Appendix IV.

Results

All but three of the twenty-two trenches were cut along the main belt of geochemical response in the west part of the property. Trench locations are illustrated at 1:5,000 scale relative to claim boundaries, geology, and gold, arsenic and bismuth soil geochemical anomalies on Figures 2 and 5 through 8, respectively, and at 1:1,000 scale on Figures 9 to 11. Assays from the trenches are generalized on Figure 6 and shown in detail on Figures 9 to 11. All of the above mentioned figures are in the pockets.

Trench results generally confirmed earlier geological mapping based on outcrop, talus and rock fragments in soil but, as might be expected, showed that the recessive rock types are more abundant than suspected. All five types of mineralization were exposed in one or more of the trenches but the only significant values came from limonitic breccias and graphitic horizons.

The highest single assay (12.70 g/t Au across 1.0 m) was obtained from a graphitic shear in Trench 87-11. This shear is located 16 m west of a major north-trending fault and is surrounded by intensely quartz-pyrite-tourmaline altered tuffaceous quartzite. The weighted average grade across the shear zone and the altered wallrock is 2.3 g/t Au over 15.5 m. Similar graphitic rocks do not appear in trenches south of Trench 87-11 but are exposed at the west end of Trench 87-2, 290 m to the north. The rocks in this trench contain less gold (up to 1.0 g/t Au over 5.0 m), show less replacement and are further from the

fault, suggesting that mineralizing fluids may have channeled up the fault and selectively replaced reactive beds adjacent to it.

The most widespread mineralization is associated with the limonitic breccia zone which is best exposed in Trench 87-6. This zone produced assays up to 2.54 g/t Au over 5 m and the higher values are surrounded by broad halos grading between 0.4 and 1.0 g/t Au. The mineralization is strongly weathered, even at the bottom of 6 m deep trenches. Two strong faults mark the east side of the breccia while to the west it extends under deep till. The geological control on the north side is not known but to the south the breccia appears to narrow and weaken, becoming a 20 to 30 m wide stockwork zone with a 5 to 10 m wide strongly fractured core. Limonite in the stockwork zone tends to be lighter in colour and scorodite is more abundant. The best values in it were obtained from Trench 87-13 where a 25 m exposure average 1.54 g/t Au, including one interval that assayed 3.98 g/t Au across 5 m. This trench is located 450 m south of the breccia zone and is in an area of weak soil geochemical response.

Trenching elsewhere on the property showed that thick glaciofluvial till extends further uphill than previously suspected in some areas (locally up to 1220 m a.s.l.) but is virtually absent on ridge tops and upper slopes, as illustrated on Figure 6. The limit of thick till cover corresponds with the lower edge of the anomalous soil geochemical anomalies on the east and north side of the grid, but trenches cut into the edge of the till (87-6 and 87-8) show that the mineralization continues beneath it.

The large east-trending anomaly at the south end of the main belt was tested by three trenches, of which two (87-14 and 87-15) were completed. All contained deep till and bedrock, where exposed, consisted of unmineralized

limestone and phyllite. Soil samples taken from deep in the soil profile returned strongly anomalous gold values comparable to those from surface, suggesting that the metals were transported by glacial or fluvial processes. The sources of the gold in the till may have been the limonite breccia zone and it is possible that it was smeared out by a southeasterly moving glacier. An alternative explanation is that the gold is derived from a north-trending fault zone located beneath a strikingly linear creek immediately west of the anomaly, and that the anomalous till represents an old creek channel that formerly drained the structure. In order to test the idea that the creek coincides with a major, mineralized fault, a trench (87-22) was cut across the linear trend directly north of the creek's headwaters. This trench exposed strongly sheared phyllites but returned only near background gold values.

CONCLUSIONS AND RECOMMENDATIONS

The 1987 trenching program at the Hyland Gold property has confirmed that the gold-arsenic-bismuth soil anomalies are associated with an extensive, well mineralized system developed in strongly faulted, sedimentary rocks. Based on the characteristics of the mineralization, the metal signatures and the nature of the host rocks, the property has potential for hosting at least four types of precious metal deposits, as discussed below.

1. The limonite breccia zone may be part of a large tonnage, medium grade, stockwork-type deposit similar to those presently being mined in the southwestern U.S.A. by open pit methods using cyanide extraction either in vats or on heap leach pads. Although the mineralization in the breccia zone is well oxidized at surface and is probably amenable to cyanidization, work must be done to determine the extent of the zone, the depth of oxidation, leachability of sulphide mineralization beneath the oxide zone, and cyanide consumption (which could be excessive because of the high arsenic content). The presence of strong surface oxidation in a glaciated terrane indicates that the breccia is extremely porous and permeable, which would make it suitable for leaching.
2. The graphitic shear zones resemble mineralization at the Carlin Mine in Nevada and have potential for a medium tonnage, medium to high grade deposit. Mineralization of this type would be more complex to treat than the limonite from the breccia zone and could require milling before cyanidization. Exploration of these targets should focus on the intersection between chemically reactive, graphitic beds and major fault structures that could act as channels for mineralizing faults. VLF-EM

surveys may be useful in tracing the graphitic horizons and faults between trenches and through till covered areas.

3. The siderite and sulphide-rich replacement lenses along the limestone contacts show a number of similarities with the manto-type gold deposit currently being developed at the Ketza property, 260 km northwest of Hyland Gold. Both Ketza and Hyland Gold occur in Hadrynian or Lower Cambrian limestones in the vicinity of silver-lead-zinc occurrences. The Ketza deposit consists of a gold-rich, largely oxidized, massive sulphide lens that is reportedly surrounded by a siderite horizon containing scattered pyrrhotite, arsenopyrite and pyrite with low gold values. The discovery lens, which outcrops at Ketza, is quite small (about one-half million tonnes grading 13.7 g/t Au) but recent drilling has located other buried lenses. VLF-EM and magnetic surveys should be conducted at Hyland Gold to test for buried massive sulphide lenses that could be the gold-rich core to the more extensive siderite horizons.

4. Although none of the veins on the property has demonstrated sufficient continuity or grade to make them significant targets in themselves, the possibility of a relatively small but high grade vein should not be overlooked. Discovery of such a deposit would probably result from exploration for one of the larger types of targets.

The next stage of exploration at the Hyland Gold property should consist of VLF-EM and magnetic surveys, continued bulldozer trenching, and diamond drilling. The work should continue to focus on the main belt of geochemical anomalies but should also include a few trenches to test some of the outlying geochemical targets. The program is expected to cost $469,500, as calculated below.

Labour - Senior supervision 600 hours @ $50/hr, geologist 220 days, and 2 fieldmen and a cook for 100 days each	$130,000
Diamond Drilling - 900 m HQ @ $115/m, all inclusive	103,500
Bulldozer - D7E with ripper, 500 hrs @ $155/hr, fuel and operator included	77,500
Room & Board - 725 mandays @ $65 day	47,000
Fixed Wing	28,000
Transportation and Shipping	20,000
Geophysical Surveys - including transportation and report	15,000
Assays - 1000 rocks fire assayed for gold @ $12/sample	12,000
Office, Drafting and Printing	10,000
Helicopter	6,000
Assessment Recording	2,000
Management	18,500
TOTAL -	$469,500

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

J.T. Dennett, B.Sc.

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

APPENDIX I

AUTHORS' STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jack T. Dennett, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1984 with a B.Sc. majoring in Geological Sciences.
2. I am a member of the Geological Association of Canada.
3. From 1984 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have assembled all data resulting from this work.

Jack T. Dennett, Dipl.T.,B.Sc.

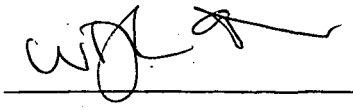
STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 1980 with a B.Sc.

2. From 1971 to the present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.

3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



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

APPENDIX II

LIST OF PERSONNEL

NAME	POSITION	DATES ON PROPERTY
J.T. Dennett	Geologist/Crew Chief	June 3-July 26; July 29-September 8
G. Cockell	Fieldman	(part time) June 3-July 26; July 29-September 8
L. Cymbalisty	Fieldman	June 3-August 1; August 6-26
J. Hamilton	Fieldman	June 4-August 1; August 6-30
D. Turner	Fieldman	June 3-July 15
L. Vano	Fieldman	July 14-July 25

APPENDIX III

PETROGRAPHIC DESCRIPTIONS

Vancouver Petrographics Ltd.

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Report for: Jack Dennett,
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Invoice 6870
October 1987

by: John G. Payne

Report for: J. Dennett,
Archer, Cathro & Associates, Ltd.,
1016 - 510 West Hastings Street,
VANCOUVER, B.C., V6B 1L8

Invoice 6870
October 1987

Samples: 87 P2 247, 87 P6 446, 87 P6 550, 87 P11 136.4, 87 P12 123, 87 P16 162

Summary: The samples are grouped as follows:

A: Intermediate to Mafic Volcanic Rocks
B: Cataclastically Deformed and Tourmaline-Replaced Quartzite
C: Deformed Tuffaceous Sediment with replacement by Quartz-Pyrite and by Tourmaline

A: Intermediate and Mafic Volcanic Rocks

87 P6 446 Basalt: minor plagioclase phenocrysts in a groundmass of plagioclase and lesser clinopyroxene; minor calcite amygdules

87 P16 162 Altered Andesite: minor altered hornblende phenocrysts in a groundmass of sericite-calcite-quartz-chlorite; abundant replacement by veins of calcite-quartz-(hematite).

B: Deformed and Replaced Quartzite

87 P2 247 Sericitic Quartzite, with one layer rich in tourmaline; tourmaline also forms wispy replacement seams.

87 P6 550 Quartzite, partly granulated, with moderate tourmaline replacement in groundmass; brecciated and healed by hematite-limonite.

87 P12 123 Relic quartzite(?) fragments replaced by tourmaline; fragments contained in dense aggregate of scorodite-mansfieldite.

C: Tuffaceous Sediment

87 P11 136.4 Carbonaceous dacitic tuffaceous sediment, folded; replaced by quartz-pyrite and by tourmaline. Pyrite replaced by hematite and/or leached from the rock, producing gossany appearance.

John G. Payne

87 P2 247 Cataclastically Deformed Sericitic Quartzite with Tourmaline-rich Layer and Patches

The rock was a medium to coarse grained quartzite with wispy seams and patches of sericite, and one layer rich in tourmaline. Tourmaline and zircon also form disseminated patches, as does Ti-oxide/opaque. It was strongly cataclastically deformed, with flattening, granulation and recrystallization of quartz, and development of a strong foliation. The rock is cut by a few quartz veinlets.

quartz	88-90%
sericite	7- 8
tourmaline	1- 2
Ti-oxide	0.2
zircon	minor
muscovite	trace

Quartz forms lensy to elongate grains from 0.5-1 mm in average length, with a few grains over 2 mm long. These are flattened parallel to foliation. They show strong internal deformation, including granulation to extremely fine grained (0.01-0.02 mm), interlocking aggregates whose grains were slightly rotated relative to neighboring grains, and strongly wavy extinction. Dusty opaque inclusions are common.

Sericite forms wispy, commonly feathery flakes averaging 0.02-0.03 mm in length. These form thin seams and larger, lensy patches intergrown with quartz and oriented parallel to foliation. A few stubby flakes of muscovite are up to 0.1 mm long.

Tourmaline is concentrated in one layer 0.8-1 mm wide, in which it forms mainly prismatic grains averaging 0.03-0.1 mm in size. These generally are unoriented. Along one side of the layer, tourmaline also forms dense patches and lenses of extremely fine grain size. In this layer, tourmaline abundance is about 25%. Tourmaline also forms disseminated prismatic grains in quartz; these are up to 0.2 mm in length and some are broken along a basal parting. The grains described so far are colorless to very pale green. Tourmaline also forms a few irregular grains and clusters up to 0.4 mm in size. These were granulated slightly to moderately during cataclastic deformation. They vary in color, with most being pleochroic from pale or light green to medium green, and one large grain being light orange brown in color. A few lenses of dense, extremely fine grained tourmaline up to 0.02 mm wide are parallel to foliation.

Ti-oxide forms scattered, irregular patches averaging 0.02-0.05 mm in size, with a very few up to 0.1 mm across. These are semiopaque, suggesting that they are leucoxene. Some opaque patches up to 0.05 mm across have subhedral outlines, suggesting that they are pyrite.

Zircon forms ragged patches up to 0.15 mm in size of granulated grains averaging 0.03-0.1 mm in size. A very few euhedral zircon grains occur as inclusions in quartz.

The rock is cut by a few veinlets up to 0.04 mm in width of very fine grained quartz. These were formed by recrystallization of the rock along tension zones. Quartz in the veinlets is undeformed and is relatively free of dusty opaque inclusions. Veinlets cut foliation at a high angle.

87 P6 446 Basalt

The sample is a slightly porphyritic basalt with phenocrysts of plagioclase in a groundmass of lathy plagioclase and interstitial clinopyroxene. Mafic grains are altered moderately to strongly to hematite-limonite. The rock contains amygdules of calcite.

phenocrysts		
plagioclase	2- 3%	
groundmass		
plagioclase	65-70	
clinopyroxene	20-25	
hematite	2- 3	(includes minor magnetite)
pyrite	minor	
amygdules		
calcite	2- 3	
hematite-limonite	0.5	

Plagioclase forms equant to prismatic phenocrysts from 0.5-2 mm in size. Many show combined Carlsbad-albite twins, and most are slightly zoned. Alteration is slight to hematite.

