MAP NO.: 115 G 6

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092645
MINING DISTRICT: Whitehorse
TYPE OF WORK: Trenching, diamond drilling

REPORT FILED UNDER: Archer, Cathro & Associates (1981) Ltd

DATE PERFORMED: 11-18 August, 1988

DATE FILED: 6 February, 1989

LOCATION: LAT.: 60 27'N
LONG.: 139 25'W

AREA: Arch Creek

VALUE $: 48 000.00

CLAIM NAME & NO.: BARNY 1-50 INCLUDING FRACTIONS, (YA94968-73, YA96002-9, YA96863-80, YA97896-901, YA97902-12, YB08307); MUS 1-16 (YA94962-7, YA96010-19); AMP 1-10 YA95100-9); EUGENE 1-44 (YB08097-140)

WORK DONE BY: W.D. Eaton

WORK DONE FOR: Kluane Joint Venture, Rockridge Mining Corp., Pak-Man Resources Inc.

DATE TO GOOD STANDING:

REMARKS: #19 AIRWAYS

In 1988, 3 HQ holes were drilled totalling 173.4 m. The drill-holes intersected wodespread disseminated sulphides. Massive sulph-ides were confined to gabbroic chilled margins and contained up to 0.75% Cu, 1.44% Ni, and 2.2 g#t Pt + Pd.

ARCHER, CATHRO
& ASSOCIATES (1981) LIMITED
CONSULTING GEOLOGICAL ENGINEERS

1016 - 510 WEST HASTINGS STREET
VANCOUVER, B. C. V6B 1L8
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092645

SUMMARY REPORT

on

1988 EXPLORATION

ARCH PROPERTY

(BARNY, MUS, AMP and EUGENE CLAIMS)

Performed for

Pak-Man Resources Inc.

Rockridge Mining Corporation and

Kluane Joint Venture

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

November, 1988

BOX 4127, 3125 THIRD AVENUE, WHITEHORSE, Y. T. Y1A 3S9
(403) 667-4415

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 $ 48 000.00.

P. J. Bremner

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

approved as physical work.

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INTRODUCTION

The Arch Property was acquired by staking and option in 1986 by Archer, Cathro & Associates (1981) Limited on behalf of Kluane Joint Venture (Chevron Minerals Ltd. and All-North Resources Ltd.) to cover the extension of the Quill Creek Ultramafic Complex west of the Wellgreen Property. In December, 1986, the Joint Venture entered into an option agreement with Pak-Man Resources Inc. and Rockridge Mining Corporation.

Exploration in 1987 was funded by Pak-Man and Rockridge and was primarily directed toward nickel, copper and platinum group elements (PGE). It consisted of additional claim staking, grid layout, mapping, geochemical soil sampling, rock sampling, geophysical surveys and road construction. Mapping in creek cuts and old bulldozer trenches traced a mineralized ultramafic sill intermittently over a 750 m strike length and showed that semi-massive to massive sulphide lenses are developed irregularly along its footwall contact. Soil geochemistry was relatively ineffective due to a thick blanket of unmineralized talus in the main area of interest and widespread glacial terraces to the west. The geophysical surveys showed that the mineralized sill is marked by strong magnetic highs with coincident VLF-EM conductors and that similar anomalies extend 3 km further to the west under the glacial terrace. The best assay obtained in 1987 was 0.57% Cu, 2.51% Ni and 0.051 oz/ton Pt and 0.093 oz/ton Pd over 1.5 m from the Airways Showing. In addition to the Ni-Cu-PGE exploration, a few mandays were spent prospecting for gold on the Eugene claims. This work returned strongly anomalous values (greater than 9000 ppb Au) from three consecutive soil samples taken over a 75 m strike length below a quartz- carbonate alteration zone developed in pyroclastic volcanic rocks.

The 1988 exploration program was also funded by Pak-Man and Rockridge and was performed between early June and mid-September by an Archer, Cathro crew based at the Wellgreen camp. It consisted of road construction, bulldozer trenching and three diamond drill holes totalling 173.4 m on the Ni-Cu-PGE targets, plus a few additional mandays of prospecting on the Eugene gold showing. Appendix I contains the Author's Statement of Qualifications, while Appendix II lists personnel who worked on the project.

PROPERTY, LOCATION AND ACCESS

The Arch Property is located in southwestern Yukon, 320 km northwest of Whitehorse at latitude 60°27' and longitude 139°25' on NTS claim map 115G/6 as shown on Figures 1 and 2 on the following pages. It consists of 120 claims and adjoins the west end of the Wellgreen Property. The claims are registered with the Whitehorse Mining Recorder as follows:

Claim Name	Grant Numbers	Expiry Date*
Barny 1-6	YA94968-YA94973	February 11, 1996
Barny 7-14	YA96002-YA96009	February 11, 1996
Barny 15-32	YA96863-YA96880	February 11, 1996
Barny 33F-38F	YA97896-YA97901	February 11, 1996
Barny 39	YA97902	February 11, 1996
Barny 40F	YA97903	February 11, 1996
Barny 41	YA97904	February 11, 1996
Barny 42F	YA97905	February 11, 1996
Barny 43	YA97906	February 11, 1996
Barny 44F	YA97907	February 11, 1996
Barny 45	YA97908	February 11, 1996
Barny 46F	YA97909	February 11, 1996
Barny 47	YA97910	February 11, 1996
Barney 48F	YA97911	February 11, 1996
Barney 49	YA97912	February 11, 1996
Barny 50F	YB08307	February 11, 1996
Mus 1-6	YA94962-YA94967	February 11, 1996
Mus 7-16	YA96010-YA96019	February 11, 1996
Amp 1-10	YA95100-YA95109	February 11, 1996
Eugene 1-44	YB08097-YB08140	March 25, 1992

*Expiry dates include 1988 assessment which has been filed but not yet formally approved.

The Amp claims are held by Kluane Joint Venture under an option agreement from a prospector, Graham Davidson, while the other claims were acquired by staking. Claim locations are shown on Figure 3 in the pocket.

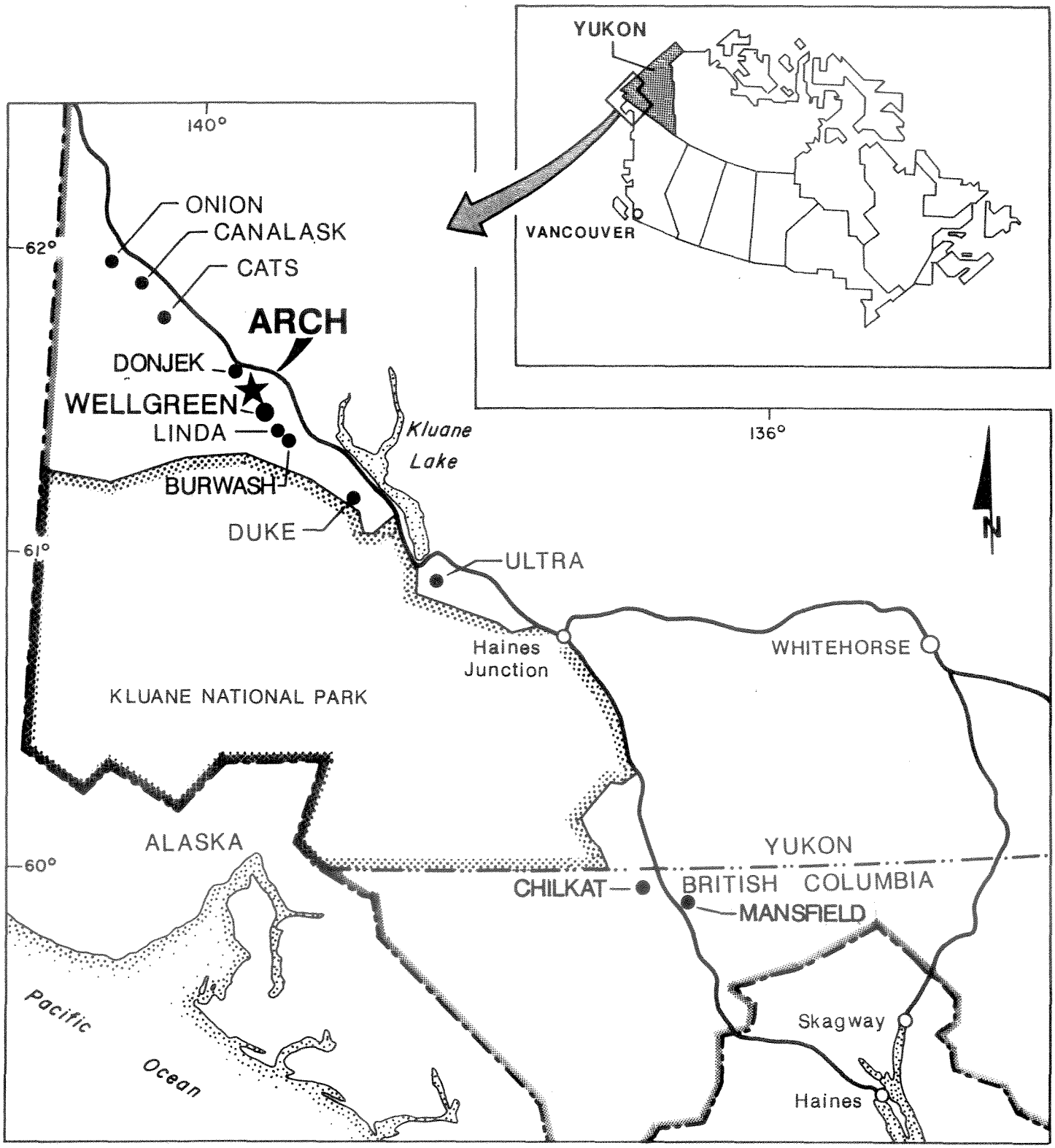


Figure 1

LOCATION

KLUANE Ni-Cu-PGE BELT

YUKON, CANADA

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

Figure 2

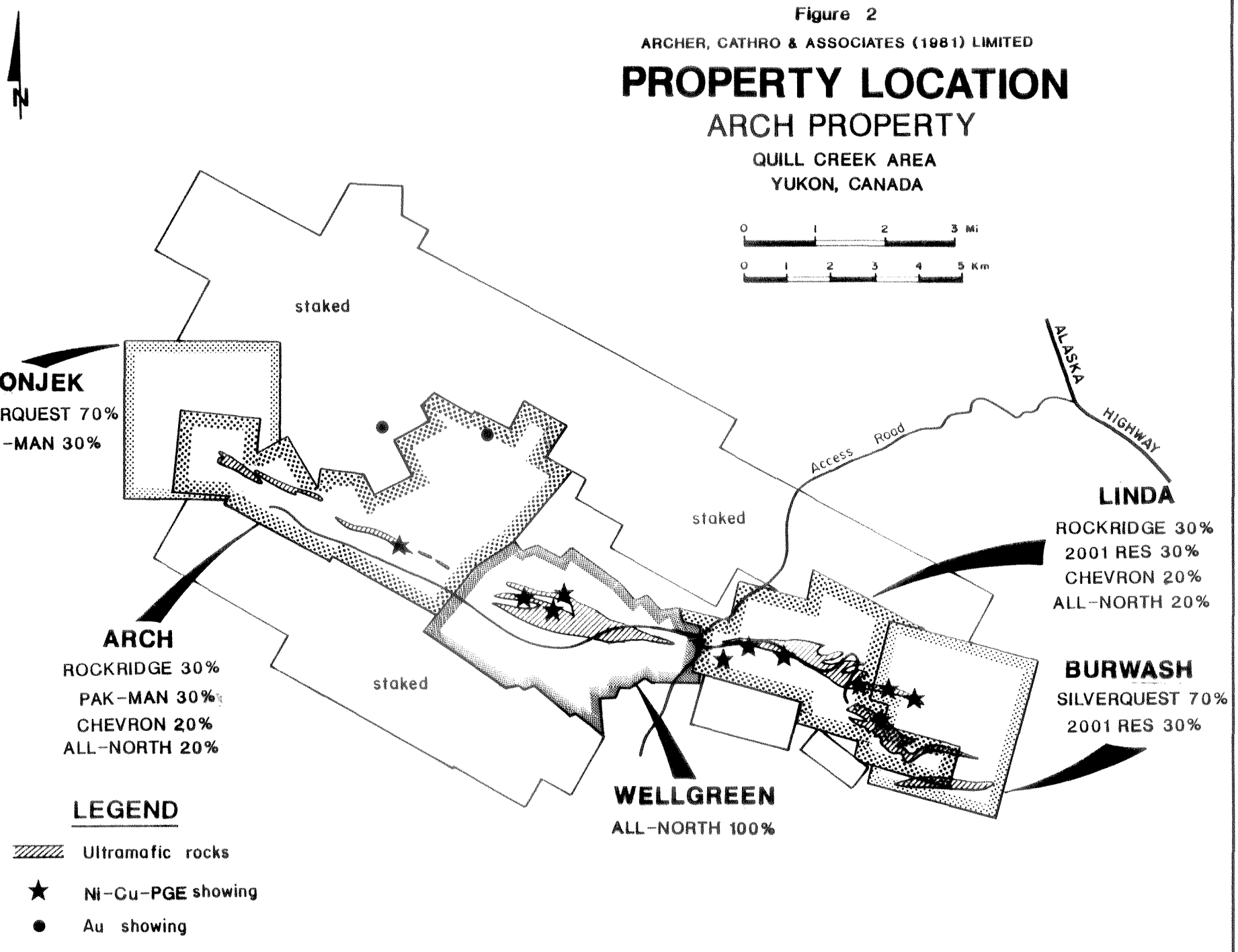
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

ARCH PROPERTY

QUILL CREEK AREA

YUKON, CANADA



Direct access to the main areas of interest is provided by a system of roads, suitable for four-wheel drive vehicles, that extends 5 km northwest from the Wellgreen camp, as shown on Figure 2. The Wellgreen camp is linked to the Alaska Highway by a 14 km long gravel road that was formerly used to haul ore from the mine to the mill. Extremely heavy rainfall in June and early July resulted in severe damage to both the Wellgreen and Arch roads, which caused delays in the program but has now been repaired.

