

ARCHER, CATHRO & ASSOCIATES LIMITED

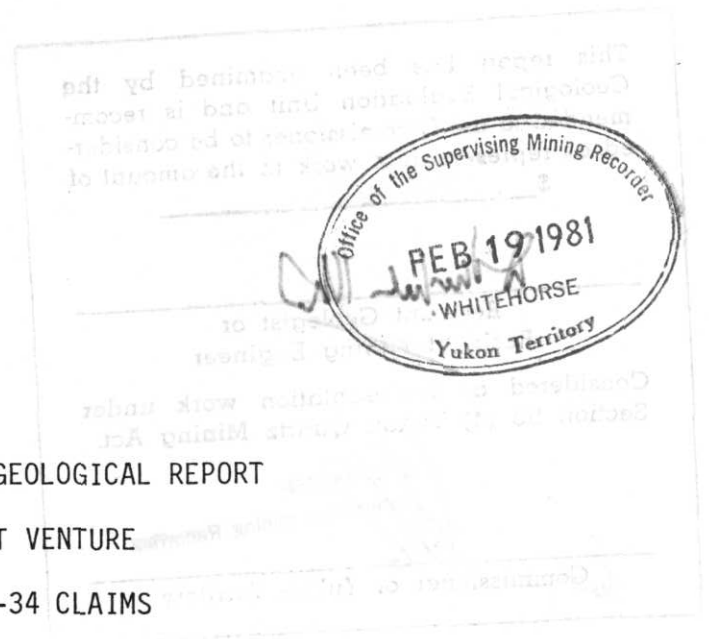
CONSULTING GEOLOGICAL ENGINEERS

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

Box 4127, WHITEHORSE, Y1A 3S9 (403) 667-4415



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



GEOCHEMICAL AND GEOLOGICAL REPORT
NAT JOINT VENTURE
NUCLEUS 1-34 CLAIMS

NTS 115I/6

Latitude 62°20' north

Longitude 137°30' west

Work done 19 August, 1980

E.P. Onasick, B.A.Sc., M.Sc., P.Eng.

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

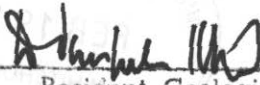
090739

January 1981




This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of


\$ 1741.00



Resident Geologist or
Resident Mining Engineer

Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.


E. R. BAXTER
Supervising Mining Recorder


Commissioner of Yukon Territory

087080

FROM Mining Recorder at Whitehorse, Yukon

TO Supervising Mining Recorder at Whitehorse, Y.T.



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No.

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name:

Lease No.

ASSIGNMENT of PLACER LEASE No.

From:

To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner:

DIAMOND DRILL LOGS:

Claims

Claim sheet no:

QUARTZ ASSESSMENT REPORT:

Claims:

Claim sheet no.

Type of report:

Geochemical and Geological

Submitted by:

Archer Cathro & Assoc.

Cls. work performed on:

Nucleous 1-12

\$ Req. for ren. application

\$1,741.00

Signature

17 FEBRUARY 1981

REPLY ACTION.

Date Ret.

090739

Signature

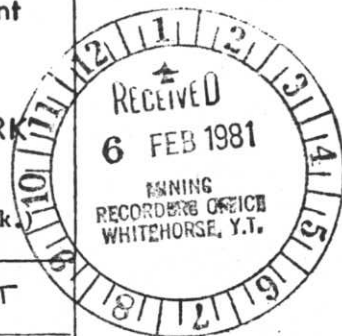


Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



OFFICE DATE STAMP

I (Name) M.P. PHILLIPS

Occupation GEOLOGIST

(Postal Address) P.O. BOX 4127, WHITE HORSE, YUKON

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

NUCLEOUS 21-34 ; YA 51209-223

situated at MECHANIC CREEK Claim Sheet No. 115I/6

in the WHITE HORSE Mining District, to the value of at least \$ 70000

dollars, since the 19 day of AUGUST 19 80.

