

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

**AR 1-61 MINERAL CLAIMS
Whitehorse Mining District
NTS 115 G-5, G 12
UTM 571500E/6820500N**

for

**Auterra Ventures Inc.
501-905 West Pender Street.
Vancouver, BC.
V6C 1L6**

094217

By

M.T. Vanwermeskerken, P.Geo.

January 8, 2001

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This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 6100.00.

M. B. K.

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

SUMMARY

Auterra Ventures Inc. and Cabin Creek Resources Management Inc. conducted a Joint Venture exploration project on the Arch Creek property during the 2000 field season. The property was acquired to test the area for platinum group elements (PGE), similar to known PGE deposits in the area.

Exploration in the area, since the early 1950's, has located deposits such as the Airways showing on the Neighboring ground (up to 41 metres, grading 0.15 % Cu,, 0.29% Ni, 0.41 g/t Pt and 0.45 g/t Pd, including 10.8 metres grading 0.28% Cu, 0.35% Ni, 0.7 g/t Pt and 0.8 g/t Pd in drill holes).

Results reported in 1997 from Inco Ltd.'s Klu property returned values from grab samples up to 3.1% Ni, 10.4 % Cu, 0.19% Co, 75.8 g/t Pt, 20.6 % Pd and 7.0 g/t Au.

The Wellgreen property, owned by Northern Platinum Ltd., has a geological resource of 50.03 million tonnes, grading 0.35% Cu, 0.36% Ni, 0.54 g/t Pt and 0.34 g/t Pd (Yukon Mineral Update 2000). A preliminary feasibility study was finished in 1989 for a proposed open pit mine at 10,000 tonnes per day.

A total of 73 mandays were spent on the claims during the 2000 field program. Work was focussed in the areas of two known mineralized zones; the Teck (historically the Musketeer) showing, and the Conwest showing. Work done consisted of predominantly blast trenching and systematic chip sampling the area of these two showings to evaluate the economic potential of the zones. A total of 2 soil and 57 rock chip samples were collected, returning values up to 0.11 g/t Pt and 0.11 g/t Pd in the Teck showing and up to 2015 ppm Ni, 5448 ppm Cu and 154 ppb Au in the Conwest showing.

The Arch property is located on the same trend as the Wellgreen and Airways zone. This structurally important location and encouraging results from the 2000 program, indicate the potential of high grade PGE zones on the claims.

A follow up program of IP geophysical surveys, blast trenching, reconnaissance drilling with a semi portable drill and further chip sampling has been recommended.

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INTRODUCTION

The Arch Property was staked in September 1999 by Cabin Creek Resources Management Inc. Auterra Ventures Inc. entered into an option agreement with Cabin Creek in October 2000, for the acquisition of a 70% interest in the property, in which Auterra must make cash payments totalling \$185,000 over 5 years, issue 100,000 shares and spend \$250,000 on exploration over 5 years, \$40,000 of which to be spent before March 1, 2001.

The author of this report was commissioned on Behalf of both Auterra and Cabin Creek, for a primary evaluation of PGE mineral potential of the subject property.

The field program has been partially financed by the federal government through a Mining Incentives Program.

LOCATION AND ACCESS

The Arch property is located on the Eastern slopes of the Kluane Range, in Southwestern Yukon, 320 km Northwest of Whitehorse at Latitude 60°27' N and longitude 139°25' W on NTS map 115G/5 and 115G/12 in the Whitehorse Mining Division (figure 1). The centre of the property is at UTM coordinates: 571500E/6820500N.

The property can be accessed by road in 4 hours from Whitehorse, by driving the year round Alaska Highway Northwest, and then turning West at mile post 1118 onto the Quill Creek gravel road past the Wellgreen mine site for 18 km to the Arch Creek camp. A four wheel drive vehicle is recommended for this gravel road.

Alternatively, helicopter charters are available at both Whitehorse and Haines Junction.

PROPERTY DESCRIPTION

The property occupies part of the Southwestern slopes of the main ridge dividing the Donjek River and the Shakwak Trench (Kluane River Valley). Elevations range from 1070 metres at Arch Creek to 2050 metres on the ridge crest. Topography is moderate to steep, with outcrops best developed on North facing slopes, ridge crests and creek cuts. The area in the Arch Creek vicinity is covered by a thick succession of glacio-fluvial gravels up to 40 metres thick. This hampers proper mapping or trenching of the lower (Teck) showing and related peridotite dykes.

Soil development is poor, and vegetation is limited to black spruce and poplar at lower elevations. The higher slopes are overgrown with alder, buckbrush and moss.

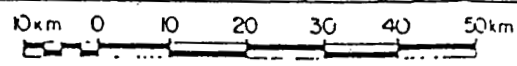
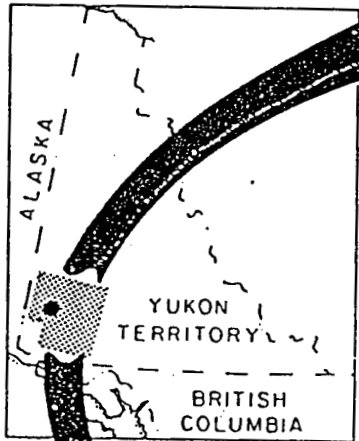
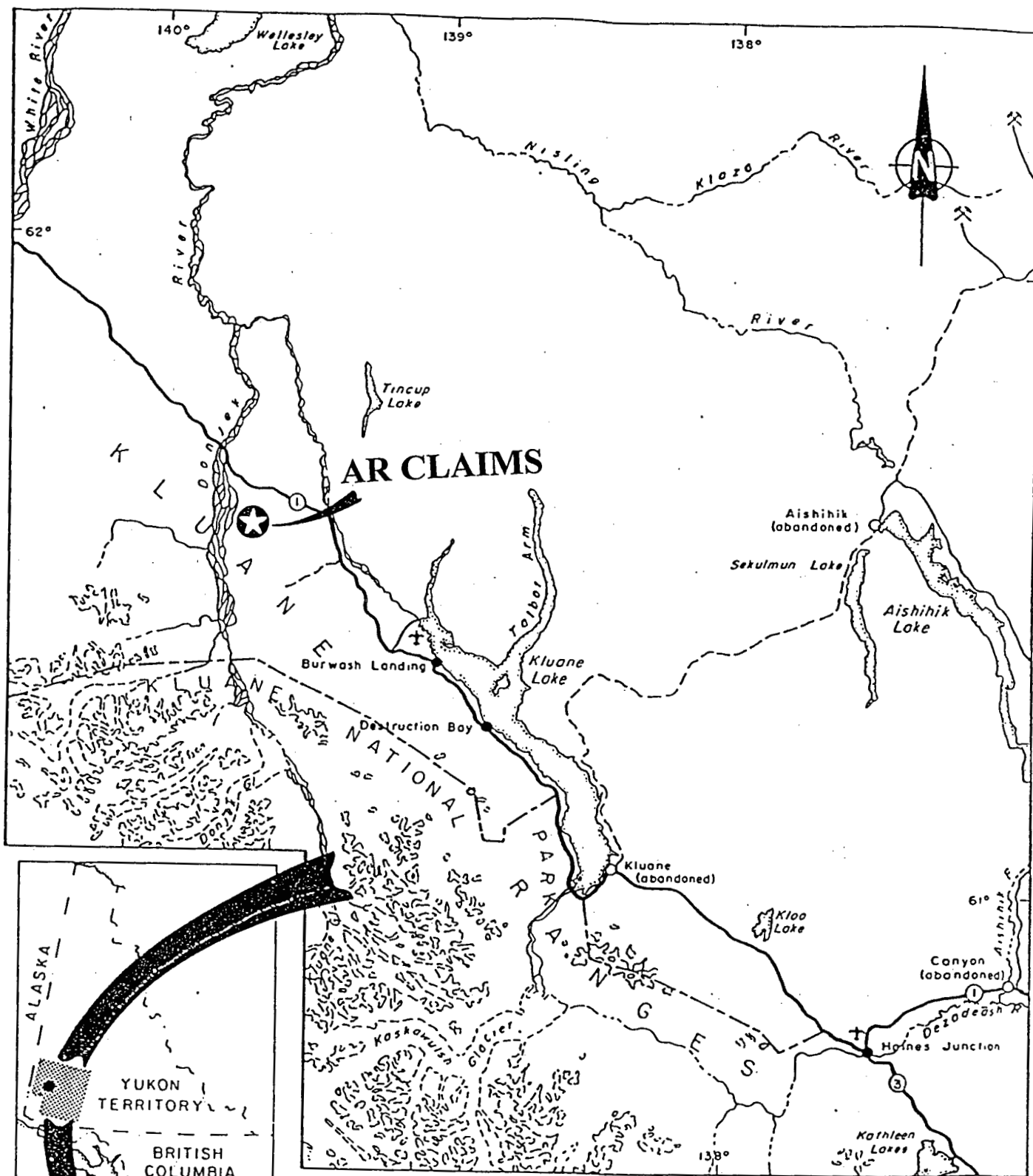


Fig. 1 Location of Arch Creek property

The climate is sub-arctic, with temperatures ranging from 20°C in summer to -70°C in winter. The property is covered with snow between October and June. Road access is limited to the snow-free months only.

Claim Status

The Arch Creek property (fig 2) consists 2 separate blocks, comprising a total of 61 claims (AR 1-61) with the following status:

| Claim name | Grant # | Claim sheet # | Owned by | Expiry date |
|------------|-----------------|---------------|-----------------------------|-------------|
| AR 1-16 | YC18359-YC18374 | 115G05 | Cabin Creek Res. Mgmt. Inc. | 14-02-2001 |
| AR17-58 | YC18375-YC18416 | 115G12 | Cabin Creek Res. Mgmt. Inc. | 14-02-2001 |
| AR59-60 | YC18417-YC18418 | 115G05 | Cabin Creek Res. Mgmt. Inc. | 14-02-2001 |
| AR61 | YC18892 | 115G05 | Cabin Creek Res. Mgmt. Inc. | 20-09-2001 |

Current claim maps are included in the back pouch of this report.

WORK HISTORY

The area of the current Arch Creek property was staked at the time of the discovery of the nearby Wellgreen deposit in 1952, by the Yukon Mining Corporation. This deposit was optioned to Hudson Bay Mining and Smelting Ltd. After extensive drifting and underground drilling the property was transferred to Hudson Bay Mining. From May 1972 to July 1973, 171,652 tonnes of ore were treated, producing 33,853 tonnes of concentrate grading 7.4 % nickel and 6.6% copper.

The area of the Musketeer and Conwest showings were originally staked in 1952 as the Musketeer claims by Teck Exploratin Company Ltd. and the Donjek claims by Conwest Exploration Ltd. Both companies performed mapping and prospecting in 1953. Teck continued exploration in 1955 with magnetic, EM and resistivity surveys.

The area was restaked as the Legacy and Sue claims in 1967-1968 by P. Verslucce and C. Gibbons, who carried out road building and trenching in 1968. This property was explored by the Nickel syndicate (Canadian Superior Exploration Ltd., Aquitane Co. Canada Ltd., Home Oil Ltd. And Getty Mines Ltd.), in 1972 in conjunction with the neighboring Airways showing, conducting mapping, geochemical surveys and trenching.

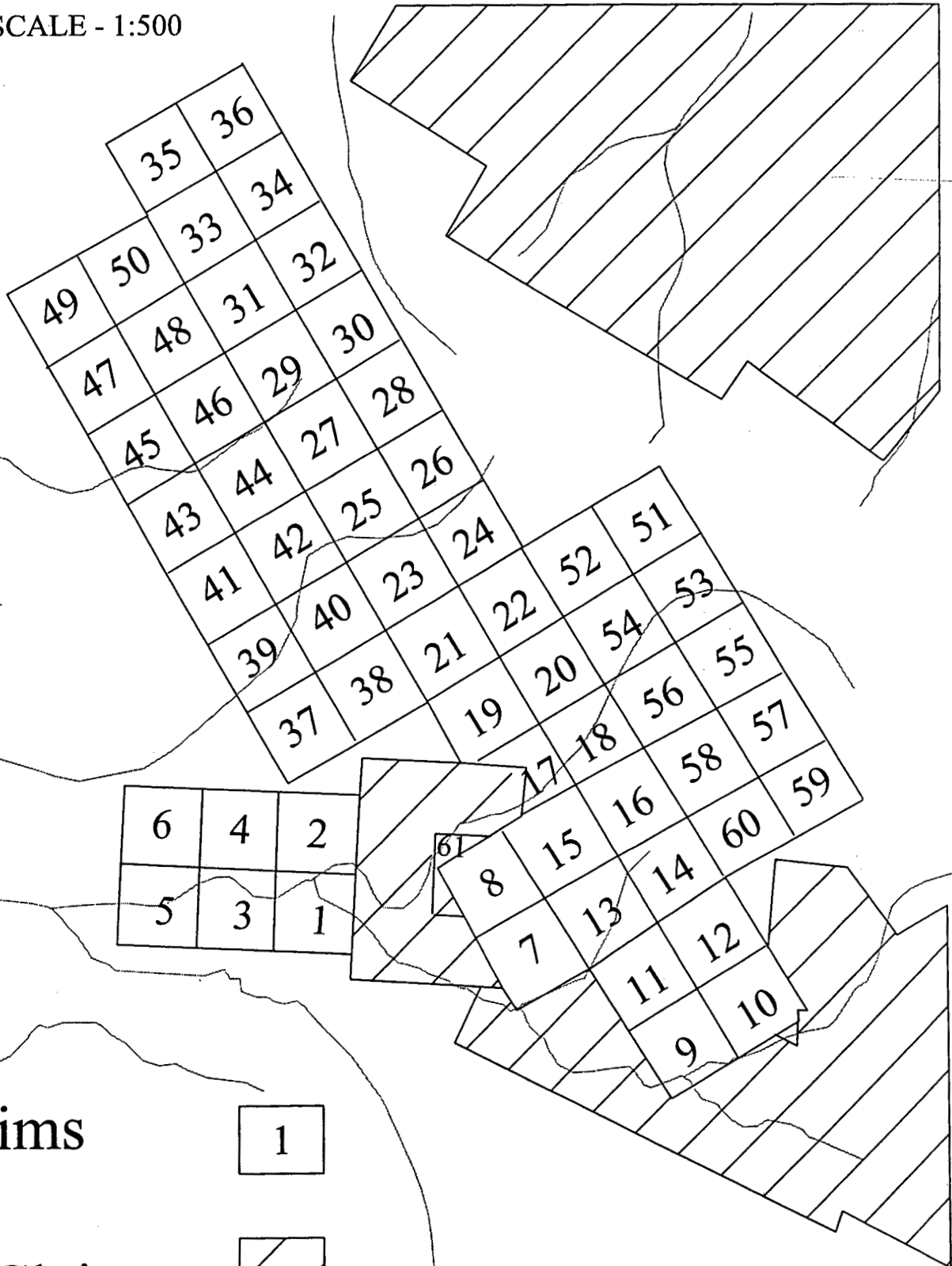
In June 1986, Kluane JV (All North Res. Ltd. And Chevron Minerals Ltd.) restaked the area, carrying out geochemical surveys. The claim block was then expanded towards the North (ORO claims) by E. Parmentier in October 1986, which was sold to Fred Minerals Ltd. In 1987. Other adjoining staking included the 'Missy' and SF claims to the Southwest in June 1987 by Harjay ECL and the 'JEK' claims by Kluane JV. To the West, Silverquest Resources Ltd. And Pak Man Resources Inc. staked more ground in 1987, and performed mapping and geochemical sampling later in the year. Towards the South, S. Ridgeway staked the PC claims in May 1987.

CLAIM MAP

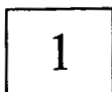
Arch Creek, Yukon Territory

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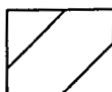
DONJEK RIVER



AR Claims



Staked Claims



In 1987 the Kluane JV claims were optioned by Rockridge Mining Corp and Pak Man Resources Inc., which explored with mapping, geochemical sampling and magnetometer- VLF-EM surveys later that year. The PC claims were transferred to Gold City Resources Inc. in June 1988 and a 50% interest in the Oro claims was transferred to A-X Minerals in October 1988. Harjay explored the SF and Missy claims with magnetic and soil geochemical surveys in June 1988 and June 1989. The claim area did not see any further work until the claims were allowed to lapse and got re-staked as the AR 1-61 claims by Cabin Creek Resources Management Inc.

REGIONAL GEOLOGY

The claim area is located near the eastern margin of the Wrangellia accreted Terrane (Fig 3b), which runs along the Western coastal areas from Alaska to Southern Vancouver Island, BC. Rocks are comprised of Permian to Triassic volcanic and volcanoclastic rocks, intruded by Triassic diabase and gabbro dykes, presumed to be feeder dykes to the Nikolai Basalts. The stratigraphy of the region is summarized by W.D. Eaton (1988) as follows:

Oldest exposed bedrock is Pennsylvanian to Permian Skolai Group andesitic volcanic and Volcanoclastic rocks (Station Creek Formation), grading upward to clastic sedimentary rocks and limestone (Hasen Creek Fm.). These rocks are unconformably overlain by Upper Triassic Nikolai Group basalt and Limestone, with infrequent gypsum horizons.