HISTORY AND PREVIOUS WORK

The Arch Property was staked to cover three old mineral occurrences known as Airways, Musketeer and Conwest Showings.

The Airways Showing was originally staked in 1952 as the Enger, etc. claims by a syndicate composed of Prospectors Airways Ltd., Noranda Mines Limited and Kerr Addison Gold Mines Limited, which explored with prospecting, mapping and geophysical surveys and 143 m of drilling between 1953 and 1955. The targets were restaked as Nico claims by J. Brown in 1964 and again in 1966 as the Jiffy and Tippy claims by P. Versluce and C. Gibbons, who conducted geophysical and mapping programs and trenching between 1967 and 1970. In 1972, the showing was explored under option agreement by the Nickel Syndicate (Canadian Superior Exploration Ltd., Aquitaine Co. Canada Ltd., Home Oil Limited and Getty Mines, Limited), which conducted mapping, geochemical and geophysical surveys and trenching. W. Green restaked the showing as the AMC claims in 1976 and performed some hand trenching between 1977 and 1980.

The Musketeer and Conwest Showings were originally staked in 1952 as the Musketeer claims by Teck Exploration Company Limited 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 1967-68 by P. Versluce and C. Gibbons, who carried out road building and trenching in 1968. This property was explored by the Nickel Syndicate in 1972 in conjunction with the work on the neighboring Airways Showing.

GEOMORPHOLOGY

The property covers parts of two major drainages, Arch Creek, a west-northwest flowing tributary of the Donjek River, and Swede Johnson Creek, a north-flowing tributary of the Kluane River. The two drainages are separated by a northwest-trending ridge with numerous spurs. Elevations range from 1070 m along the floors of the creeks to 1980 m on the ridge crest. Outcrop is best developed on ridge crests, north-facing slopes and actively eroding creek cuts. South-facing slopes are generally talus covered while the main creeks are flanked by glacial terraces. Soil development is poor and vegetation is limited to stunted black spruce and poplar on the floors of the larger creeks, giving way to buckbrush and slide alder on the lower slopes, and moss and lichens at higher elevations.

REGIONAL GEOLOGY

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 belt 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 to 17 km wide belt.

Geology is summarized in Table I on the following page. Oldest exposed bedrock is Pennsylvanian to Permian Skolai Group andesitic volcanic and volcaniclastic rocks (Station Creek Fm) grading upward to clastic sedimentary rocks and limestone (Hasen Creek Fm). These are overlain unconformably by Upper Triassic Nikolai Group basalt and limestone with infrequent gypsum horizons. All are intruded by Cretaceous granodiorite plutons and Oligocene porphyritic latite to trachyte dykes and small stocks.

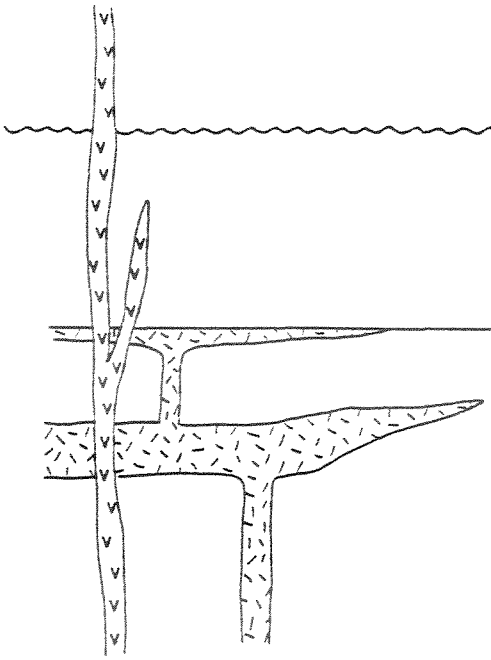
Two types of mafic and ultramafic intrusions are present:

i) the White River, Quill Creek and Tatamagouche Creek Ultramafic Complexes are differentiated Lower Triassic sills that intrude Station Creek Fm and Hasen Creek Fm sedimentary and volcaniclastic rocks. They typically consist of strongly serpentinized dunite, peridotite and lesser marginal facies gabbro and/or clinopyroxenite. The complexes are folded and dismembered by faults, reaching maximum thicknesses of about 250 m and lengths up to 25 km.

Mineral constituents in the ultramafic rocks are olivine, clinopyroxene, orthopyroxene, biotite, plagioclase and amphibole with minor magnetite and sulphides. The gabbro phases consist of clinopyroxene

TABLE I

TABLE OF FORMATIONS - KLUANE Ni-Cu-PGE BELT



Upper Triassic

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

unconformity

Lower Permian

Hasen Creek Formation - siliceous argillite, sandstone, quartzite, limestone and conglomerate

Pennsylvanian and(?) Permian

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

INTRUSIVE ROCKS

Oligocene

not shown — biotite quartz latite porphyry to trachyte dykes and small stocks

Cretaceous

not shown — biotite-hornblende granodiorite, biotite-hornblende diorite and hornblende-biotite quartz diorite stocks

Upper Triassic

 medium-grained diabasic gabbro dykes and small stocks; probably feeders for Nikolai Group basalts

Lower Triassic

 differentiated ultramafic sills consisting mainly of peridotite with lesser dunite, gabbro and clinopyroxinite

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 clinopyroxenite phases are generally compact and massive. Most Ni-Cu-PGE occurrences in the Kluane Ranges 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. According to S. Campbell (1981 Ph.D. Thesis, University of British Columbia), the compositions fall very close to the fields for komatiites. Primary phlogopite biotite from the Quill Creek Complex yielded a potassium argon age determination of 224 $\pm$ 8 Ma (Lower Triassic);

ii) dykes and small stocks of medium-grained diabasic Maple Creek Gabbro occur throughout Station Creek Fm, Hasen Creek Fm and Nikolai Group. They 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.

PROPERTY GEOLOGY

The claims cover a northwest-trending sequence of Pennsylvanian to Upper Triassic sedimentary and volcanic rocks that are intruded by a series of semi-conformable, mafic and ultramafic sills, as shown on Figure 4 in the pocket. These sills form the western end of the 20 km long Quill Creek Ultramafic Complex.

Most showings on the property are associated with a 100 m thick sill that is intermittently exposed in creek cuts and trenches for a 750 m strike length, as shown on Figure 5 in the pocket. Two smaller ultramafic bodies were mapped southeast of the main sill, while three more occur to the northwest. Geophysical surveys suggest that additional sills are likely present but are covered by glacial till.

The sills are predominantly composed of strongly magnetic, dark greenish-black, medium-grained, moderately to strongly serpentinized feldspathic peridotite. These rocks weather dark green with brown limonite spots and frequently exhibit white to greenish-white calcite coatings. Slickensided, scaly fractures are common and readily evident in weathered material. Olivine gabbro is generally present as a chilled phase at the northern margin of the main sill and hosts the higher grade Ni-Cu-PGE mineralization.

The main sill dips steeply to moderately southwest and appears to have intruded the conformable contact between the Station Creek and Hasen Creek Fms. On the neighboring 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 Hasen Creek Fm siliceous sediments which include argillite, mudstone and quartzite, particularly along the mineralized contact. 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 hanging wall 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.

A second but distinctively different variety of gabbro, called the Maple Creek Gabbro, also forms sills on the property. This unit, which is composed mainly of chloritized pyroxenes and altered plagioclase laths with occasional small patches of serpentine, occurs uphill from the main sill in the central and southeast parts of the property. Fine-grained phases closely resemble volcanic rocks. The Maple Creek Gabbro has been interpreted in regional studies as a feeder to the Upper Triassic Nikolai Group volcanic rocks.

The Nikolai Group basaltic flows and related sedimentary rocks unconformably overlie the other units and are limited to a few outcrops in the southern part of the property and a thick sequence on the Eugene claims. These rocks are rich in ferromagnesian minerals and commonly exhibit amygdules that are partly filled with calcite and limonite.

A series of strong, near vertical faults trend northwesterly across the property and cut all units. They post-date the Ni-Cu-PGE mineralization but host some copper showings.

An erosional remnant of Pleistocene glacial-fluvial gravel covers a large area along the lower north side of Arch Creek at the northwest end of the claim block. The gravel is well sorted and gently dips in a downstream direction reaching maximum thicknesses of about 30 m.

MINERALIZATION

Prospecting and bulldozer trenching have identified eight Ni-Cu-PGE occurrences along the footwall contact of the main sill and one at the hanging wall contact. These occurrences are described below while their locations are shown on Figure 5.

The Airways Showing is exposed in shallow hand trenches and an old bulldozer trench. It consists of a 10 m long, up to 1.5 m wide lens of massive pyrrhotite with chalcopyrite associated with a narrow gabbro chill margin along the footwall of the sill. Massive sulphide talus can be traced intermittently up a vegetated slope to the northwest but to the southeast possible extensions are completely obscured by unmineralized talus. A chip sample taken across the lens in 1987 assayed 0.57% Cu, 2.51% Ni, 0.051 oz/ton Pt, 0.093 oz/ton Pd and 0.002 oz/ton Au over 1.5 m while a specimen collected by F.A. Campbell in 1955, which was assayed for PGE by Falconbridge, returned 0.045 oz/ton Pt, 0.044 oz/ton Pd and 0.012 oz/ton Rh. A 3 m wide, malachite stained fracture zone is developed in footwall quartzite adjacent to the lens and a sample from it assayed 0.44% Cu and 1.20% Ni but only 0.001 oz/ton Pt, 0.004 oz/ton Pd and 0.001 opt Au. Sheared peridotite forms the hanging wall of the zone and is weakly mineralized with disseminated sulphides for 20 to 30 m widths. A chip sample of this material taken in 1987 yielded 0.25% Cu, 0.36% Ni, 0.012 oz/ton Pt, 0.016 oz/ton Pd and 0.002 oz/ton Au over 5 m while a 1988 diamond drill hole (A88-02) returned similar values over a wider interval, as described in the Diamond Drilling section.

The NF Showing was discovered in 1988 in a bulldozer trench 50 m southeast of the Airways Showing on the other side of a deeply eroded creek. It consists of thick crusts of dark brown limonite, with rare sulphide patches, on fractures in highly weathered ultramafic rock along the footwall of the sill. A sample of limonitic material returned 0.73% Cu, 0.51% Ni, 0.073 oz/ton Pt and 0.076 oz/ton Pd over 1.5 m.

The NFR Showing lies 170 m east of the NF Showing near the east end of the main sill. Mineralization is limited to a few specimens of heavily disseminated gabbro float collected from the ribs of a bulldozer trench. A sample of the best mineralization assayed 2.98% Cu and 2.22% Ni but only 0.002 oz/ton Pt and 0.060 oz/ton Pd. No mineralization was intersected on the floor of the trench.

The KK and Lofty Showings are exposed in a road cut and adjacent bulldozer trench 140 m northwest of the Airways Showing. Both consist of strongly limonitic gabbro forming a chilled margin along the base of the sill. A chip sample across the KK Showing yielded 0.58% Cu, 0.50% Ni and 0.018 oz/ton Pt and 0.036 oz/ton Pd over 4 m, while a specimen from the Lofty returned 0.80% Cu, 0.60% Ni, 0.045 oz/ton Pt and 0.067 oz/ton Pd.

The FW Showing lies 170 m west-northwest of the KK Showing and is comprised of two limonite-rich gabbro outcrops developed where a small creek has eroded through the footwall contact of the sill. A chip sample from the east side of the creek assayed 0.80% Cu, 0.47% Ni, 0.027 oz/ton Pt and 0.041 oz/ton Pd over 2 m, while one from the west side of the creek returned 0.23% Cu, 0.34% Ni, 0.163 oz/ton Pt and 0.061 oz/ton Pd over 1 m.