to represent the following mineral claims under the authority of Grouping Certificate No. 87880

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

* NUCLEOUS 21-34; YA 51209-222 = 14 CLAIMS

GROUP 3

14 CLAIMS AT 1/2 PER CL = 7 CLAIM YEARS

19 Aug. 81

* COMMON DATE 19 FEBRUARY

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

SEE GEOCHEMICAL AND GEOLOGICAL REPORT NAT JOINT VENTURE, NUCLEOUS 1-34 CLAIMS, NTS 115I/6 BY E.P. ONASICK P. ENG & A.R. ARCHER, P. ENG., DATED JANUARY, 1981

BALANCE GROUP 2. \$ 74100
LESS GROUP 3 700.00
BALANCE GROUP 3 \$ 4100

Sworn before me at WHITE HORSE, YUKON

this 6 day of FEBRUARY 1981

[Signature]
Notary Public

[Signature]
Applicant.

M.P. PHILLIPS FOR ARCHER, CATHROE ASSOCIATES LTD.



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



| | |
|--|----------------------|
| I (Name) M.P. PHILLIPS | Occupation GEOLOGIST |
| (Postal Address) P.O. BOX 4127, WHITE HORSE, YUKON | |

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)
NUCLEOUS 13 -20

situated at MECHANIC CREEK Claim Sheet No. 115I/6
in the WHITEHORSE Mining District, to the value of at least \$400.00
dollars, since the 19 day of AUGUST 1980.

to represent the following mineral claims under the authority of Grouping Certificate No. 87870
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 2 * NUCLEOUS 13-20; YA51201-208 INCLUSIVE
8 CLAIMS AT 1/2 CLAIM YEAR EACH = 4 CLAIM YEARS

19 Aug. 81

* COMMON DATE 19 FEBRUARY.

Archer, Cathro, Associates Ltd.

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

SEE GEOCHEMICAL AND GEOLOGICAL REPORT, NAT JOINT VENTURE, NUCLEOUS 1-34 CLAIMS, NTS 115I/6 BY 'E.P. ONASICK, P.ENG, & A.R. ARCHER, P.ENG., DATED JANUARY, 1981

BALANCE GROUP 1 \$1141.00
LESS GROUP 2 400.00
BALANCE GROUP 2 \$741.00

Sworn before me at WHITEHORSE, YUKON
this 6 day of FEBRUARY 1981

[Signature]
Notary Public

[Signature]
Applicant.
M.P. PHILLIPS FOR ARCHER, CATHERO & ASSOCIATES LTD



Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



| | | | |
|------------------|-----------------------------------|------------|-----------|
| I (Name) | M.P. PHILLIPS | Occupation | GEOLOGIST |
| (Postal Address) | P.O. BOX 4127, WHITE HORSE, YUKON | | |

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

NUCLEOUS 1-12; YA 51189 - 198 INCLUSIVE

situated at MECHANIC CREEK Claim Sheet No. 115I/L

in the WHITE HORSE Mining District, to the value of at least \$600.00

dollars, since the 19 day of AUGUST 1980.

to represent the following mineral claims under the authority of Grouping Certificate No. 87860
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

GROUP 1 * NUCLEOUS 1-12; YA 51189 - ²⁰⁰~~198~~ 12 CLS AT 1/2 CL PER YEAR = \$600

19 Aug. 81

* COMMON DATE 19 FEBRUARY

Archer, Cathro & Associates Ltd.

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

SEE GEOCHEMICAL AND GEOLOGICAL REPORT, NAT JOINT VENTURE NUCLEOUS 1-34 CLAIMS, NTS 115I/L BY E.P. ONASICK, P. ENG AND A.R. ARCHER P. ENG DATED JANUARY, 1981

| | |
|---------------------|------------|
| TOTAL EXPENDITURES. | \$ 1741.00 |
| LESS GROUP 1 | 600.00 |
| BALANCE GROUP 1 | \$1141.00 |

Sworn before me at WHITEHORSE, YUKON

this 6 day of FEBRUARY 1981

Notary Public

Applicant.