Plagioclase in the groundmass forms lathy grains averaging 0.2-0.5 mm in length, with a few up to 0.7 mm long. Interstitial to these are anhedral grains of plagioclase averaging 0.1 mm across. Many of these also show compositional zoning.

Clinopyroxene forms ragged, interstitial grains averaging 0.1-0.3 mm in size. Most of these are altered strongly to hematite-limonite, with or without calcite. The abundance of calcite is difficult to determine because of the abundance of iron oxides. One pyroxene grain enclosed in a plagioclase phenocryst has a prismatic cross section and parallel extinction.

Pyrite forms a few patches up to 0.12 mm in size. Many of these are altered strongly to hematite. In some patches, hematite forms colloform textures with irregular patches of limonite near borders of patches. The rock contains minor magnetite as disseminated grains partly altered to hematite.

Amygdules are spherical and average 0.7-1 mm in size. Some contain a thin rim of extremely fine grained calcite surrounding a core of very fine grained, feathery calcite, with a few coarser, equant grains up to 0.15 mm in size. Some patches contain moderately abundant hematite-limonite.

87 P6 550 Brecciated, Cataclastically Deformed Quartzite with Tourmaline Replacement

The rock is a fine to medium grained quartzite which was moderately cataclastically deformed, with abundant replacement in the groundmass by tourmaline, and with minor replacement by pyrite. The rock is cut by a veinlets of quartz, and was later brecciated strongly, and the breccia groundmass partly filled by limonite-hematite.

quartz	
detrital grains	65-70%
recrystallized groundmass	15-17
tourmaline	8-10
pyrite	0.3
Ti-oxide	minor
zircon	trace
veins	
quartz	0.5
hematite-limonite	5- 7

Quartz forms equant, subrounded, detrital grains averaging 0.2-0.8 mm in size, with a few up to 1.5 mm across. Extinction is moderately to strongly wavy. Grains were recrystallized along borders to extremely fine grained aggregates. Dusty opaque inclusions are common.

Interstitial to detrital quartz grains are seams and patches of extremely fine grained quartz (0.01-0.02 mm). Some of these were formed by cataclastic deformation of coarser quartz grains, and some may represent original quartz groundmass.

Intergrown intimately with groundmass quartz are lenses, patches, and single grains of tourmaline. The lenses are mainly of dense, extremely fine grained aggregates, and commonly are interstitial to detrital quartz grains. Patches and single grains commonly are prismatic in habit, with grain size averaging 0.02-0.05 mm. A few prismatic grains are up to 0.3 mm long. Tourmaline is colorless to very pale green.

Pyrite forms disseminated, euhedral grains averaging 0.1-0.15 mm in size. They are all but completely altered to hematite, with minor relic cores of fresh pyrite. Many grains are represented by casts containing minor hematite along the borders. A few cavities, which are rimmed by hematite and average 0.3-0.8 mm in size, may be casts of original pyrite.

Ti-oxide forms irregular disseminated patches from 0.02-0.07 mm in size.

Zircon forms a few, stubby, prismatic crystals up to 0.05 mm long.

The rock is cut by a vein averaging 0.1-0.2 mm in width of very fine grained quartz.

Strong brecciation fractured the rock. Breccia seams were later filled with hematite-limonite. During this alteration, pyrite was replaced by hematite-limonite and tourmaline replacement patches were stained orange by limonite. Hematite is mainly bright red in color, except in some altered pyrite grains, in which it is opaque. Seams are up to 0.5 mm wide.

87 P11 136.4 Carbonaceous Tuffaceous Sediment with Replacement by Quartz-Pyrite-Tourmaline: Gossan

The sample is an extremely fine grained tuffaceous sediment dominated by sericite and quartz, with moderately abundant carbonaceous opaque concentrated in patches and seams. It shows tight, microscopic folds. Replacement patches consist of quartz and pyrite and of tourmaline. Pyrite is almost entirely leached from the rock.

sericite	20-25%
quartz	20-25
carbonaceous opaque	5- 7
Ti-oxide	0.1
replacement patches	
quartz	15-17
pyrite	8-10
tourmaline	17-20
veinlets	
quartz-(pyrite)	0.2

The rock is variable in composition, with some zones dominated by sericite and others by quartz, mainly of very fine to extremely fine grain size. Carbonaceous opaque occurs in irregular patches with sericite, with the ratio of the two minerals varying widely. Parts of the sample are well foliated, with foliation defined by wispy seams of sericite-opaque in quartz. The foliation commonly is tightly contorted; this is preserved in patches up to 1 mm across between zones of strongly replaced rock in which foliation was destroyed. Ti-oxide forms disseminated grains averaging 0.01-0.03 mm in size.

Replacement patches have sharp to diffuse borders. Quartz forms extremely fine to very fine grained patches, commonly associated with subhedral to euhedral pyrite grains up to 1 mm in size. In a few patches, quartz forms subparallel aggregates oriented perpendicular to pyrite crystal faces. Quartz commonly shows moderately to strongly strained extinction, and some patches have been recrystallized to extremely fine grained aggregates. Pyrite is leached completely, except for a few grains averaging 0.01-0.02 mm in size and one grain 0.05 mm across which were preserved in larger grains of quartz.

Tourmaline forms anhedral patches of extremely fine, feathery grains, which partly to completely replace sericite-rich patches in the rock. Many patches of tourmaline contain moderately abundant, disseminated carbonaceous opaque. Along borders of some patches, coarser, subhedral to euhedral prismatic tourmaline grains are intergrown with quartz. These tourmaline grains average 0.02-0.04 mm in length, and a few are up to 0.15 mm long. Tourmaline is very pale green in color, and pleochroism is weak.

Limonite-hematite forms a few equant patches up to 0.3 mm across of cryptocrystalline grains.

The rock contains a few quartz-pyrite veinlets up to 0.15 mm in width, and a few quartz veinlets in tiny tension fractures 0.01-0.02 mm wide. Quartz in these is undeformed and ranges up to 0.1 mm in grain size.

87 P12 123 Fragments of Cataclastically Deformed Quartzite replaced by Tourmaline, enclosed in groundmass of Scorodite-Mansfieldite.

The rock contains minor relic patches of cataclastically deformed quartzite which were moderately to strongly replaced by tourmaline; these are enclosed in a dense groundmass of cryptocrystalline to extremely fine grained scorodite-mansfieldite.

quartz	5- 7%
tourmaline	2- 3
Ti-oxide	trace
scorodite-mansfieldite	88-90
quartz 2	minor

Patches up to 1 mm across consist of very fine to fine grained quartz, which was moderately to strongly cataclastically deformed and recrystallized to extremely fine grained aggregates of slightly to moderately variable orientation. Dusty opaque inclusions are common.

These patches of quartz were replaced moderately to locally strongly by extremely fine to very fine grained tourmaline. The latter locally forms prismatic grains up to 0.05 mm in length. Color is pale green.

Ti-oxide occurs as disseminated grains from 0.003-0.02 mm in average size.

These fragments are enclosed in a cryptocrystalline to extremely fine grained groundmass (up to 0.015 mm) of pale to light brown (in thin section) - pale to light blue (in hand sample) scorodite-mansfieldite ($FeAsO_4.nH_2O$ - $AlAsO_4.nH_2O$). This mineral was identified by X-ray diffraction analysis. The peaks have the form of those of scorodite, but are offset slightly, indicating some solid solution towards the Al-bearing member, or perhaps to another member of this complex solid solution series. Finer grained patches in the groundmass generally are semiopaque and medium greyish brown in color. Coarser grained patches commonly have slightly feathery textures of extremely fine grains in subparallel orientation.

Quartz forms a few patches of grains associated with scorodite. Grain size of quartz is 0.05-0.3 mm, and grains are unstrained and free of dusty opaque inclusions.

87 P16 162 Altered Andesite

The rock is a strongly altered very fine to fine grained andesite dominated by sericite with lesser calcite, quartz, and chlorite. It is cut by veins dominated by calcite with lesser quartz and minor hematite and sericite, and by later veinlets of limonite and of calcite.

phenocrysts		
hornblende	minor	
groundmass		
sericite	55-60%	
calcite	12-15	
quartz	8-10	
chlorite	8-10	
pyrite	0.1	
hematite	0.2	
apatite	trace	
veins		
1) calcite-quartz-hematite		8-10
2) limonite; calcite		0.2

The rock contains a few patches up to 1 mm in size consisting of aggregates of extremely fine grained chlorite with patches of extremely fine grained calcite. These may be secondary after hornblende phenocrysts.

The groundmass contains patches of sericite pseudomorphic after lathy to prismatic plagioclase grains from 0.2-0.5 mm in length. Other patches of sericite are anhedral in outline. Sericite is extremely fine grained.

Intergrown with sericite are very fine grained, diffuse patches of calcite, with grain size averaging 0.02-0.05 mm.

Quartz forms single grains and clusters of a few grains from 0.03-0.15 mm in size. Extinction commonly is slightly to moderately strained.

Chlorite forms irregular, interstitial patches averaging 0.2-0.5 mm in size. These contain abundant inclusions of secondary Ti-oxide. They are secondary after hornblende or biotite.

Pyrite forms disseminated, mainly anhedral grains up to 0.15 mm across. These locally are concentrated in clusters of a few grains. A few are altered moderately along fractures to hematite. Other patches averaging 0.02-0.03 mm in size consist of non-reflective opaque, possibly hematite after pyrite.

Apatite forms scattered clusters and single grains of acicular habit up to 0.15 mm in length.

The rock is cut by veins up to 3 mm wide of fine to locally medium grained calcite and lesser quartz. Calcite commonly is altered along fractures and on grain borders to hematite. Quartz is moderately strained and contains dusty opaque inclusions. Sericite forms a very few radiating patches up to 0.1 mm across. One vein contains a vuggy patch up to 0.6 mm across; this has a serrated outline marked by limonite surrounding a core of unoriented, very fine grained, equant calcite grains, which in turn contains a core of extremely fine grained, prismatic carbonate, possibly aragonite.

The rock is cut by late veinlets up to 0.15 mm wide of dense limonite. Associated with these are stringers up to 0.07 mm wide of calcite, with grain size averaging 1-3 microns. The calcite stringers are later than the limonite veinlets, and locally crosscut them.

APPENDIX IV

ANALYTICAL RESULTS

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Date : 04-JUL-87
Invoice # : I-8716686
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8716686

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T
R 801	207	--	0.004
R 802	207	--	0.005
R 803	207	--	< 0.001
R 804	207	--	< 0.001
R 805	207	--	< 0.001
R 806	207	--	< 0.001
R 807	207	--	< 0.001
R 808	207	--	0.001
R 809	207	--	< 0.001
R 810	207	--	< 0.001
R 811	207	--	< 0.001
R 812	207	--	< 0.001
R 815	207	--	0.003
R 816	207	--	0.008
R 817	207	--	0.006

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SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T
R 801	207	--	0.004
R 802	207	--	0.005
R 803	207	--	< 0.001
R 804	207	--	< 0.001
R 805	207	--	< 0.001
R 806	207	--	< 0.001
R 807	207	--	< 0.001
R 808	207	--	0.001
R 809	207	--	< 0.001
R 810	207	--	< 0.001
R 811	207	--	< 0.001
R 812	207	--	< 0.001
R 815	207	--	0.003
R 816	207	--	0.008
R 817	207	--	0.006

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CERTIFICATE OF ANALYSIS A8717059

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
R865	207	--	0.002
R866	207	--	0.003
R867	207	--	0.011
R868	207	--	0.004
R869	207	--	0.021
R870	207	--	0.013
R871	207	--	0.001
R872	207	--	0.005
R873	207	--	0.002
R874	207	--	0.004
R875	207	--	< 0.001
R876	207	--	0.001
R877	207	--	0.007
R878	207	--	0.001
R879	207	--	0.001
R880	207	--	0.003
R881	207	--	0.004
R882	207	--	0.006
R883	207	--	0.003
R884	207	--	0.002
R885	207	--	0.005
R886	207	--	0.020
R887	207	--	0.019
R888	207	--	0.015
R889	207	--	0.001
R890	207	--	0.001
R891	207	--	0.001

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CERTIFICATE OF ANALYSIS A8717065