Two types of mafic and Ultramafic intrusions are present:

1) The White River, Quill Creek and Tatamagouche Creek Ultramafic complexes are differentiated Lower Triassic sills which intrude Station Creek and Hasen Creek Fm. sedimentary and volcanoclastic rocks. They typically consist of strongly serpentized dunite, peridotite and lesser marginal facies of gabbro and/or clinopyroxinite. These complexes are folded and dismembered by faults, reaching maximum thicknesses of approximately 250 metres and up to 25 km strike length. Mineral constituents in this ultramafic complex are olivine, clinopyroxene, orthopyroxene, biotite, plagioclase and amphibole, with minor magnetite and sulphides. The gabbro phases consist of clinopyroxene and plagioclase with minor olivine and amphibole and trace amounts of magnetite and sulphides. Cumulate textures are common in the dunite and peridotite, while gabbro and clinopyroxinite phases are generally compact and massive. Most Ni-Cu-PGE occurrences in the Kluane Belt are spatially associated with the marginal facies of the intrusions. Chemically, the mafic-ultramafic sills have high TiO₂:MgO ratios, low Fe/Mg ratios and anomalously high MgO, Ni, Cr and PGE backgrounds.

2) Dykes and small stocks of medium grained diabasic Maple Creek Gabbro occur throughout the Station Creek Formation, Hasen Creek Fm. and the Nikolai group. These consist of augite and plagioclase with minor orthopyroxene, hornblende and magnetite. Field evidence supports an Upper Triassic age for the gabbros as remnants of feeder systems for the Nikolai Group basaltic flows. No known nickel or PGE mineralization is associated with the younger gabbros, but they do host numerous small copper occurrences.

LEGEND

COVER ROCKS

Tertiary

Tvs nonmarine volcanics and sediments (mostly Wrangell Lava).

Cretaceous

Ks shallow marine sediments.

Upper Jurassic-Lower Cretaceous

JKs flysch, local volcanics (Gravina-Nutzotin).

JKm metasediments ("Kluane schist", and older rocks).

TERRANES

YA YAKUTAT (local Prince William).

CG CHUGACH.

W1,W2 WRANGELLIA (W1, W2).

W3,TU WRANGELLIA (W3), TAKU.

W1? WRANGELLIA (W1)?

WM WINDY-MCKINLEY.

NS NISLING (local undivided rocks).

AX ALEXANDER.

PLUTONIC ROCKS

Tertiary

Mg Wrangell suite (6-16 Ma): subvolcanics and granitoids.

Og Tkope suite & others (23-33 Ma): granitoids and subvolcanics.

Eg Seward suite (41-52 Ma).

Cretaceous-Tertiary

KTg Coast Plutonic Complex (undivided).

KTb gabbro-dabase plutons.

Late Early Cretaceous

Kg Kluane Ranges suite (106-121 Ma), & Alaskan-type mafic-ultramafics.

Late Jurassic-earliest Cretaceous.

JKg Saint Elias suite (130-160 Ma).

Late Pennsylvanian-Early Permian

PPg Icefield Ranges suite (270-290 Ma).

MAJOR FAULTS

| | | |
|----------|---|---------------------------------|
| T.F.S. | - | Transition Fault System. |
| C.F.S. | - | Contact Fault System. |
| C.S.F.S. | - | Chugach-St. Elias fault system. |
| F.F. | - | Fairweather Fault. |
| B.R.F.S. | - | Border Ranges Fault System. |
| C.F. | - | Chitina Fault. |
| H.F. | - | Hubbard Fault. |
| D.R.F. | - | Duke River Fault. |
| T.F. | - | Totschunda Fault. |
| D.F.S. | - | Denali Fault System. |
| C.S.F. | - | Chatham Strait Fault. |

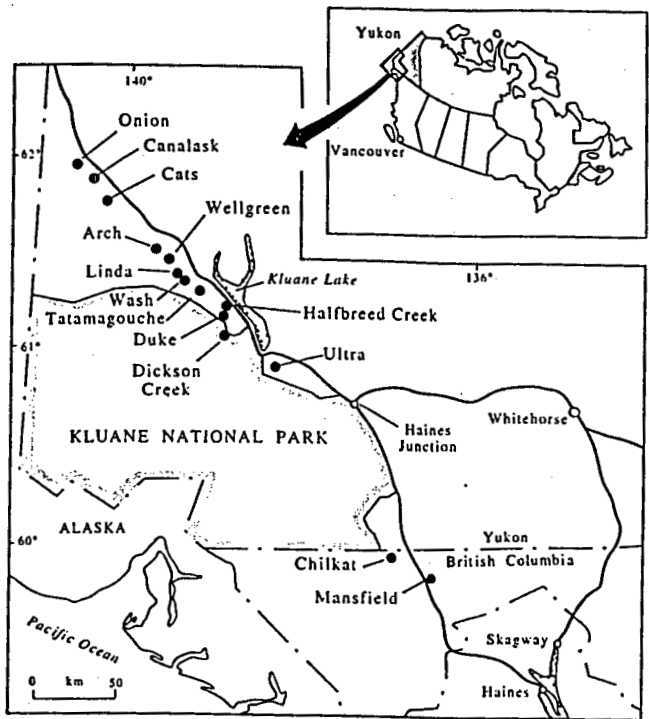


Figure 3b Map showing the location of some of the better known mafic-ultramafic intrusive complexes in the Yukon and northern British Columbia.

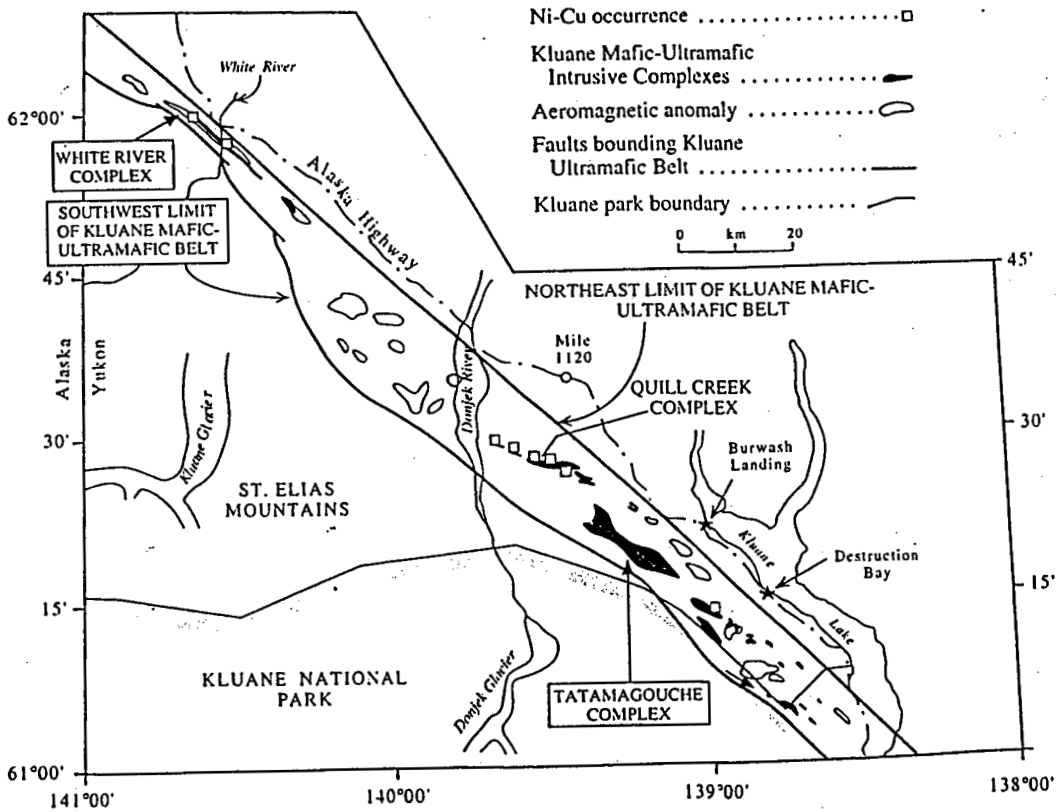


Figure 3c Map showing the distribution and size of known Triassic intrusions, and the outlines of similar bodies inferred from aeromagnetic anomalies, within the Kluane Mafic-Ultramafic Belt in the central and northern portion of the Kluane Ranges, Yukon.

All abovementioned units are locally intruded by Cretaceous granodiorite plutons and oligocene porphyritic latite to trachyte dykes and small stocks.

The Denali Fault forms the Eastern margin of the Wrangellia terrane. The Eastern part of this terrane, with the Station Creek- Hasen Creek formations and Nikolai group basalts, and related intrusions, has been identified as a Ni-Cu-PGE Metallogenic Terrane which can be traced for more than 600 kilometres, and is referred to as the Kluane Mafic-Ultramafic Belt.

The Kluane Ni-Cu-PGE belt is bounded on the Northeast by the Shakwak Fault, a major terrane boundary with latest movement in a right lateral sense. The Southeast boundary of the terrane is formed by the sinusoidal trace of a series of interconnected faults, which roughly parallels the Shakwak fault. All known ultramafic bodies in the Kluane Range lie within this 10 – 17 km wide belt. See fig 3a,b.

ECONOMIC MINERALIZATION/ DEPOSIT MODEL

Mineral deposits of economic interest in the area, are mostly Ni-Cu-PGE prospects and mines, located within the above mentioned Kluane Ni-Cu-PGE belt, both Northwest and Southeast of the Arch Creek claims.

On a North American scale, this (Ni-Cu-PGE) belt is second only, in size, to the nickeliferous Circum Superior Belt (CSB) of Canada, and has many similar features with respect to lithological zonation, silicate mineralogy, distribution of ores and Ni-Cu-PGE grades. The Kluane Belt intrusive complexes are clearly younger in age, tholeiitic in origin and generally much larger than deposits found in the Circum Superior Belt.

Mining of the Wellgreen deposit has demonstrated that basal accumulations of massive sulphides are generally up to 60 metres in length, less than 20 metres in thickness, and have average mill feed grades as follows: 2.23% Ni, 1.39% Cu, 1300 ppb Pt, 920 ppb Pd, 171 ppb Au, 400 ppb Rh, 420 ppb Ru, 250 ppb Ir, 200 ppb Os and 200 ppb Re.

These zoned bodies are sills, lens-like in form and are believed to represent subvolcanic magma chambers that fed overlying Triassic Nikolai Basalts. On a regional scale, these bodies preferentially intrude the Pennsylvanian to Permian country rock sequence at or near the contact between the Station Creek and Hasen Creek Formations. This level marks an important lithostratigraphic break from the from predominantly volcanic and volcanoclastic rocks, argillite, chert and carbonate strata. Field relationships, geochemical and isotopic studies also suggest that the volatile, sulphur and barium-rich Permian strata acted as an important source of magma contamination that initiated sulphide immiscibility with successive incursions of olivine charged magma.

The best mineralization appears to be concentrated as a result of riffling of sulphide bearing magmas flowing over irregularities at the base of the intrusion. Other styles of mineralization such as the Ni-rich "offset" occur well within the footwall strata of the White River Complex, skarn

ores juxtaposed the Permian Carbonates at the Quill Creek complex, disseminated sulphides within or above the gabbro-ultramafic zone contact in most intrusions and PGE +/- Au rich zones associated with hydrothermal (metasomatic) quartz-carbonate alteration that envelope the extremities of many intrusions, are also important reserves. The ultramafic zones of the Kluane intrusions should be re-examined for it is only now appreciated that sizeable Ni-Cu-PGE massive sulphide concentrations can be contained within this belt. (L.Hulbert and Carne, 1996)

Results from other similar targets in the immediate vicinity include those of the Klu property, the Wellgreen property and the Airways deposit, adjacent to the Arch Creek property.

Results reported in 1997 from Inco Ltd.'s Klu property returned values from grab samples up to 3.1% Ni, 10.4 % Cu, 0.19% Co, 75.8 g/t Pt, 20.6 % Pd and 7.0 g/t Au (Yukon Expl. And Geol. 1999)

The Wellgreen property, owned by Northern Platinum Ltd., has a geological resource of 50.03 million tonnes, grading 0.35% Cu, 0.36% Ni, 0.54 g/t Pt and 0.34 g/t Pd (Yukon Mineral Update 2000). A preliminary feasibility study was finished in 1989 for a proposed open pit mine at 10,000 tonnes per day.

Drilling on the adjacent Airways property in 1988 by Pak-Man Resources, intersected disseminated sulphides. They got returns of 41 metres, grading 0.15 % Cu,, 0.29% Ni, 0.41 g/t Pt and 0.45 g/t Pd, including 10.8 metres grading 0.28% Cu, 0.35% Ni, 0.7 g/t Pt and 0.8 g/t Pd. A Gabbroic chilled margin to a peridotite sill, containing disseminated sulphides, returned 0.75% Cu, 1.44% Ni, 0.65 g/t Pt and 1.6 g/t Pd over 2.6 metres (Yukon Expl. 1988).

2000 WORK PROGRAM

Exploration carried out by Auterra, consisted of a brief program of sampling, road rehabilitation, blast trenching and additional staking. A crew of two to four men spent a total of 73 mandays on the claims. Sampling and mapping was focused in the areas of the Conwest and Teck showings. A total of 2 soil and 57 rock chip samples were collected during the program. Contiguous chip sampling was performed in three perpendicular directions across a peridotite dyke (sill?), to test for possible PGE rich Merenski Reef-type cumulate layers within the fine grained peridotite intrusion (see fig 6b). A total of 18 metres of blast trenching was done to expose bedrock directly North of the Teck showing, delineating the Southern contact of the peridotite intrusion. Contiguous chip samples were taken on two metre intervals. An additional 25 metres of trenching, contiguous with the first, failed to expose bedrock.

All samples were sent to Northern Analytical Laboratories in Whitehorse to be assayed for a 30 element package including Au, Pt, Pd, Rh, Cu and Ni. Samples from the original sampling program were assayed by standard ICP geochemical procedures. Samples from the trenching program were also assayed by standard ICP geochemical methods, except Pt, Pd and Au, which were fire assayed with atomic absorption spectrophotometry.

PROPERTY GEOLOGY

The claims are underlain by a Northwesterly trending sequence of Pennsylvanian to Upper Triassic sedimentary and intermediate volcanic rocks (Fig 4). The upper slopes are almost exclusively intermediate to mafic volcanic flows and volcanoclastics. Sedimentary layers were only observed at lower elevations near Arch Creek. These sedimentary rocks consist of argillite and siltstone, with minor fine grained quartzite. Eaton (1988) states that:

The main sill dips steeply to moderately Southwest and appears to have intruded a conformable contact between the Station Creek and Hason Creek Formations. On the Neighboring [Airways and] Wellgreen property, the ultramafic sills usually exhibit steep North or South dips and appear to be sub-vertical bodies with occasional rolls or gentle folds. Stratigraphic evidence suggests that the Southwest dip on the Arch property represents a right side up sequence with enclosing strata becoming younger in a downhill direction. The host rocks in the footwall of the sill are Hason Creek Formation siliceous sedimentary rocks, which include argillite, mudstone and quartzite. The argillite displays alternating grey and black layers of variable thickness, while the mudstone is finely layered with a light green-brown colour on fresh broken surfaces. Quartzite tends to be dark green to light brown and is often tuffaceous. Station Creek Fm rocks comprise the hangingwall of the main sill and consist of andesite and agglomerate. The andesite varies from light to dark green and is composed of a chloritized matrix with chlorite pseudomorphs after hornblende. The agglomerate is also green and is made up of subangular to subrounded chert fragments in a laminated volcanic matrix.

The Station Creek and Hason Creek rocks have been intruded by a series of fairly conformable mafic and ultramafic sills. These sills form the western end of the 16 km. Long Quill Creek Ultramafic complex. These sills appear to trend East-West along the Southern part of the claim group. An East-West trending Conductor/EM anomaly indicated by geophysical surveys by Teck Explorations, Pak Man Resources and Kluane JV verify this trend.

Magnetometer and EM geophysical surveys, performed by Teck Exploration has been used to delineate the extent of the ultramafic sills, which are mostly buried under dozens of metres of glacio-fluvial gravels. The magnetic anomaly has been used to define the extent of this sill, although this should be interpreted only as a generalization, as rare outcrop areas within the magnetic anomaly are often intermediate to basic volcanics.

The sills are predominantly composed of strong magnetic, dark greenish black, medium to fine grained locally serpentinized, feldspathic peridotite. These rocks weather dark green, greasy (serpentinite) with limonite and calcite. Slickensides are common on weathered and fracture surfaces.