The Yoshi Showing consists of weakly malachite stained, limonite boxwork fragments collected from a road cut 100 m west of the FW Showing. The mineralized float appears to have been derived from an unexposed zone along the footwall contact. A sample containing several fragments yielded 1.20% Cu, 0.13% Ni, 0.063 oz/ton Pt and 0.100 oz/ton Pt.

The Condie Showing is located in a creek cut 130 m west of the Yoshi Showing. It includes several mineralized exposures developed in narrow gabbro chill margins at both the footwall and hanging wall contacts of the sill. Chip samples from the Upper Condie Showing at the footwall contact assayed up to 0.76% Cu, 0.60% Ni, 0.027 oz/ton Pt and 0.105 oz/ton Pd over 1 m, while those from the Lower Condie Showing along the hanging wall contact 100 m to the south returned up to 0.38% Cu, 0.97% Ni, 0.048 oz/ton Pt and 0.035 oz/ton Pd.

The Condie Showing is the most westerly of the showings on the main sill but it is also the last place that the contacts are exposed. Magnetic and VLF response suggests that the sill extends at least 500 m farther west.

The weighted average grade of the chip samples taken from showings along the footwall contact of the sill is 0.66% Cu, 0.81% Ni, 0.034 oz/ton Pt and 0.059 oz/ton Pd over 2.0 m. In most cases, weakly mineralized gabbro and peridotite adjacent to the showings were not sampled; however, two samples were taken near the Upper Condie and Airways Showings and averaged 0.24% Cu, 0.32% Ni, 0.14 oz/ton Pd and 0.021 oz/ton Pt over 5 m. Petrographic studies and metallurgical testing of the Wellgreen ores have shown that most of the metals in the mafic and ultramafic rocks occur as sulphide minerals and, therefore, are potentially recoverable.

Work elsewhere on the property has located small copper occurrences in a number of areas, plus a gold showing on the Eugene claims. The Musketeer and Conwest Showings, which date from 1952, reportedly contain nickel and copper but resampling of the Musketeer in 1987 returned only 0.02% Cu, 0.13% Ni, trace Pt, 0.001 oz/ton Pd and trace Au. Exploration in 1988 west of the Musketeer Showing discovered up to 1 m thick, weakly malachite stained, massive pyrite lenses in argillite adjacent to ultramafic sills; however, assays returned low values for all metals.

The Eugene gold occurrence is associated with up to 3 m thick quartz-carbonate alteration zones developed in Nikolai Group volcanic rocks. The zones tend to be sub-horizontal or vertical and typically consist of a poorly developed stockwork of white quartz veinlets surrounded by tan carbonate altered volcanics. Fine grains of pyrite, chalcopyrite and arsenopyrite are rare. Although soils taken directly below the zones returned strongly anomalous gold values (greater than 10,000 ppb) and individual rock specimens assayed up to 5000 ppb Au, seven chip samples taken from different parts of the zones returned disappointing values (40 to 420 ppb Au). Representative specimens of other rock types in the talus all returned near background values. Arsenic was the only metal other than gold that was present in anomalous levels, returned 30 to 470 ppb Au from the chip samples.

DIAMOND DRILLING

The drilling was done by E. Caron Diamond Drilling Limited of Whitehorse using a unitized, wireline equipped Longyear 38 drill. Bulldozer support for moves, road construction and drill site preparation was provided by Caterpillar D7 or D8 bulldozers on contract to the Wellgreen Project or a Caterpillar D6 bulldozer owned by a local placer miner, depending upon equipment availability and the work required. All holes were drilled using HQ equipment with mud and water supply was not a problem. Recoveries averaged 72% but varied greatly from interval to interval.

The drill program was conducted between August 12 and 18 and consisted of three holes totalling 173.4 m. The first hole was drilled on the Amp claims and tested a strong magnetic high and coincident VLF conductor which occur in an area blanketed by glacial till. The other two holes explored beneath massive sulphide lenses developed along the footwall contact of the main ultramafic sill. Figure 4 shows the location of the drill holes, while Figures 6, 7 and 8 on the following pages are cross sections illustrating drill results. Assay certificates are included as Appendix III and drill logs are in Appendix IV.

All holes intersected weak to moderately mineralized ultramafic sills but failed to intersect any massive sulphide lenses. Hole A88-1 cut a 25 m wide strongly serpentinized sill that averaged 0.03% Cu, 0.22% Ni, 0.004 oz/ton Pt and 0.004 oz/ton Pd across its entire width. Although these assays are sub-economic, they are typical of values in peridotites adjacent to the ore bodies at Wellgreen. Hole A88-2, which tested downdip and slightly along strike from the Airways Showing intersected peridotite and gabbro with weakly disseminated