SAMPLE DESCRIPTION	PREP CODE		Au ppb RUSH	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
R 2880	255	238	920	0.17	0.4	2320	50	< 0.5	176	0.02	< 0.5	< 1	119	17	0.48	< 10	< 1	0.10	50	0.01	33
R 2881	255	238	120	0.03	0.4	880	< 10	< 0.5	6	0.01	< 0.5	< 1	199	2	3.41	< 10	< 1	< 0.01	10	0.01	38
R 2882	255	238	540	0.09	3.4	590	280	< 0.5	736	0.03	< 0.5	8	112	31	3.72	< 10	< 1	0.46	20	0.01	119
R 2883	255	238	660	0.32	0.6	950	150	< 0.5	60	0.02	< 0.5	4	64	29	4.19	< 10	< 1	0.20	40	0.02	49
R 2884	255	238	670	0.05	0.2	>10000	< 10	< 0.5	140	< 0.01	< 0.5	15	158	29	5.47	< 10	< 1	0.01	20	< 0.01	56
R 2885	255	238	105	0.11	0.2	4020	70	< 0.5	2	0.02	< 0.5	32	< 1	174	>15.00	< 10	< 1	0.04	< 10	0.02	210
R 2886	255	238	2000	0.05	0.2	>10000	10	< 0.5	504	0.04	< 0.5	13	91	14	8.07	< 10	< 1	0.03	10	< 0.01	43
R 2887	255	238	90	0.12	0.2	815	10	< 0.5	< 2	0.06	< 0.5	48	< 1	107	>15.00	< 10	< 1	0.06	< 10	0.10	7720
R 2888	255	238	95	0.06	0.2	170	10	< 0.5	2	0.01	< 0.5	< 1	195	10	1.62	< 10	< 1	0.02	< 10	< 0.01	179
R 2889	255	238	75	0.03	0.2	1445	< 10	< 0.5	< 2	0.09	< 0.5	51	< 1	4	>15.00	< 10	< 1	0.03	< 10	0.37	>10000
R 2890	255	238	960	0.18	0.2	>10000	30	< 0.5	170	0.04	< 0.5	27	125	179	5.75	< 10	1	0.12	20	0.01	264
R 2891	255	238	35	0.05	0.2	1455	< 10	< 0.5	4	0.03	< 0.5	< 1	205	46	4.20	< 10	< 1	0.01	20	0.01	114
R 2892	255	238	600	0.14	0.2	>10000	10	< 0.5	56	< 0.01	< 0.5	11	156	30	6.37	< 10	< 1	0.05	10	< 0.01	66
R 2893	255	238	180	0.26	0.2	4230	40	< 0.5	14	0.02	< 0.5	32	< 1	75	>15.00	< 10	< 1	0.20	< 10	0.02	312
R 2894	255	238	425	0.07	0.2	>10000	20	< 0.5	144	0.02	< 0.5	6	220	12	3.21	< 10	< 1	0.04	10	< 0.01	308
R 2895	255	238	130	0.08	0.2	>10000	10	< 0.5	24	0.05	< 0.5	10	187	21	5.58	< 10	< 1	0.04	10	0.01	41
R 2896	255	238	1180	0.25	6.0	780	200	< 0.5	446	0.02	< 0.5	< 1	73	51	2.64	< 10	< 1	0.34	30	0.01	135
R 2897	255	238	1650	0.08	3.0	>10000	30	< 0.5	136	0.01	< 0.5	9	114	121	4.12	< 10	< 1	0.04	50	0.01	29
R 2898	255	238	100	0.14	0.4	820	50	< 0.5	12	< 0.01	< 0.5	< 1	174	10	1.21	< 10	1	0.14	10	< 0.01	35
R 2899	255	238	125	0.04	25.8	1335	10	< 0.5	118	< 0.01	< 0.5	< 1	236	16	2.13	< 10	< 1	< 0.01	10	< 0.01	30
R 2900	255	238	4850	< 0.01	3.2	>10000	90	< 0.5	114	0.01	< 0.5	16	31	17	13.25	< 10	< 1	0.02	< 10	0.01	13
R 2901	255	238	1400	0.26	72.0	2930	20	< 0.5	1605	0.64	6.0	11	54	5730	3.69	< 10	< 1	0.18	10	0.24	2560
R 2902	255	238	1400	0.08	5.0	5140	20	< 0.5	60	0.06	< 0.5	16	95	359	13.60	< 10	< 1	0.02	10	0.03	218
R 2903	255	238	300	0.03	0.8	1260	20	< 0.5	36	0.01	< 0.5	< 1	248	64	0.92	< 10	< 1	< 0.01	< 10	< 0.01	127
R 2904	255	238	100	0.06	0.2	515	10	< 0.5	< 2	0.04	< 0.5	48	< 1	21	>15.00	< 10	< 1	0.05	< 10	0.03	>10000

CERTIFICATION : Ivan Bichler

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CERTIFICATE OF ANALYSIS A8717065

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R 2880	255	238	< 1	< 0.01	2	100	16	< 5	10	10	< 0.01	< 10	< 10	4	< 5	2
R 2881	255	238	< 1	< 0.01	8	30	4	< 5	< 10	1	< 0.01	< 10	< 10	2	< 5	1
R 2882	255	238	< 1	0.03	6	260	296	10	10	143	< 0.01	< 10	< 10	4	< 5	8
R 2883	255	238	< 1	0.01	4	220	20	15	< 10	17	< 0.01	< 10	< 10	12	< 5	5
R 2884	255	238	< 1	< 0.01	9	60	< 2	20	20	1	< 0.01	< 10	< 10	2	< 5	1
R 2885	255	238	< 1	< 0.01	< 1	310	< 2	10	< 10	2	< 0.01	< 10	< 10	10	< 5	12
R 2886	255	238	< 1	< 0.01	1	50	4	50	20	10	< 0.01	< 10	< 10	1	< 5	< 1
R 2887	255	238	< 1	< 0.01	15	310	< 2	15	< 10	6	< 0.01	< 10	< 10	4	< 5	12
R 2888	255	238	< 1	< 0.01	4	40	16	< 5	< 10	19	< 0.01	< 10	< 10	1	< 5	2
R 2889	255	238	< 1	< 0.01	9	200	< 2	20	< 10	8	< 0.01	< 10	< 10	3	< 5	7
R 2890	255	238	< 1	< 0.01	8	140	18	10	20	16	< 0.01	< 10	< 10	3	< 5	5
R 2891	255	238	< 1	< 0.01	4	50	2	20	< 10	4	< 0.01	< 10	< 10	1	< 5	3
R 2892	255	238	< 1	< 0.01	4	70	< 2	15	10	1	< 0.01	< 10	< 10	3	< 5	< 1
R 2893	255	238	< 1	< 0.01	< 1	340	< 2	15	< 10	5	< 0.01	< 10	< 10	7	< 5	< 1
R 2894	255	238	< 1	< 0.01	4	60	6	5	< 10	6	< 0.01	< 10	< 10	2	< 5	< 1
R 2895	255	238	< 1	< 0.01	5	50	2	< 5	10	2	< 0.01	< 10	< 10	2	< 5	< 1
R 2896	255	238	< 1	< 0.01	3	190	222	25	10	200	< 0.01	< 10	< 10	4	< 5	6
R 2897	255	238	< 1	< 0.01	1	150	22	20	20	19	< 0.01	< 10	< 10	2	< 5	1
R 2898	255	238	< 1	< 0.01	3	60	20	< 5	< 10	79	< 0.01	< 10	< 10	1	< 5	2
R 2899	255	238	< 1	< 0.01	4	70	118	265	< 10	9	< 0.01	< 10	< 10	2	< 5	3
R 2900	255	238	< 1	< 0.01	< 1	60	18	285	20	71	< 0.01	< 10	< 10	2	< 5	1
R 2901	255	238	< 1	< 0.01	9	570	>10000	>10000	60	41	< 0.01	< 10	< 10	3	< 5	624
R 2902	255	238	< 1	< 0.01	2	300	4340	1440	< 10	7	< 0.01	< 10	< 10	3	< 5	51
R 2903	255	238	< 1	< 0.01	3	100	1270	230	< 10	49	< 0.01	< 10	< 10	1	< 5	7
R 2904	255	238	< 1	< 0.01	11	300	114	60	< 10	8	< 0.01	< 10	< 10	3	< 5	11

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Date : 10-JUL-87
Invoice # : I-8717129
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8717129

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T
R856	207	--	0.005
R857	207	--	0.005
R858	207	--	0.006
R859	207	--	0.009
R860	207	--	0.009
R861	207	--	0.008
R862	207	--	0.021
R863	207	--	0.005
R864	207	--	0.010

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Date : 10-JUL-87
Invoice # : I-8717129
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8717129

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T
R813	207	--	0.003
R814	207	--	0.001
R818	207	--	0.004
R819	207	--	0.008
R820	207	--	0.011
R821	207	--	0.005
R822	207	--	0.004
R823	207	--	0.005
R824	207	--	0.002
R825	207	--	0.001
R826	207	--	0.002
R827	207	--	0.002
R828	207	--	0.003
R829	207	--	0.007
R830	207	--	0.009
R831	207	--	0.001
R832	207	--	< 0.001
R833	207	--	0.002
R834	207	--	0.004
R835	207	--	0.004
R836	207	--	0.005
R837	207	--	0.006
R838	207	--	0.002
R839	207	--	0.002
R840	207	--	0.003
R841	207	--	0.001
R842	207	--	0.001
R843	207	--	0.005
R844	207	--	0.003
R845	207	--	0.003
R846	207	--	0.002
R847	207	--	0.002
R848	207	--	0.003
R849	207	--	0.003
R850	207	--	0.001
R851	207	--	0.005
R852	207	--	0.005
R853	207	--	0.003
R854	207	--	0.003
R855	207	--	0.004

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Tot. Pag[illegible]
Date : 18-JUL-87
Invoice # : I-8717751
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8717751

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
R 892	207	--	0.001
R 893	207	--	< 0.001
R 894	207	--	0.001
R 895	207	--	0.027
R 896	207	--	0.003
R 897	207	--	0.003
R 898	207	--	0.002
R 899	207	--	0.003
R 900	207	--	0.001
R 901	207	--	0.002
R 902	207	--	0.001
R 903	207	--	< 0.001
R 904	207	--	< 0.001
R 905	207	--	0.009
R 906	207	--	0.005
R 907	207	--	0.001
R 908	207	--	< 0.001
R 909	207	--	0.003
R 910	207	--	0.002
R 911	207	--	0.001
R 912	207	--	0.006
R 913	207	--	0.013
R 914	207	--	0.022
R 915	207	--	0.008
R 916	207	--	0.004
R 917	207	--	0.006
R 918	207	--	0.001
R 919	207	--	< 0.001
R 920	207	--	< 0.001
R 921	207	--	0.002
R 922	207	--	0.004
R 923	207	--	0.014
R 924	207	--	0.005
R 925	207	--	0.006
R 926	207	--	0.017
R 927	207	--	0.009
R 928	207	--	0.016
R 929	207	--	0.065
R 930	207	--	0.022
R 931	207	--	0.040

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Date : 18-JUL-87
Invoice # : I-8717751
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8717751

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
R 932	207	--	0.027
R 933	207	--	0.021
R 934	207	--	0.022
R 2905	207	--	0.002
R 2906	207	--	0.003
R 2907	207	--	0.016

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Tot. Pages: 1
Date :23-JUL-87
Invoice # :I-8717983
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8717983

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
R 935	207	--	< 0.001
R 936	207	--	< 0.001
R 937	207	--	< 0.001
R 938	207	--	< 0.001
R 939	207	--	0.001
R 940	207	--	0.001
R 941	207	--	< 0.001
R 942	207	--	0.002
R 943	207	--	< 0.001
R 944	207	--	< 0.001
R 945	207	--	< 0.001
R 946	207	--	< 0.001
R 947	207	--	0.002
R 948	207	--	< 0.001
R 949	207	--	< 0.001
R 950	207	--	0.001
R 951	207	--	0.001
R 952	207	--	0.002
R 953	207	--	0.014
R 954	207	--	0.007
R 955	207	--	0.002
R 2908	207	--	0.063
R 2909	207	--	< 0.001
R 2910	207	--	< 0.001
R 2912	207	--	< 0.001

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Page No: [redacted]
Tot. Pages: 1
Date : 13-JUL-87
Invoice # : I-8717804
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8717804

SAMPLE DESCRIPTION	PREP CODE		Au oz/T RUSH FA									
R 2911	236	--	0.010									

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Tot. [redacted]
Date : 28-JUL-87
Invoice # : I-8718594
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718594

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
R 956	207	--	0.010
R 957	207	--	0.001
R 958	207	--	0.001
R 959	207	--	< 0.001
R 960	207	--	0.001
R 961	207	--	0.007
R 962	207	--	0.069
R 963	207	--	0.002
R 964	207	--	0.001
R 965	207	--	0.004
R 966	207	--	0.001
R 967	207	--	< 0.001
R 968	207	--	0.001
R 969	207	--	0.001
R 970	207	--	0.004
R 971	207	--	0.001
R 972	207	--	0.001
R 2915	207	--	< 0.001
R 2916	207	--	0.003
R 8451	207	--	0.004
R 8452	207	--	0.009
R 8453	207	--	0.008
R 8454	207	--	0.006
R 8455	207	--	0.007
R 8456	207	--	0.002
R 8457	207	--	0.006
R 8458	207	--	0.001
R 8460	207	--	0.003

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Tot. Pages: 1
Date : 30-JUL-87
Invoice # : I-8718976
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718976

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
TR87P6 R973	207	--	0.07
TR87P6 R974	207	--	0.03
TR87P6 R975	207	--	< 0.03
TR87P6 R976	207	--	0.75
TR87P6 R977	207	--	2.19
TR87P6 R978	207	--	0.21
TR87P6 R979	207	--	0.41
TR87P6 R980	207	--	< 0.03
TR87P6 R981	207	--	0.14
TR87P6 R982	207	--	0.58
TR87P6 R983	207	--	0.45
TR87P6 R984	207	--	0.17
TR87P6 R9355	207	--	0.24
TR87P6 R9356	207	--	< 0.03
TR87P6 R9357	207	--	< 0.03
TR87P6 R9358	207	--	< 0.03
TR87P6 R9359	207	--	< 0.03
TR87P6 R9360	207	--	< 0.03
TR87P6 R9361	207	--	< 0.03

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Project : HGJV
Comments:

Date : 31-JUL-87
Invoice # : I-8718981
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718981