M.P. PHILLIPS FOR ARCHER, CATHRO ASSOCIATES LTD

In Account With

NAT JOINT VENTURE

Aug 31, 1980

Project -

Date -

| | Subtotal | Total |
|---|-----------------|---------------------------------|
| MANAGEMENT | | |
| August | | 2000.00 |
| LABOUR | | |
| Supervisory | | |
| Field | | |
| E. ONASICK - AUG. 1-31 @ 2500/mo | 2500.00 | |
| B. GRANGER - AUG. 1-31 @ 1600/mo | 1600.00 | |
| N. BALL - AUG. 1-26 @ 1600/mo | 1344.00 | |
| P. MORETON - AUG. 9-16 @ 1600/mo | 413.00 | |
| J. ROBERTSON - AUG. 1-29 @ 1300/mo | 1217.00 | |
| K. WYLLIE - AUG. 1-31 @ 1400/mo | 1400.00 | |
| A. TOLVANEN - AUG. 1-31 @ 1100/mo | 1100.00 | |
| B. HALLERAN - AUG. 27, 28-29 @ 1750/mo | 162.00 | |
| J. STANFORTH - AUG. 27 @ 1100/mo | 35.00 | |
| D. EATON - AUG. 17-22, 26 @ 2600/mo | 587.00 | |
| J. COCKELL - AUG. 27 @ 1650/mo | 53.00 | |
| D. ONESCHUK - AUG. 1, 24-25, 27 @ 1500/mo | 194.00 | B |
| C. CHALMERS - AUG. 24-26 @ 1650/mo | 160.00 | 10563.00 |
| | Plus 50% | 5281.50 |
| EXPENSES | | |
| Accounting Aug | 300.00 | C3 |
| Expediting Aug | 700.00 | D3 |
| Room and Board in Whse - HALLERAN-4; STANFORTH-1; EATON-4 @ 10; EATON-2; COCKELL-1 @ 10; ONASICK-10; GRANGER-10; BALL-5; ROBERTSON-7; CHALMERS-3; TOLVANEN-9; WYLLIE-4; MORETON-1; ONESCHUK-4 total 59 days at \$30 /day @ 10 | 1870.00 | DV |
| Field equipment from AC stock | | |
| Drafting, .5 hrs. at \$ 18 /hr. | 9.00 | C1 |
| Xerox copies, 100 copies at .10 /copy | 10.00 | C1 |
| Radio rental CH 25 Aug 1-25 at 250/mo. | 201.61 | D1 |
| Rental AC Brown truck Aug 1 - 31 at \$ 750 /mo. plus (27,389 to 27,870) kms at .16 /km | 750.00 76.96 | D4 D4 |
| Petty cash 3.78 ^{D1} + 76.35 ^{{D1-V.50 D1-71.65 + 13.00} | 93.13 | D1-8.88 D1-71.85 D4-13.00 |
| Telephone | | |
| Ink printing, 136' inklines @ 30¢ ft. plus 2.0 ft. dulan @ 2.50¢ ft. | 45.80 | C1 |
| Yukon Health Food Store | 11.00 | DV |
| Food Fair | 31.25 | DV |
| Mach | 23.93 | D1 |
| Hungen's | 4.29 | D1 |
| Recher General - airphoto | 96.00 | CV |
| Food Fair | 15.95 | DV |
| Recher General - maps | 15.00 | CV |
| White Lion Petroleum | 1407.89 | G3 |
| Knithland Dept. Store | 10.00 | D15745.71 |
| Kester's Mtnr Spots | 750.01 | 22765.21 23590.21 |
| CREDITS | | |
| Sub-let 500C to Dennis - ML, 4.6 hrs @ 315 | 1449.00 | G1 |
| White Lion Petroleum - drums return | 643.92 | G3 |
| Advance to AC | 15000.00 | 170949.2 |
| Total | | 170949.2 6497.29 |



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LIST OF ILLUSTRATIONS (in pocket)

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| Figure N9A: Au, As, Ag Geochemistry | (1:10,000 scale) |
| Figure N9B: Geology | (1:10,000 scale) |

INTRODUCTION

NAT Joint Venture was formed by equal partners Chevron Canada Limited and Armco Mineral Exploration Ltd. to explore selected areas of Yukon for precious metals. The field crew was comprised of geological engineer E. Onasick and field assistants N. Ball, B. Grainger, J. Robertson and A. Tolvanen; senior supervision was provided by A.R. Archer.