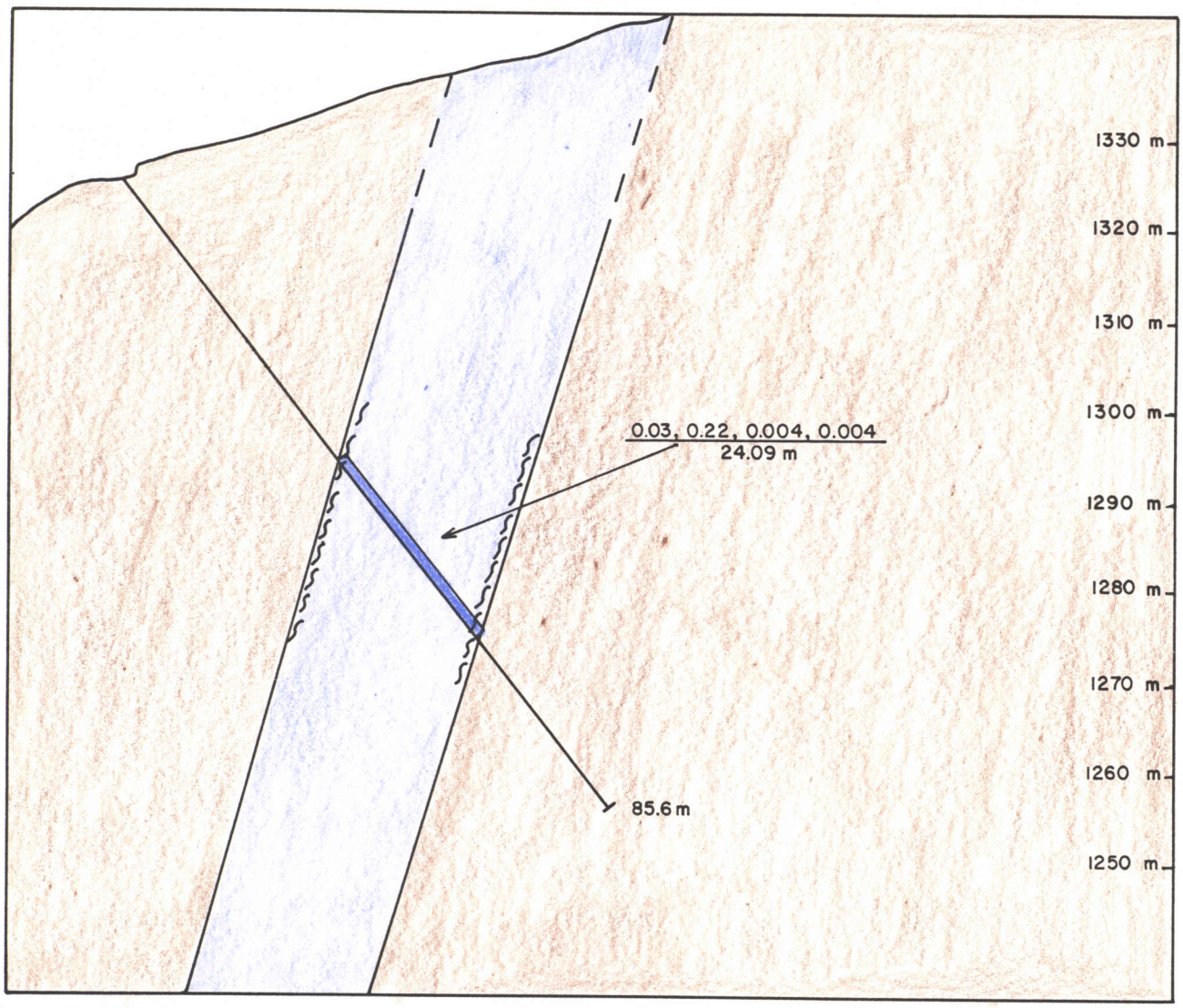


Figure 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DDH A88-01

ARCH PROPERTY

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

Ultramafic Rocks

Quartzite

0.03, 0.22, 0.004, 0.004
%Cu, %Ni, opt Pt, opt Pd

0 10 20 30 40 50 Metres

To accompany report dated Nov./88

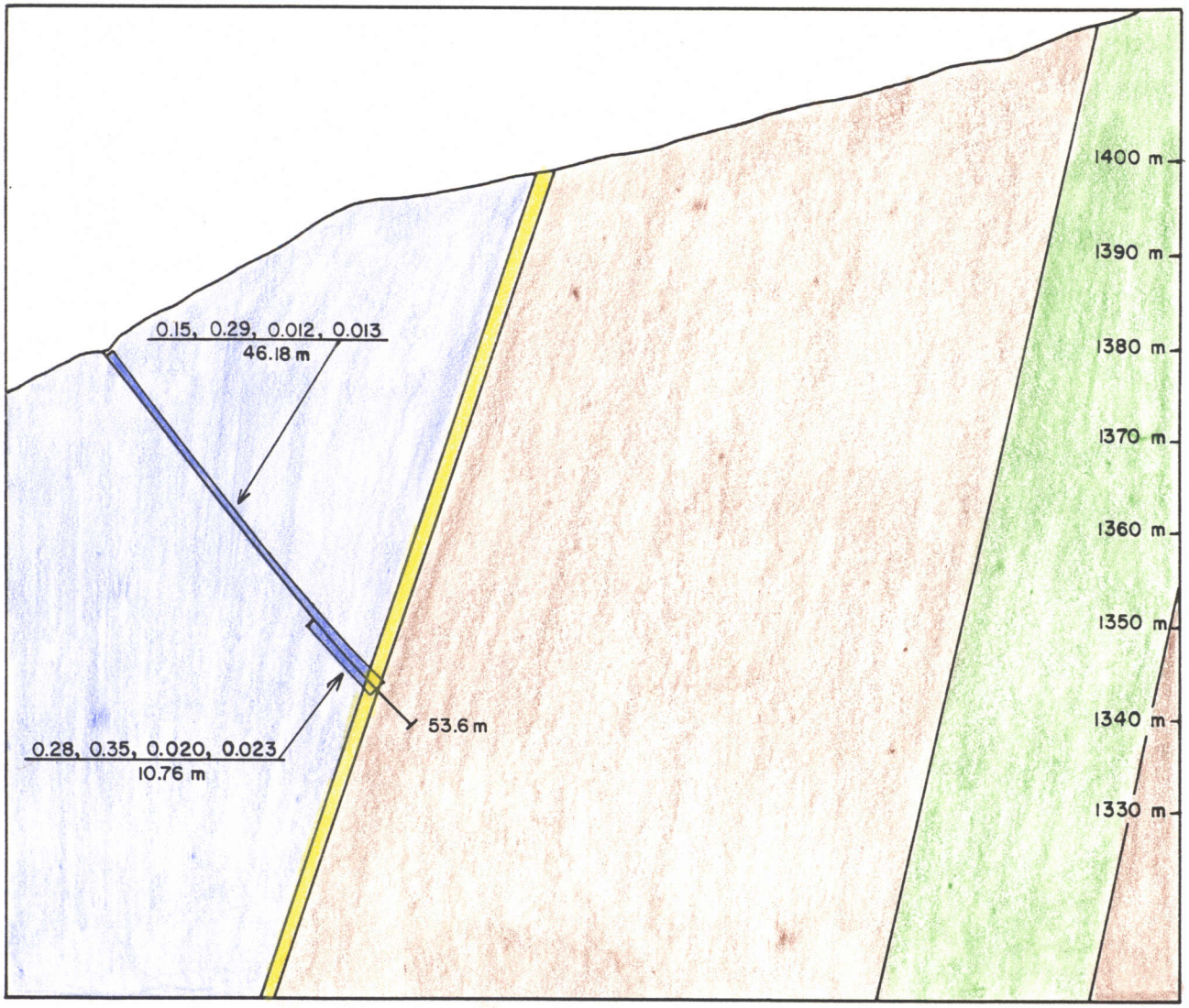


Figure 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DDH A88-02

ARCH PROPERTY

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

Ultramafic Rocks

Gabbro

Quartzite

Intermediate Volcanics

0.28, 0.35, 0.020, 0.023
% Cu , %Ni, opt Pt, opt Pd

0 10 20 30 40 50 Metres

To accompany report dated Nov./88

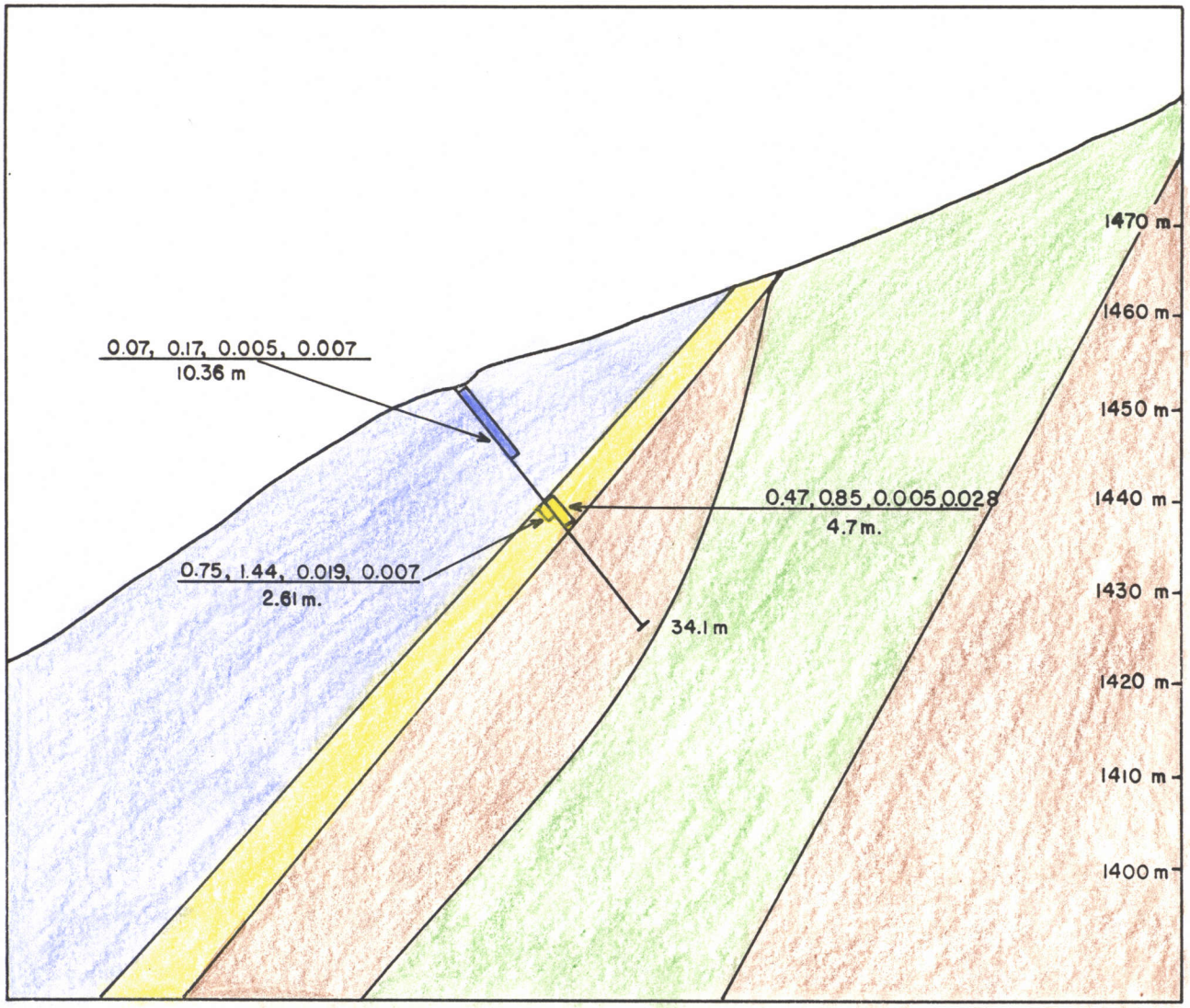


Figure 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DDH A88-03

ARCH PROPERTY

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

Ultramafic Rocks

Gabbro

Quartzite

Intermediate Volcanics

0.75, 1.44, 0.019, 0.046
% Cu, % Ni, opt Pt, opt Pd

0 10 20 30 40 50 Metres

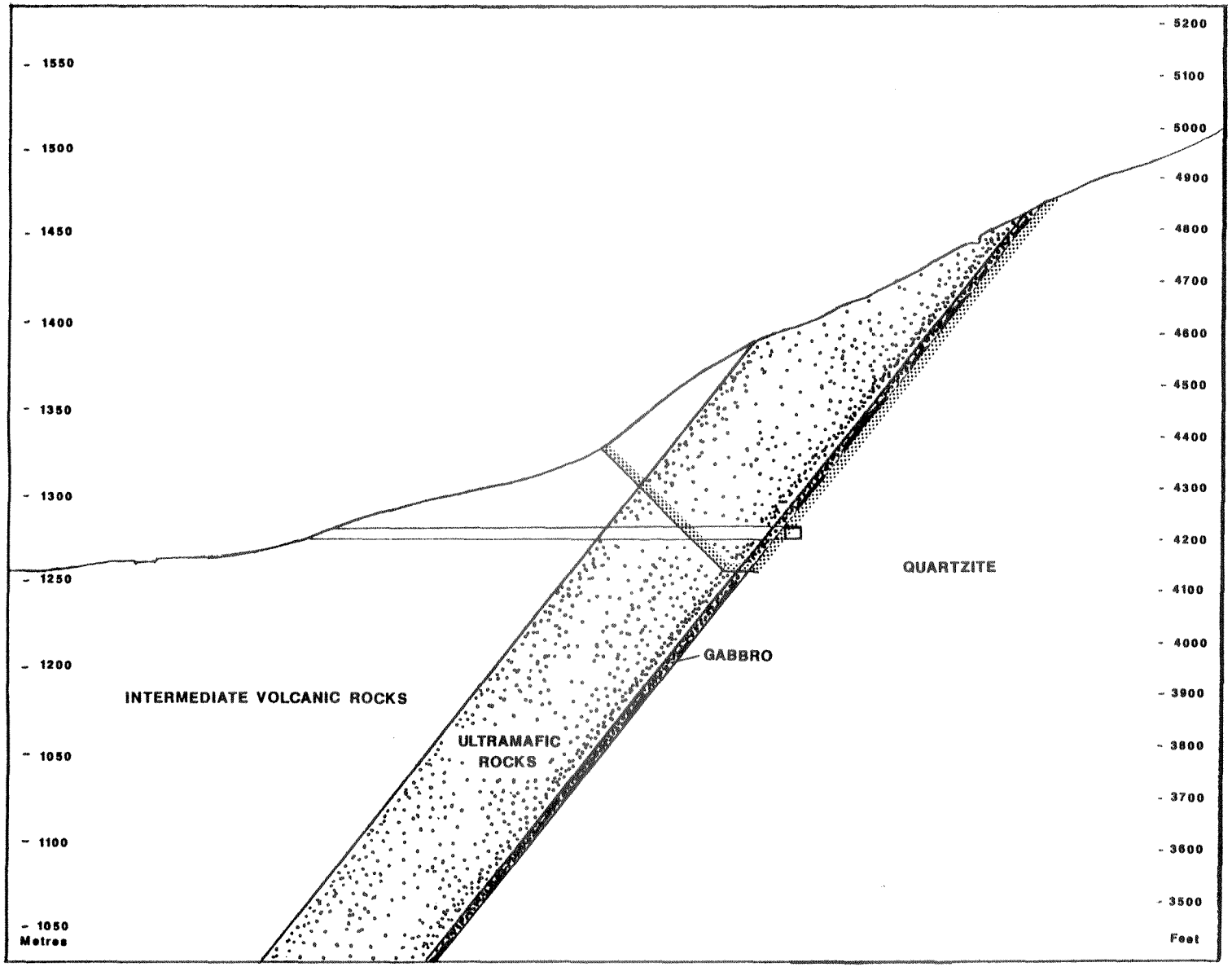
To accompany report dated Nov./88

sulphides. It averaged 0.15% Cu, 0.29% Ni, 0.012 oz/ton Pt and 0.013 oz/ton Pd across its entire 41 m length, including 0.28% Cu, 0.35% Ni, 0.020 oz/ton Pt and 0.023 oz/ton Pd across the last 10.8 m before the footwall contact. These values are of direct interest, especially considering the sill exhibits a moderate dip which is subparallel to the slope of the hill thus resulting in a low stripping ratio. Hole A88-3 cut sheared peridotite with a 4.7 m wide gabbroic chilled margin along the footwall contact. Recovery was poor in peridotite and the part that was sampled returned only weakly anomalous values; however, a 2.6 m wide band of the gabbro containing heavily disseminated sulphides returned a highly significant 0.75% Cu, 1.44% Ni, 0.019 oz/ton Pt and 0.046 oz/ton Pd.

SUMMARY AND RECOMMENDATIONS

The Arch Property covers the west end of the 20 km long Quill Creek Ultramafic Complex, which is emerging as a major Ni-Cu-PGE camp. The complex consists of a series of en echelon sills hosting numerous large, pyrrhotite-pentlandite-chalcopyrite occurrences, including those comprising the Wellgreen Deposit. Feasibility studies are currently underway at Wellgreen to determine whether or not sufficient reserves have been outlined to justify an open pit mine, mill and plant to melt concentrates to produce a matte.

Geological mapping and geophysical surveys on the Arch Property have outlined several ultramafic sills and anomalies apparently caused by buried sills. Bulldozer trenching and diamond drilling have shown that the largest and best exposed sill contains widespread disseminated mineralization with heavier disseminations and massive sulphide lenses developed in gabbroic chilled margins. The gross metal values of some of the widely disseminated mineralization (notably the weakly mineralized peridotite and gabbro in Hole A88-2) is about $50 U.S./ton at current prices. Material of this grade might be economically mined by open pit methods assuming enough tons are present, the metals are primarily occurring in sulphide minerals that are easily separated from the rock, and the ore could be custom milled at Wellgreen. Fortunately the sill exhibits a moderate southerly dip subparallel to the slope of the hill and, therefore, stripping ratios would be minimized, as shown on Figure 9 on the following page. Heavily disseminated and massive sulphide mineralization could be mined with the lower grade mineralization from an open pit mine or selectively mined as an underground operation, once again assuming that enough tons are present to justify the development costs and a mill is operating



LEGEND

- Possible open pit outline
- Possible underground cross-cut
- Massive sulphide lenses
- Disseminated sulphides

Figure 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DIAGRAMATIC CROSS-SECTION

ARCH PROPERTY

PAK-MAN RESOURCES INC.

ROCKRIDGE MINING CORPORATION

KLUANE JOINT VENTURE

0 50 100 150 Metres

at Wellgreen. The geometry of the mineralization is relatively favourable for underground mining as the higher grade ore consistently follows the footwall contact, a fairly short (approximately 250 m) crosscut provides 200 to 300 m of backs, the vein is dipping steeply enough that the broken rock in stopes should move by gravity alone and much of the development can be done in the competent footwall quartzite unit, as illustrated on Figure 9. The biggest potential problems with underground mining would probably be caving and dilution from the weakly mineralized hanging wall peridotites. Considering that the sill is mineralized in most exposures over a 750 m strike length and is open in both direction, tonnage potential is excellent.