Olivine-gabbro occurs as a chilled phase of these sills, and has been observed only at the Conwest showing. The gabbro is very limonitic when weathered, and is mineralized with disseminated and interstitial pyrite, chalcopyrite, pyrrhotite and pentlandite.

The main peridotite sill is situated in the Southwesterly limb of a Northwesterly trending anticline, indicating that the footwall of the sill is the yet unexposed Northeasterly contact.

ARCH CREEK PROPERTY MAP

(Modified from Woodcock, 1953)

LEGEND

QUATERNARY:

- 1 gravel and overburden

PERMIAN:

- 2 Volcanics - coarse pyroclastics, andesites
- 3 Sediments - black thinly-bedded limestone, quartzite, greywacke, conglomerate black slate, chert
- 4 Massive Limestone

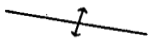
INTRUSIVES:

- 5 Peridotite
- 6 Gabbro
- 7 Acidic & Intermediate Rocks - rhyolite, quartz-monzonite

FAULT



AXIS OF PROBABLE ANTICLINE



CHIP SAMPLE

Assay (Pt-ppb, Pd-ppb, Ni-ppm, Cu-ppm, Au-ppb)

SOIL SAMPLE

Assay (Pt-ppb, Pd-ppb, Ni-ppm, Cu-ppm, Au-ppb)

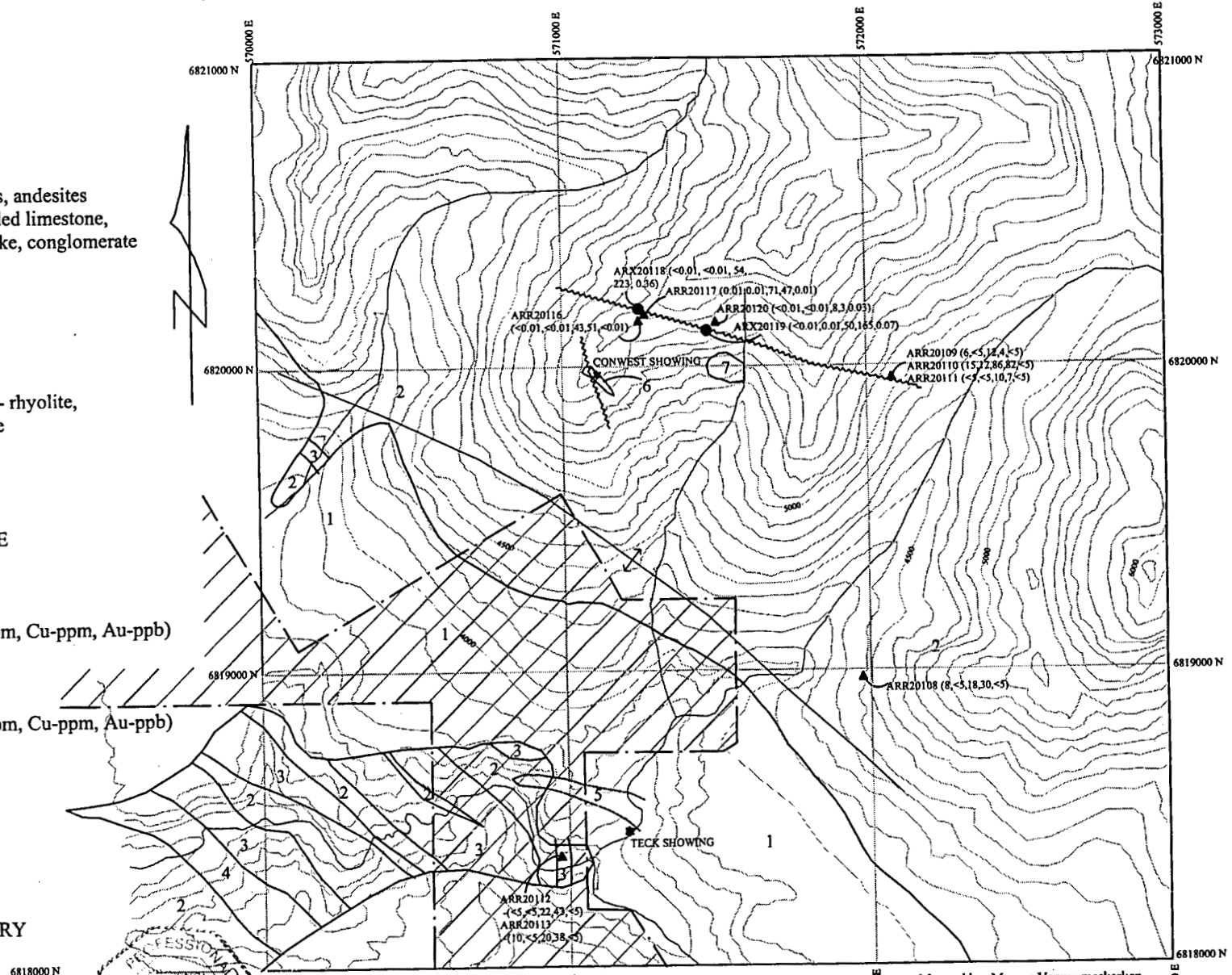
MINERALIZED ZONES



PROPERTY BOUNDARY



OUTSIDE PROPERTY BOUNDARY



6818000 N

570000 E

571000 E

572000 E

573000 E

6818000 N

6819000 N

6819000 N

6819000 N

6820000 N

6820000 N

6820000 N

6821000 N

6821000 N



Marcus Vanwermeskerken
 SCALE 1:20,000

Mapped by: Marcus Vanwermeskerken
 Digitized by: Renee Brickner
 January 3, 2000

FIGURE 4

Geophysical surveys (Mag-EM) by Pak-Man Resources and Kluane JV in 1981 over the area of the current AR claims, as well as part of the adjacent Airways property, indicated a Northwesterly trending magnetic anomaly more than 2 kilometres in length and up to 500 metres wide. This trend includes one of the Airways drill targets as well as the known peridotite exposures on the AR claims and the Musketeer showing. Numerous parallel VLF conductors are located within and to the North of this magnetic anomaly. Two VLF conductors, each approximately 500 metres by 50 metres straddle the magnetic anomaly over the area of the Musketeer (Teck) showing. This 1981 survey did not include the area of the Conwest showing.

A significant East-West trending lineament, occurs high up above and Northeast of the Conwest showing. This lineament is associated with intense fracturing, carbonate alteration zones, quartz-calcite stringer stockwork zones, minor gouge zones, orange soil gossans and minor pyrite mineralization.

A series of subvertical faults trend northwesterly across the property, and cut all units. Although the Conwest showing is situated along the Northeastern side of one of these faults, these faults are still believed to be post Ni-Cu-PGE mineralization. Some of these are reported to host minor copper mineralization. These faults typically result in linear gullies, with carbonate alteration zones and minor calcite +/- quartz stringer zones.

All units have locally been overlain with pleistocene glacio-fluvial gravels ranging in thickness to 40 metres or more in the vicinity of Arch Creek.

MINERALIZATION AND ALTERATION

Observed mineralization on the property consists two types:

- 1) Disseminated pyrite / pyrrhotite
Mineralization of this type occurs in isolated areas of carbonate alteration, usually in the vicinity of fault zones. Pyrite and/ or pyrrhotite in these zones range to 3% as disseminations, interstitially, or as small 'blebs' up to 5 mm. These zones commonly result as weak gossans in soil or weathered outcrop areas.
- 2) Disseminated Py/Po/Cpy +/- pentlandite
Mineralization of this type is common in the ultramafic intrusions. Disseminated and interstitial sulphides (up to 3% pyrite, 2% chalcopyrite, 2% pyrrhotite and minor pentlandite) have been noted throughout the pyroxenite intrusion and within the gabbro of the Conwest showing. The Conwest showing mineralization is associated with several quartz/calcite veins up to 30 cm wide and stockwork veins. Mineralization in these intrusions does not appear to extend outside into the host rocks.

Significant alteration on the claims consists of serpentinization of the ultramafic intrusions, and carbonate alteration zones near faults. Weak chloritic (and propylitic) alteration is prevalent throughout much of the andesitic volcanics.

Teck showing

The Teck showing (Fig. 5, 6a) consists of a small exposure of a 1 metre wide fault zone, trending approximately 140/71 NE mineralized with pyrite. This fault is located within a felsic to intermediate feldspathic porphyry, a few metres South of a peridotite sill. The rocks on each side of the fault are variably calcareous, with calcite stringers +/- ankerite. The fault zone itself contains no carbonates, and is mineralized with (quartz-) pyrite 'balls' up to 5 cm, consisting of approximately 70% pyrite and 30% quartz. These 'balls' are typically leached, resulting in brittle, porous grey pods. Oxide minerals include limonite, jarosite and melanterite (?).

Trenching by Auterra has exposed the hangingwall porphyry of this fault, as well as the Southern contact of the Peridotite sill. The peridotite is shattered, with many calcite stringers, locally serpentinized, and variably mineralized with fine disseminated pyrite, magnetite and pyrrhotite. These rocks are highly magnetic. The peridotite unit can now be traced for more than 120 metres towards the North, where it continues under overburden. A strong carbonate alteration zone, more than 15 metres in extent, is located 15 metres Northeast of the fault.

Conwest Showing

The area of the Conwest showing (Fig. 7) consists of 90 metres of oxidized, medium grained Gabbro, immediately East, and subparallel to a fault trending approximately 160 degrees. This gabbroic intrusion occurs as two separate bodies 15 metres wide or more. The fault is not exposed at the gabbro intrusion, so the structural relationship between the intrusion and the fault is unknown at this time. The intrusion trends Southeast under overburden.

The gabbro is flanked by parallel quartz +/- calcite stringer stockwork zones within the andesitic to basaltic host rocks. Both the gabbro, and the stockwork zones are mineralized with up to 3% cpy, 3% py, trace of chalcocite (?) and stained with malachite and limonite. Massive pyrite 'blebs', up to 2 cm in size, have been noted locally within the gabbro.

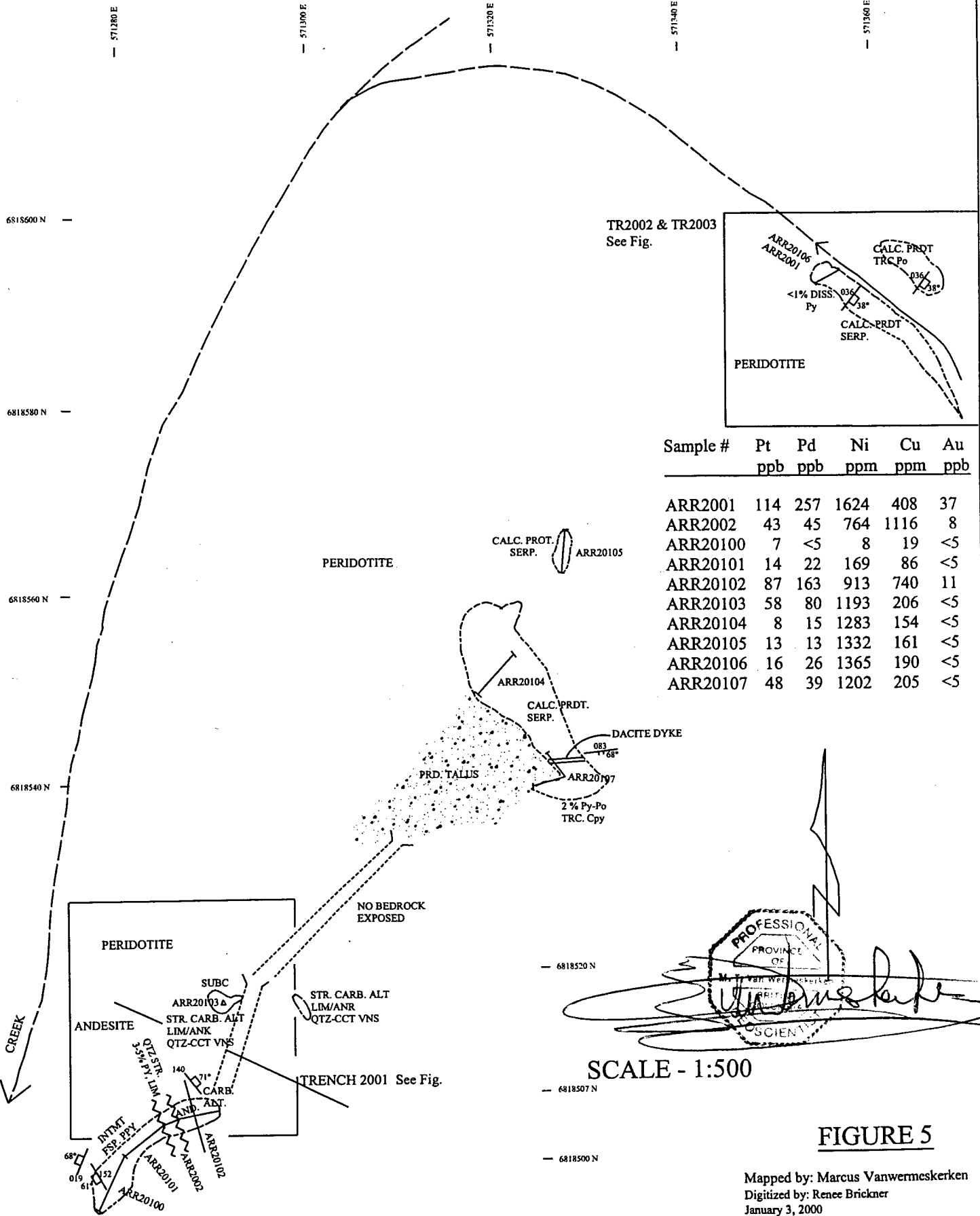
GEOCHEMISTRY

Geochemical results from the program did not return economic levels, but they do indicate the potential of encountering high grade Ni-Cu-PGE mineralization like that at the neighboring Airways and Wellgreen properties.

Results for the accessory elements besides Pt, Pd, Cu, Ni and Au were generally inconclusive. Therefore the above mentioned 5 elements only will be discussed below:

As sampling was focussed on the Conwest and Teck showing areas, most significant geochemical results were returned for those showings. Property wide reconnaissance sampling, including the prominent lineament Northeast of the Conwest showing did not return significant results.