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
R 8459	207	--	0.07
R 8461	207	--	0.17
R 8462	207	--	0.17
R 8463	207	--	0.21
R 8464	207	--	0.14
R 8465	207	--	0.58
R 8466	207	--	0.17
R 8467	207	--	0.03
R 8468	207	--	0.27
R 8469	207	--	0.10
R 8470	207	--	0.03
R 8471	207	--	0.03
R 8472	207	--	0.10
R 8473	207	--	0.10
R 8474	207	--	0.14
R 8475	207	--	0.17
R 8476	207	--	0.03
R 8477	207	--	0.03
R 8478	207	--	0.03
R 8479	207	--	0.31
R 8480	207	--	0.17
R 8481	207	--	0.10
R 8482	207	--	0.03
R 8483	207	--	0.17
R 8484	207	--	0.03
R 8485	207	--	0.14
R 8486	207	--	0.07
R 8487	207	--	0.03
R 8488	207	--	0.07
R 8489	207	--	0.93
R 8490	207	--	0.34
R 8491	207	--	0.21
R 8492	207	--	0.96
R 8493	207	--	0.31
R 8494	207	--	0.10

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Date : 31-JUL-87
Invoice # : I-8718974
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718974

SAMPLE DESCRIPTION	PREP CODE		Au g/t RUSH
TR87P6 R985	236	--	0.41
TR87P6 R986	236	--	2.54
TR87P6 R987	236	--	0.89
TR87P6 R988	236	--	0.51
TR87P6 R989	236	--	0.38
TR87P6 R990	236	--	0.51
TR87P6 R991	236	--	0.27
TR87P6 R992	236	--	0.48
TR87P6 R993	236	--	0.34
TR87P6 R994	236	--	0.34
TR87P6 R995	236	--	0.65
TR87P6 R996	236	--	0.51
TR87P6 R997	236	--	0.65
TR87P6 R998	236	--	0.72
TR87P6 R9351	236	--	0.14
TR87P6 R9352	236	--	0.14
TR87P6 R9353	236	--	1.17
TR87P6 R9354	236	--	0.27

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Comments:

Page [redacted] 1
Tot. Pa[redacted] 1
Date : 19-AUG-87
Invoice # : I-8719967
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8719967

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
R 9401	207	--	0.27
R 9402	207	--	0.07
R 9403	207	--	0.17
R 9404	207	--	0.55
R 9405	207	--	0.10
R 9406	207	--	0.03
R 9407	207	--	0.07
R 9408	207	--	0.03
R 9409	207	--	0.03
R 9410	207	--	0.03
R 9411	207	--	0.38
R 9412	207	--	0.10
R 9413	207	--	0.21
R 9414	207	--	0.07
R 9415	207	--	< 0.03
R 9416	207	--	< 0.03
R 9417	207	--	< 0.03
R 9418	207	--	< 0.03
R 9419	207	--	< 0.03
R 9420	207	--	< 0.03
R 9421	207	--	0.07
R 9422	207	--	< 0.03
R 9423	207	--	0.14
R 9424	207	--	0.38
R 9425	207	--	0.48
R 9426	207	--	1.20
R 9427	207	--	2.98
R 9428	207	--	0.79
R 9429	207	--	0.55
R 9430	207	--	0.07
R 9431	207	--	0.07
R 9432	207	--	0.10

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Date :20-AUG-87
Invoice # :I-8719993
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8719993

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
R9362	207	--	0.07
9363	207	--	0.24
9364	207	--	0.03
9365	207	--	0.10
9366	207	--	0.07
9367	207	--	0.07
9368	207	--	0.07
9369	207	--	0.14
9370	207	--	0.07
9371	207	--	0.07
9372	207	--	0.07
9373	207	--	0.03
9374	207	--	0.03
9375	207	--	0.03
9376	207	--	0.03
9377	207	--	< 0.03
9378	207	--	< 0.03
9379	207	--	0.03
9380	207	--	0.03
9381	207	--	0.03
9382	207	--	< 0.03
9383	207	--	0.14
9384	207	--	< 0.03
9385	207	--	< 0.03
9433	207	--	0.17
9434	207	--	0.07
9435	207	--	0.07
9436	207	--	< 0.03
9437	207	--	0.03
9438	207	--	< 0.03
9439	207	--	0.03
9440	207	--	0.03
9441	207	--	0.03

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Tot. Pag[redacted]
Date : 25-AUG-87
Invoice # : I-8718977
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718977

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
P 20958	203	--	10
P 20959	203	--	5
P 20960	203	--	9
P 20961	203	--	15
P 20962	203	--	13
P 20963	203	--	6
P 20964	203	--	2
P 20965	203	--	13
P 20966	203	--	18

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Comments:

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Tot. Pag[redacted]
Date : 25-AUG-87
Invoice # : I-8718977
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718977

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
P 20901	203	---	< 1
P 20902	203	---	< 1
P 20903	203	---	17
P 20904	203	---	10
P 20905	203	---	8
P 20906	203	---	4
P 20907	203	---	18
P 20908	203	---	18
P 20909	203	---	24
P 20910	203	---	6
P 20911	203	---	4
P 20912	203	---	52
P 20913	203	---	21
P 20914	203	---	11
P 20915	203	---	10
P 20916	203	---	23
P 20917	203	---	48
P 20918	203	---	6
P 20919	203	---	20
P 20920	203	---	5
P 20921	203	---	14
P 20922	203	---	< 1
P 20923	203	---	1
P 20924	203	---	4
P 20925	203	---	< 1
P 20926	203	---	10
P 20927	203	---	5
P 20928	203	---	15
P 20929	203	---	< 1
P 20930	203	---	9
P 20931	203	---	< 1
P 20932	203	---	2
P 20933	203	---	10
P 20951	203	---	4
P 20952	203	---	13
P 20953	203	---	11
P 20954	203	---	9
P 20955	203	---	2
P 20956	203	---	45
P 20957	203	---	5

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Date : 4-SEP-87
Invoice # : I-8721064
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8721064

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
P 20601	207	--	< 0.03
P 20602	207	--	0.07
P 20603	207	--	< 0.03
P 20604	207	--	< 0.03
P 20605	207	--	0.07
P 20606	207	--	< 0.03
P 20607	207	--	< 0.03
P 20608	207	--	< 0.03
P 20609	207	--	0.14
P 20610	207	--	0.31
P 20611	207	--	0.14
P 20612	207	--	0.03
P 20613	207	--	0.17
P 20614	207	--	0.24
P 20615	207	--	0.72
P 20616	207	--	0.10
P 20617	207	--	0.55
P 20618	207	--	0.21
P 20619	207	--	0.72
P 20620	207	--	0.62
P 20621	207	--	0.86
P 20622	207	--	0.07
P 20623	207	--	< 0.03
P 20624	207	--	0.03
P 20625	207	--	0.07
P 20626	207	--	0.24
P 20627	207	--	0.03
P 20628	207	--	0.51
P 20629	207	--	0.17
P 20630	207	--	< 0.03
P 20631	207	--	< 0.03
P 20632	207	--	< 0.03
P 20633	207	--	< 0.03
P 20642	207	--	< 0.03
P 20643	207	--	< 0.03
P 20644	207	--	< 0.03
P 20651	207	--	< 0.03
P 20652	207	--	< 0.03
P 20653	207	--	0.03
P 20654	207	--	0.10

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SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
P 20655	207	--	0.03
P 20656	207	--	0.03
P 20657	207	--	0.07
P 20658	207	--	0.21
P 20659	207	--	0.21

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CERTIFICATE OF ANALYSIS A8721628

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
P 20660	207	--	0.34
P 20661	207	--	0.17
P 20662	207	--	0.41
P 20663	207	--	0.41
P 20664	207	--	0.17
P 20665	207	--	0.38
P 20666	207	--	0.31
P 20667	207	--	0.14
P 20668	207	--	0.07
P 20669	207	--	0.10
P 20670	207	--	0.99
P 20671	207	--	0.07
P 20672	207	--	0.07
P 20673	207	--	0.41
P 20674	207	--	0.27
P 20675	207	--	0.24
P 20676	207	--	0.17
P 20677	207	--	0.10
P 20678	207	--	0.10
P 20679	207	--	0.07
P 20701	207	--	0.03
P 20702	207	--	0.10
P 20703	207	--	0.14
P 20704	207	--	0.58
P 20705	207	--	0.21
P 20706	207	--	0.17
P 20707	207	--	0.17
P 20708	207	--	0.07
P 20709	207	--	0.03
P 20710	207	--	0.17
P 20711	207	--	1.37
P 20712	207	--	2.85
P 20713	207	--	0.51
P 20714	207	--	0.31
P 20715	207	--	0.45
P 20716	207	--	0.17
P 20717	207	--	0.48
P 20718	207	--	0.07
P 20719	207	--	0.03
R 9442	207	--	0.03

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SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
R 9443	207	---	0.07
R 9444	207	---	0.07
R 9445	207	---	0.10
R 9446	207	---	0.31
R 9447	207	---	0.10
R 9448	207	---	0.48
R 9449	207	---	2.78
R 9450	207	---	0.72
R 9451	207	---	0.96
R 9452	207	---	1.37
R 9453	207	---	1.41
R 9454	207	---	0.75
R 9455	207	---	0.58
R 9456	207	---	0.45
R 9457	207	---	0.27
R 9458	207	---	0.38
R 9459	207	---	1.92
R 9460	207	---	0.75
R 9461	207	---	0.38
R 9462	207	---	0.03
R 9463	207	---	0.14
R 9464	207	---	0.31
R 9465	207	---	0.51
R 9466	207	---	0.48
R 9467	207	---	0.55
R 9468	207	---	0.65
R 9469	207	---	0.34
R 9470	207	---	0.62
R 9471	207	---	1.03
R 9472	207	---	0.31
R 9473	207	---	0.17
R 9474	207	---	0.07
R 9475	207	---	0.72
R 9476	207	---	0.34
R 9477	207	---	0.55
R 9478	207	---	0.31
R 9479	207	---	0.41
R 9480	207	---	0.34
R 9481	207	---	< 0.03
R 9482	207	---	0.03

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CERTIFICATE OF ANALYSIS A8721139

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
R 10924	203	---	4
R 10925	203	---	2
R 10926	203	---	2
R 10927	203	---	5
R 10928	203	---	23
R 10929	203	---	8
R 10930	203	---	29
R 10931	203	---	258
R 10932	203	---	58
R 10933	203	---	68
R 10934	203	---	34
R 10935	203	---	6
R 10936	203	---	16
R 10937	203	---	26
R 10938	203	---	57
R 10939	203	---	55
R 10940	203	---	25
R 10941	203	---	28
R 10942	203	---	12
R 10943	203	---	8
R 10944	203	---	17
R 10945	203	---	33
R 10946	203	---	20
R 10947	203	---	390
R 10948	203	---	96
R 10949	203	---	78
R 10950	203	---	60
R 10951	203	---	70
R 10952	203	---	41
R 10953	203	---	106
R 10954	203	---	378
R 10955	203	---	177
R 10957	203	---	2
R 10958	203	---	17
R 10959	203	---	10
R 10960	203	---	14
R 10961	203	---	429
R 10962	203	---	< 1
R 10963	203	---	19
R 10964	203	---	21

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CERTIFICATE OF ANALYSIS A8721139

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
R 10965	203	--	14
R 10966	203	--	104
R 10967	203	--	43
R 10968	203	--	25
R 10969	203	--	67
R 10970	203	--	570
R 10972	203	--	244
R 10973	203	--	353
R 10974	203	--	96
R 10975	203	--	163
R 10976	203	--	82
R 10977	203	--	146
R 10978	203	--	84
R 10979	203	--	43
R 10980	203	--	3
R 10981	203	--	9
R 10982	203	--	8
R 10983	203	--	15
R 10984	203	--	11
R 10985	203	--	22
R 10986	203	--	250
R 10987	203	--	230
R 10988	203	--	21
R 10989	203	--	61
R 10990	203	--	36
R 10991	203	--	16
R 10992	203	--	23
R 10993	203	--	19
R 10994	203	--	136
R 10995	203	--	20
R 10996	203	--	241
R 10997	203	--	11
R 10998	203	--	94
R 10999	203	--	< 1
R 11000	203	--	126
R 20634	203	--	136
R 20635	203	--	61
R 20636	203	--	935
R 20637	203	--	14
R 20638	203	--	18

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CERTIFICATE OF ANALYSIS A8721139

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
R 20639	203	--	37
R 20640	203	--	127
R 20641	203	--	179

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Page [redacted] : 1
Tot. [redacted] : 1
Date : 14-SEP-87
Invoice # : I-8719965
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CERTIFICATE OF ANALYSIS A8719965

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
R 20967	203	--	45
R 20968	203	--	61
R 20969	203	--	18
R 20970	203	--	9
R 20971	203	--	5
R 20972	203	--	3
R 20973	203	--	15
R 20974	203	--	6
R 20975	203	--	4
R 20976	203	--	3
R 20977	203	--	8
R 20978	203	--	1
R 20979	203	--	6
R 20980	203	--	< 1
R 20981	203	--	26
R 20982	203	--	2
R 20983	203	--	< 1
R 20984	203	--	9
R 20985	203	--	12
R 20986	203	--	1
R 20987	203	--	344
R 20988	203	--	13
R 20989	203	--	21
R 20990	203	--	8
R 20991	203	--	4
R 20992	203	--	3
R 20993	203	--	4
R 20994	203	--	66
R 20995	203	--	48
R 20996	203	--	26
R 20997	203	--	5
R 20998	203	--	5

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CERTIFICATE OF ANALYSIS A8721149

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
R 10956	205	--	36
R 10971	205	--	114

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Invoice # : I-8722807
P.O. # :