Reconnaissance of gold-arsenic targets in the Big Creek area during the period 27 June to 8 July, 1980 led to the discovery of a cluster of gold-arsenic rock and soil anomalies over unstaked ground west of the Yukon Revenue porphyry copper property. Thirty-four Nucleus claims were staked on 15 August and further prospected and grid soil sampled at a wide spacing during the following four days. Results of geochemical sampling are illustrated at 1:10,000 scale as Figure N9A. Geology was mapped from limited rock exposure and sample pit chips, and a 1:10,000 scale map compiled from this and previous work is shown as Figure N9B. Report preparation was carried out in Vancouver during the period September to December, 1980.

PROPERTY, LOCATION AND ACCESS

The Nucleus property consists of thirty-four contiguous mineral claims recorded in the Whitehorse Mining District as follows:

| <u>Claim Name</u> | <u>Record Numbers</u> | <u>Expiry Date</u> |
|-------------------|-----------------------|--------------------|
| Nucleus 1-34 | YA51189-222 | 19 August, 1981 |

The claims are located at latitude 62°20' north and longitude 137°30' west on NTS claim sheet 1151/6, about 63 km northwest of Carmacks. Access in 1980 was by Hughes 500C helicopter (supplied by Trans North Turbo Air Ltd. of Whitehorse), from a camp

on Mt. Nansen Road, 41 km to the south. Access is also possible via a bulldozer trail which lies 1 km north of the claims and originates 3 km east at the western terminus of the Freegold secondary road, some 70 km by road from Carmacks.

PREVIOUS WORK

The Nucleus claims were staked on a window of available ground surrounded by the Yukon Revenue property on the east and by three blocks of Cash 1 to 48 claims on the other sides (see Figure N9). Most previous exploration in this area has been conducted on the Yukon Revenue property, mostly directed toward a low grade copper-molybdenum porphyry deposit with minor values in tungsten, gold and silver. Although placer miner P.F. Guder discovered gold-quartz float in the vicinity as early as 1934, he did not stake claims until 1953, when he explored a copper showing assaying 15% Cu and 17.1 g/MT (0.5 oz/ton) Au over 5 m with adit and shallow shaft. The property was optioned by Conwest, which conducted an EM survey in 1954; by Teck ECL, which drilled 5 holes (427 m) in 1955; by Cominco in 1959; by Meridian Syndicate, which drilled 3 holes (165 m) and conducted a geochemical survey in 1964; and by General Enterprises in 1967. Most of the drilling tested discontinuous lenses of chalcopyrite and pyrite in a strongly altered (propylitic and argillic) breccia zone. Yukon Revenue ML was formed in 1968 and developed the property during 1967 to 1969 with road building, bulldozer trenching, geochemical sampling, an IP survey and 10 drill holes (1276 m), and during 1974 and 1978 with additional bulldozer trenching. The best precious-metal zone in these trenches assayed 13.7 g/MT (0.4 oz/ton) Au, 68.6 g/MT (2.0 oz/ton) Ag and 0.28% WO₃ across 3.3 m.

The property was also optioned to Kaiser Resources Limited in 1970, which drilled 25 percussion holes (2245 m) and 13 diamond drill holes (1851 m) where geochemical surveys had outlined a copper-molybdenum anomaly over weakly-altered

breccia. Kaiser also cut a widely-spaced grid of bulldozer trenches which extends west onto ground now staked as the Nucleus claims.