TECK SHOWING AND PERIDOTITE SILL AREA













| Sample # | Pt ppb | Pd ppb | Ni ppm | Cu ppm | Au ppb |
|----------|-----------|-----------|-----------|-----------|-----------|
| ARR2001 | 114 | 257 | 1624 | 408 | 37 |
| ARR2002 | 43 | 45 | 764 | 1116 | 8 |
| ARR20100 | 7 | <5 | 8 | 19 | <5 |
| ARR20101 | 14 | 22 | 169 | 86 | <5 |
| ARR20102 | 87 | 163 | 913 | 740 | 11 |
| ARR20103 | 58 | 80 | 1193 | 206 | <5 |
| ARR20104 | 8 | 15 | 1283 | 154 | <5 |
| ARR20105 | 13 | 13 | 1332 | 161 | <5 |
| ARR20106 | 16 | 26 | 1365 | 190 | <5 |
| ARR20107 | 48 | 39 | 1202 | 205 | <5 |

FIGURE 5

Mapped by: Marcus Vanwermskerken
 Digitized by: Renee Brickner
 January 3, 2000

TRENCH MAPS & GEOCHEMISTRY (Pt, Pd, Ni, Cu, Au)

-  Limit of Bedrock
-  -127 Chip Sample with Assay (g/t Pt, g/t Pd, ppm Ni, ppm Cu, g/t Au)
Prefix ARR20 on all Samples
*Pt, Pd, Au in ppb
-  Overburden
-  Fault
-  Breccia
-  Stockwork Zone
-  Vein Attitude
-  Joint Attitude
-  Foliation Attitude
-  Contact

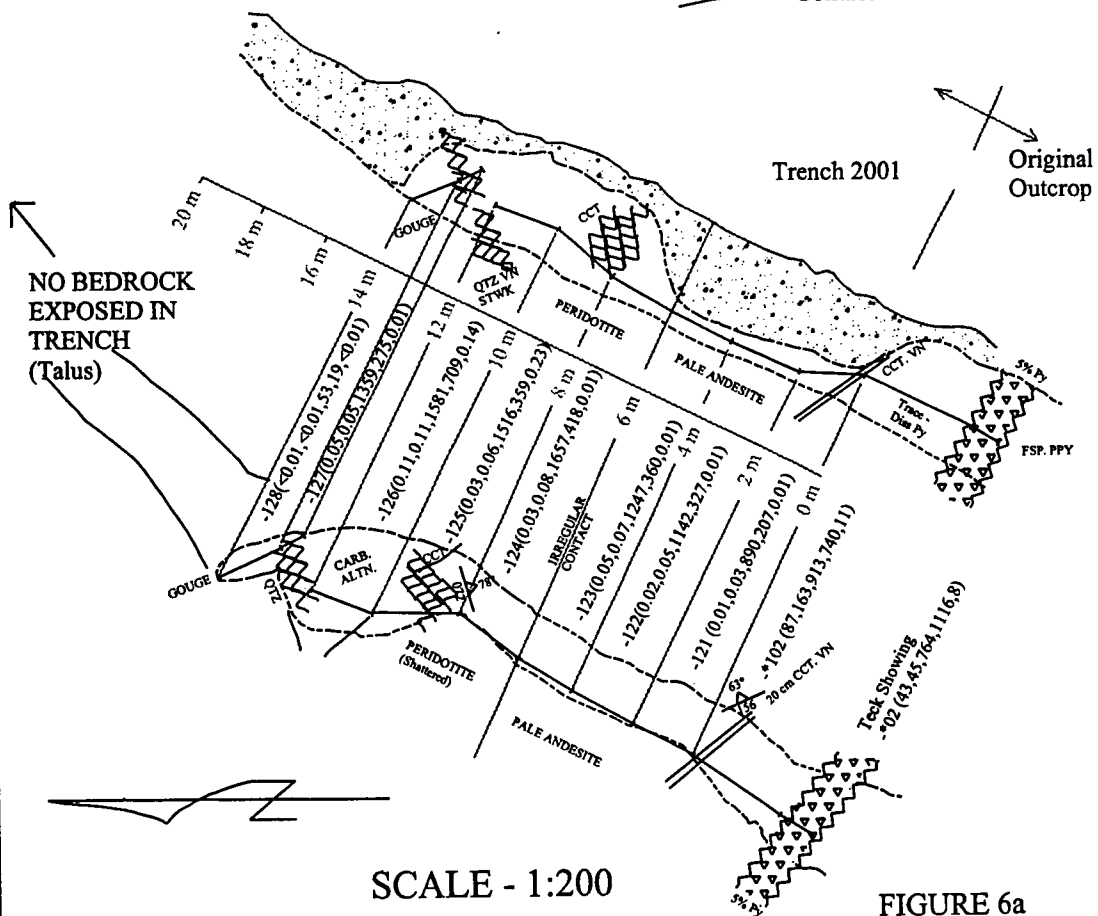


FIGURE 6a

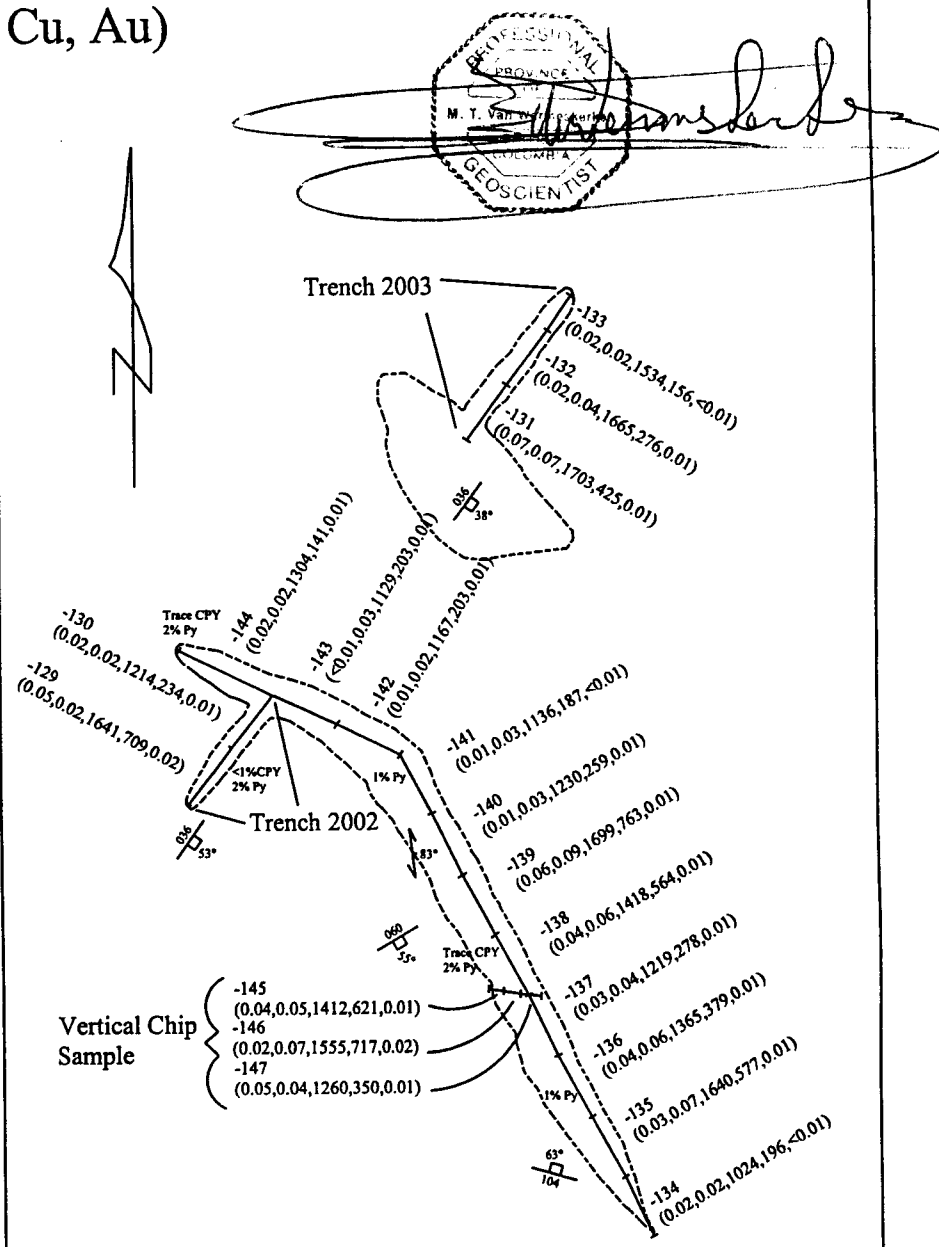
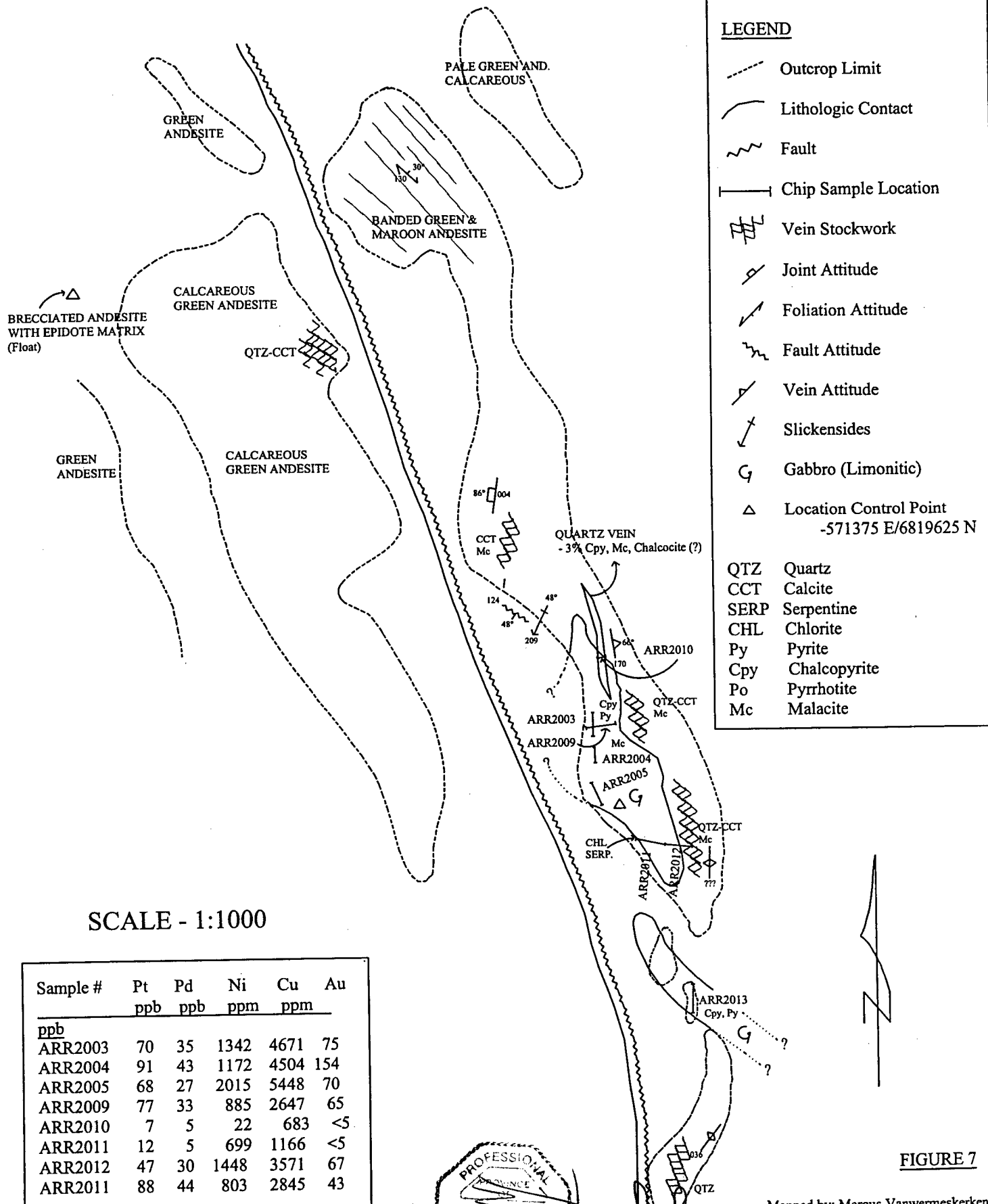


FIGURE 6b

Mapped by: Marcus Vanwermeskerken
Digitized by: Renee Brickner
January 3, 2000

CONWEST SHOWING



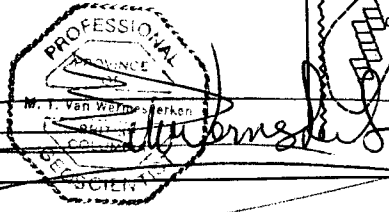
LEGEND

- Outcrop Limit
- Lithologic Contact
- Fault
- Chip Sample Location
- Vein Stockwork
- Joint Attitude
- Foliation Attitude
- Fault Attitude
- Vein Attitude
- Slickensides
- Gabbro (Limonitic)
- Location Control Point
-571375 E/6819625 N

QTZ Quartz
 CCT Calcite
 SERP Serpentine
 CHL Chlorite
 Py Pyrite
 Cpy Chalcopyrite
 Po Pyrrhotite
 Mc Malacite

SCALE - 1:1000

| Sample # | Pt ppb | Pd ppb | Ni ppm | Cu ppm | Au ppm |
|----------|-----------|-----------|-----------|-----------|-----------|
| ppb | | | | | |
| ARR2003 | 70 | 35 | 1342 | 4671 | 75 |
| ARR2004 | 91 | 43 | 1172 | 4504 | 154 |
| ARR2005 | 68 | 27 | 2015 | 5448 | 70 |
| ARR2009 | 77 | 33 | 885 | 2647 | 65 |
| ARR2010 | 7 | 5 | 22 | 683 | <5 |
| ARR2011 | 12 | 5 | 699 | 1166 | <5 |
| ARR2012 | 47 | 30 | 1448 | 3571 | 67 |
| ARR2011 | 88 | 44 | 803 | 2845 | 43 |



Mapped by: Marcus Vanwermeskerken
 Digitized by: Renee Brickner
 January 3, 2000

FIGURE 7

A generally strong correlation exists between the Pt, Pd, Ni and Cu assays, with a moderate correlation between Au and the above mentioned elements. Significant results for the Teck and Conwest showings are as follows:

Teck showing

Sampling at the Teck showing (Fig 4 a,b) returned anomalous Pt-Pd-Cu and Ni values, but generally low Au values. The best assay came from a 2.0 metre chip sample (#AR20126) in TR2001 (0.11 g/t Pt, 0.11 g/t Pd, 1581 ppm Ni, 709 ppm Cu and 0.14g/t Au). This sample was collected from a carbonate altered section of intermediate to mafic rock (peridotite?). Assays in the remainder of the peridotite sill were lower, except 1699 ppm Ni and 763 ppm Cu in sample AR20139 (over 2.0 metres). Sample #AR2001 returned 114 ppb Pt, 257 ppb Pd, 1624 ppm Ni, 408 ppm Cu and 37 ppb Au over 5.0 metres. This sample was collected from an area of disseminated py, po, cpy and pentlandite (?) within the peridotite sill.

It appears that grades within the peridotite increase in areas of carbonate alteration and disseminated/ interstitial sulphides, and grades decrease in areas of stockwork quartz veining.

Conwest showing

Assays from the Gabbro at this showing (Fig. 5) returned highly anomalous Ni and Cu values, with moderately anomalous Au, Pt and Pd. Assays ranged to 5448 ppm Cu and 2015 ppm Ni over 5.0 metres (AR2005), 91 ppb Pt and 154 ppb Au over 3.0 metres (AR2004) and 44 ppb Pd over 6.5 metres (AR2013). Anomalous results are associated with the interstitial and disseminated py-cpy +/- pentlandite mineralization within the gabbro unit. Neither quartz-calcite vein stockwork zones, nor a mineralized quartz vein with abundant malachite staining returned significant assays.

DISCUSSION OF RESULTS

Geochemical results from sampling in the two known mineralized zones on the claims returned sub economic results. However levels of Pt, Pd, Cu, Ni and Au were encouraging for locating a potential high grade PGE zone. The peridotite in the area of the Teck showing has only been exposed towards the Southern contact. This sill is situated on the Southern limb of a mapped (Woodcock, 1953) anticline, indicating that the Northern contact is the footwall contact. This footwall contact is the target horizon for the high grade mineralization.

Furthermore, the geophysical surveys (ArcherCathro,1981) indicated distinct VLF conductors straddling the Teck (Musketeer) showing. One of these conductors, 300 metres in strikelength and up to 70 metres wide, is located near the Northern (Footwall) contact of the peridotite sill in this area. This will make a good exploration target for the following program. No obvious geochemical zonation has been detected through sampling in all 3 dimensions across the peridotite.

The Conwest showing Gabbro unit, although not spatially related to any notable peridotite, contains significant mineralization. This sill is truncated by a fault towards the West, and trends under overburden towards the Southeast. A strong East-Southeasterly trending magnetic anomaly

indicates a possible peridotite under overburden. This potential peridotite sill could be related with other buried marginal gabbros with or without high grade PGE horizons, and will make another exploration target.

CONCLUSIONS AND RECOMMENDATIONS

Auterra Ventures and Cabin Creek Resources Management conducted a Joint Venture exploration project on the Arch Creek (AR1-61) claim block, investigating it for PGE potential. The program, outlined two main exploration targets for the following season.

Trenching and chip sampling in the Teck (Musketeer) showing peridotite, returned encouraging geochemical assays for Pt, Pd, Ni, Cu and Au. The target footwall contact has not yet been exposed, and correlates with Mag-VLF conductors from previous geophysical surveys. This Footwall contact zone is buried under several tens of metres of glacio-fluvial gravels, and should be either exposed by trenching (where possible) or tested by drilling (X-ray, Winky or other portable drill equipment) to locate the Footwall trend. A 300 metre by 70 metre VLF conductor in the area of the projected contact is a recommended drill target. The trend should be further investigated by IP (resistivity-chargeability) surveys to help outline a drill target for follow-up work.

Mapping and sampling of the Conwest showing, as well as a mapped Magnetometer anomaly indicate the potential of peridotite sills and possible related marginal gabbros and high grade PGE zones towards the Southeast. This trend should be blast trenched along the projected strike of the zone.

The prominent lineament Northeast of the Conwest showing did not return significant assays. However, sampling was done while most of the zone was buried under snow. Further sampling, and prospecting along strike is recommended for the following season.

Two bright orange gossans were observed approximately 1 kilometre West-Northwest of the Conwest showing, but were not visited during the 2000 field program. These zones, as well as the remainder of the claims should be prospected and reconnaissance sampled.