CERTIFICATE OF ANALYSIS A8722807

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
P 20645	207	--	< 0.03
P 20646	207	--	< 0.03
P 20647	207	--	< 0.03
P 20648	207	--	< 0.03
P 20649	207	--	< 0.03
P 20650	207	--	0.03
P 20680	207	--	0.10
P 20681	207	--	0.27
P 20682	207	--	0.14
P 20683	207	--	0.89
P 20684	207	--	0.14
P 20685	207	--	0.07
P 20686	207	--	0.03
P 20687	207	--	< 0.03
P 20688	207	--	< 0.03
P 20689	207	--	< 0.03
P 20690	207	--	0.07
P 20691	207	--	0.07
P 20692	207	--	0.10
P 20693	207	--	0.14
P 20694	207	--	0.07
P 20695	207	--	0.10
P 20696	207	--	0.10
P 20697	207	--	0.24
P 20698	207	--	0.10
P 20699	207	--	0.10
P 20700	207	--	0.03
P 20720	207	--	0.07
P 20721	207	--	0.07
P 20722	207	--	0.10
P 20723	207	--	0.10
P 20724	207	--	0.03
P 20725	207	--	0.07
P 20726	207	--	0.07
P 20727	207	--	0.03
P 20728	207	--	0.03
P 20729	207	--	0.07
P 20730	207	--	0.07
P 20731	207	--	0.07
P 20732	207	--	0.03

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SAMPLE DESCRIPTION	PREP CODE		Au g/tonne									
P 20733	207	--	< 0.03									
P 20734	207	--	< 0.03									
P 20735	207	--	0.10									
P 20736	207	--	0.03									
P 20737	207	--	< 0.03									
P 20738	207	--	0.69									
P 20739	207	--	0.86									
P 20740	207	--	0.21									
P 20741	207	--	1.65	P2 1.5m								
P 20742	207	--	0.45									
P 20743	207	--	0.41									
P 20744	207	--	1.10	P2 2.5								
P 20745	207	--	0.99	6.5								
P 20746	207	--	0.96	2.7								
P 20747	207	--	0.48									
P 20748	207	--	0.10									
P 20749	207	--	0.45									
P 20750	207	--	0.17									
P 20751	207	--	0.07									
P 20752	207	--	0.62									
P 20753	207	--	0.27									
P 20754	207	--	0.51									
P 20755	207	--	0.99									
P 20756	207	--	0.34									
P 20757	207	--	0.21									
P 20758	207	--	0.27									
P 20759	207	--	0.24									
P 20760	207	--	0.27									
P 20761	207	--	0.45									
P 20762	207	--	0.31									
P 20763	207	--	0.38									
P 20764	207	--	0.27									
P 20765	207	--	0.07									
P 20766	207	--	0.34									
P 20767	207	--	2.13	P13 5.0								
P 20768	207	--	3.98	P13 5.0								
P 20769	207	--	0.55									
P 20770	207	--	0.48									
P 20771	207	--	0.58									
P 20772	207	--	0.27									

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SAMPLE DESCRIPTION	PREP CODE		Au g/tonne	
P 20773	207	--	0.10	
P 20774	207	--	0.03	
P 20775	207	--	< 0.03	
P 20776	207	--	< 0.03	
P 20777	207	--	< 0.03	
P 20778	207	--	0.17	
P 20779	207	--	0.17	
P 20780	207	--	0.10	
P 20781	207	--	0.10	
P 20782	207	--	0.07	
P 20783	207	--	0.17	
P 20784	207	--	0.17	
P 20785	207	--	0.14	
P 20786	207	--	< 0.03	
P 20787	207	--	< 0.03	
P 20788	207	--	0.03	
P 20789	207	--	< 0.03	
P 20790	207	--	< 0.03	
P 20791	207	--	< 0.03	
P 20792	207	--	< 0.03	
P 20793	207	--	< 0.03	
P 20794	207	--	< 0.03	
P 20795	207	--	0.03	
P 20796	207	--	0.03	
P 20797	207	--	0.41	
P 20798	207	--	1.71	Pb 3.2
P 20799	207	--	1.54	Pb 1.2
P 20800	207	--	0.07	
P 20801	207	--	0.03	
P 20802	207	--	0.03	
P 20803	207	--	1.03	Pb 2.5
P 20804	207	--	0.31	
P 20805	207	--	0.86	
P 20806	207	--	0.03	
P 20807	207	--	0.10	
P 20808	207	--	0.24	
P 20809	207	--	0.69	
P 20810	207	--	0.27	
P 20811	207	--	0.38	
P 20812	207	--	1.20	Pb 2.5

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CERTIFICATION : B. Swaile

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Project : HGJV
Comments:

Date : 30-SEP-87
Invoice # : I-8722807
P.O. # :

CERTIFICATE OF ANALYSIS A8722807

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne
P 20813	207	--	1.82
P 20814	207	--	0.65
P 20815	207	--	12.70
P 20816	207	--	1.13
P 20817	207	--	3.36
P 20818	207	--	3.45
P 20819	207	--	0.69
R 2925	207	--	0.27
R 2926	207	--	0.07
R 2927	207	--	0.24
R 2928	207	--	0.14
R 2929	207	--	0.58
R 2930	207	--	1.10

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CERTIFICATION : B. Stuartes

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Date : 30-SEP-87
Invoice # : I-8722806
P.O. # :

CERTIFICATE OF ANALYSIS A8722806

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
P 20820	203	--	9
P 20821	203	--	7
P 20822	203	--	15
P 20823	203	--	13
P 20824	203	--	14
P 20825	203	--	35
P 20826	203	--	11
P 20827	203	--	7
P 20828	203	--	18
P 20829	203	--	4
P 20830	203	--	23
P 20831	203	--	6
P 20832	203	--	3
P 20833	203	--	131
P 20834	203	--	52
P 20835	203	--	< 1
P 20836	203	--	4
P 20837	203	--	26
P 20838	203	--	18
P 20839	203	--	10
P 20840	203	--	14
P 20841	203	--	< 1
P 20842	203	--	3
P 20843	203	--	11
P 20844	203	--	23
P 20845	203	--	21
P 20846	203	--	< 1
P 20847	203	--	9
P 20848	203	--	20
P 20849	203	--	< 1
P 20850	203	--	19
P 20851	203	--	19
P 20852	203	--	22
P 20853	203	--	197
P 20854	203	--	62
P 20855	203	--	70
P 20856	203	--	70
P 20857	203	--	32
P 20858	203	--	43
P 20859	203	--	43

CERTIFICATION : Stan Buchles

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Date : 30-SEP-87
Invoice # : I-8722806
P.O. # :

CERTIFICATE OF ANALYSIS A8722806

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb
P 20860	203	--	83
P 20861	203	--	5
P 20862	203	--	5
P 20863	203	--	5
P 20864	203	--	4
P 20865	203	--	32
P 20866	203	--	80

CERTIFICATION : Ian Bucher

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Project : IKUV
Comments:

Date : 13-OCT-87
Invoice # : I-8723894
P.O. # :

CERTIFICATE OF ANALYSIS A8723894

SAMPLE DESCRIPTION	PREP CODE		Ag oz/T	Au g/tonne								
P20867	207	--	4.65	3.91								

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CERTIFICATION : W. Ellen Manini

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Project : HGJV
Comments:

Page No. : 1
Tot. Pages: 1
Date : 15-OCT-87
Invoice # : I-8723891
P.O. # :

CERTIFICATE OF ANALYSIS A8723891

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb									
R2924	205	--	41									

CERTIFICATION : Ian Bichler

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Project : HGJV
Comments:

Date : 25-OCT-87
Invoice # : I-8724174
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8724174

SAMPLE DESCRIPTION	PREP CODE		Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R 929	214	238	0.58	8.2	5820	100	< 0.5	786	0.14	< 0.5	1	9	14	3.13	< 10	< 1	0.45	50	0.04	116	< 1
R 931	214	238	0.24	35.0	5760	90	< 0.5	290	0.06	< 0.5	1	28	23	6.27	< 10	< 1	0.28	50	0.03	199	< 1
R 977	214	238	0.22	5.0	2300	10	< 0.5	42	0.09	< 0.5	4	1	68	7.05	< 10	< 1	0.07	20	0.02	2190	< 1
IR87P6 R986	214	238	0.14	8.2	7360	50	< 0.5	36	0.24	< 0.5	1	9	42	2.84	< 10	< 1	0.05	< 10	0.02	82	< 1
R 8492	214	238	0.32	1.2	>10000	210	< 0.5	22	0.35	< 0.5	1	7	247	>15.00	< 10	< 1	1.46	10	0.03	1105	< 1
P 20636	214	238	[redacted]	0.2	155	180	< 0.5	< 2	1.58	< 0.5	13	61	35	3.18	< 10	< 1	0.27	30	0.50	597	< 1
P 20712	214	238	0.24	4.6	>10000	30	< 0.5	110	0.37	< 0.5	2	< 1	124	>15.00	< 10	< 1	0.13	20	0.02	705	< 1
R 9449	214	238	0.33	40.0	3090	40	< 0.5	212	0.04	< 0.5	1	19	118	2.38	< 10	< 1	0.18	60	0.02	58	< 1
P 20683	214	238	0.33	0.2	180	40	< 0.5	4	0.13	< 0.5	3	8	89	4.49	< 10	< 1	0.16	10	0.05	988	< 1
P 20744	214	238	0.39	0.2	>10000	150	< 0.5	84	0.03	< 0.5	1	14	24	2.83	< 10	< 1	0.20	40	0.02	77	< 1
P 20755	214	238	0.14	1.0	615	190	< 0.5	18	0.01	< 0.5	< 1	9	8	1.35	< 10	< 1	0.16	40	0.01	53	1
P 20767	214	238	0.16	1.4	>10000	20	< 0.5	18	0.11	< 0.5	15	10	82	4.67	< 10	< 1	0.13	50	0.01	83	< 1
P 20768	214	238	0.15	1.2	>10000	30	< 0.5	42	0.05	< 0.5	3	5	180	6.91	< 10	< 1	0.09	70	0.02	87	< 1
P 20798	214	238	0.11	9.0	>10000	10	< 0.5	38	0.19	< 0.5	< 1	27	22	2.19	< 10	< 1	0.03	10	0.02	220	< 1
P 20812	214	238	0.27	0.4	1055	30	< 0.5	204	< 0.01	< 0.5	< 1	10	8	1.83	< 10	< 1	0.12	40	0.02	37	1
P 20813	214	238	0.55	1.4	1565	50	< 0.5	110	0.01	< 0.5	< 1	9	11	1.91	< 10	< 1	0.23	10	0.04	26	2
P 20815	214	238	0.10	[redacted]	>10000	70	< 0.5	1280	0.01	< 0.5	< 1	< 1	107	9.97	< 10	< 1	0.15	< 10	0.01	32	< 1
P 20818	214	238	0.26	6.0	>10000	40	< 0.5	130	< 0.01	< 0.5	< 1	3	42	3.58	< 10	< 1	0.20	20	0.01	48	< 1
R 2930	214	238	0.21	3.0	5650	50	< 0.5	260	0.11	< 0.5	< 1	19	29	2.08	< 10	< 1	0.12	20	0.02	114	< 1

CERTIFICATION : [redacted]

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Project : HGJV
Comments:

Date : 25-OCT-87
Invoice # : I-8724174
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8724174

SAMPLE DESCRIPTION	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Au oz/t
R 929	214	238	< 0.01	6	310	124	300	< 10	92	< 0.01	< 10	< 10	7	< 5	24	.005
R 931	214	238	0.01	19	160	56	275	< 10	81	< 0.01	< 10	< 10	10	< 5	12	.045
R 977	214	238	< 0.01	9	200	16	20	< 10	17	< 0.01	< 10	< 10	5	< 5	22	.064
IR87P6 R986	214	238	0.01	7	110	28	50	< 10	62	< 0.01	< 10	< 10	2	< 5	6	.004
R 8492	214	238	0.01	6	1560	120	145	< 10	1365	< 0.01	< 10	20	42	< 5	37	.015
P 20636	214	238	0.02	28	640	40	5	< 10	62	0.02	< 10	< 10	31	< 5	88	.024
P 20712	214	238	< 0.01	4	530	10	100	< 10	49	< 0.01	< 10	< 10	7	< 5	4	.008
R 9449	214	238	0.01	5	170	26	795	< 10	44	< 0.01	< 10	< 10	4	< 5	6	.051
P 20683	214	238	< 0.01	12	110	< 2	5	< 10	9	< 0.01	< 10	< 10	5	< 5	4	.022
P 20744	214	238	< 0.01	8	70	6	15	< 10	4	0.01	< 10	< 10	5	< 5	3	.032
P 20755	214	238	< 0.01	5	100	10	5	< 10	9	0.01	< 10	< 10	3	< 5	2	.029
P 20767	214	238	0.01	8	150	54	55	< 10	77	< 0.01	< 10	< 10	4	45	12	.016
P 20768	214	238	< 0.01	5	220	42	50	10	35	< 0.01	< 10	< 10	5	145	8	.116
P 20798	214	238	0.01	27	100	54	115	< 10	41	< 0.01	< 10	< 10	2	< 5	7	.050
P 20812	214	238	0.01	1	130	2	15	< 10	1	< 0.01	< 10	< 10	5	< 5	1	.035
P 20813	214	238	0.01	5	240	34	40	< 10	4	< 0.01	< 10	< 10	6	< 5	1	.053
P 20815	214	238	0.01	< 1	6870	64	160	< 10	18	< 0.01	< 10	< 10	5	< 5	1	.270
P 20818	214	238	< 0.01	< 1	300	78	140	< 10	7	< 0.01	< 10	< 10	3	< 5	2	.101
R 2930	214	238	0.01	7	630	42	30	< 10	34	< 0.01	< 10	< 10	4	< 5	7	.032