The next stage of exploration should consist of systematic diamond drilling along the main sill to establish its overall grade and the density of high grade lenses along the contacts, coupled with a few "wild cat" holes to test additional geophysical targets on the glacial terrane west of the main sill. Metallurgical tests should be performed once reserves are outlined to determine probable recoveries from different ore types. The cost of the program is estimated at $832,000, as calculated on the following page.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

/mc

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

ARCH JOINT VENTURE
PROPOSED BUDGET
NOVEMBER, 1988

Diamond Drilling 300 m of diamond drilling with HQ & NQ equipment at $150/m	$450,000
Bulldozer 500 hrs with a ripper-equipped D7E bulldozer at $125/hr, fuel and operator included	62,500
Labour 500 hrs of senior supervision, geologist for 150 days, 2 fieldmen for 100 days each, cook for 100 days	105,000
Field Expenses - 1000 mandays at $65/day	65,000
Travel and Transport	32,500
Metallurgical Testing	25,000
Assays 300 samples geochemically analyzed for Cu, Ni, Pt, Pd at $20/sample; 100 samples assayed for Cu, Ni, Pt, Pd at $50/sample	11,000
Drafting and Printing	15,000
Orthophotos and Surveying	20,000
Assessment	5,000
Management	41,000
	$832,000

APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 1980 with a B.Sc.
2. From 1971 to present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, I 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

LIST OF PERSONNEL

NAME	POSITION
Rob Carne	Geologist
Doug Eaton	Geologist
Betsy Fletcher	Geologist
Mary MacLellan	Geologist
Kevin Stewart	Fieldman
Kim Stewart	Fieldperson

APPENDIX III

ASSAY CERTIFICATES

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: V88-04166.0

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pt PPB	Pd PPB	Cu PPM	Ni PPM	Au 30g PPB
R2 S11001		15	10	2000	250	
R2 S11002		190	90	12500	380	
R2 S11003		<15	4	86	95	
R2 S11004		2100	740	4000	2400	
R2 S11005		30	10	240	42	62
R2 S11006		80	25	310	130	76
R2 S11007		1550	2300	8000	6000	
R2 S11008		80	2065	>20000	>20000	

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Certificate of Analysis

REPORT: V88-04166.6

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PCT	Ni PCT
R? S11008		2.98	2.22

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Certificate of Analysis

REPORT: V88-04115.4

PROJECT: ARCH

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Pt OPT	Pd OPT	Cu PCT	Ni PCT
R2 H43488		0.002	0.25				
R2 H43489				0.035	0.072	0.67	1.74
R2 H43490				<0.002	<0.002	0.06	0.02
R2 H43491				0.021	0.060	2.84	0.24
R2 H43492				0.063	0.100	1.20	0.13
R2 H43493				0.095	0.380	0.33	0.42
R2 H43494				0.068	0.312	0.52	0.47

Registered Assayer, Province of British Columbia

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BONDAR-CLEGG

Certificate of Analysis

REPORT: V88-05851.4

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pt OPT	Pd OPT	Cu PCT	Ni PCT
R2 S11033		0.008	0.021	0.90	0.34
R2 S11034		0.021	0.041	0.47	0.55

Registered Assayer, Province of British Co

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: V88-04400.0

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT PPB	PD PPB	CU PPM	NI PPM
R2 911009		<15	4	18	27
R2 911010		<15	4	780	36
R2 911011		15	4	5400	29
R2 911012		15	5	650	102

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BONDAR-CLEGG

Certificate of Analysis

REPORT: V88-04497.4

PROJECT: ARCH

SAMPLE NUMBER	ELEMENT UNITS	Pt OPT	Pd OPT	Cu PCT	Ni PCT
R2 911018		0.023	0.011	0.41	0.39

Chemex Labs Ltd.
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BRITISH COLUMBIA, CANADA V7J-2C1
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BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project : ARCH
Comments:

Page [redacted]: 1
Tot. P[redacted]: 1
Date : 20-AUG-88
Invoice # : I-8820632
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8820632

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
H 53319	205 --	< 5
H 53320	205 --	175
H 53321	205 --	5000
H 53322	205 --	75
H 53323	205 --	15
H 53324	205 --	< 5
H 53325	205 --	< 5
H 53326	205 --	< 5
H 53327	205 --	35
H 53328	205 --	< 5
H 53331	205 --	10
H 53335	205 --	15

CERTIFICATION : [signature]

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BONDAR-CLEGG

Geochemical
Lab Report

REPORT: V88-07230.0

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT PPB	PD PPB	CU PPM	NI PPM
D2 S14995		150	165	357	2150
D2 S14996		120	135	273	2115
D2 S14997		150	160	447	2085
D2 S14998		130	165	394	2500
D2 S14999		120	80	184	1874
D2 S15000		130	160	256	2230

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: VBB-86752.0

PROJECT: ANCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT PPB	PD PPB	CU PPM	NI PPM
D2 S14934		80	95	486	1963
D2 S14935		300	320	951	2450
D2 S14936		320	350	1196	2700
D2 S14937		160	190	632	2162
D2 S14938		240	240	633	2350
D2 S14939		260	330	1121	3100
D2 S14940		450	470	1641	3250
D2 S14941		450	460	1465	3200
D2 S14942		500	570	2070	3150
D2 S14943		850	1070	3420	3650
D2 S14944		720	620	3480	4100

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BONDAR CLEGG

Geochemical Lab Report

REPORT: V88-06728.0

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT PPB	PD PPB	CU PPM	NI PPM
R2 S11043		<15	2	267	26
D2 S11422		110	160	498	1600
D2 S11423		220	320	793	1800
D2 S11425		160	200	1266	1100

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Geochemical Lab Report

REPORT: V88-06728.4

PROJECT: ARCH PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT OPT	PD OPT	CU PCT	NI PCT
D2 911424		0.019	0.046	0.75	1.44

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[redacted] 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project : ARCH/EUGENE
Comments:

Page No. [redacted]
Tot. Pa[redacted]
Date [redacted]29-SEP-88
Invoice # : I-8824198
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8824198

SAMPLE DESCRIPTION	PREP CODE		Au ppb AFS	Pd ppb AFS	Pt ppb AFS
S-11056	205	---	120	4	< 5
S-11057	205	---	420	8	< 5
S-11058	205	---	120	16	< 5
S-11059	205	---	40	16	< 5
S-11060	205	---	140	12	< 5
S-11061	205	---	280	18	< 5
S-11062	205	---	52	12	< 5

CERTIFICATION : B. Caplin

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BRITISH COLUMBIA, CANADA V7J-2C1
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T[illegible]RCHER CATHRO & ASSOC. (1981) LTD.
[illegible]OX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project : ARCH/EUGENE
Comments:

Page No[illegible] -A
Tot. P[illegible]
Date [illegible] :29-SEP-88
Invoice # :I-8824199
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8824199

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
S-11056	299	238	0.27	< 0.2	30	20	< 0.5	4	1.97	< 0.5	6	240	35	2.09	< 10	< 1	0.05	10	0.74	412	< 1
S-11057	299	238	0.23	< 0.2	470	40	< 0.5	< 2	2.17	1.0	14	203	85	2.57	< 10	< 1	0.06	10	0.72	419	< 1
S-11058	299	238	0.53	< 0.2	125	40	< 0.5	8	5.86	< 0.5	28	67	91	6.95	10	1	0.07	< 10	2.54	1130	< 1
S-11059	299	238	1.85	< 0.2	150	60	< 0.5	< 2	6.01	< 0.5	27	106	87	7.37	10	< 1	0.13	< 10	2.74	1250	< 1
S-11060	299	238	1.16	< 0.2	80	60	< 0.5	< 2	5.53	< 0.5	21	130	28	5.76	10	1	0.15	< 10	2.16	950	< 1
S-11061	299	238	1.02	< 0.2	150	70	< 0.5	10	5.69	< 0.5	28	79	117	6.35	10	1	0.23	< 10	2.49	1235	< 1
S-11062	299	238	1.75	< 0.2	35	60	< 0.5	< 2	6.67	< 0.5	29	125	144	6.29	20	1	0.16	< 10	2.82	1440	< 1

CERTIFICATION : B. Caplan

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WHITEHORSE, Y.T.
Y1A 3S9
Project : ARCH/EUGENE
Comments:

Page N[redacted]:-B
Tot. P[redacted]:1
Date :29-SEP-88
Invoice # :I-8824199
P.O # :NONE

CERTIFICATE OF ANALYSIS A8824199

SAMPLE DESCRIPTION	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S-11056	299	238	0.03	11	110	30	< 5	5	46	< 0.01	< 10	< 10	18	< 5	34
S-11057	299	238	0.02	20	290	32	< 5	8	47	< 0.01	< 10	< 10	15	< 5	51
S-11058	299	238	0.08	41	510	10	< 5	25	121	< 0.01	< 10	< 10	52	< 5	111
S-11059	299	238	0.03	34	420	10	< 5	27	123	< 0.01	< 10	< 10	140	< 5	88
S-11060	299	238	0.04	27	480	4	< 5	20	114	< 0.01	< 10	< 10	59	< 5	67
S-11061	299	238	0.04	40	1080	< 2	< 5	20	176	< 0.01	< 10	< 10	61	< 5	80
S-11062	299	238	0.03	45	660	8	< 5	21	119	< 0.01	< 10	< 10	116	< 5	77

CERTIFICATION : B. Campbell

APPENDIX IV

DRILL LOGS

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED PROJECT ARCH PROPERTY ARCH HOLE NO. A 88-01 Page 1 of 1

Elevation
Coordinates
Dip -50°
Azimuth 020°

Drill Contractor E. CARON
Hole started 11/08/88 completed 14/08/88
Target: MAG. / VLF

Logged by Betsy Fletcher

Total depth 85.65m
Core size HQ

Depth (m)	% Recov	Visual Log	Struct	Lithology	Alteration	Vein and Alteration Mineralogy: PØ	Vein and Alteration Mineralogy: CP	Sample Number	Assay Interval	Assay Results: Cu(%)	Assay Results: Ni(%)	Assay Results: Pt(oz/t)	Assay Results: Pd(oz/t)
10				Argelite & inter-bedded tuff aphanitic w/ microphenocrysts									
20													
30													
				Tuff w/ PØ 1-2 mm blebs LMST		1%		14995	4.90	0.04	0.22	0.004	0.005
40				Perd. very strongly sheared & serpentinized - - nearly 100% clay gouge				14996	4.10	0.03	0.21	0.003	0.004
50				mod millerite on fractures 58.64 - 64.31 m cut by felsite dykes				14997	5.54	0.04	0.21	0.004	0.005
60								14998	4.03	0.04	0.25	0.004	0.005
								14999	4.00	0.02	0.19	0.003	0.002
				Argl. w/ 1cm to 1 m tuff beds				15000	1.52	0.03	0.22	0.004	0.005
70				Limestone very strongly recrystallized w/ arg. interbeds									
80													
				Argl.									
90													

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED PROJECT ARCH PROPERTY ARCH HOLE NO. A 88-02 Page 1 of 1

Elevation
Coordinates
Dip -50°
Azimuth 020°

Drill Contractor E.CARON
Hole started 14/08/88 completed 16/08/88
Target: Airways showing

Logged by Betsy Fletcher

Total depth 53.64m
Core size HQ

Depth (m)	% Recov	Visual Log	Struct	Lithology	Alteration	Vein and Alteration Mineralogy PØ	CP	PN	ML	AZ	LI	Sample Number	Assay Interval	Assay Results Cu(%)	Ni(%)	Pt(oz/t)	Pd(oz/t)
10				Feldspathic Peridotite cumulate olivine with 15-25% interstitial sauseritized plag. 1-2% PØ Diss 5-10% Diss & stringers	strong serpentinization	1-2%						S 14934	5.18	0.05	0.20	0.002	0.002
												14935	4.57	0.10	0.25	0.009	0.009
20												14936	4.57	0.12	0.27	0.009	0.010
												14937	4.58	0.06	0.22	0.005	0.006
												14938	4.57	0.06	0.24	0.007	0.007
30				Peridotite cumulate olivine with 5-10% int. PL & 10-20% CX 2-4% diss PØ 2-5% diss MT	strong serpentinization	2-4%						14939	4.57	0.11	0.31	0.008	0.010
												14940	4.57	0.16	0.33	0.013	0.014
												14941	2.81	0.15	0.32	0.013	0.013
40				Clinopyroxenite Typical spotty CLPx Tex. Cx repl. by uralite 2-5% diss PØ 2-5% diss MT	strong serpentinization							14942	4.81	0.21	0.32	0.015	0.017
												14943	4.57	0.34	0.37	0.025	0.031
												14944	1.38	0.35	0.41	0.021	0.018
				Gabbro fine grained Cu PL & CX		1%	1%										
50			BD. 80° to CA.	Tuff (tuffaceous qzit.) Aphanitic w/p.g - microphenos		10%	5%										
60																	

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED PROJECT ARCH PROPERTY ARCH HOLE NO. A 88-03 Page 1 of 1