The Cash claims were staked in 1979 by Whitehorse individuals on ground formerly held by Klotassin JV (Roc claims staked 1974) and by Cominco (Com claims, 1969) and Eagle Bay ML (Roy, Tye claims, 1970). Cominco and Klotassin conducted geochemical soil surveys near the northwestern corner of the Nucleus claims, but only weak copper and molybdenum anomalies were outlined. Minor fluorite and rare scheelite were also found in float.

Exploration for magnetite-gold skarns in Tertiary porphyry and rhyolite on the north side of Big Creek (Car claims) was conducted by a joint venture between Western ML, Belmoral ML and Cream Silver ML in 1969, but only two copper soil anomalies were obtained.

Both Revenue Creek and Mechanic Creek are currently being placer mined, the former by A. Warville and the latter by other individuals.

PHYSIOGRAPHY AND GLACIATION

The property lies within the Yukon Plateau, an older, rejuvenated erosion surface in which major creeks now follow broad, steep-walled valleys. Smaller tributaries form deep, narrow valleys separated by long ridges of uniform elevation. Rock exposure is limited to creek cuts and hill summits. Kaiser's bulldozer grid exposes bedrock and assists in mapping. Overburden is relatively thin, varying in thickness up to 15 m. Volcanic ash is moderately thin (25 to 50 cm) and patchy, except where accumulations up to several metres thick are found in the vicinity of Big Creek. Permafrost hinders sampling on north-facing slopes, and the entire property is lightly treed.

Pleistocene glaciation did not cover the property, although the last advance of ice-cap terminated less than 50 km to the south. Outwash detritus has filled several of the larger creek valleys, including parts of Big Creek, and local alpine glaciation probably existed on the higher mountain to the north and west. Surface weathering is strong and probably extends to a depth of 100 m or more.

GEOLOGY AND MINERALIZATION

Tectonically, the Nucleus property lies on the southern margin of a strong, northwesterly-trending topographic and aeromagnetic lineament following Big Creek, which is postulated to be a major fault subparallel and possibly related to the Teslin Lineament. Refer to the discussion in the preceding section (Hayes Creek Area). A related system of subsidiary southwest-trending faults are reflected by creek topography.

The oldest rocks in the area are rusty-weathering pendants of schists, gneisses and micaceous quartzites of the Yukon Metamorphic Complex, of Proterozoic to Mississippian age. In the vicinity of the property, a Mesozoic orogeny has produced granitic bodies of various sizes with compositions ranging from hornblende syenite through monzonite to granodiorite and quartz monzonite. Aplite dyking cuts the granodiorite in a small area west of Mechanic Creek. This orogeny was followed by Eocene volcanism with an associated feldspar porphyry feeder phase in an east-trending belt that covers approximately half of the claims. An idealized geological map at 1:10,000 scale has been compiled from work by Kaiser Resources in 1969, Klotassin Joint Venture in 1974 and geological mapping from outcrops and sample pit chips by NAT in 1980 (see Figure N9B).

Gold and arsenic mineralization, as indicated by soil geochemistry, appear to be associated with the feldspar porphyry unit (Tfp), its contacts with the

Mesozoic granodiorite (M gda) or Yukon Group (Ppsn), or with the aplite dyking in the M gda. The Tfp is characterized by a pale coloured, aphanitic, pervasively-altered rhyolitic matrix with up to 5% quartz phenocrysts (less than 1 mm), and is typically brecciated.

Alteration is widespread in the igneous rocks and argillic, phyllic and propylitic zones have been recognized. Propylitic alteration is prominent in the breccia with the feldspars almost completely altered to kaolin. Siliceous veining and stockworks with associated pyrite and jarosite occur locally.

Malachite, galena and sphalerite have been reported on an eastern tributary of Mechanic Creek, but were not verified by NAT. No visible gold, silver or arsenic mineralization was seen on the Nucleus claims, although placer gold is being mined on Revenue Creek, about 3 km east, presumably derived from the Tertiary intrusion.