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Date : 29-NOV-87
Invoice # : I-8726555
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8726555

SAMPLE DESCRIPTION	PREP CODE		Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
P 20677	214	238	0.31	< 0.2	1740	20	6.0	< 2	1.06	< 0.5	1	3	336	>15.00	< 10	< 1	0.10	10	1.13	3610	< 1
R 9452 .040ff	214	238	0.25	12.4	1185	80	1.5	138	< 0.01	< 0.5	< 1	10	12	2.85	< 10	< 1	0.12	20	0.01	64	1
R 9459 .056	214	238	0.03	0.2	>10000	< 10	3.5	18	0.10	< 0.5	1	14	65	7.56	< 10	< 1	< 0.01	10	0.01	65	< 1

CERTIFICATION : [signature]

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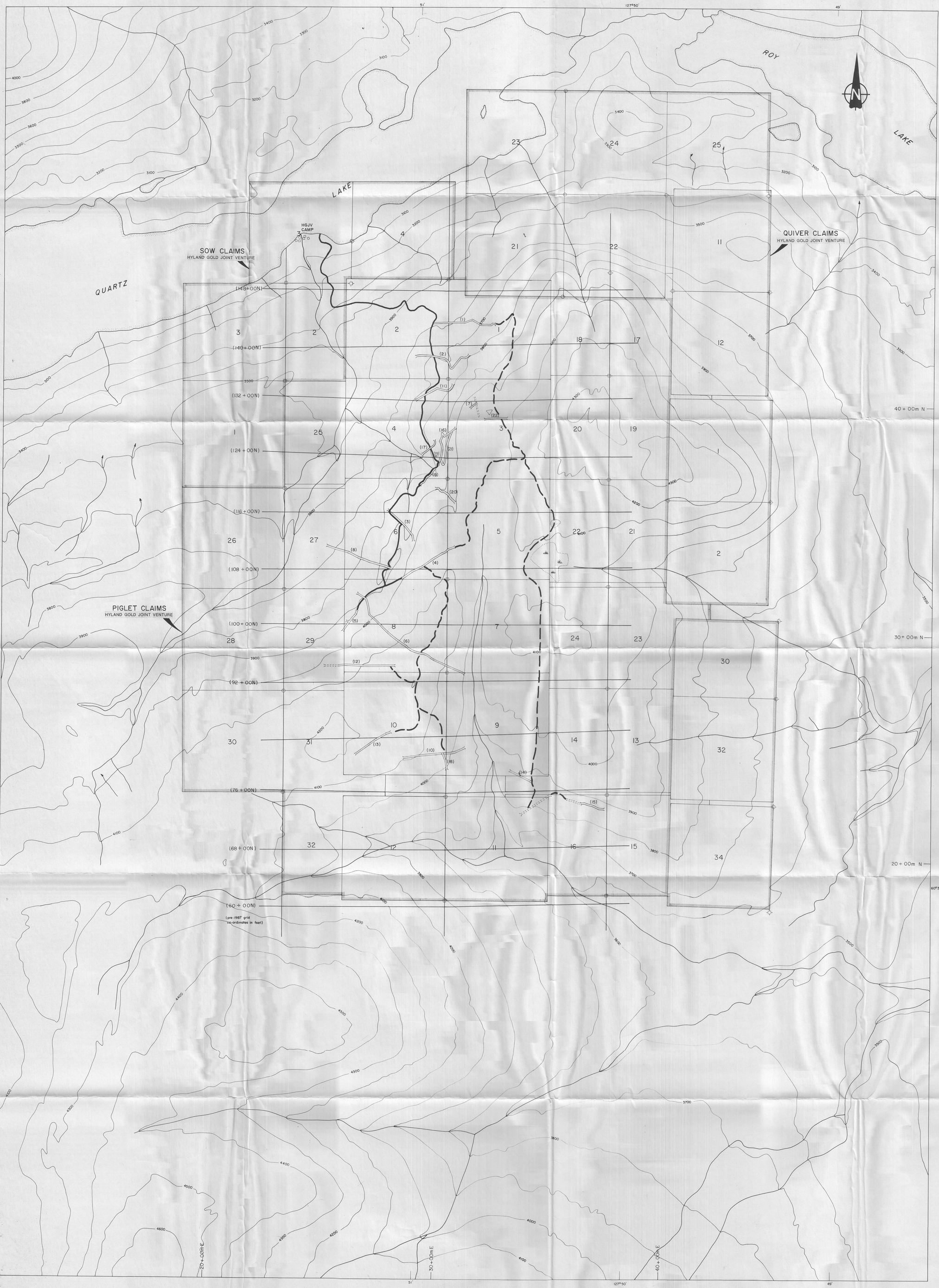
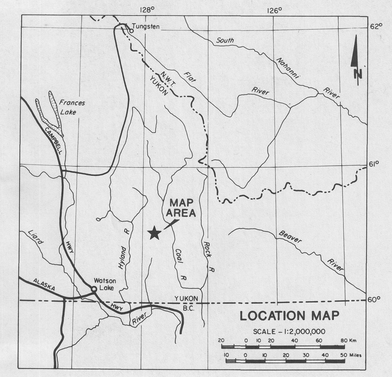
Page : B
Tot. Pages: 1
Date : 29-NOV-87
Invoice # : I-8726555
P.O. # : NONE

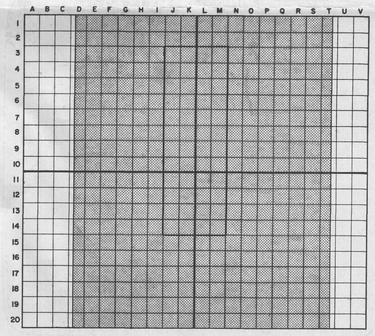
CERTIFICATE OF ANALYSIS A8726555

SAMPLE DESCRIPTION	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Au g/t	
P 20677	214	238	< 0.01	13	230	24	10	< 10	11	< 0.01	20	< 10	16	< 5	< 1	0.10	m. Sulphide
R 9452	214	238	< 0.01	4	80	150	195	< 10	39	0.02	10	< 10	8	< 5	130	1.37	Δ ~
R 9459	214	238	< 0.01	5	< 10	14	45	10	25	< 0.01	< 10	< 10	3	< 5	< 1	1.92	Δ ~

CERTIFICATION :







LEGEND

- 4WD road
- Cat track
- (2) Cat trench (to bedrock)
- Cat trench (not to bedrock)

Figure 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION

HYLAND GOLD PROPERTY

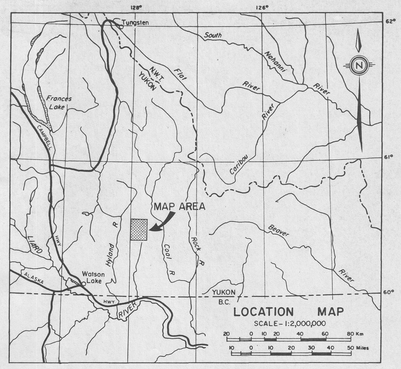
HYLAND GOLD JOINT VENTURE

100 0 50 100 200 300 400 Metres

100 0 50 100 200 300 400 Yards

To accompany report dated December 1987





LEGEND

- •45 Soil sample location (ppb Au)
- x32 Silt sample location (ppb Au)
- Contact (observed)
- Contact (approximate or assumed)
- Normal Fault
- Thrust Fault
- ★ Au Mineral occurrence with commodity

Lithologies

CAMBRIAN-HADRYNIAN

H1 (1a)
Dark limestones, limy shales and argillaceous limestones (may be in part Lower Cambrian)
ls siderite

1m massive sulphide

Hph 1 (1)
Grey, black and green phyllites, in places graphitic and often interbedded with Hph 2 and Hqu

Hph 2 (1)
Pink, tan, maroon and green phyllitic siltstones and phyllites; often interbedded with Hph 1

Hqu (1)
Grey and buff coloured orthoquartzites, lithic quartzites and calcareous quartzites, in places showing evidence of hydrothermal alteration; gradational to Hgr; often includes interbedded Hph1

Hgr (1)
Grey to buff coloured gritty quartzites and quartz-augen grits composed of bluish to milky quartz-augen in a coarse sandstone matrix

Bx
Quartzite breccia with tourmaline replacement and limonite-hematite matrix

Numbers in brackets refer to units on geological map 11-1568 (95D - Coal River).

Figure 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

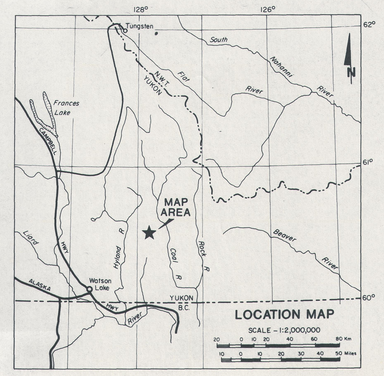
REGIONAL GEOLOGY

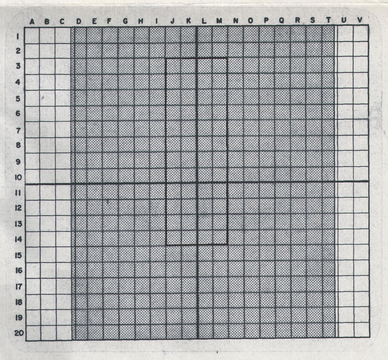
HYLAND GOLD PROPERTY

HYLAND GOLD JOINT VENTURE

SCALE - 1:20,000

To accompany report dated December, 1987





51'
127°50'
49'
60°30'
ROY LAKE
QUARTZ LAKE
HGJV CAMP
Diamond Drill Holes (1973)
Unconsolidated glacial till deposits
Boundary of thick glacial till deposits (approximate)
(148+00N)
(140+00N)
(132+00N)
(124+00N)
(116+00N)
(108+00N)
(100+00N)
(92+00N)
(84+00N)
(76+00N)
(68+00N)
(60+00N)
(pre-1987 grid co-ordinates in feet)
40+00m N
30+00m N
20+00m N
20+00m E
30+00m E
40+00m E
Hl
Hl (1a)
Hls
Hlm
Hph 1
Hph 2
Hqu
Hgr
Bx

LEGEND

contact (observed, approximate or assumed)

airphoto linear

normal fault (observed, approximate or assumed)

limit of outcrop

Lithologies

CAMBRIAN-HADRYNIAN

Hl (1a) Dark limestones, limy shales and argillaceous limestones (may be in part Lower Cambrian)

ls siderite

lm massive sulphide

Hph 1 (1) Grey, black and green phyllites, in places graphitic and often interbedded with Hph 2 and Hqu

Hph 2 (1) Pink, tan, maroon and green phyllitic siltstones and phyllites; often interbedded with Hph 1

Hqu (1) Grey and buff coloured orthoquartzites, lithic quartzites and calcareous quartzites, in places showing evidence of hydrothermal alteration; gradational to Hgr; often includes interbedded Hphl

Hgr (1) Grey to buff coloured gritty quartzites and quartz-augen grits composed of bluish to milky quartz-augen in a coarse sandstone matrix

Bx Quartzite breccia with tourmaline replacement and limonite-hematite matrix

Numbers in brackets refer to units on geological map 11-1568 (95D - Coal River).