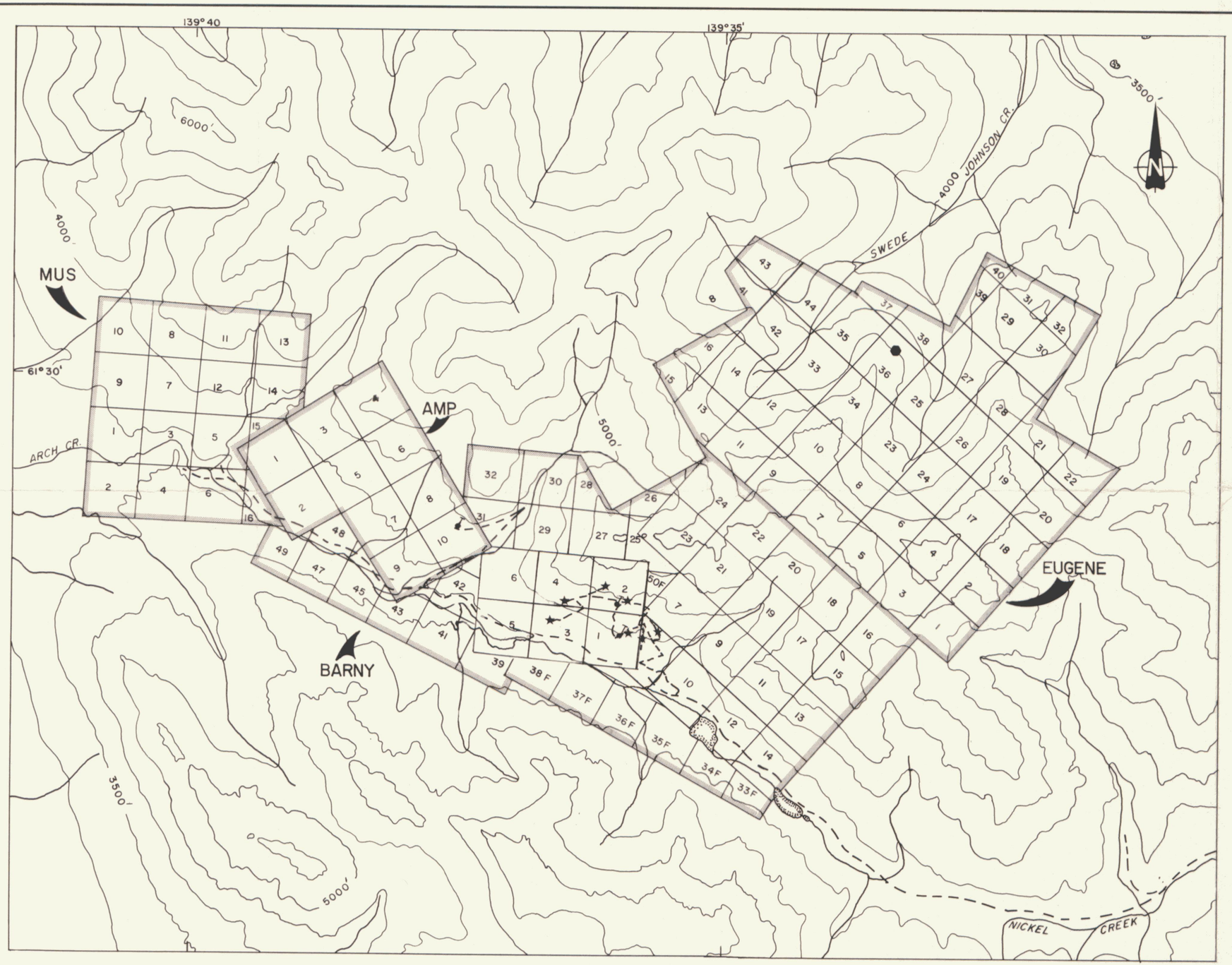
Elevation
Coordinates 24+40E
Dip -50°
Azimuth 020°

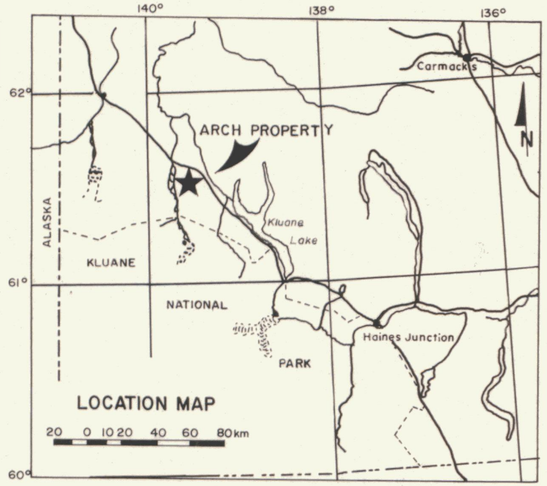
Drill Contractor E.CARON
Hole started 16/08/88 completed 18/08/88
Target: Geophysics Anomaly & KK showing

Logged by Betsy Fletcher

Total depth 34.1m
Core size HQ

Depth (m)	% Recov	Visual Log	Struct	Lithology	Alteration	Vein and Alteration Mineralogy PØ	CP	Sample Number	Assay Interval	Assay Results Cu(%)	Ni(%)	Pt(oz/t)	Pd(oz/t)
				Peridotite olivine & 5-10% CX & minor PL & PH	strong serpentinization	TR		S 11422	4.39	0.05	0.16	0.003	0.005
10								11423	5.97	0.08	0.18	0.006	0.009
									NO CORE				
				chilled gabbro or f.g Tuff? w/ PØ & CP blebs & stringers		12%	3%	11424	2.61	0.75	1.44	0.019	0.046
				fine to med grained gabbro sheared	mod-strong CB alt'n	1%		11425	2.09	0.13	0.13	0.005	0.006
20				Tuff (tuffaceous qzit) aphanitic tuff with microphenos bedded at 30-50° to CA									
30				Parts brecciated									
40													





LEGEND

- Claim Boundary
- Cu, Ni, PGE Showing
- Au Showing
- 1988 Drill Hole
- Road

092645

Figure 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

ARCH PROPERTY

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

SCALE 1:30,000

500 0 500 1000 1500 Metres

To accompany report dated Nov./88

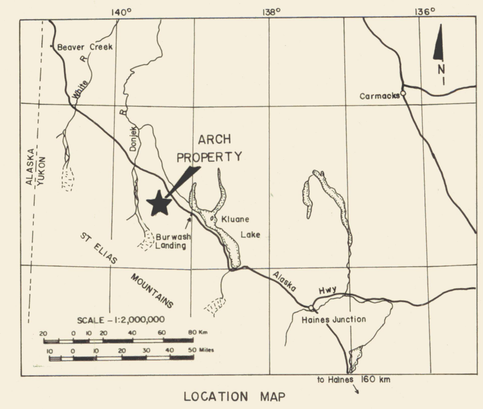
Figure 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

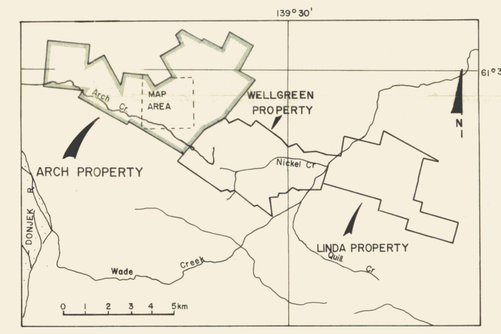
COMPILATION MAP

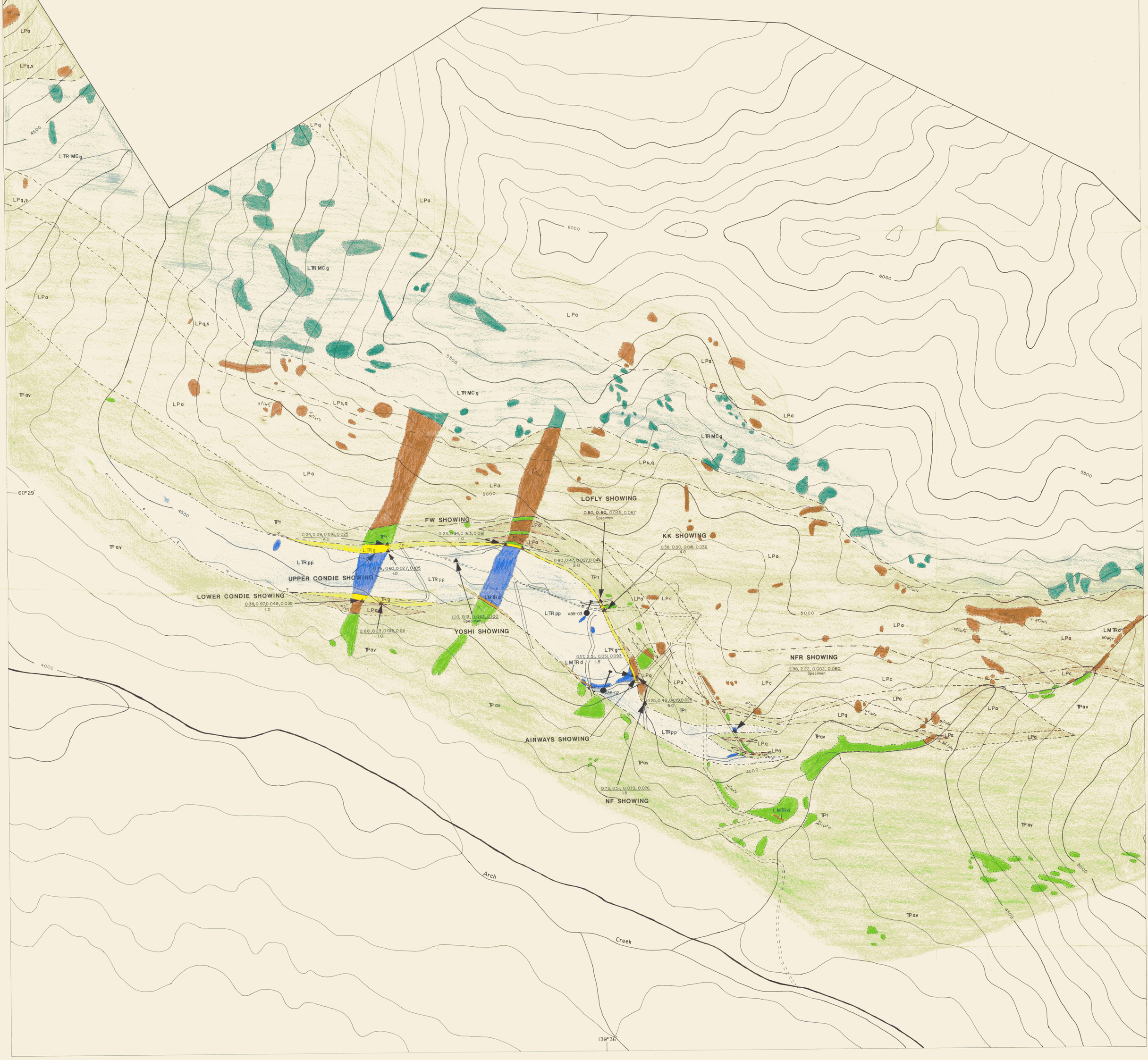
ARCH PROPERTY

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



LOCATION MAP





LEGEND

MAP SYMBOLS

- Outcrop Area
- Bulldozer Trench
- Road, 4x4 road, Trail
- 80°/40°N — Bedding Orientation
- 80°/50°N — Foliation Orientation
- Contact - Observed, Approximate, Inferred
- 1988 Diamond Drill Hole

ASSAYS

▲ Cu(%), Ni(%), Pt(oz/ton), Pd(oz/ton)

Intersection (m)

LITHOLOGIES

Triassic

UTR Nikolai Group
- b — green and purple amygdaloidal basalts

unconformity

LMTR(?)
- d — olivine and feldspar porphyritic dykes (white to green)

LTR(?) Quill Creek Ultramafic Complex
- pd — dunite
- pp — peridotite
- pf — feldspathic peridotite
- cp — clinopyroxenite
- g — gabbro / gabbro - norite
- ms — massive to nearly massive sulphides (po/pn + cpy)
- sk — mafic skarn
- MCg — **Maple Creek gabbro**

Permian

LP Hasen Creek Formation
- a — argillite (black to gray)
- s — siltstone / siliceous argillite (olive green)
- q — quartzite (brown to gray)
- c — limestone (white to gray)
- tq — tuffs / tuffaceous quartzites (dark green to lt. brown)

Pennsylvanian

TP Station Creek Formation
- ab — agglomerate / volcanic breccia (green)
- t — crystal / lapilli tuffs (green)
- av — andesitic flows or subvolcanic intrusions

Figure 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

899

DETAILED GEOLOGY

ARCH PROPERTY 092645

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

NTS 20/88

SCALE 1:2500

0 25 50 100 150 200 250 Metres

To accompany report dated Nov./88

ARCHER, CATHRO
& ASSOCIATES LIMITED

CONSULTING GEOLOGICAL ENGINEERS

VANCOUVER, B.C. (604) 688-2568

BOX 4127, WHITEHORSE, Y.T. Y1A 3S9 (403) 667-4415

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

AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Yukon make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Eugene 1-44 mineral claims on Claim Sheet 115G/5 & 12 is accurate.