GEOCHEMISTRY

Geochemical samples were collected in kraft bags at 225 m spacing in a grid with lines spaced 600 m apart, and randomly at about 400 m spacing. These were dried and shipped to Chemex Labs in North Vancouver, where they were screened to -35 mesh, pulverized, re-screened to -80 mesh and analyzed for gold ("combo", fire assay followed by AA or neutron activation analysis), silver and lead (nitric-perchloric extraction followed by AA), and arsenic (hydride vapour technique).

About 200 samples were collected in regional traverses, including 72 samples from the soil sampling grid, and these form the geochemical data base on and around the Nucleus property, illustrated as Figure N9A. Gold soil anomalies of 760 ppb, 530 ppb and lower, with associated arsenic values of greater than 500 ppm and 230 ppm were initially returned from a reconnaissance traverse. Subsequent, wide-spaced

grid sampling returned fourteen rock and soil values greater than 100 ppb Au to a maximum of 1824 ppb Au (rock) and 745 ppb Au (soil).

Scattered anomalous arsenic values define an oval area approximately 12 mineral claims in size centered on the height of land west of Mechanic Creek. Within this area 49 of 74 samples (66%) returned arsenic values exceeding 50 ppm As. Of these, 26 (53%) exceed 125 ppm As, 15 (31%) exceed 250 ppm As and 5 (10%) exceed 500 ppm As. Both arsenic and gold response fall rapidly to background to the south and west while samples to the north are only weakly anomalous, possibly due to dilution by alluvial material in the Big Creek valley. Limited sampling over the Yukon Revenue property, adjacent to the east, has returned both background and strongly anomalous values in gold and arsenic.

Anomalous gold response is not as widespread as arsenic and is largely restricted to the slope immediately west of Mechanic Creek, up to the hilltop forming the local height of land. A specimen of siliceous, pyritiferous vein float collected on this hilltop returned strongly anomalous gold (1824 ppb) and silver (8.9 ppm) values but only a background value in arsenic (5 ppm). A soil sample 100 m west of this location returned strong anomalies in both gold and arsenic (see Figure N9A).

Silver response on the property and vicinity is erratic and weak. The highest values were in two soil samples from the adjacent Yukon Revenue property which assayed 20 ppm and 10 ppm Ag, followed by the 8.9 ppm Ag rock mentioned above and a 3.2 ppm Ag rock near the southeast corner of the claims, where galena had been previously noted.

It is interesting to compare the geochemical response found on the Nucleus claims with that on the Arctic Red Resources Ltd.'s LaForma property on Mt. Freegold. At that location, sampling in 1975 outlined a similar coincident cluster of gold-arsenic anomalies overlying Tertiary feldspar porphyry breccia, reaching

a maximum of 8300 ppb Au with a number of soil samples returning values up to 500 ppm As. The anomalous arsenic area at LaForma is smaller than at Nucleus, however, extending over about 1 1/2 claims. Drilling the anomaly in 1975 indicated that gold may be accumulating at the surface, giving geochemical anomalies that do not accurately reflect the gold content in the underlying rock.

DISCUSSION AND RECOMMENDATIONS

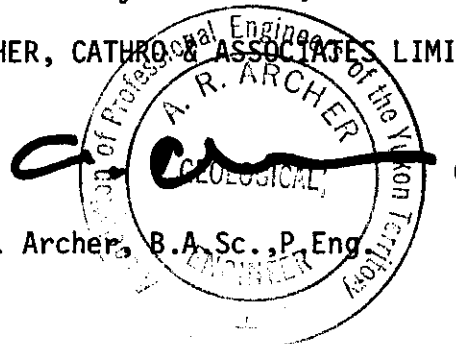
Comparison of the gold geochemistry and geology suggests that the anomalous gold and arsenic response is related to the Yukon Group pendents, aplite dyking in granodiorite, and the Tfp breccia. The 1824 ppb Au quartz-rich vein float is thought to have derived from the Tfp. Further work (1981) should consist of a grid soil sampling program over the anomalous area using a 50 m sample spacing on lines 100 m apart. This will generate approximately 600 samples, to be analyzed for Au, Ag, As, Pb and possibly Sb, and will require approximately 35 mandays of work. Since most of the property is overburden-covered, geology will be mapped by examinations of existing trenching and rock chips collected from soil sample pits. In addition, a more exact location of claim boundaries of the surrounding Yukon Revenue and Cash properties should be determined and open ground to the east and southeast should be staked.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES LIMITED



E.P. Onasick, B.A.Sc., M.Sc., P.Eng.