Figure 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

HYLAND GOLD PROPERTY

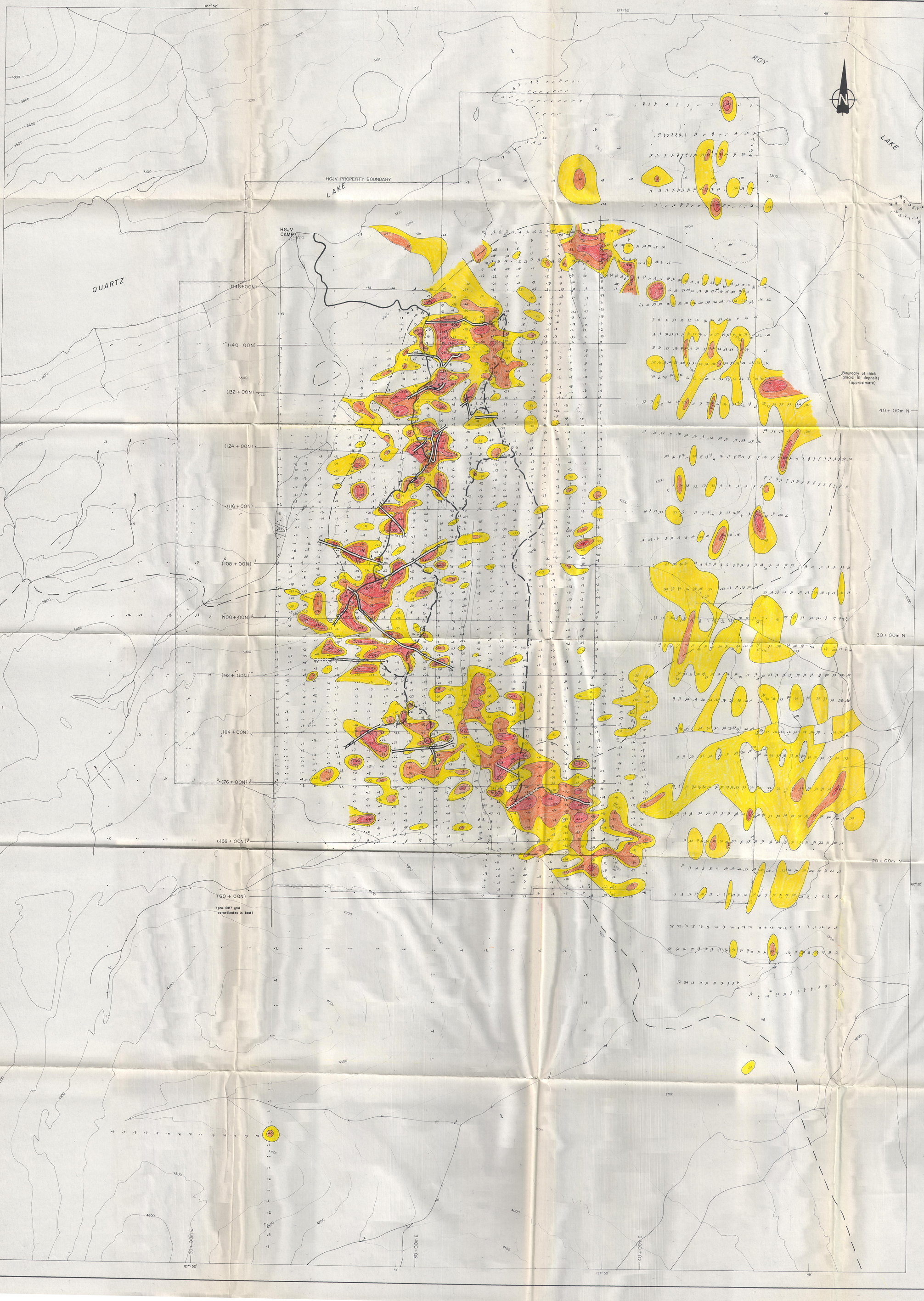
HYLAND GOLD JOINT VENTURE

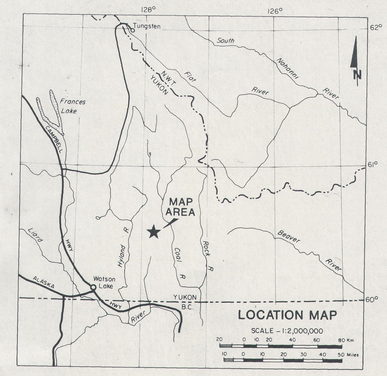
SCALE 1:5000

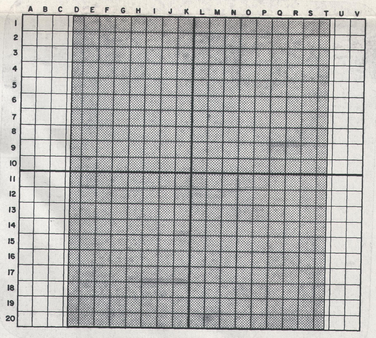
100 0 50 100 200 300 400 Metres

100 0 50 100 200 300 400 Yards

To accompany report dated December 1987







LEGEND

- .115 — Soil sample location (ppb Au)
- 4WD road
- Cat track
- Cat trench (to bedrock)
- Cat trench (not to bedrock)
- Hand trench (1986)

GOLD SOIL GEOCHEMISTRY

- ≥25>50
- ≥50>100
- ≥ 100ppb

TRENCH ASSAYS

- ≥ 0.35 > 0.85 (grams/tonne Au)
- ≥0.85 > 1.70
- ≥1.70

Figure 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

HYLAND GOLD PROPERTY

HYLAND GOLD JOINT VENTURE

SCALE 1:5000

100 0 50 100 200 300 400 Metres

100 0 50 100 200 300 400 Yards

To accompany report dated **December 1987**

HGJV PROPERTY BOUNDARY

HGJV CAMP

QUARTZ LAKE

ROY LAKE

Boundary of thick glacial till deposits (approximate)

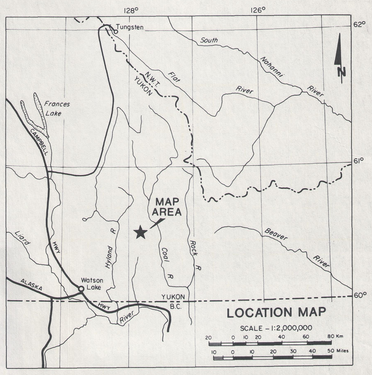
(148+00N)
(140+00N)
(132+00N)
(124+00N)
(116+00N)
(108+00N)
(100+00N)
(92+00N)
(84+00N)
(76+00N)
(68+00N)
(60+00N)

40+00m N
30+00m N
20+00m N

20+00m E
30+00m E
40+00m E

60° 30'
60° 50'
127° 50'
51'
49'

(pre-1987 grid co-ordinates in feet)



A B C D E F G H I J K L M N O P Q R S T U V

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

LEGEND

- 12 — Soil sample location (ppm As)
- 4-wheel-drive road
- Bulldozer trail
- Bulldozer trench (to bedrock)
- Bulldozer trench (not to bedrock)
- Hand trench (1986)

ARSENIC SOIL GEOCHEMISTRY

- ≥200>400 ppm
- ≥400>800 ppm
- ≥800 ppm

Figure 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC GEOCHEMISTRY

HYLAND GOLD PROPERTY

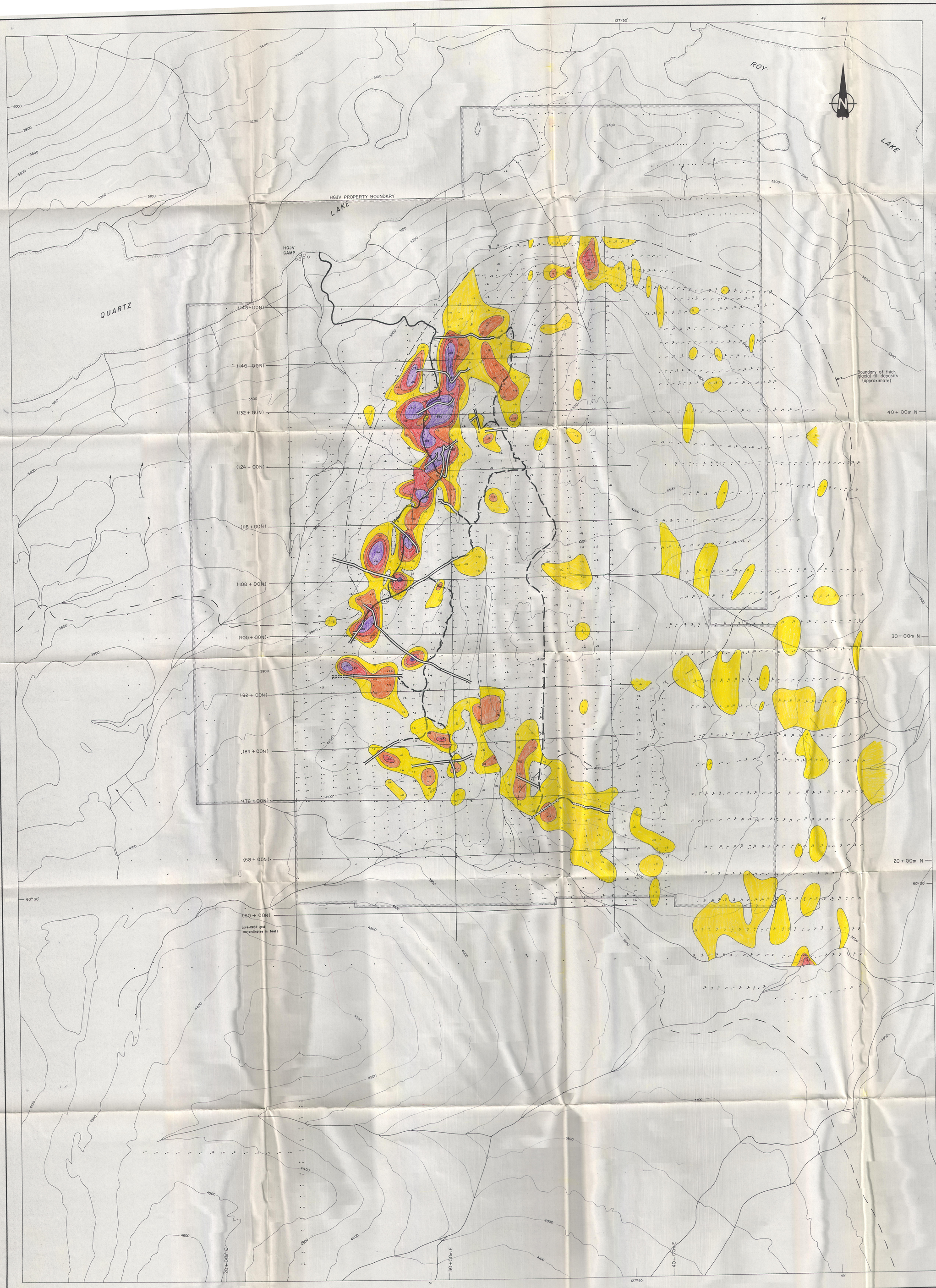
HYLAND GOLD JOINT VENTURE

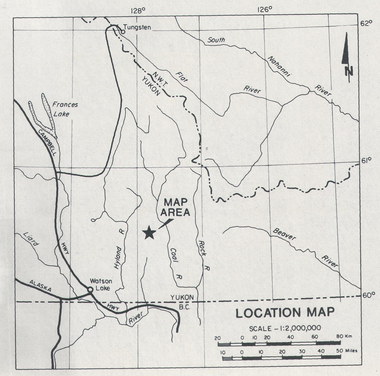
SCALE 1:5000

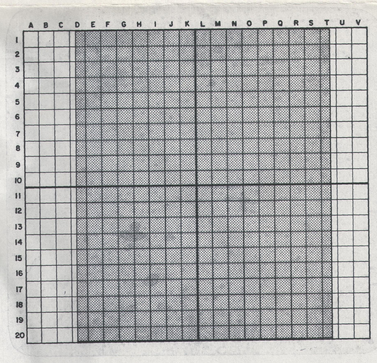
100 0 50 100 200 300 400 Metres

100 0 50 100 200 300 400 Yards

To accompany report dated December 1987







LEGEND

- .12 — Soil sample location (ppm Bi)
- 4WD road
- Cat track
- Cat trench (to bedrock)
- Cat trench (not to bedrock)
- Hand trench (1986)

BISMUTH SOIL GEOCHEMISTRY

- ≥ 4 >10 ppm
- ≥ 10 >20 ppm
- ≥20 >50 ppm
- ≥50 ppm

Figure 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

BISMUTH GEOCHEMISTRY

HYLAND GOLD PROPERTY

HYLAND GOLD JOINT VENTURE

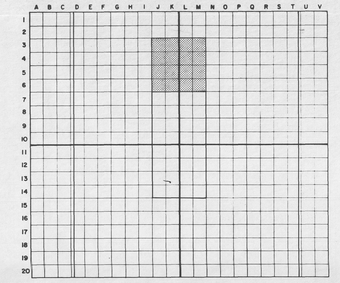
SCALE 1:5000

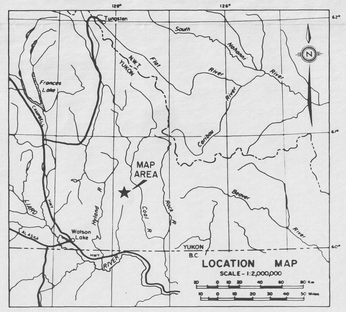
100 0 50 100 200 300 400 Metres

100 0 50 100 200 300 400 Yards

To accompany report dated December 1987







CONVERSION TABLE: grams/tonne → ounces/ton

grams/tonne	oz/ton	grams/tonne	oz/ton	grams/tonne	oz/ton
.03	.001	1.7	.050	7.0	.204
.05	.002	1.8	.053	7.5	.219
.10	.003	1.9	.055	8.0	.233
.15	.004	2.0	.058	8.5	.248
.20	.006	2.2	.064	9.0	.263
.25	.007	2.4	.070	9.5	.277
.30	.009	2.6	.076	10.0	.292
.35	.010	2.8	.082	10.5	.306
.40	.012	3.0	.088	11.0	.321
.45	.013	3.2	.093	11.5	.335
.50	.015	3.4	.099	12.0	.350
.55	.016	3.6	.105	12.5	.365
.60	.018	3.8	.111	13.0	.379
.65	.019	4.0	.117	13.5	.394
.70	.020	4.2	.123	14.0	.408
.75	.022	4.4	.128	14.5	.423
.80	.023	4.6	.134	15.0	.438
.85	.025	4.8	.140	15.5	.452
.90	.026	5.0	.146	16.0	.467
.95	.028	5.2	.152	16.5	.481
1.00	.029	5.4	.158	17.0	.496
1.10	.032	5.6	.163	17.5	.510
1.20	.035	5.8	.169	18.0	.525
1.30	.038	6.0	.175	18.5	.540
1.40	.041	6.2	.181	19.0	.554
1.50	.044	6.4	.187	19.5	.569
1.60	.047	6.8	.198	20.0	.583

(34.285 grams/tonne = 1 ounce/ton)

LEGEND

- contact (observed, approximate or assumed)
- fault (observed, approximate or assumed)
- limit of outcrop
- bedding attitude
- fault attitude
- jointing attitude
- vein attitude
- soil sample

Trench assays are given in grams per tonne gold

Lithologies

CAMBRIAN-HADRYNIAN

Hl (1a) Dark limestones, limy shales and argillaceous limestones (may be in part Lower Cambrian)
- ls siderite
- lm massive sulphide

Hph 1 (1) Grey, black and green phyllites, in places graphitic and often interbedded with Hph 2 and Hqu

Hph 2 (1) Pink, tan, maroon and green phyllitic siltstones and phyllites; often interbedded with Hph 1

Hqu (1) Grey and buff coloured orthoquartzites, lithic quartzites and calcareous quartzites, in places showing evidence of hydrothermal alteration; gradational to Hgr; often includes interbedded Hph1

Hgr (1) Grey to buff coloured gritty quartzites and quartz-augen grits composed of bluish to milky quartz-augen in a coarse sandstone matrix

Bx Quartzite breccia with tourmaline replacement and limonite-hematite matrix

Numbers in brackets refer to units on geological map 11-1568 (95D - Coal River).