Projected costs for the recommended program are as follows:

| | |
|--|---------------------|
| Linecutting: 5 km @ \$250/km | \$ 1,250.00 |
| IP survey (50 metre stations): 5 km @ \$1700/km | \$ 8,500.00 |
| Geologist: 20 days @ \$325/day | \$ 6,500.00 |
| Field technologists and prospectors: 3 persons @ \$200/ day, 20 days | \$ 12,000.00 |
| Assays: 300 @ \$30.00 ea. | \$ 9,000.00 |
| Helicopter: 6 hours @ \$900.00/hr | \$ 5,400.00 |
| Equipment rentals: compressor, cat, backhoe | \$ 8,000.00 |
| Camp costs: \$40 per manday 100 mandays (incl. IP crew) | \$ 4,000.00 |
| Mob/Demob (Incl airfare): \$4,000 | \$ 4,000.00 |
| Report preparation (Incl geologist): \$5,000 | \$ 5,000.00 |
| Subtotal | \$ 63,650.00 |
| Contingency: 10% | \$ 6,365.00 |
| Total | \$ 70,015.00 |

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Yukon Exploration, 1989, pp. 103-108.

Yukon Exploration and Geology, 1999, p.5

STATEMENT OF QUALIFICATIONS

I, **Marcus T. Vanwermeskerken**, of Saltspring Island, British Columbia, hereby certify that:

I am a graduate of the University of British Columbia with a Bachelor of Science degree (1987) in geology.

I have practiced my profession as a geologist in Canada, Central and South America for 11 years since graduation.

I am a consulting geologist with offices at 128 Saltair Lane, Saltspring Island, British Columbia.

I am a registered member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (reg # 19385).

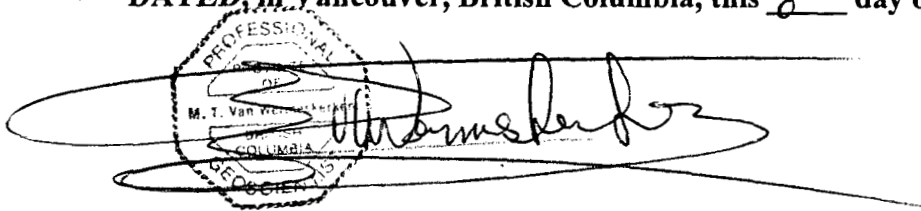
The information in this report is based on a review of reports on the area and on information obtained in the field.

I personally supervised the work undertaken on the Arch Creek claims during the 2000 field program.

I have no interest, direct or indirect, in the subject property, or any surrounding ground.

I consent to, and authorize the use of this report in any prospectus, state of material facts, or other public document.

DATED, in Vancouver, British Columbia, this 8th day of January, 2001.



The image shows a circular professional seal for the Association of Professional Engineers and Geoscientists of British Columbia. The seal contains the text "PROFESSIONAL OF M. T. Vanwermeskerken BRITISH COLUMBIA GEOSCIENTIST". A large, stylized handwritten signature in black ink is written across the seal.

Marcus T. Vanwermeskerken, P. Geo.

APPENDIX A

Rock sample descriptions

| sample # | width(m) | location(E/N) | description |
|----------|----------|-----------------|---|
| ARR2001 | 5.0 | TR 2002/3 area | Peridotite with disseminated sulphides (Py, Po, Cpy) |
| ARR2002 | 1.1 | Teck showing | chip across leached out, brecciated, limonitic feldspar porphyry (?) with abundant quartz-pyrite 'balls' <5 cm (70% py, 30% qtz). Boxwork with grey sulphide remnants. Lack of carbonate. Locally siliceous with 2-5% fine disseminated pyrite. Jarosite and melanterite (?) coated surfaces. |
| ARR2003 | 5.0 | Conwest showing | Oxidized gabbro with disseminated py and cpy |
| ARR2004 | 3.0 | Conwest showing | Oxidized gabbro with disseminated py and cpy |
| ARR2005 | 5.0 | Conwest showing | Same as ARR2004 |
| ARR2006 | Grab | TR 2001 area | Oxidized, carbonate altered intrusive rock with calcite (qtz) veins. |
| ARR2007 | 10.0 | TR 2001 area | Composite of serpentized, fractured peridotite. |
| ARR2009 | 9.0 | Conwest showing | chip across medium-fine grained gabbro. Oxidized and leached. 1% chalcopyrite, 2-3% pyrite, fine disseminated. Abundant limonite and malachite. |
| ARR2010 | 0.4 | Conwest showing | chip across quartz vein trending 170/66E. with various amounts up to 3% chalcopyrite, and <1% chalcocite (?), abundant malachite at gabbro-andesite contact |
| ARR2011 | 6.3 | Conwest showing | chip across medium grained gabbro with minor limonite along fractures. Minor chlorite and serpentinite alteration |
| ARR2012 | 4.5 | Conwest showing | chip across very oxidized gabbro with quartz-calcite vein stockwork <5 cm trending 000/90 with < 1% chalcopyrite, trace of chalcocite (?), malachite. Also 5% pyrite, disseminated and as 'blebs' < 2 cm. |
| ARR2013 | 6.5 | Conwest showing | 4.5 m true across limonitic gabbro with 2% disseminated py and 1%chalcopyrite |
| ARR20100 | 5.0 | Teck showing | chip across intermediate, medium grained feldspar porphyry, locally weak siliceous |
| ARR20101 | 5.0 | Teck showing | Same as -100 |
| ARR20102 | 3.0 | Teck showing | Same as -100 |
| ARR20103 | grab | TR2001 | Carbonate altered andesite (?), brecciated(crackle breccia) with multiphase carbonate (calcite-ankerite) veins. No sulphides. |
| ARR20104 | 5.0 | 571320/6818550 | Chip across fine grained, moderately calcareous peridotite. Magnetic, with trace of fine disseminated pyrite. Weak serpentization. |
| ARR20105 | 4.0 | 571325/6818565 | Same as -104. No sulphides. Calcite stringers. |
| ARR20106 | 3.0 | TR2002/3 area | Same as -104. Highly magnetic. 1-2% pyrrhotite, <1% pyrite. Calcite stringers. |

| sample # | width(m) | location(E/N) | description |
|----------|----------|----------------|---|
| ARR20107 | 5.0 | 571330/6818540 | Same as -104. 2% pyrite. Includes 25 cm wide dacitic dyke, trending 083/68S |
| ARR20108 | grab | 572001/6818950 | Calcareous andesite (feldspar porphyry) with abundant calcite stringers, predominantly @ 153/60 SW. 2% pyrite, disseminated and in fractures. |
| ARR20109 | grab | 572001/6819863 | 15 cm wide quartz-calcite vein with pale blue coating |
| ARR20110 | 2.0 | 572162/6819863 | chloritic calcareous fine grained andesite with quartz-calcite-epidote vein stockwork <15 cm. |
| ARR20111 | 2.5 | 572162/6819863 | same as -110 with chlorite and minor hematite in veins. Minor shearing with slickensides. |
| ARR20112 | 1.5 | | Banded argillite and fine grained quartzite, trending 171/85W, with abundant pyrite as pods and as lenses <5 cm in parting of beds. |
| ARR20113 | 4.2 | | Same as -112 with less pyrite. Contiguous with -112. |
| ARR20116 | 3.0 | 571260/6820160 | Chip across green, calcareous andesite with quartz-epidote-calcite vein stockwork < 10 cm. Veins mostly @ 035/65 NW and 128/61 NE. Slickensides @ 30 towards 215. |
| ARR20117 | 15.0 | 571280/6820170 | Composite of carbonate alteration zone, very fractured andesite. Abundant calcite +/- quartz veins with FeOx. No sulphides. |
| ARX20118 | soil | 571260/6820180 | Orange soil gossan (carbonate altered shear (?)) |
| ARX20119 | soil | 571480/6820120 | Orange soil gossan (carbonate altered shear(?)) |
| ARR20120 | 2.0 | 571500/6820140 | Chip across quartz-chlorite vein stockwork <2 cm @ 033/90 within green andesite. Weak epidote-hematite altered. No sulphides. |
| ARR20121 | 2.0 | TR2001 | Pale green, sheared andesite (?) with abundant fracture-filling calcite. Includes 20 cm wide calcite vein, trending 156/63E at contact with -102. |
| ARR20122 | 2.0 | TR2001 | Same as, and contiguous with -121, but less calcite stringers. |
| ARR20123 | 1.8 | TR2001 | Same as -121, less calcite stringers. Brecciated towards -124. |
| ARR20124 | 2.2 | TR2001 | Shattered peridotite, serpentinized, with calcite stringers in fractures. Magnetic. No sulphides. |
| ARR20125 | 2.0 | TR2001 | Same as -124. Increasing calcite stringers (predominantly @ 072/78S) and limonite towards -126. Cleavage @ 078/51N, subparallel to contact. |
| ARR20126 | 2.4 | TR2001 | Strong, carbonate altered andesite with abundant fine calcite stringers with FeOx. Contact with peridotite @ approx. 078/51N. Approx. 20% quartz stringer stockwork <3 mm towards -127. |
| ARR20127 | 0.7 | TR2001 | Quartz vein stockwork <5 mm in carbonate alteration zone at contact with -128. Discontinuous veins (lenses) approx. 20% vol. |

| sample # | width(m) | location(E/N) | description |
|----------|----------|-----------------|---|
| ARR20128 | 1.8 | TR2001 | Pale green gouge, sub perpendicular to contact, sheared (serpentinized) peridotite. |
| ARR20129 | 2.0 | TR2002 | Fine grained, magnetic peridotite with 2% combined interstitial pyrite and chalcopyrite +/- trace pentlandite (?) |
| ARR20130 | 2.0 | Contig. w. -129 | Same as -129. <1% py. |
| ARR20131 | 2.0 | TR2003 | Chip across shattered fine grained peridotite, serpentinized, magnetic. Calcite stringers. |
| ARR20132 | 2.0 | TR2003 | Same as -131. |
| ARR20133 | 1.3 | TR2003 | Same as -131. |
| ARR20134 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20135 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20136 | 2.0 | TR2002/3 area | Same as -131, 1% pyrite |
| ARR20137 | 2.0 | TR2002/3 area | Same as -131, 1% pyrite. |
| ARR20138 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20139 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20140 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20141 | 2.0 | TR2002/3 area | Same as -131. Minor pyrite. |
| ARR20142 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20143 | 2.0 | TR2002/3 area | Same as -131. |
| ARR20144 | 2.0 | TR2002/3 area | Same as -131. Minor pyrite. |
| ARR20145 | 2.0 | TR2002/3 area | Same as -131. 2% pyrite +/- chalcopyrite. Strong serpentinization. Cleavage @ 176/62W |
| ARR20146 | 2.0 | TR2002/3 area | Same as -145. <1% pyrite. Foliation @ 004/28W. |
| ARR20147 | 1.5 | TR2002/3 area | Same as -145. Trace of pyrite. |

APPENDIX B

Assay Results



105 Copp

Whitehorse

Y

Ph: (867) 66

Fax: (867) 66

E-mail: NAL@hyperte

04/10/2000

Certificate of Analysis

Pa

Tom Morgan

WO#00147

Certified by

| Sample # | Au 30g ppb | Pt 30g ppb | Pd 30g ppb | Cu ppm | Ni ppm | Cr ppm |
|----------|---------------|---------------|---------------|-----------|-----------|-----------|
| ARR2001 | 37 | 114 | 257 | 408 | 1624 | 94 |
| ARR2002 | 8 | 43 | 45 | 1116 | 764 | 44 |
| ARR2003 | 75 | 70 | 35 | 4671 | 1342 | 78 |
| ARR2004 | 154 | 91 | 43 | 4504 | 1172 | 117 |
| ARR2005 | 70 | 68 | 27 | 5448 | 2015 | 130 |
| ARR2006 | 13 | 63 | 62 | 374 | 1637 | 79 |
| ARR2007 | 6 | 25 | 19 | 377 | 1512 | 90 |
| ARR2008 | <5 | 6 | <5 | 355 | 63 | 17 |

18/12/2000

Certificate of Analysis

Page 1

Tom Morgan

WO#00157

Certified by 

| Sample # | Au 30g ppb | Pt 30g ppb | Pd 30g ppb |
|-------------|---------------|---------------|---------------|
| r ARR2009 | 65 | 77 | 33 |
| r ARR2010 | <5 | 7 | 5 |
| r ARR2011 | <5 | 12 | 5 |
| r ARR2012 | 67 | 47 | 30 |
| r ARR2013 | 43 | 88 | 44 |
| r ARR20100 | <5 | 7 | <5 |
| r ARR20101 | <5 | 14 | 22 |
| r ARR20102 | 11 | 87 | 163 |
| r ARR20103 | <5 | 58 | 60 |
| r ARR20104 | <5 | 8 | 15 |
| r ARR20105 | <5 | 13 | 13 |
| r ARR20106 | <5 | 16 | 26 |
| r ARR20107 | <5 | 48 | 39 |
| r ARR20108 | <5 | 8 | <5 |
| r ARR20109 | <5 | 6 | <5 |
| r ARR20110 | <5 | 15 | 12 |
| r ARR20111 | <5 | <5 | <5 |
| r ARR20112 | <5 | <5 | <5 |
| r ARR20113 | <5 | 10 | <5 |
| ss ARS20114 | 6 | 14 | <5 |
| ss ARS20115 | 6 | <5 | <5 |



INTERNATIONAL PLASMA LABORATORY LTD.

Client : Northern Analytical Laboratories
Project: WOP00163

32 Samples
32-Pulp

CERTIFICATE OF ANALYSIS

IPL 00K1521



Canada V5Y 3E1
Phone (804) 879-7878
Fax (804) 879-7898
Email ipd@direct.ca

[152112:18:56:00111500]