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

ARCHER, CATHRO

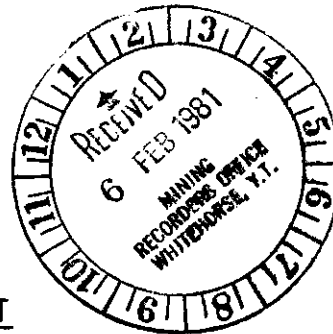
AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

090739

Box 4127, WHITEHORSE, Y.T. VIA 359 667-4415

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

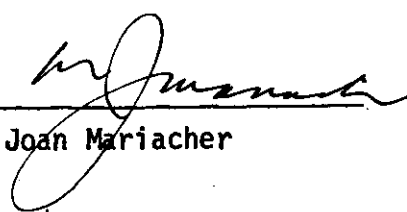


1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

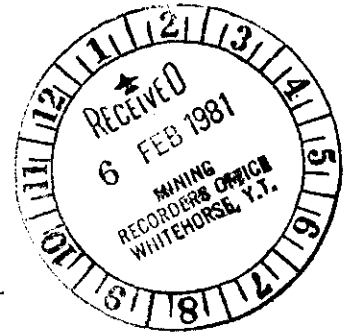
That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Nucleus 1-34 mineral claims on Claim Sheet 1151/5 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.
this 22nd day of
January, 1981


Notary, Yukon Territory

Statement of Expenditures
Geological Mapping and Geochemical Sampling
Nucleus 1-34 Claims
January 1981



Labour

| | | |
|-------------------------------------|--------------|-----------|
| N. Ball (geol. assistant) - Aug. 19 | \$ 97.00 | |
| J. Robertson (sampler) - Aug. 19 | 80.00 | |
| B. Grainger (sampler) - Aug. 19 | 97.00 | |
| A. Tolvanen (sampler) - Aug. 19 | <u>68.00</u> | \$ 342.00 |

Expenses

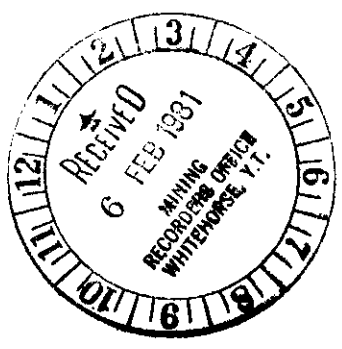
| | | |
|---|---------------|-------------------|
| Trans North Turbo Air - 1.7 hours contract | | |
| Hughes 500C at \$315/hour | 535.00 | |
| Helicopter fuel - 1.7 hours at 22 gal/hr at | | |
| \$3/gal delivered to site | 112.00 | |
| Chemex Labs Ltd., 72 soil and rock samples analyzed | | |
| for gold, silver, arsenic and lead at \$8.50 each | 612.00 | |
| Room and board, 4 mandays at \$35/day | <u>140.00</u> | <u>1,399.00</u> |
| | | |
| Total | | <u>\$1,741.00</u> |

| | |
|-------------------------|----------|
| ACCOUNT NUMBER | 116 |
| 49547 | |
| INVOICE DATE | 25 08 80 |
| A/C TYPE | H500 C |
| AIRCRAFT REGISTRATION C | -XUVW |
| FLIGHT DATE | 19 08 80 |
| PURCHASE ORDER NO. NAT | |