Figure 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH ASSAYS & GEOLOGY

HYLAND GOLD PROPERTY - NORTH

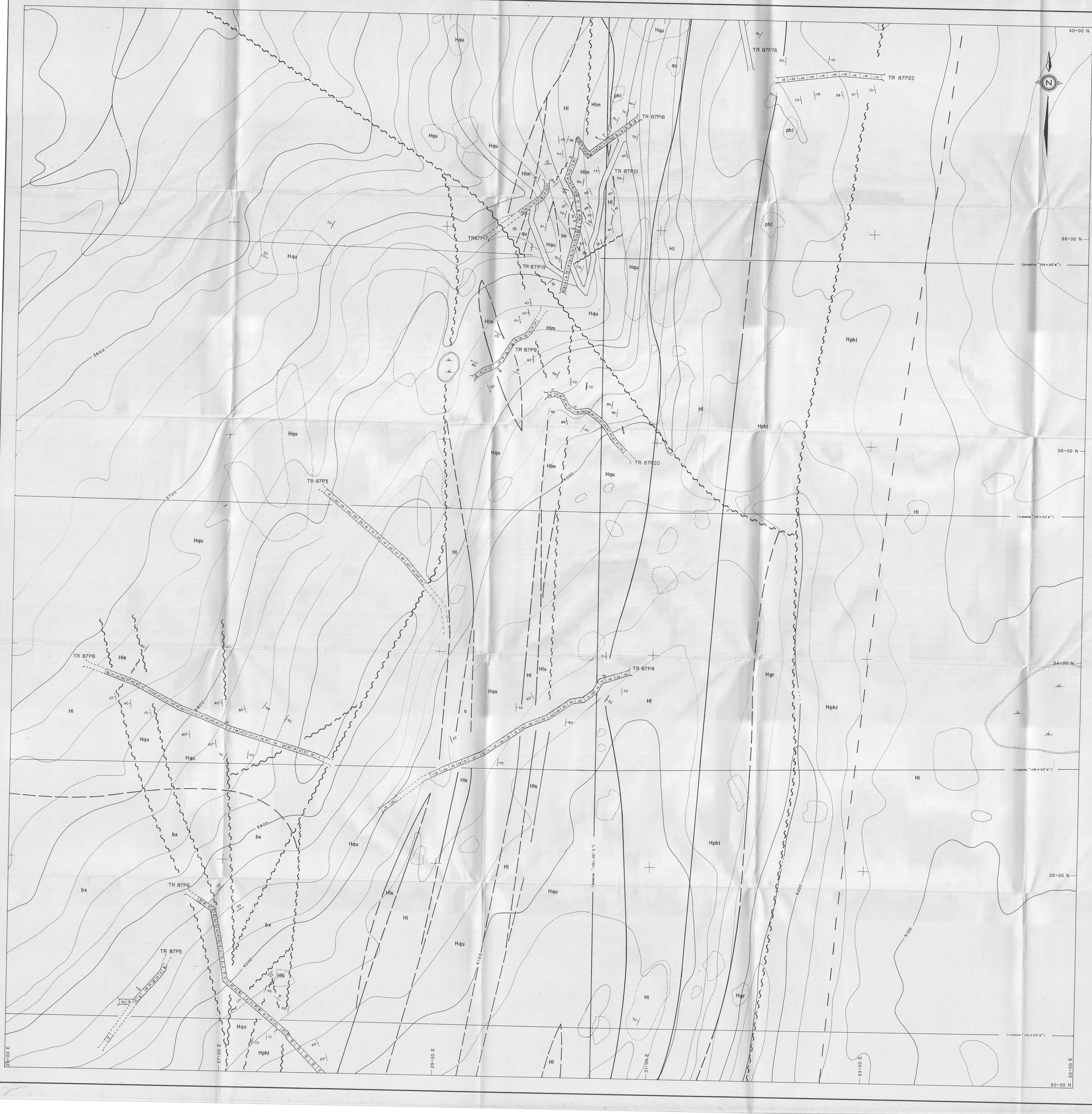
HYLAND GOLD JOINT VENTURE

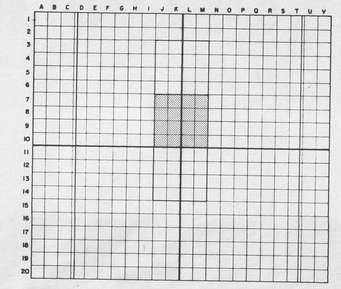
SCALE - 1:1000

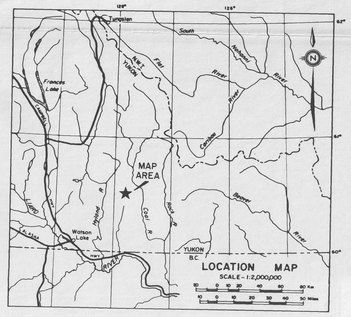
20 10 0 10 20 30 40 50 60 Metres

20 10 0 10 20 40 60 Yards

To accompany report dated December 1987







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grams/tonne	oz/ton	grams/tonne	oz/ton	grams/tonne	oz/ton
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.20	.006	2.2	.064	9.0	.263
.25	.007	2.4	.070	9.5	.277
.30	.009	2.6	.076	10.0	.292
.35	.010	2.8	.082	10.5	.306
.40	.012	3.0	.088	11.0	.321
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.50	.015	3.4	.099	12.0	.350
.55	.016	3.6	.105	12.5	.365
.60	.018	3.8	.111	13.0	.379
.65	.019	4.0	.117	13.5	.394
.70	.020	4.2	.123	14.0	.408
.75	.022	4.4	.128	14.5	.423
.80	.023	4.6	.134	15.0	.438
.85	.025	4.8	.140	15.5	.452
.90	.026	5.0	.146	16.0	.467
.95	.028	5.2	.152	16.5	.481
1.00	.029	5.4	.158	17.0	.496
1.10	.032	5.6	.163	17.5	.510
1.20	.035	5.8	.169	18.0	.525
1.30	.038	6.0	.175	18.5	.540
1.40	.041	6.2	.181	19.0	.554
1.50	.044	6.4	.187	19.5	.569
1.60	.047	6.8	.198	20.0	.583

(34.285 grams/tonne = 1 ounce/ton)

LEGEND

- contact (observed, approximate or assumed)
- fault (observed, approximate or assumed)
- limit of outcrop
- bedding attitude
- fault attitude
- jointing attitude
- vein attitude
- soil sample

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Lithologies

CAMBRIAN-HADRYNIAN

Hl (1a)
Dark limestones, limy shales and argillaceous limestones (may be in part Lower Cambrian)
ls siderite

lm massive sulphide

Hph 1 (1)
Grey, black and green phyllites, in places graphitic and often interbedded with Hph 2 and Hqu

Hph 2 (1)
Pink, tan, maroon and green phyllitic siltstones and phyllites; often interbedded with Hph 1

Hqu (1)
Grey and buff coloured orthoquartzites, lithic quartzites and calcareous quartzites, in places showing evidence of hydrothermal alteration; gradational to Hgr; often includes interbedded Hphl

Hgr (1)
Grey to buff coloured gritty quartzites and quartz-augen grits composed of bluish to milky quartz-augen in a coarse sandstone matrix

Bx
Quartzite breccia with tourmaline replacement and limonite-hematite matrix

Numbers in brackets refer to units on geological map 11-1568 (95D - Coal River).

Figure 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

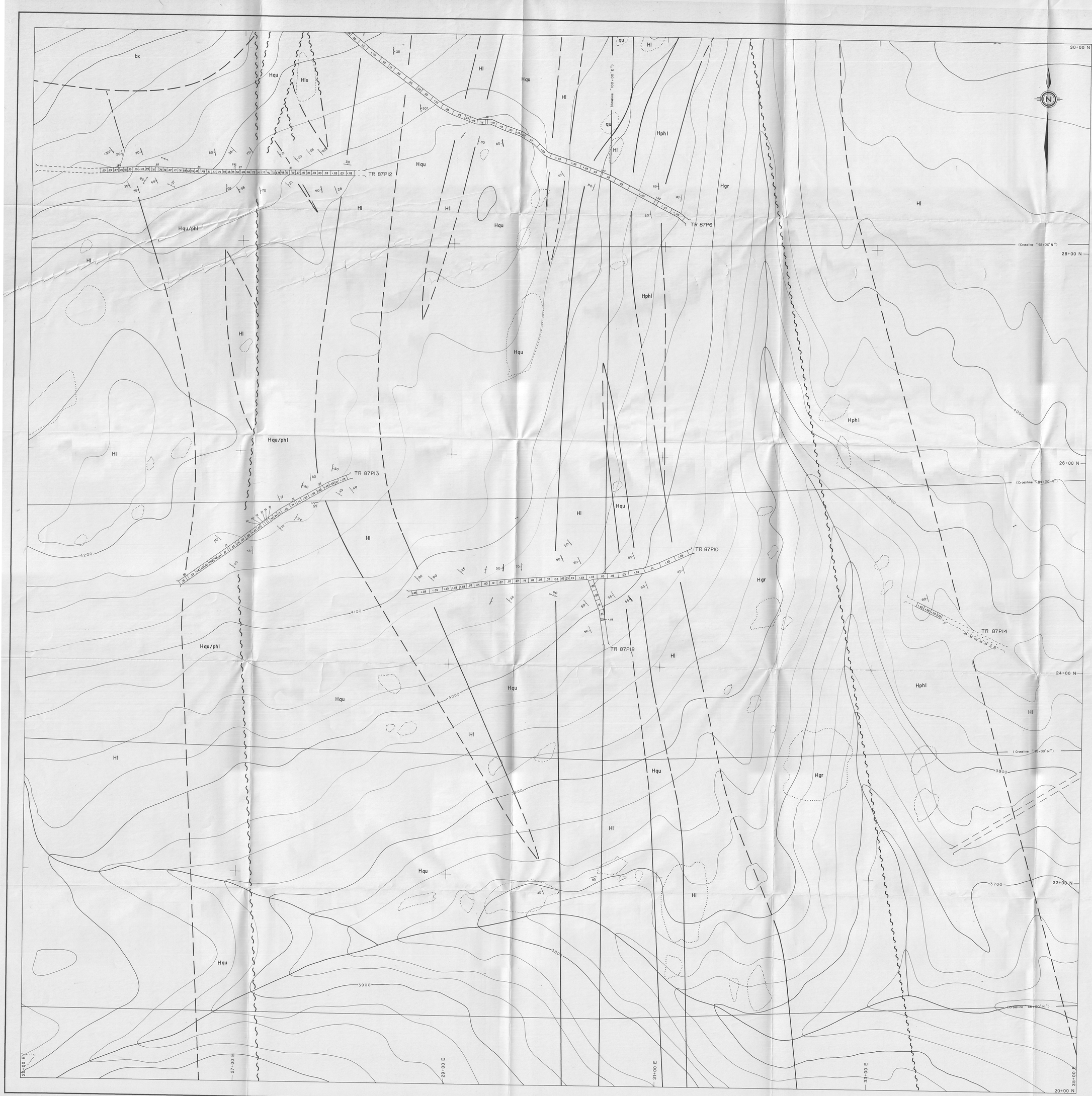
TRENCH ASSAYS & GEOLOGY

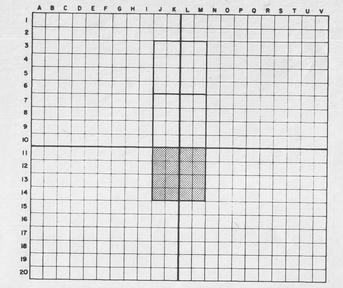
HYLAND GOLD PROPERTY - CENTRAL

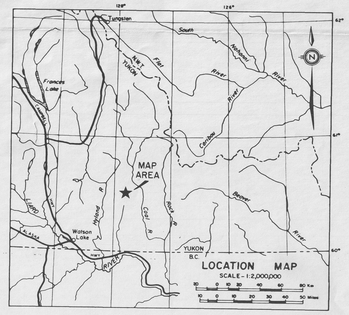
HYLAND GOLD JOINT VENTURE

SCALE - 1:1000
20 10 0 20 30 40 50 60 Metres
20 10 0 10 20 30 40 60 Yards

To accompany report dated December 1987







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Bx
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Numbers in brackets refer to units on geological map 11-1568 (950 - Coal River).

Figure 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH ASSAYS & GEOLOGY

HYLAND GOLD PROPERTY - SOUTH

HYLAND GOLD JOINT VENTURE

SCALE - 1:1000

20 10 0 10 20 30 40 50 60 Metres
20 10 0 10 20 40 60 Yards

To accompany report dated December 1987