Out: Nov 15, 2000
In : Nov 08, 2000

Page 1 of 1
Section 1 of 2

| Sample Name | Type | Au g/mt | Pt g/mt | Pd g/mt | Rh g/mt | Ag ppm | Cu ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Hg ppm | Mo ppm | Tl ppm | Bi ppm | Cd ppm | Co ppm | Ni ppm | Ba ppm |
|-------------|------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARR20116 | Pulp | <0.01 | <0.01 | <0.01 | <0.01 | <0.1 | 51 | 6 | 77 | △ | △ | △ | 2 | <10 | △ | 2.1 | 28 | 43 | 211 |
| ARR20117 | Pulp | 0.01 | 0.01 | 0.01 | <0.01 | <0.1 | 47 | 8 | 84 | △ | △ | △ | 3 | <10 | △ | 1.0 | 37 | 71 | 8 |
| ARR20118 | Pulp | 0.36 | <0.01 | <0.01 | <0.01 | 0.5 | 223 | 19 | 62 | 23 | △ | △ | 8 | <10 | △ | 2.3 | 31 | 54 | 49 |
| ARR20119 | Pulp | 0.07 | <0.01 | 0.01 | <0.01 | 0.4 | 165 | 26 | 107 | 12 | △ | △ | 8 | <10 | △ | 2.4 | 36 | 50 | 111 |
| ARR20120 | Pulp | 0.03 | <0.01 | <0.01 | <0.01 | <0.1 | 3 | 4 | 32 | △ | △ | △ | 1 | <10 | △ | 0.7 | 11 | 8 | 41 |
| ARR20121 | Pulp | 0.01 | 0.01 | 0.03 | <0.01 | 0.1 | 207 | 10 | 40 | △ | △ | △ | 4 | <10 | △ | 2.0 | 72 | 890 | 148 |
| ARR20122 | Pulp | 0.01 | 0.02 | 0.05 | <0.01 | 0.2 | 327 | 16 | 61 | △ | △ | △ | 4 | <10 | △ | 3.4 | 96 | 1142 | 25 |
| ARR20123 | Pulp | 0.01 | 0.05 | 0.07 | <0.01 | 0.2 | 360 | 9 | 52 | △ | △ | △ | 3 | <10 | △ | 3.4 | 88 | 1247 | 133 |
| ARR20124 | Pulp | 0.01 | 0.03 | 0.08 | <0.01 | 0.5 | 418 | 6 | 61 | △ | △ | △ | 3 | <10 | △ | 2.6 | 119 | 1657 | 11 |
| ARR20125 | Pulp | 0.23 | 0.03 | 0.06 | <0.01 | 0.4 | 359 | 6 | 54 | △ | △ | △ | 3 | <10 | △ | 3.2 | 109 | 1516 | 13 |
| ARR20126 | Pulp | 0.14 | 0.11 | 0.11 | <0.01 | 1.0 | 709 | 2 | 38 | △ | △ | △ | 3 | <10 | △ | 1.2 | 101 | 1581 | 62 |
| ARR20127 | Pulp | 0.01 | 0.05 | 0.06 | <0.01 | 0.3 | 275 | 11 | 31 | △ | △ | △ | 3 | <10 | △ | 2.0 | 88 | 1359 | 772 |
| ARR20128 | Pulp | <0.01 | <0.01 | <0.01 | <0.01 | <0.1 | 19 | 2 | 20 | △ | △ | △ | 1 | <10 | △ | 0.8 | 6 | 53 | 388 |
| ARR20129 | Pulp | 0.02 | 0.05 | 0.08 | <0.01 | 0.3 | 709 | 5 | 65 | △ | △ | △ | 2 | <10 | △ | 2.7 | 135 | 1641 | 23 |
| ARR20130 | Pulp | 0.01 | 0.02 | 0.02 | <0.01 | 0.1 | 239 | △ | 54 | △ | △ | △ | 4 | <10 | △ | 2.6 | 117 | 1214 | 37 |
| ARR20131 | Pulp | 0.01 | 0.07 | 0.07 | <0.01 | 0.3 | 425 | 13 | 60 | △ | △ | △ | 3 | <10 | △ | 2.6 | 117 | 1703 | 28 |
| ARR20132 | Pulp | 0.01 | 0.02 | 0.04 | <0.01 | 0.2 | 276 | 7 | 41 | △ | △ | △ | 2 | <10 | △ | 2.2 | 110 | 1665 | 36 |
| ARR20133 | Pulp | <0.01 | 0.02 | 0.02 | <0.01 | <0.1 | 156 | 5 | 50 | △ | △ | △ | 3 | <10 | △ | 2.5 | 109 | 1534 | 37 |
| ARR20134 | Pulp | <0.01 | 0.02 | 0.02 | <0.01 | 0.1 | 196 | 11 | 58 | △ | △ | △ | 3 | <10 | △ | 2.4 | 120 | 1024 | 19 |
| ARR20135 | Pulp | 0.01 | 0.03 | 0.07 | <0.01 | 0.3 | 577 | 5 | 62 | △ | △ | △ | 3 | <10 | △ | 2.6 | 135 | 1640 | 11 |
| ARR20136 | Pulp | 0.01 | 0.04 | 0.06 | <0.01 | 0.3 | 379 | 7 | 57 | △ | △ | △ | 3 | <10 | △ | 2.6 | 124 | 1365 | 11 |
| ARR20137 | Pulp | 0.01 | 0.03 | 0.04 | <0.01 | 0.2 | 278 | 7 | 60 | △ | △ | △ | 4 | <10 | △ | 2.2 | 124 | 1219 | 12 |
| ARR20138 | Pulp | 0.01 | 0.04 | 0.06 | <0.01 | 0.3 | 564 | 6 | 69 | △ | △ | △ | 2 | <10 | △ | 2.6 | 131 | 1418 | 11 |
| ARR20139 | Pulp | 0.01 | 0.06 | 0.09 | <0.01 | 0.5 | 763 | 5 | 68 | △ | △ | △ | 4 | <10 | △ | 2.5 | 137 | 1699 | 15 |
| ARR20140 | Pulp | 0.01 | 0.01 | 0.03 | <0.01 | 0.2 | 259 | 8 | 61 | △ | △ | △ | 3 | <10 | △ | 3.0 | 125 | 1230 | 18 |
| ARR20141 | Pulp | <0.01 | 0.01 | 0.03 | <0.01 | <0.1 | 187 | 5 | 55 | △ | △ | △ | 4 | <10 | △ | 2.7 | 118 | 1136 | 17 |
| ARR20142 | Pulp | 0.01 | 0.01 | 0.02 | <0.01 | 0.1 | 203 | 8 | 54 | △ | △ | △ | 4 | <10 | △ | 2.3 | 120 | 1167 | 28 |
| ARR20143 | Pulp | 0.01 | <0.01 | 0.03 | <0.01 | 0.1 | 203 | 8 | 54 | △ | △ | △ | 5 | <10 | △ | 2.7 | 120 | 1129 | 27 |
| ARR20144 | Pulp | 0.01 | 0.02 | 0.02 | <0.01 | 0.1 | 141 | 7 | 52 | △ | △ | △ | 4 | <10 | △ | 2.7 | 119 | 1304 | 23 |
| ARR20145 | Pulp | 0.01 | 0.04 | 0.05 | <0.01 | 0.5 | 621 | 6 | 58 | △ | △ | △ | 3 | <10 | △ | 2.8 | 126 | 1412 | 16 |
| ARR20146 | Pulp | 0.02 | 0.02 | 0.07 | <0.01 | 0.6 | 717 | 7 | 64 | △ | △ | △ | 5 | <10 | △ | 2.6 | 132 | 1555 | 11 |
| ARR20147 | Pulp | 0.01 | 0.05 | 0.04 | <0.01 | 0.2 | 350 | 7 | 66 | △ | △ | △ | 4 | <10 | △ | 2.7 | 124 | 1260 | 15 |

Minimum Detection 0.01 0.01 0.01 0.01 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2
Maximum Detection 9999.00 99999.00 9999.00 9999.00 100.0 20000 20000 20000 10000 1000 10000 1000 1000 10000 100.0 10000 10000 10000
Method FA/AAS FA/AAS FA/AAS FA/AAS ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

NS=No Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate %



INTERNATIONAL PLASMA LABORATORY LTD.

Client : Northern Analytical Laboratories
Project: W0#00163

32 Samples
32-Pulp

[152112:18:56:00111500]

Out: Nov 15, 2000
In : Nov 08, 2000

Page 1 of 1
Section 2 of 2

| Sample Name | W ppm | Cr ppm | V ppm | Mn ppm | La ppm | Sr ppm | Zr ppm | Sc ppm | Ti % | Al % | Ca % | Fe % | Mg % | K % | Na % | P % |
|-------------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|--------|---------|--------|
| ARR20116 | 5 | 61 | 76 | 751 | 3 | 54 | 3 | 3 | 0.10 | 2.72 | 2.21 | 4.10 | 2.18 | 0.04 | 0.03 | 0.09 |
| ARR20117 | 5 | 143 | 147 | 1248 | 3 | 63 | 1 | 18 | <0.01 | 3.98 | 7.21 | 5.37 | 3.58 | 0.03 | 0.02 | 0.04 |
| ARR20118 | 5 | 27 | 29 | 1179 | 5 | 32 | 2 | 11 | <0.01 | 0.83 | 2.98 | 4.58 | 0.51 | 0.05 | 0.02 | 0.06 |
| ARR20119 | 5 | 48 | 100 | 1040 | 4 | 150 | 2 | 17 | <0.01 | 1.42 | 5.79 | 5.89 | 1.01 | 0.04 | 0.01 | 0.06 |
| ARR20120 | 5 | 67 | 20 | 564 | 4 | 124 | 3 | 2 | 0.06 | 1.12 | 0.99 | 1.31 | 0.71 | 0.06 | 0.02 | 0.06 |
| ARR20121 | 5 | 561 | 52 | 1346 | 2 | 160 | 2 | 9 | 0.01 | 2.22 | 9.57 | 4.64 | 8.64 | 0.01 | 0.01 | 0.02 |
| ARR20122 | 5 | 796 | 69 | 1027 | 3 | 112 | 3 | 13 | 0.04 | 2.71 | 4.04 | 5.66 | 11x | 0.04 | 0.02 | 0.03 |
| ARR20123 | 5 | 563 | 57 | 1044 | 3 | 81 | 3 | 12 | 0.03 | 2.53 | 3.94 | 5.60 | 13x | 0.03 | 0.01 | 0.04 |
| ARR20124 | 5 | 658 | 32 | 1015 | 2 | 33 | 2 | 11 | 0.01 | 1.26 | 1.29 | 5.25 | 12x | 0.03 | 0.01 | 0.01 |
| ARR20125 | 5 | 658 | 36 | 1003 | 2 | 65 | 2 | 11 | 0.01 | 1.40 | 3.44 | 5.42 | 12x | 0.01 | 0.01 | 0.01 |
| ARR20126 | 5 | 501 | 47 | 1040 | 2 | 183 | 2 | 8 | 0.01 | 1.35 | 12x | 5.27 | 7.16 | 0.01 | 0.01 | 0.01 |
| ARR20127 | 5 | 658 | 41 | 1480 | 2 | 313 | 1 | 10 | <0.01 | 1.61 | 11x | 4.76 | 8.67 | <0.01 | 0.01 | <0.01 |
| ARR20128 | 5 | 26 | 7 | 100 | 2 | 16 | 1 | 1 | <0.01 | 2.22 | 0.54 | 1.22 | 1.84 | 0.17 | 0.02 | 0.02 |
| ARR20129 | 5 | 287 | 17 | 985 | 2 | 14 | 2 | 6 | 0.01 | 0.93 | 0.78 | 5.23 | 13x | 0.02 | 0.01 | 0.02 |
| ARR20130 | 5 | 264 | 17 | 949 | 2 | 24 | 2 | 6 | 0.02 | 1.28 | 0.83 | 5.71 | 13x | 0.03 | 0.02 | 0.02 |
| ARR20131 | 5 | 302 | 21 | 924 | 2 | 13 | 3 | 6 | 0.02 | 1.29 | 1.27 | 5.21 | 13x | 0.02 | 0.01 | 0.03 |
| ARR20132 | 5 | 252 | 16 | 982 | 2 | 14 | 2 | 5 | 0.01 | 1.15 | 1.44 | 4.86 | 12x | 0.03 | 0.01 | 0.02 |
| ARR20133 | 5 | 267 | 17 | 1006 | 2 | 14 | 2 | 5 | 0.01 | 1.03 | 1.18 | 4.68 | 12x | 0.03 | 0.01 | 0.02 |
| ARR20134 | 5 | 367 | 22 | 917 | 2 | 18 | 2 | 7 | 0.01 | 1.14 | 1.42 | 5.16 | 13x | 0.02 | 0.01 | 0.01 |
| ARR20135 | 5 | 405 | 25 | 933 | 2 | 16 | 2 | 7 | 0.02 | 1.07 | 1.07 | 5.46 | 14x | 0.01 | 0.01 | 0.02 |
| ARR20136 | 5 | 315 | 18 | 876 | 2 | 8 | 2 | 6 | 0.01 | 0.87 | 0.59 | 4.80 | 12x | 0.02 | 0.01 | 0.02 |
| ARR20137 | 5 | 326 | 20 | 880 | 2 | 10 | 2 | 6 | 0.01 | 0.96 | 0.76 | 4.89 | 13x | 0.02 | 0.01 | 0.02 |
| ARR20138 | 5 | 359 | 22 | 935 | 2 | 9 | 2 | 7 | 0.02 | 1.04 | 0.69 | 5.36 | 13x | 0.02 | 0.01 | 0.01 |
| ARR20139 | 6 | 362 | 21 | 914 | 2 | 20 | 2 | 7 | 0.01 | 1.02 | 0.71 | 5.46 | 13x | 0.02 | 0.01 | 0.02 |
| ARR20140 | 5 | 372 | 23 | 961 | 2 | 37 | 2 | 7 | 0.02 | 1.26 | 1.21 | 5.56 | 14x | 0.02 | 0.01 | 0.02 |
| ARR20141 | 5 | 328 | 20 | 926 | 2 | 15 | 2 | 6 | 0.02 | 1.19 | 0.87 | 5.36 | 13x | 0.02 | 0.01 | 0.02 |
| ARR20142 | 5 | 299 | 19 | 926 | 2 | 21 | 2 | 6 | 0.01 | 1.21 | 0.65 | 5.45 | 13x | 0.03 | 0.02 | 0.01 |
| ARR20143 | 5 | 299 | 18 | 911 | 2 | 18 | 2 | 6 | 0.01 | 1.20 | 0.75 | 5.42 | 13x | 0.03 | 0.02 | 0.02 |
| ARR20144 | 5 | 308 | 19 | 909 | 2 | 15 | 2 | 6 | 0.01 | 1.17 | 0.79 | 5.36 | 13x | 0.03 | 0.01 | 0.02 |
| ARR20145 | 5 | 296 | 19 | 901 | 2 | 18 | 2 | 6 | 0.01 | 1.00 | 0.98 | 5.24 | 13x | 0.02 | 0.01 | 0.01 |
| ARR20146 | 5 | 349 | 22 | 955 | 2 | 10 | 2 | 7 | 0.02 | 1.07 | 0.66 | 5.57 | 14x | 0.02 | 0.01 | 0.02 |
| ARR20147 | 5 | 376 | 23 | 978 | 2 | 10 | 2 | 7 | 0.02 | 1.08 | 0.82 | 5.43 | 14x | 0.02 | 0.01 | 0.02 |

| | | | | | | | | | | | | | | | | |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|------|
| Minimum Detection | 5 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Maximum Detection | 1000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 1.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 5.00 | 5.00 |
| Method | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP | ICP |

-N- Test Inefficiency Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CONWEST SHOWING (1952)

IRub

MUS
CLAIMS

AMP
CLAIMS (OPTION)

IPhv

MUSKATEER SHOWING (1952)

650, 102, 15, 5

5400, 29, 15, 4

57000

4200

4600

5000

4800

5300

4900

4800

4700

4600

4300

57000

• 100 Pt

57500

730 Ni

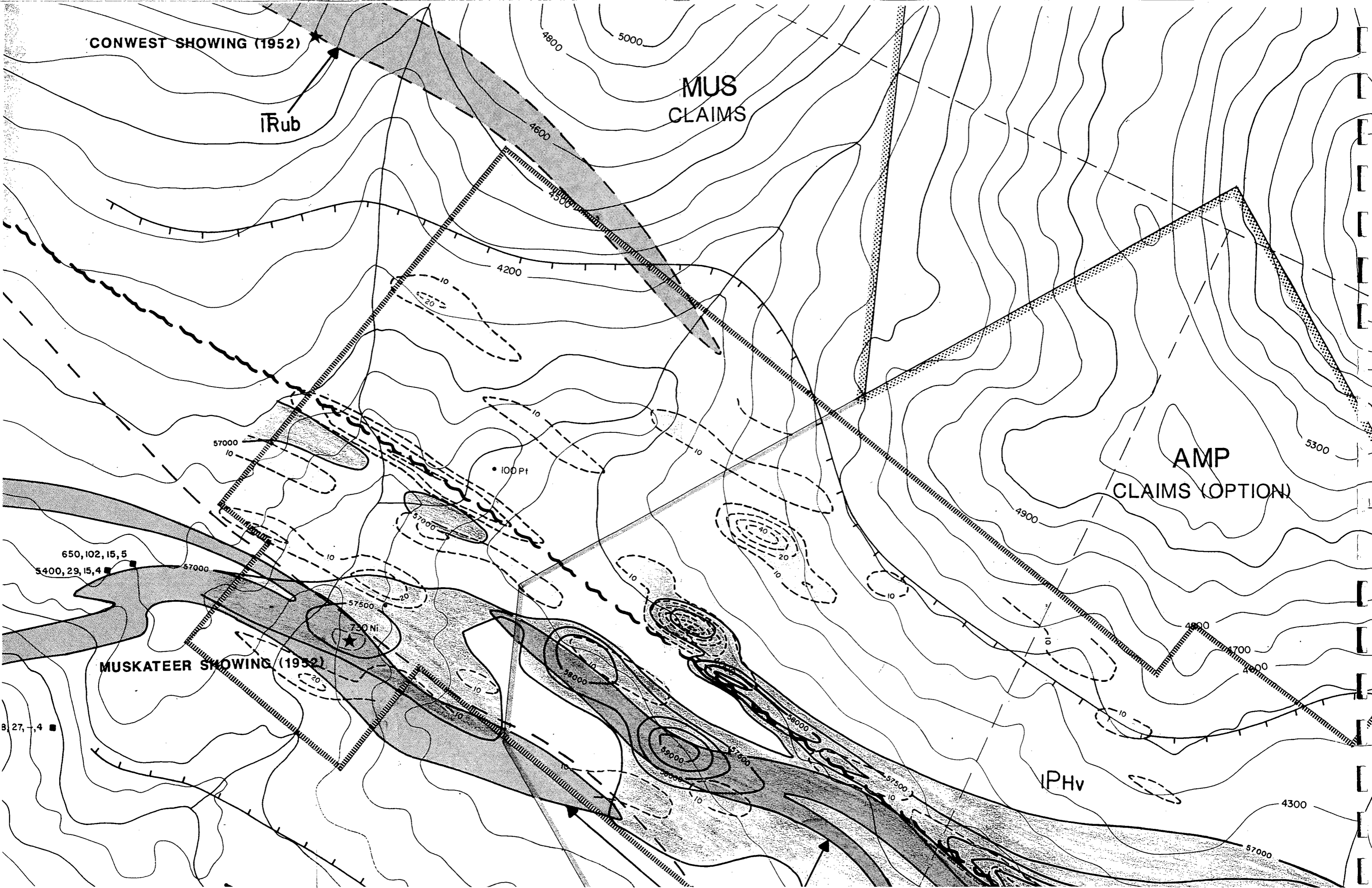
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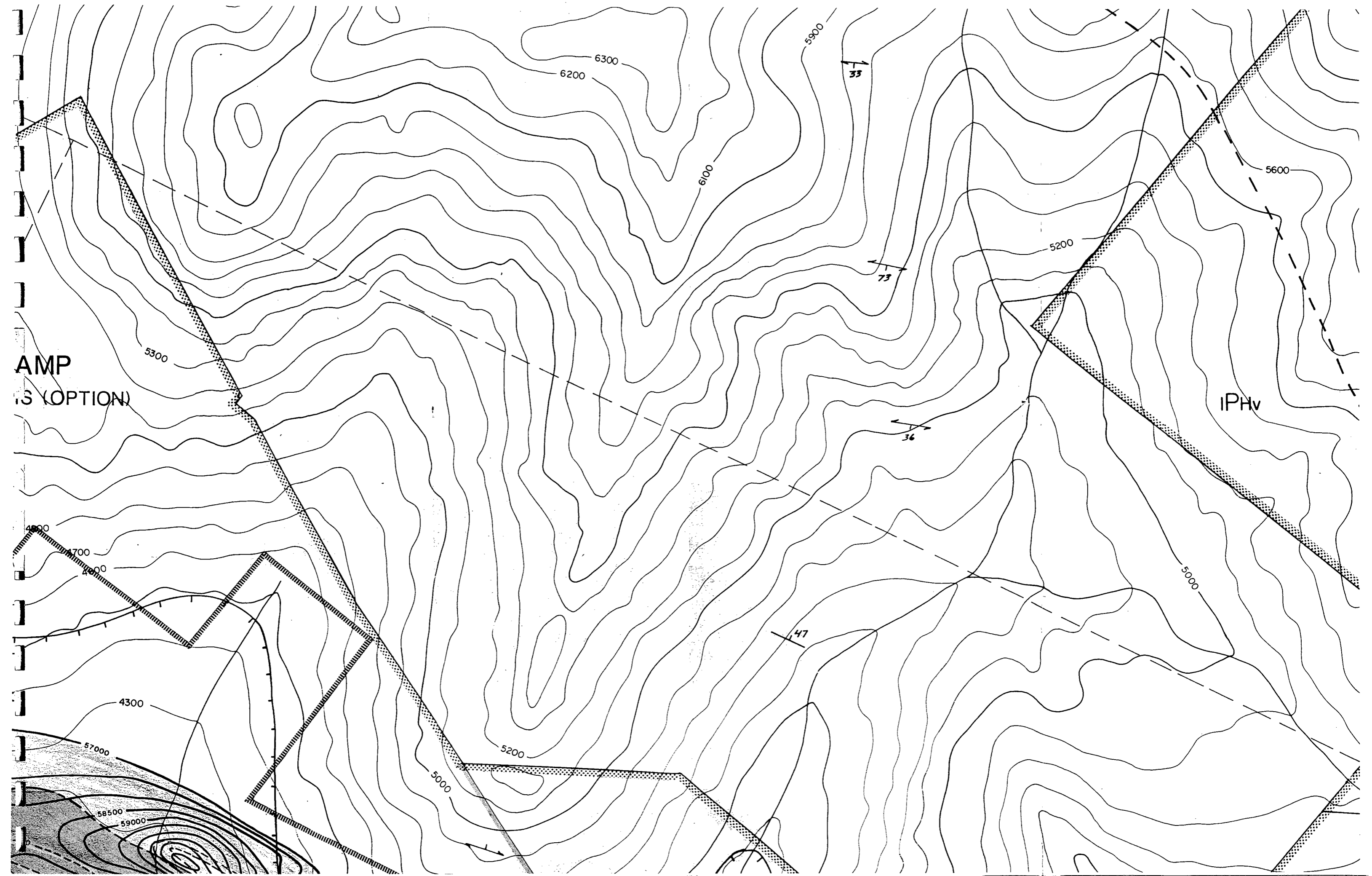
59000