Joan Mariacher

Sworn before me at Whitehorse, Yukon

this 23rd day of

September, 1988

Notary, Yukon Territory

Statement of Expenditures
Eugene 1-44 Mineral Claims
September 23, 1988

Contract Diamond Drilling

E. Caron Diamond Drilling Co.	$17,703.22

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

August 15, 1988
Invoice #-2479
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges for August 1 to 15, 1988: (Quill Creek)

8320.	**Tractor Time D-7F--Wellgreen**					
WG	~~107~~ 64 machine hrs.	@ $130.00 per hr.	=		~~$13,910.00~~	
	Tractor Time D-7F--Linda					
Linda - 9490.	~~41~~ 73 machine hrs.	@ $130.00 per hr.	=		~~$ 5,330.00~~	
	Tractor Time D-7F--Arch					
Arch - 2860	~~11~~ 22 machine hrs.	@ $130.00 per hr.	=		~~$ 1,430.00~~	$20,670.00
	Waterline					
	32 man hrs.	@ $32.00 per hr.	=	WG	$ 1,024.00	
Arch - 64.	2 man hrs.-Arch	@ $32.00 per hr.	=		$ 64.00	$ 1,088.00
	Triconing--Linda					
Linda - 192.	6 man hrs.	@ $32.00 per hr.	=			$ 192.00
	Moving					
	5 man hrs.	@ $32.00 per hr.	=	WG	$ 160.00	
Linda - 64.	2 man hrs.-Linda	@ $32.00 per hr.	=		$ 64.00	
Arch - 288.	9 man hrs.-Arch	@ $32.00 per hr.	=		$ 288.00	$ 512.00
	Mud					
	August 2/88					
Linda - 4245.00 (283)	64 bags Quik Gel	@ $15.00 each	= $ 960.00			
	120 bags Quik Trol	@ $15.00 each	= $ 1,800.00			
	August 6/88					
Arch - 1455.00	768 bags Quik Gel	@ $15.00 each	= $11,520.00			
	8 pails DD-2000	@ $130.00 each	= $ 1,040.00			$15,320.00
	Truck Trips					
	August 2/88					
Arch - 152.84	1 Ton	@ $500.00 each	= $ 500.00			
	August 6/88					
Linda - 445.90	Mack	@ $1,000.00 each	= $ 1,000.00			$ 1,500.00
					Total Invoice	$39,282.00

092645

Wellgreen - 11705.76 J
~~6890.~~ 8320. K
~~18595.76~~ 20025.76

Arch - 1959.84 J
~~4290.~~ 2860. K
~~6249.84~~ 4819.84

Linda - 4946.90 J
9490. K
14436.90

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

August 31, 1988
Invoice #-2502
Drill #- 13

IN ACCOUNT WITH:

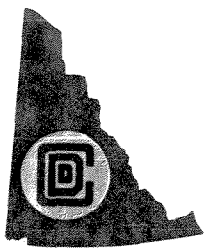
Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Drilling Charges August 16 to 18, 1988: (Quill Creek-Arch)

Hole # 88-A-2/-50/HWL				
Coring				
154 - 176 = 22 ft.	@ $29.00 per ft.	=		$ 638.00
Hole: 88-A-3/-50/HWL				
Moving				
24 man hrs. (-10)	@ $32.00 per hr.	=	$ 448.00	
Triconing				
12 man hrs.	@ $32.00 per hr.	= $ 384.00		
6 machine hrs.	@ $21.00 per hr.	= $ 126.00	$ 510.00	
Reaming Casing				
10 man hrs.	@ $32.00 per hr.	= $ 320.00		
5 machine hrs.	@ $21.00 per hr.	= $ 105.00	$ 425.00	
Reaming Cave				
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
2 machine hrs.	@ $21.00 per hr.	= $ 42.00	$ 170.00	
Travelling Time				
10 man hrs.	@ $32.00 per hr.	=	$ 320.00	
Casing				
0 - 2 = 2 ft.	@ $24.00 per ft.	=	$ 48.00	
Coring				
11 - 112 = 101 ft.	@ $29.00 per ft.	=	$ 2,929.00	$ 4,850.00
Items Consumed & Chargeable				
Hole:88-A-3				
1 - 10 ft. NQ rods	@ $160.40 each	= $ 160.40		
1 - 5 ft. NQ rods	@ $ 97.10 each	= $ 97.10		
2 X 50 ft. hose	@ $125.00 each	= $ 250.00		$ 507.50
Mob & Demob of Drill		=		$ 2,000.00
			Total Invoice	$ 7,995.50

092645

1333.33



caron

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

August 15, 1988
Invoice #-2476
Drill #- 13

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Linda

Drilling Charges August 1 to 15, 1988: (Quill Creek-Linda) + ARCH - 15654.00

Hole # L-88-2				
Moving				
18 man hrs. (-10)	@ $32.00 per hr.	=	$ 256.00	
Tricone				
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
2 machine hr.	@ $21.00 per hr.	= $ 42.00	$ 170.00	
Reaming Casing				
78 man hrs.	@ $32.00 per hr.	= $2,496.00		
39 machine hrs.	@ $21.00 per hr.	= $ 819.00	$ 3,315.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
20 man hrs.	@ $32.00 per hr.	=	$ 640.00	
Casing				
0 - 6 = 6 ft.	@ $24.00 per ft.	=	$ 144.00	
Coring				
6 - 40 = 34 ft.	@ $29.00 per ft.	= $ 986.00		
40 - 68 = 28 ft.	@ $26.00 per ft.	= $ 728.00	$ 1,714.00	$ 6,367.00
Hole: L-88-3/-50/HQ-NQ				
Moving				
18 man hrs. (-10)	@ $32.00 per hr.	=	$ 256.00	
Triconing				
24 man hrs.	@ $32.00 per hr.	= $ 768.00		
12 machine hrs.	@ $21.00 per hr.	= $ 252.00	$ 1,020.00	
Reaming Casing				
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
2 machine hrs.	@ $21.00 per hr.	= $ 42.00	$ 170.00	
Reaming Cave				
20 man hrs.	@ $32.00 per hr.	= $ 640.00		
10 machine hrs.	@ $21.00 per hr.	= $ 210.00	$ 850.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	

pd Sept 4/88 #143

pd Sept 4/88 #139

092645

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

Travelling Time				
22 man hrs.	@ $32.00 per hr.	=	$ 704.00	
Casing				
0 - 10 = 10 ft.	@ $24.00 per ft.	=	$ 240.00	
Coring				
10 - 273 = 263 ft.	@ $29.00 per ft.	= $7,627.00		
300 - 401 = 101 ft.	@ $26.00 per ft.	= $2,626.00	$10,253.00	$13,621.00
Hole: 88-A-1/-50/HQ				
Moving				
52 man hrs. (-10)	@ $32.00 per hr.	=	$ 1,344.00	
Reaming Cave				
2 man hrs.	@ $32.00 per hr.	= $ 64.00		
1 machine hrs.	@ $21.00 per hr.	= $ 21.00	$ 85.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
14 man hrs.	@ $32.00 per hr.	=	$ 448.00	
Casing				
0 - 10 = 10 ft.	@ $24.00 per ft.	=	$ 240.00	
Coring				
10 - 281 = 271 ft.	@ $29.00 per ft.	=	$ 7,859.00	$10,104.00
Hole: 88-A-2/-50/H				
Moving				
30 man hrs. (-10)	@ $32.00 per hr.	=	$ 640.00	
Reaming Cave				
2 man hrs.	@ $32.00 per hr.	= $ 64.00		
1 machine hrs.	@ $21.00 per hr.	= $ 21.00	$ 85.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
8 man hrs.	@ $32.00 per hr.	=	$ 256.00	
Casing				
0 - 4 = 4 ft.	@ $24.00 per ft.	=	$ 96.00	
Coring				
4 - 154 = 150 ft.	@ $29.00 per ft.	=	$ 4,350.00	$ 5,555.00

ARCH

092645

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

Items Consumed & Chargeable

Hole: L-88-2			
2 NW shoes (SM-306&387)	@ $398.40 each	= $ 796.80	
7 - 2 ft. HW casing	@ $80.50 each	= $ 563.50	
1 HW shoe (SH-380)	@ $440.40 each	= $ 440.40	
Hole: L-88-3			
1 HW shoe (Sh-386)	@ $440.40 each	= $ 440.40	
2 - 10 ft. HWL rods	@ $216.00 each	= $ 432.00	
1 HWL shoe (SM-425)	@ $398.40 each	= $ 398.40	
1 HWL shoe (SM-432)	@ $398.40 each	= $ 398.40	
2 - 10 ft. HWL rods	@ $216.00 each	= $ 432.00	$ 3,901.90

Total Invoice $39,548.90

Mud
Linda
280 bags Quik Gel
3 bags Super poly
Arch
97 bags Quik Gel

092645

ARCHER, CATHRO
& ASSOCIATES LIMITED
CONSULTING GEOLOGICAL ENGINEERS

VANCOUVER, B.C. (604) 688-2568 BOX 4127, WHITEHORSE, Y.T. Y1A 3S9 (403) 667-4415

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

AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Yukon make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Barny 1-50F, Amp 1-10, Mus 1-16, mineral claims on Claim Sheet 115G/5 is accurate.

Joan Mariacher

Sworn before me at Whitehorse, Yukon

this 25th day of

November, 1988

Notary, Yukon Territory

092645

Statement of Expenditures
Barny 1-50F, Amp 1-10 and Mus 1-16 Mineral Claims
November 25, 1988

Contract Diamond Drilling	
E. Caron Diamond Drilling Ltd. - Hole 88-A-1	$10,104.00
Contract Bulldozing	
E. Caron Diamond Drilling Ltd. - 118 hours D7 at $130/hr	15,340.00
Argold Mining - 57 1/2 hours at $85/hr - D6C	4,717.50
Ibex Contracting Limited - 11 1/2 hours D6 at $100/hr plus 18 hours D8K at $170/hr	4,210.00
	$34,371.50

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

August 15, 1988
Invoice #-2476
Drill #- 13

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Linda

Drilling Charges August 1 to 15, 1988: (Quill Creek-Linda) + ARCH

Hole # L-88-2				
Moving				
18 man hrs. (-10)	@ $32.00 per hr.	=	$ 256.00	
Tricone				
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
2 machine hr.	@ $21.00 per hr.	= $ 42.00	$ 170.00	
Reaming Casing				
78 man hrs.	@ $32.00 per hr.	= $2,496.00		
39 machine hrs.	@ $21.00 per hr.	= $ 819.00	$ 3,315.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
20 man hrs.	@ $32.00 per hr.	=	$ 640.00	
Casing				
0 - 6 = 6 ft.	@ $24.00 per ft.	=	$ 144.00	
Coring				
6 - 40 = 34 ft.	@ $29.00 per ft.	= $ 986.00		
40 - 68 = 28 ft.	@ $26.00 per ft.	= $ 728.00	$ 1,714.00	$ 6,367.00

Hole: L-88-3/-50/HQ-NQ				
Moving				
18 man hrs. (-10)	@ $32.00 per hr.	=	$ 256.00	
Triconing				
24 man hrs.	@ $32.00 per hr.	= $ 768.00		
12 machine hrs.	@ $21.00 per hr.	= $ 252.00	$ 1,020.00	
Reaming Casing				
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
2 machine hrs.	@ $21.00 per hr.	= $ 42.00	$ 170.00	
Reaming Cave				
20 man hrs.	@ $32.00 per hr.	= $ 640.00		
10 machine hrs.	@ $21.00 per hr.	= $ 210.00	$ 850.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

Travelling Time				
22 man hrs.	@ $32.00 per hr.	=	$ 704.00	
Casing				
0 - 10 = 10 ft.	@ $24.00 per ft.	=	$ 240.00	
Coring				
10 - 273 = 263 ft.	@ $29.00 per ft.	= $7,627.00		
300 - 401 = 101 ft.	@ $26.00 per ft.	= $2,626.00	$10,253.00	$13,621.00
Hole: 88-A-1/-50/HQ				
Moving				
52 man hrs. (-10)	@ $32.00 per hr.	=	$ 1,344.00	
Reaming Cave				
2 man hrs.	@ $32.00 per hr.	= $ 64.00		
1 machine hrs.	@ $21.00 per hr.	= $ 21.00	$ 85.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
14 man hrs.	@ $32.00 per hr.	=	$ 448.00	
Casing				
0 - 10 = 10 ft.	@ $24.00 per ft.	=	$ 240.00	
Coring				
10 - 281 = 271 ft.	@ $29.00 per ft.	=	$ 7,859.00	$10,104.00
Hole: 88-A-2/-50/H				
Moving				
30 man hrs. (-10)	@ $32.00 per hr.	=	$ 640.00	
Reaming Cave				
2 man hrs.	@ $32.00 per hr.	= $ 64.00		
1 machine hrs.	@ $21.00 per hr.	= $ 21.00	$ 85.00	
Waterline				
4 man hrs.	@ $32.00 per hr.	=	$ 128.00	
Travelling Time				
8 man hrs.	@ $32.00 per hr.	=	$ 256.00	
Casing				
0 - 4 = 4 ft.	@ $24.00 per ft.	=	$ 96.00	
Coring				
4 - 154 = 150 ft.	@ $29.00 per ft.	=	$ 4,350.00	$ 5,555.00

ARCH

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

Items Consumed & Chargeable

Hole: L-88-2			
2 NW shoes (SM-306&387)	@ $398.40 each	= $ 796.80	
7 - 2 ft. HW casing	@ $80.50 each	= $ 563.50	
1 HW shoe (SH-380)	@ $440.40 each	= $ 440.40	
Hole: L-88-3			
1 HW shoe (Sh-386)	@ $440.40 each	= $ 440.40	
2 - 10 ft. HWL rods	@ $216.00 each	= $ 432.00	
1 HWL shoe (SM-425)	@ $398.40 each	= $ 398.40	
1 HWL shoe (SM-432)	@ $398.40 each	= $ 398.40	
2 - 10 ft. HWL rods	@ $216.00 each	= $ 432.00	$ 3,901.90

Total Invoice $39,548.90

Mud
Linda
280 bags Quik Gel
3 bags Super poly
Arch
97 bags Quik Gel

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

August 31, 1988
Invoice #-2505
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges for August 16 to 31, 1988: (Quill Creek)