CHARTERER: ARCORC CATHRO
 BILLING ADDRESS:

| | | | |
|--------------|----------------|------------|------|
| FUEL & OIL-X | TNTA FUEL USED | HRS.-GALS. | FROM |
| TNTA CUST. | X | 3.5 HRS. | |

| FROM | MILES | HOURS | ZONE | REMARKS - NO. OF PASS. FREIGHT LBS. |
|-------------------|-------|-------|------|-------------------------------------|
| VICTORIA CREEK. | | | | |
| TO VICTORIA CREEK | | 1.8 | | NUCLEUS CLAIMS. |
| VICTORIA CREEK | | / | | |
| LILY PAD | | | | |
| VICTORIA CREEK | | 1.7 | | LILYPAD CLAIMS. |



| HR | GAL. | AMOUNT |
|-----|--------|---------|
| 3.5 | 315.00 | 1102.50 |
| | | |
| | | |
| | | |

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

CHARTERER'S SIGNATURE: [Signature]
 PILOT'S SIGNATURE: Dave Reid
 ENGINEER'S NAME: Jodie Bradley

| | | | |
|-----------------|---|-------|------------|
| WAITING TIME | @ | /HR. | |
| FUEL: | @ | /GAL. | |
| FUEL: | @ | /GAL. | |
| MEALS & LODGING | | | |
| OTHER | | | |
| OTHER | | | |
| TOTAL | | | \$ 1102.50 |

FLIGHT REPORT INVOICE



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 984-0221
 AREA CODE: 604
 TELEX: 04-352597

- ANALYTICAL CHEMISTS
- GEOCHEMISTS
- REGISTERED ASSAYERS

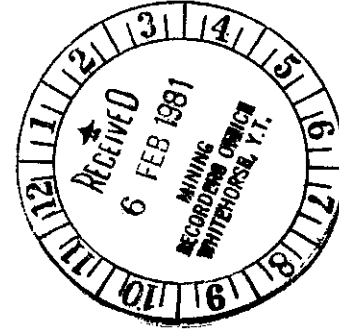
TO: Archer Cathro & Assoc. Ltd.,
 1016 - 510 W. Hastings St.,
 Vancouver, B.C.
 V6B 1L8

ATTN: NAT JOINT VENTURE

CERTIFICATE NO. 69751 to 53, 58, 59,
 69761 to 65.

INVOICE NO. 39041

DATE Sept. 25/80

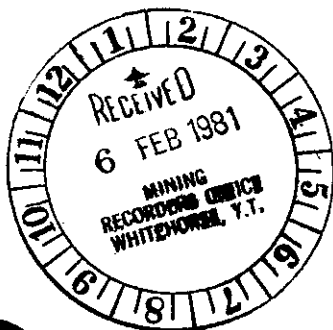


| | DESCRIPTION | SUB-TOTAL | TOTAL |
|-----|--|--------------------|----------|
| 194 | Analyzed for Au (NAA) @ \$5.00 Less 20% | \$970.00 194.00 | \$776.00 |

TERMS—NET 30 DAYS

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

78-040



INVOICE

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: 984-0221
 AREA CODE: 604
 TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

TO: Archer Cathro & Assoc. Ltd.,
 1016 - 510 W. Hastings St.,
 Vancouver, B.C.

CERTIFICATE NO. A8010234-001 to 003

INVOICE NO. 38685

ATTN: V6B 1L8
 NAT J.V.

DATE Sept. 11/80

| | DESCRIPTION | SUB-TOTAL | TOTAL |
|----|-----------------------------------|-----------|----------|
| 99 | Analyzed for Pb, Ag & As @ \$5.35 | \$529.65 | |
| 54 | Analyzed for Hg & Sb @ \$7.00 | 378.00 | |
| 99 | Prepared @ \$0.50 | 49.50 | |
| | | 957.15 | |
| | Less 20% | 191.43 | |
| | | | \$765.72 |

TERMS—NET 30 DAYS

1½% Per Month (18% Per Annum) Charged on Overdue Accounts

78-040