57500

57500

8, 27, 4





AMP
IS (OPTION)

IPhv

6300
6200

6100

5900

5200

5600

5300

33

73

36

47

5000

5200

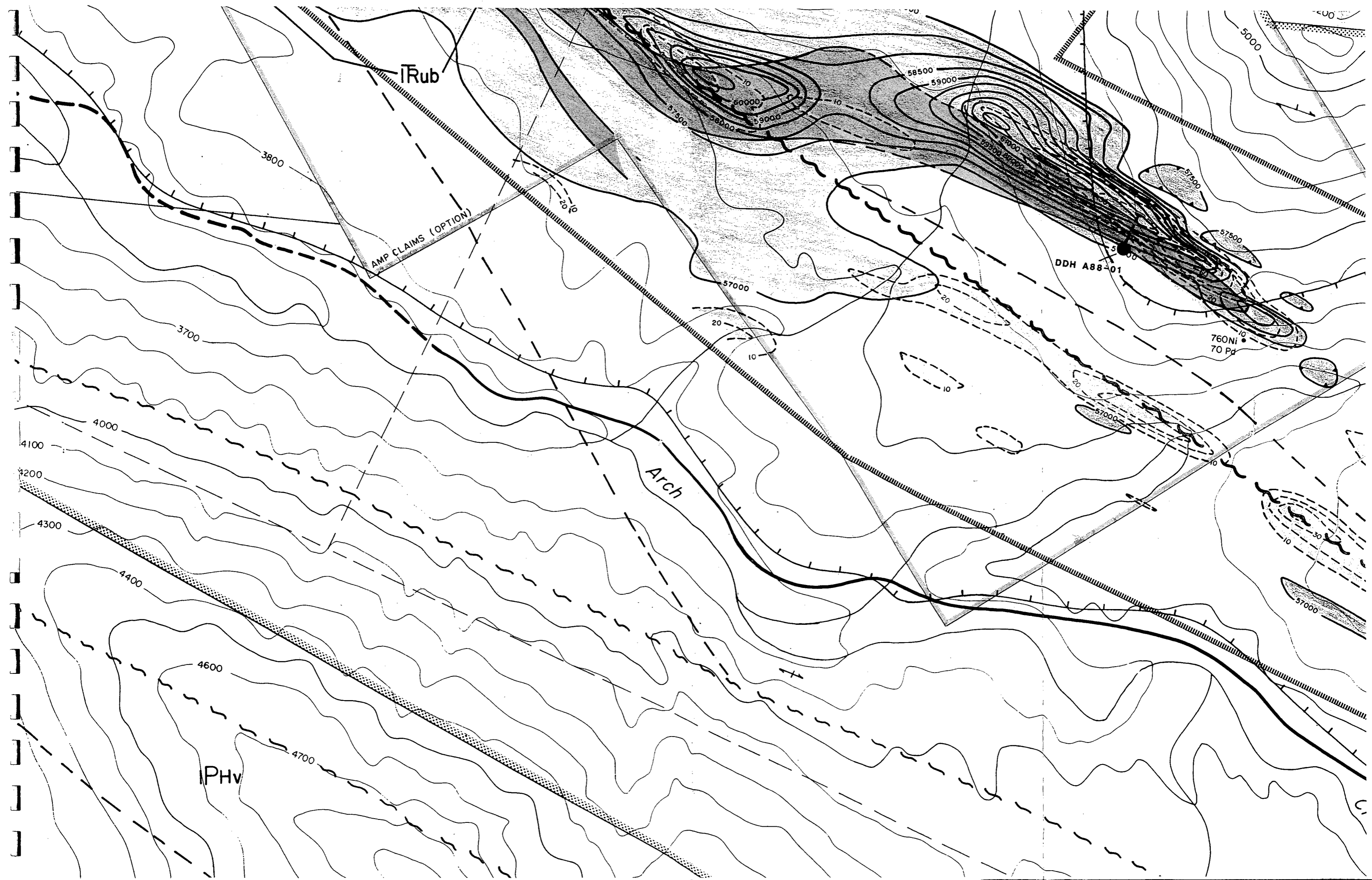
5000

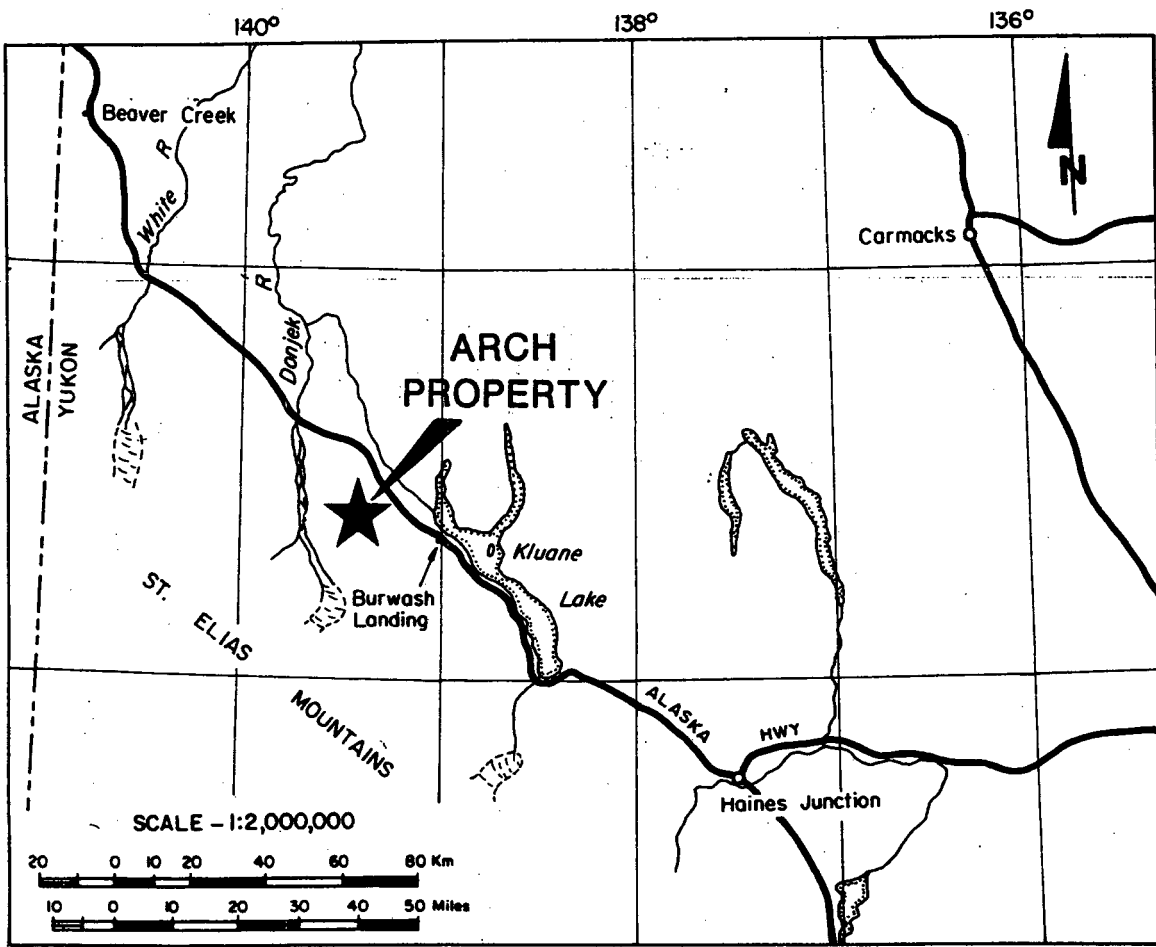
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57000

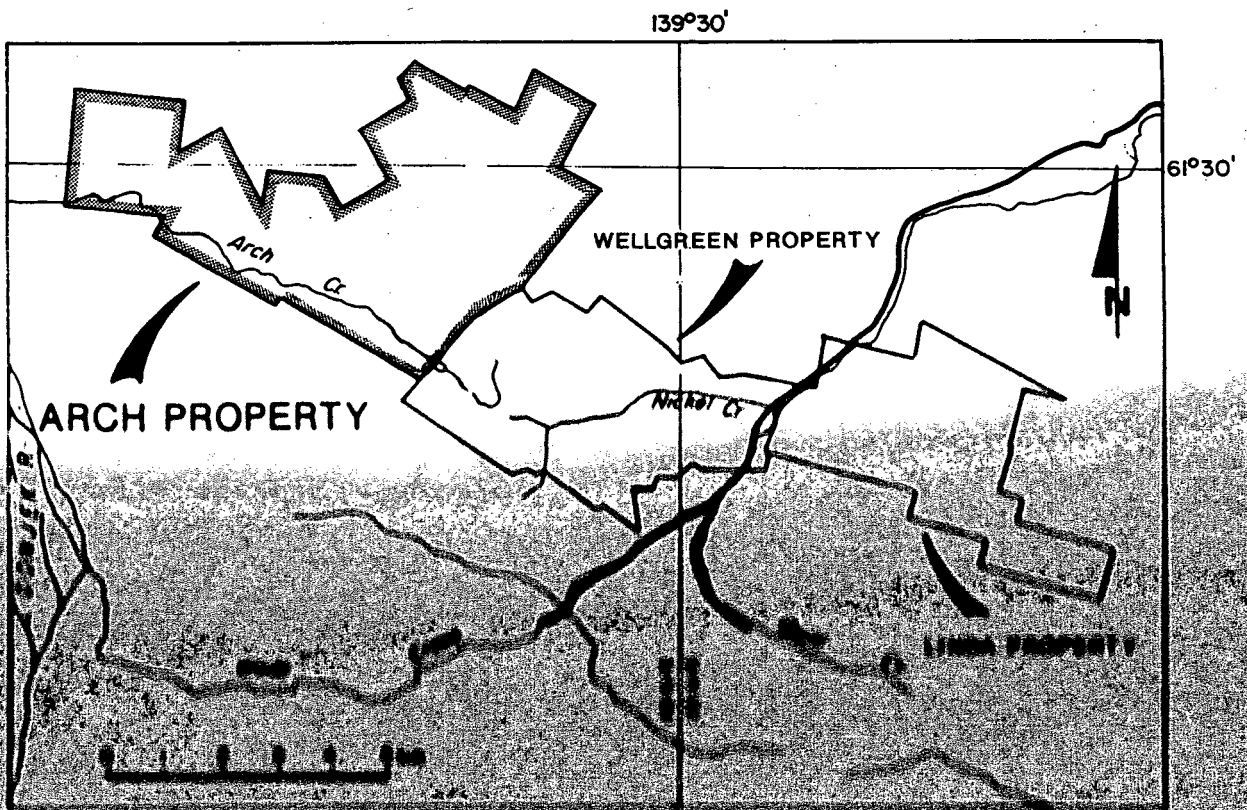
58500

59000








LOCATION MAP



LEGEND

-  1988 (1989) drill hole
-  Mass specimen assay
Cu(%), Ni(%), Pt(opt), Pd(opt)
-  Chip sample assay
Cu(%), Ni(%), Pt(opt), Pd(opt)



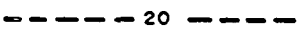




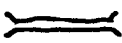

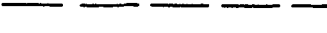

length (m)
-  Rock and soil sample values
Cu, Ni in ppm, Pt, Pd in ppb
-  Total magnetic field (nanoteslas)
-  VLF-EM Response; Fraser filtered (%)
-  Ultramafic Sills
-  Fault
-  Geological contact-defined, approximate
-  1987 grid survey
-  Bulldozer trench
-  Road-2 wheel drive, 4 wheel drive
-  Boundary of 1:2500 map sheets (1987 Report)
-  Glacial-fluvial gravel terrace

TABLE OF FORMATIONS

INTRUSIVE ROCKS

I \bar{R} ub

Lower Triassic

differentiated komatiitic sills consisting mainly of peridotite (I \bar{R} p) with lesser dunite (I \bar{R} d) and anorthositic gabbro