Tractor Time D-7F				
188 machine hrs.	@ $130.00 per hr.	=	$24,440.00	
Waterline				
25 man hrs.	@ $32.00 per hr.	=	$ 800.00	
1 man hrs.-Arch	@ $32.00 per hr.	=	$ 32.00	
Moving				
6 man hrs.(under)	@ $32.00 per hr.	=	$ 192.00	
10 man hrs.-Arch	@ $32.00 per hr.	=	$ 320.00	$25,784.00
			Total Invoice	$25,784.00

WG - 175 @ 130

Linda - 40 @ 130

Arch - 23 @ 130 - 3990

Arch - J - 302

K - 3990

3342

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

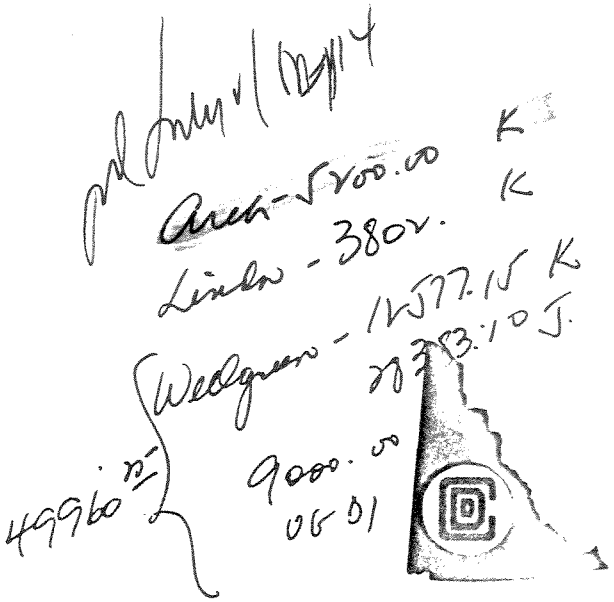
June 15, 1988
Invoice #-2397
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges June 1 to 15, 1988. (Quill Creek)

Moving				
3 man hrs.	@ $32.00 per hr.		$ 96.00	
Travelling				
3 man hrs.	@ $32.00 per hr.		$ 96.00	
Tractor D-7F				
153 machine hrs.	@ $130.00 per hr.		$19,890.00	$20,082.00
May 16/88				
Tractor				
9 machine hrs.	@ $130.00 per hr.			$ 1,170.00
Fuel (for underground)				
2,000 gal.	@ $3.00 per gal.			$ 6,000.00
Welder				
2 days	@ $100.00 per day	$ 200.00		
15 lb. rods	@ $4.95 per lb.	$ 74.25		$ 274.25
Mitsubishi Light Plant				
June 1 to 30/88	@ $3,000.00 per mo.			$ 3,000.00
Mud				
May 14/88				
30 bags Quik Trol	@ $15.00 a.	$ 450.00		
6 pails rod grease	@ $66.50 ea.	$ 399.00		
June 1/88				
96 bags Quik Gel	@ $15.00 ea.	$ 1,440.00		
4 pails rod grease	@ $66.50 ea.	$ 266.00		
June 3/88				
96 bags Quik Gel	@ $15.00 ea.	$ 1,440.00		
4 pails rod grease	@ $66.50 ea.	$ 266.00		
60 bags Quik Trol	@ $15.00 ea.	$ 900.00		
4 bags Baro Seal	@ $40.00 ea.	$ 160.00		



caron

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

June 30, 1988
Invoice #-2424
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges for June 16 to 30, 1988: (Quill Creek)

K-3776 ✓.

Travelling Time			
6 man hrs.	@ $32.00 per hr.	$ 192.00	
Tractor Time - D-7			
293 machine hrs.	@ $130.00 per hr.	$38,090.00	$38,282.00
Moving			
6 man hrs.	@ $32.00 per hr.	$ 192.00	
Casing - Fish Rods			
16 man hrs.	@ $32.00 per hr.	$ 512.00	
Waterline			
2 man hrs.	@ $32.00 per hr.	$ 64.00	
Conditioning Hole (Mud)			
2 man hrs.	@ $32.00 per hr.	$ 64.00	$ 832.00
Mud			
June 25 (Underground)			
200 bags Quik-Gel	@ $15.00 ea.		$ 3,000.00 UG

Total Invoice: $42,114.00

289-WG
4-arch
520.00

pd. July 8/88
#117

WG - 41594 total.

pd July 7/88
#11

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

July 15, 1988
Invoice #-2438
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges for July 1 to 15, 1988: (Quill Creek)

Help on Drill Move				
3 man hrs.	@ $32.00 per hr.	=	$ 96.00	
Tractor Time - D-7F				
284.5 machine hrs.	@ $130.00 per hr.	=	$36,985.00	$37,081.00
Moving				
5 man hrs.	@ $32.00 per hr.	=	$ 160.00	
Casing				
3 man hrs.	@ $32.00 per hr.	=	$ 96.00	
Reaming Cave				
1 man hr.	@ $32.00 per hr.	=	$ 32.00	
Waterline				
9 man hrs.	@ $32.00 per hr.	=	$ 288.00	
Sanded Core Bar				
2 man hrs.	@ $32.00 per hr.	=	$ 64.00	$ 640.00
Mud				
July 1/88				
3 pails rod grease	@ $66.50 each	= $ 199.50		
July 5/88				
150 bags Quik Trol	@ $15.00 each	= $2,250.00		
6 pails rod grease	@ $66.50 each	= $ 399.00		
July 12/88				
60 bags Quik Trol	@ $15.00 each	= $ 900.00		
July 15/88				
60 bags Trol	@ $15.00 each	= $ 900.00		
July 19/88				
6 pails DD-2000	@ $130.00 each	= $ 780.00		
10 pails rod grease	@ $66.50 each	= $ 665.00		
July 21/88				
300 bags Quik Gel	@ $15.00 each	= $4,500.00		$10,593.50

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 Telex 036-8-337

July 31, 1988
Invoice #-2460
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman & Tractor Charges for July 16 to 31, 1988: (Quill Creek)

~~Tractor Time D-7F--Linda~~				
52 machine hrs.	@ $130.00 per hr.	=	$6,760.00	
Tractor Time - D-7F				
119 machine hrs.	@ $130.00 per hr.	=	$15,470.00	$22,230.00
Waterline				
32 man hrs.	@ $32.00 per hr.	=		$ 1,024.00
Mud				
July 21/88				
10 pails rod grease	@ $66.50 each	= $ 665.00		
200 bags Super Poly	@ $15.00 each	= $3,000.00		
July 24/88				
80 bags Quik Trol	@ $15.00 each	= $1,200.00		
July 25/88				
200 bags Quik Trol	@ $15.00 each	= $3,000.00		
July 28/88				
576 bags Quik Gel	@ $15.00 each	= $8,640.00		
July 29/88				
7 pails DD-2000	@ $130.00 each	= $ 910.00		
4 pails rod grease	@ $66.50 each	= $ 266.00		$17,681.00
Truck Trips				
July 28/88				
5 Ton	@ $950.00 each	=		$ 950.00
			Total Invoice	$41,885.00

5720.00
44 Linda
11 Arch 1430.00
116 WG
171 Total
15080.00

83 bags Linda @ 915 - 1,245.00

Linda - 5720.00 K
1245.00 J
6965.

Pd Aug 18/88 #128

Arch - 1430.00 K

Wellgreen - 15080. K
- 18410. J
33490.

E. CARON DIAMOND DRILLING LTD. 7 Roundel Road Whitehorse, Yukon Y1A 3H3 Phone (403) 668-2424 FAX (403) 668-4520

September 30, 1988
Invoice #-2559
Foreman & Tractor

IN ACCOUNT WITH:

Archer, Cathro & Associates Ltd
3125 - 3rd Avenue
Whitehorse, Yukon

Foreman Charges September 16 to 30, 1988: (Quill Creek)

Moving				
20.5 man hrs.	@ $32.00 per hr.	=	$ 656.00	
Drilling reduce				
2 man hrs.	@ $32.00 per hr.	=	$ 64.00	
Waterline				
33 man hrs.	@ $32.00 per hr.	=	$ 1,056.00	
Tractor(D-7-E)				
128 machine	@ 130.00 per hr.	=	$16,640.00	$18,416.00
Credit 1hr D-7-E(Sept.,11 88)		=		$ (130.00)
Truck Trip				
Sept. 8/KW-Hiboy(split)			$ 500.00	
8 man hrs.	@ $32.00 per hr.	= $ 256.00		
8 truck hrs.	@ $65.00 per hr.	= $ 520.00	$ 776.00	
Sept. 20/KW & Loboy			$ 500.00	
1 man hr.	@ $32.00 per hr.	= $ 32.00		
1 truck hr.	@ $65.00 per hr.	= $ 65.00	$ 97.00	
Aug. 24/ Mack & pup			$ 500.00	
4 man hrs.	@ $32.00 per hr.	= $ 128.00		
4 truck hrs.	@ $65.00 per hr.	= $ 260.00	$ 388.00	$ 2,761.00
Mud & Propane				
Aug. 24/8				
672 bags Quik Gel	@ $15.00 each		$10,080.00	
18 refills propane	@ $51.00 each		$ 918.00	
Sept. 8/88				
358 bags Gel	@ $15.00 each		$ 5,370.00	
11 refills propane	@ $51.00 each		$ 561.00	

SERVICE

ARGOLD MINING
87 TAMARACK DR.
WHITEHORSE, YUKON

QUALITY

DATE JUNE 5 1988

M ARCHER CATHRO

Address ARCH

Supply D6C CAT		
TO UPGRADE ROAD		
TO DRILL SITE		
AT ARCH CREEK AREA	8½	HRS
John Miller		
@ 85/hr	722	50
02		

O PAT.

ARGOLD MINING **INVOICE**

87 TAMARACK DR. WHITEHORSE, YUKON. Y1A 4Y7 **096180**

DATE JULY 28 1988

SOLD TO ARCHER CATHRO

1016 - 510 W. HASTINGS ST.

SHIP TO VANCOUVER, B.C. V6B 1L8

ADDRESS

VIA

ORDER NUMBER

REPRESENTATIVE

TERMS

F.O.B.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Supply D6C CAT TO BUILD ROAD TO DRILL SITE (ARCH CREEK AREA)		
	69 HRS @ #85.00 PER HR.		#5,865.00
	Wellgreen - 22 hrs 1870.00		
	Arch - 47 hrs. 3995.		

REDIFORM 7M31

O PAT.

IBEX CONTRACTING LIMITED

Box 5225 668-5617
Whitehorse, Yukon
Y1A 4Z1

SOLD TO: Archer, Cathro **DATE:** Aug 28/88.

№ 887

Quantity	Description	Unit Price		Total
	For Creek JV			
6hrs	D6 @ 100/hr			600.00
5 1/2 hrs	D6 @ 100/hr			550.00
18hrs	D8K @ 170/hr			3060.00
				4210.00

2% per month over 30 days

IBEX CONTRACTING LTD **TIME SLIP** D6

NAME ARCHER-CATHRO WELLGREEN EMPLOYEE NO.

DATE	JOB DESCRIPTION	HOURS	RATE	AMOUNT
Aug 16th	DRILL MOVE	3	ARCH	
17th		0		
18th	" "	6.5	3 ARCH - 3½ WG	
21st	" " PULL OFF	4	WG	
24th	WALK CAT OUT TO MINE JUNCTION	2	WG ?	
			-	600 00
	Arch - 10hrs		-	950 00
	WG - 5½ hrs			
EMPLOYEE'S SIGNATURE David Bowman	APPROVED BY		TOTAL ▶	15½

HORWOOD'S OFFICE SUPPLY LTD.

IBEX CONTRACTING LTD **TIME SLIP** D6

NAME ARCHER CATHRO WELLGREEN EMPLOYEE NO.

DATE	JOB DESCRIPTION	HOURS	RATE	AMOUNT
9th	Road Work & Site	9.5		
10th	" " "	9.5		
11th	" " "	10		
12th	road work	10		
13 Aug	move drill 3	3.9		
	road work.	3		
14th	DRILL MOVE	4.5	Arch	
15th	HAUL FUEL LEVEL DRILL	1		
		5750 00		5½ Arch
EMPLOYEE'S SIGNATURE Lorne Huff	APPROVED BY	4800 00	TOTAL ▶	48 WG

HORWOOD'S OFFICE SUPPLY LTD.

IBEX CONTRACTING LTD **TIME SLIP** DBK

NAME ARCHER - CATHRO WELLGREEN EMPLOYEE NO.

DATE	JOB DESCRIPTION	HOURS	RATE	AMOUNT
12th	Road Site Work	9.5		
13th	" " "	9.5		
14th	Road Work ARCH	10.5		
15th.	Build Site ARCH 7.5 WELLGREEN	8.5		
	Arch - 18hrs.			
	& WG - 19hrs.			
EMPLOYEE'S SIGNATURE Dave Bowman	APPROVED BY		TOTAL ▶	37

HORWOOD'S OFFICE SUPPLY LTD.