LAYERED ROCKS

u \bar{R} Nv

Upper Triassic

Nikolai Group - dark green and maroon amygdaloidal basalt, volcanic breccia and conglomerate; minor thin-bedded limestone, chert and argillite

~~~~~ unconformity ~~~~~

IP $\bar{H}$ v

### Lower Permian

Hasen Creek Formation - siliceous argillite, sandstone, amygdaloidal pillow basalt, limestone and conglomerate

Psv

### Pennsylvanian and (?) Permian

Station Creek Formation - tuff, volcanic breccia, siliceous argillite, andesite and basalt flows

Geology compiled from mapping by Hudson-Yukon, S. Campbell,  
G.S.C. and Klugue J.V.

092645

unconformity

IP<sub>Hv</sub>

Lower Permian

Hasen Creek Formation - siliceous argillite, sandstone, amygdaloidal pillow basalt, limestone and conglomerate

PS<sub>v</sub>

Pennsylvanian and (?) Permian

Station Creek Formation - tuff, volcanic breccia, siliceous argillite, andesite and basalt flows

Geology compiled from mapping by Hudson-Yukon, S. Campbell, G.S.C. and Klwane J.V.

092645

Figure 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# COMPILATION MAP

## ARCH PROPERTY

PAK-MAN RESOURCES INC.  
ROCKRIDGE MINING CORPORATION  
AND KLUANE JOINT VENTURE

Nov 20/80  
WJF  
497

Indian and Northern Affairs Canada  
 Affaires indiennes et du Nord Canada  
 Northern Affairs Program  
 Programme des affaires du Nord

Mineral Rights Droits miniers

SEE ADJACENT MAP SHEETS EDGES  
 FOR ADJOINING MINERAL CLAIMS  
 NOT SHOWN ON THIS MAP

**115G-5**  
**QUARTZ**  
 LATITUDE 61° 16' TO 61° 30'  
 LONGITUDE 139° 30' TO 140° 00'  
 ISSUED UNDER THE AUTHORITY OF THE MINISTER  
 OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT  
 SCALE 1:31,680  
 SEPTEMBER 7, 2001



NOTE:  
 THIS MAP IS ISSUED AS A PRELIMINARY GUIDE  
 FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS  
 AND NORTHERN DEVELOPMENT WILL ACCEPT NO  
 RESPONSIBILITY FOR ANY ERRORS, INACCURACIES  
 OR OMISSIONS WHATSOEVER.  
 TOPOGRAPHY COMPILED FROM 1:50,000  
 NATIONAL TOPOGRAPHIC SERIES.  
 CONTOUR INTERVAL 500 FEET.  
 SURVEY INFORMATION COMPILED FROM  
 LEGAL SURVEYS, BY DRAFTING SERVICES.

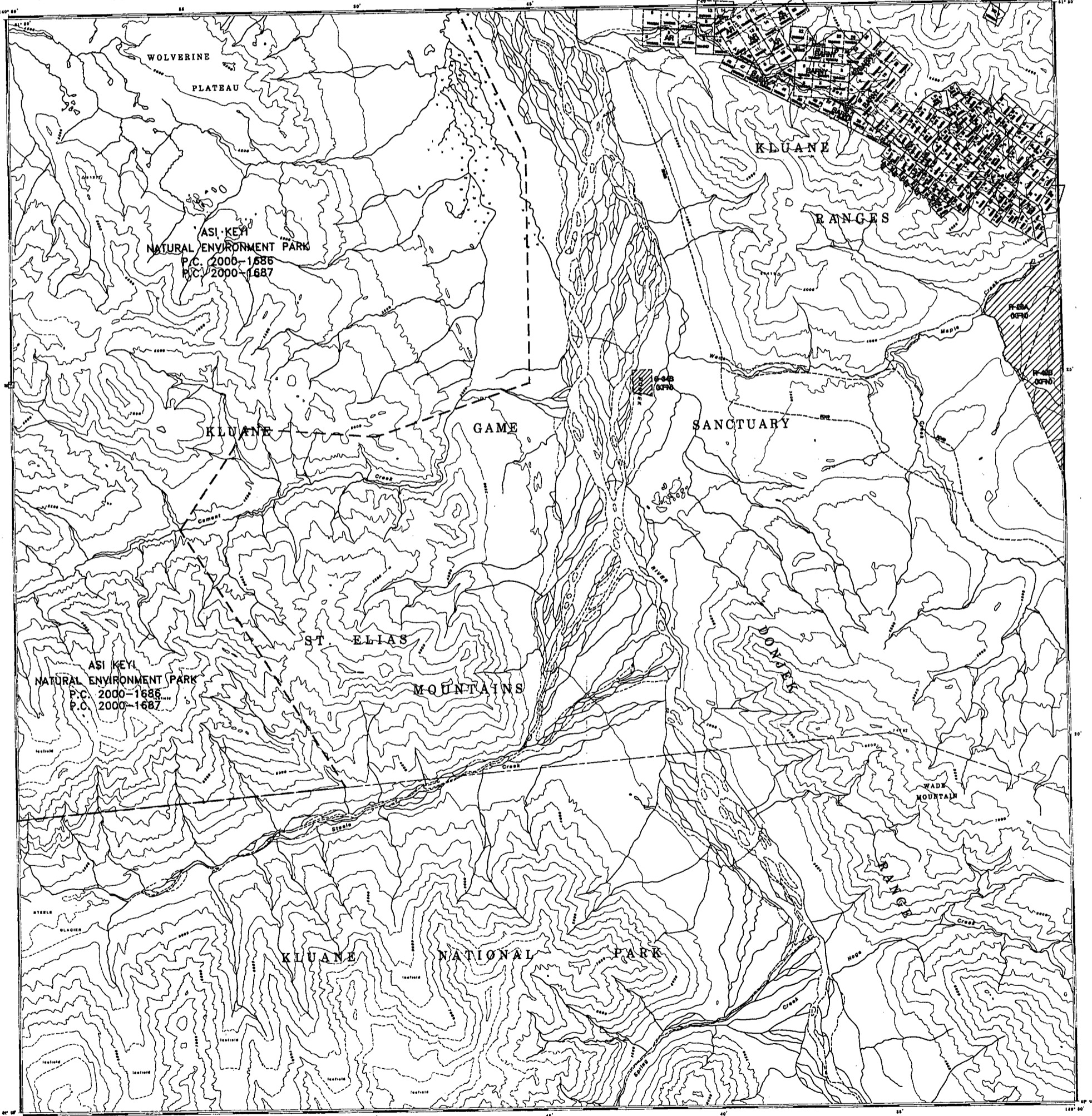
|        |         |         |
|--------|---------|---------|
| 115G-8 | 115G-10 | 115G-11 |
| 115G-6 | 115G-4  | 115G-5  |
| 115G-1 | 115G-3  | 115G-2  |

Canada

WHITEHORSE MINING DISTRICT

SEPTEMBER 7, 2001

Note for plates see 115G-8 plate



Indian and Northern Affairs Canada  
 Affaires Indiennes et du Nord Canada  
 Northern Affairs Program  
 Programme des affaires du Nord

Mineral Rights Droits miniers

SEE ADJACENT MAP SHEETS EDGES FOR ADJOINING MINERAL CLAIMS NOT SHOWN ON THIS MAP

**115G-12  
QUARTZ**

LATITUDE 61° 59' TO 61° 46'  
 LONGITUDE 129° 56' TO 129° 50'

ISSUED UNDER THE AUTHORITY OF THE MINISTER OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:100,000

NOV 20, 2000

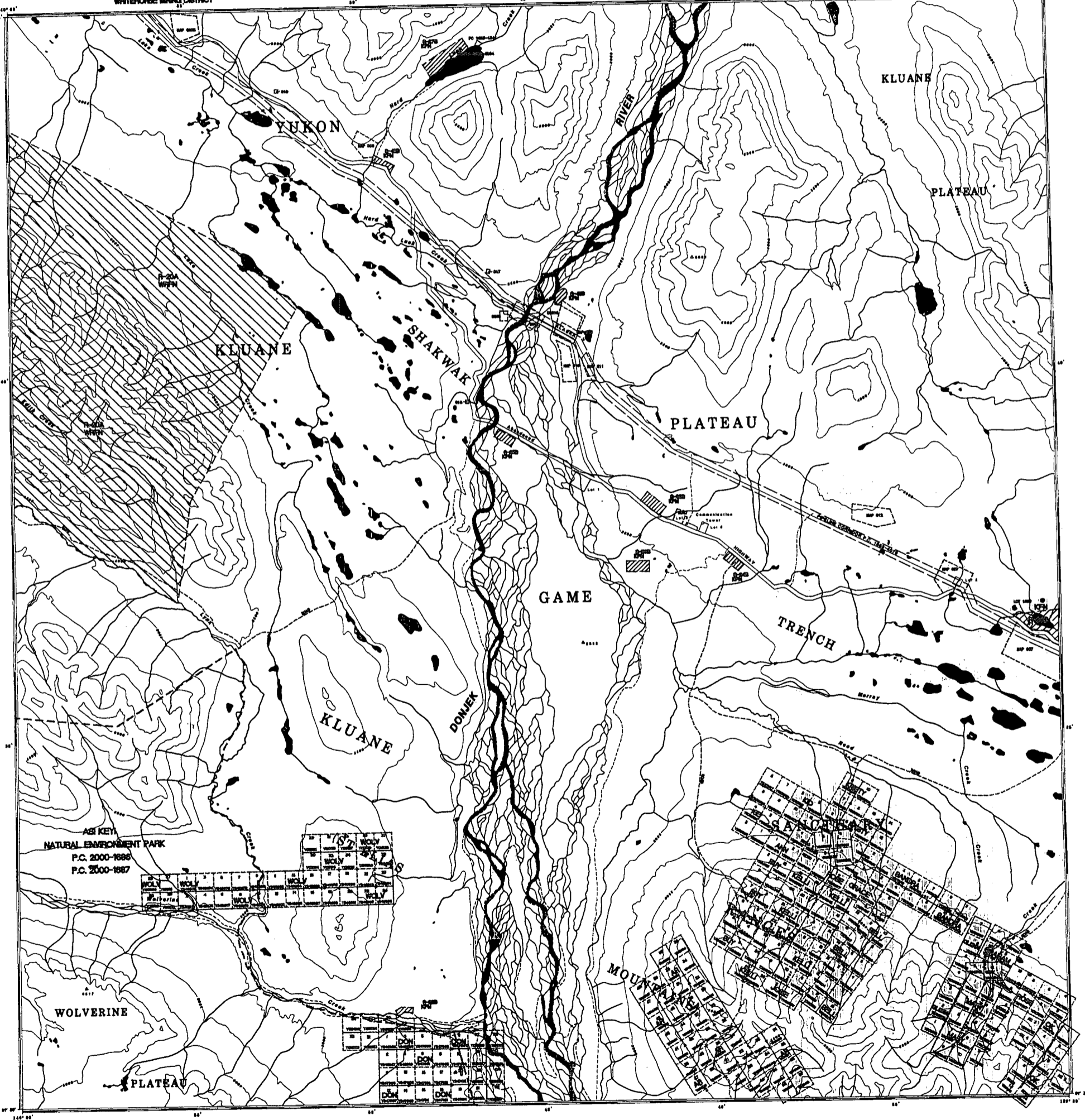


**NOTE:**  
 THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.  
 TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.  
 CONTOUR INTERVAL 500 FEET.  
 SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| 115G-10 | 115G-11 | 115G-12 | 115G-13 | 115G-14 |
| 115G-5  | 115G-6  | 115G-7  | 115G-8  | 115G-9  |
| 115G-1  | 115G-2  | 115G-3  | 115G-4  | 115G-15 |

Canada

WHITEHORSE MINING DISTRICT



AS KEY  
 NATURAL ENVIRONMENT PARK  
 P.C. 2000-1886  
 P.C. 2000-1887

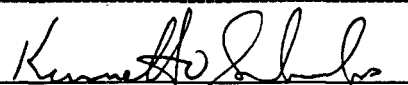
AR #1 to #60 and AR#61 Expenses

Target Evaluation (YMIP 00-057)  
16406 Yukon Inc.

Interim Claim #1  
Submitted on October 13, 2000

|                                                                         |                                                 |    |                  |
|-------------------------------------------------------------------------|-------------------------------------------------|----|------------------|
| 1                                                                       | Daily Living Expenses (68 days @ \$35.00 / day) | \$ | 2,380.00         |
| 2                                                                       | Travel                                          |    |                  |
| 3                                                                       | Analyses / Assay Costs                          | \$ | 341.33           |
| 4                                                                       | Equipment Rentals / Supplies                    |    |                  |
|                                                                         | Dodge 4x4 P/U (1 mo @ \$1450/mo)                | \$ | 1,450.00         |
|                                                                         | Fargo 4x4 Power Wagon (1 mo @ \$1450/mo)        | \$ | 1,450.00         |
|                                                                         | Trailer                                         | \$ | 480.00           |
|                                                                         | Honda ATV (1 mo @ \$1500/mo)                    | \$ | 1,500.00         |
|                                                                         | 4x4 Explorer (1 mo @ \$1450/mo)                 | \$ | 1,450.00         |
|                                                                         | 125 Deutz Air Compressor                        | \$ | 1,500.00         |
|                                                                         | blasting and slushing equipment                 | \$ | 700.00           |
|                                                                         | 4kw generator                                   | \$ | 325.00           |
|                                                                         | chainsaw                                        | \$ | 450.00           |
|                                                                         | GPS                                             | \$ | 90.00            |
| 5                                                                       | Contractors                                     |    |                  |
|                                                                         | Wes Darling Operations (10 days @ \$225/day)    | \$ | 2,250.00         |
|                                                                         | Tom Morgan (29 days @ \$300/day)                | \$ | 8,700.00         |
|                                                                         | Vern Matkovich (22 days @ \$300/day)            | \$ | 6,600.00         |
| 12                                                                      | Report Preparation                              |    |                  |
| 13                                                                      | Other Expenses                                  |    |                  |
|                                                                         | fuel                                            | \$ | 1,431.81         |
|                                                                         | explosives                                      | \$ | 3,527.57         |
|                                                                         | field supplies                                  | \$ | 457.59           |
|                                                                         | office supplies                                 | \$ | 121.13           |
| <b>TOTAL EXPENSES</b>                                                   |                                                 | \$ | <b>35,204.43</b> |
| <b>TOTAL EXPENSES X 50%</b>                                             |                                                 | \$ | <b>17,602.22</b> |
| <b>TOTAL AMOUNT IN CONTRIBUTION AGREEMENT</b>                           |                                                 | \$ | <b>20,000.00</b> |
| <b>MINUS 25% (holdback)</b>                                             |                                                 | \$ | <b>5,000.00</b>  |
| <b>AMOUNT REIMBURSABLE PRIOR TO FINAL SUBMISSION FORM &amp; REPORTS</b> |                                                 | \$ | <b>15,000.00</b> |
| Interim claims (0) + current claim                                      |                                                 | \$ | 17,602.22        |
| allowable current claim                                                 |                                                 | \$ | 15,000.00        |
| balance held over to final claim                                        |                                                 | \$ | 2,602.22         |
| <b>INTERIM CLAIM</b>                                                    |                                                 | \$ | <b>15,000.00</b> |
| <b>BALANCE UNUSED IN CONTRIBUTION AGREEMENT</b>                         |                                                 | \$ | <b>5,000.00</b>  |

Approved for Payment



Oct 17, 2000

Target Evaluation (YMIP 00-057)  
16406 Yukon Inc.

Interim Claim #2  
Submitted on December 15, 2000

|                                                                         |                                                 |           |                  |
|-------------------------------------------------------------------------|-------------------------------------------------|-----------|------------------|
| 1                                                                       | Daily Living Expenses (68 days @ \$35.00 / day) |           |                  |
| 2                                                                       | Travel                                          |           |                  |
|                                                                         | Truck (1570 km @ \$0.42/km)                     | \$        | 659.40           |
|                                                                         | Summit Air                                      |           |                  |
|                                                                         | Other                                           |           |                  |
| 3                                                                       | Analyses / Assay Costs                          | \$        | 2,626.32         |
| 4                                                                       | Equipment Rentals / Supplies                    |           |                  |
|                                                                         | Dodge 4x4 P/U (1 mo @ \$1450/mo)                |           |                  |
|                                                                         | Fargo 4x4 Power Wagon (1 mo @ \$1450/mo)        |           |                  |
|                                                                         | Trailer                                         |           |                  |
|                                                                         | Honda ATV (1 wk @ \$500/wk)                     | \$        | 500.00           |
| 5                                                                       | Contractors                                     |           |                  |
|                                                                         | Wes Darling Operations (6 days @ \$200/day)     | \$        | 1,200.00         |
|                                                                         | Tom Morgan (9 days @ \$300/day)                 | \$        | 2,700.00         |
|                                                                         | Vern Matkovich (22 days @ \$300/day)            |           |                  |
| 12                                                                      | Report Preparation                              |           |                  |
| 13                                                                      | Other Expenses                                  |           |                  |
|                                                                         | photo finishing                                 | \$        | 16.48            |
|                                                                         | telephone charges                               | \$        | 195.77           |
| <hr/>                                                                   |                                                 |           |                  |
| TOTAL EXPENSES                                                          |                                                 | \$        | 7,897.97         |
| TOTAL EXPENSES X 50%                                                    |                                                 | \$        | 3,948.99         |
| <b>TOTAL AMOUNT IN CONTRIBUTION AGREEMENT</b>                           |                                                 | <b>\$</b> | <b>20,000.00</b> |
| MINUS 25% (holdback)                                                    |                                                 | \$        | 5,000.00         |
| <b>AMOUNT REIMBURSABLE PRIOR TO FINAL SUBMISSION FORM &amp; REPORTS</b> |                                                 | <b>\$</b> | <b>15,000.00</b> |
| Interim claims (\$17602.22) + current claim                             |                                                 | \$        | 21,551.21        |
| allowable current claim                                                 |                                                 | \$        | -                |
| balance held over to final claim                                        |                                                 | \$        | 5,000.00         |
| <b>INTERIM CLAIM</b>                                                    |                                                 | <b>\$</b> | <b>-</b>         |
| <b>BALANCE UNUSED IN CONTRIBUTION AGREEMENT</b>                         |                                                 | <b>\$</b> | <b>5,000.00</b>  |
| <hr/>                                                                   |                                                 |           |                  |

Approved for Payment \_\_\_\_\_