

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016 - 510 WEST HASTINGS STREET, VANCOUVER, B.C. V6B 1L8 TEL (604) 688-2568 • FAX (604) 688-2578

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## ASSESSMENT REPORT

describing

## PROSPECTING AND GEOCHEMICAL SURVEYS

on the

### TRACK PROPERTY

Track 1-68 - YC13043-YC13110

NTS 116C/8

Latitude 64°23'N; Longitude 140°12'W

in the

Dawson Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**EUREKA JOINT VENTURE**  
Nordac Resources Ltd. - 50%  
Expatriate Resources Ltd. - 50%

by

W.A. Wengzynowski, P.Eng.  
April, 2000

094131



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 \$ 20,400.

*M. B. H.*  
for Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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## **SUMMARY AND RECOMMENDATIONS**

The Track property is owned by Eureka Joint Venture consisting of Expatriate Resources Ltd. and Nordac Resources Ltd. each with a 50% interest. The property comprises 68 contiguous mineral claims located 40 km northwest of Dawson City in west-central Yukon. The claims occupy approximately 1360 hectares and cover intrusive related lode gold targets. The closest road access is 14 km to the southwest at Cassiar Dome, which lies 66 km from Dawson City via the Top of the World Highway and Clinton Creek Road. Helicopter support is available throughout the year from bases in Dawson City.

Topography in the vicinity of the claims is subdued because the area escaped Pleistocene glaciation. Elevations range from 300 to 1030 m and most parts of the property exhibit mature soil development and heavy vegetation. Outcrop is rare.

The Track property lies within the Tintina Gold Belt which extends across central Alaska and Yukon. Deposits within the belt are typically associated with Mid to Late Cretaceous granitic intrusions with low magnetic susceptibility. Although a wide variety of deposit types are known, most occur near large northwest trending faults and are localized by smaller northeast trending extensional structures. Lithophile geochemical signatures range outward from gold, arsenic, bismuth, molybdenum and tungsten in occurrences within or directly adjacent to intrusions, to gold, arsenic, antimony, zinc, lead and silver in more distal occurrences.

Work in the 1980's identified two zones of tungsten and copper skarn mineralization in the Track area within Paleozoic metasedimentary rocks of the Yukon-Tanana Terrane along the northern contact of the Mid-Cretaceous (112 Ma) Mt. Carmacks pluton. The SDJ Showing, located at the west end of the property, consists of foliaform disseminated pyrite and lesser chalcopyrite within skarnified metasediments exposed in a creekcut. The Poinjar Showing, located at the east end of the property, is a 1000 by 200 m area containing strong tungsten soil geochemical response, high amplitude ground magnetic anomalies and tungsten rich skarn float, specimens of which reportedly assayed up to 4.5% tungsten oxide. Eleven diamond drill holes totalling 1175 m encountered skarn zones up to 120 m thick which included intervals that averaged up to 0.34% tungsten oxide across 12.8 m. Only limited gold analyses were done returning up to 0.55 g/t across 0.6 m.

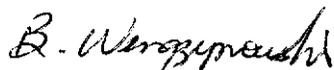
The 1999 Eureka Joint Venture exploration program targeted proximal intrusive related and intrusive hosted gold mineralization. Stream sediment samples were collected over a wide area with disappointing results. Prospecting focused on quartz veins and to a lesser degree skarn mineralization. The best results came from the Poinjar Showing where a specimen of quartz matrix supported limonite boxwork yielded 3.59 g/t gold, 1.6 g/t silver, 1655 ppm bismuth, 56 ppm molybdenum and 810 ppm tungsten. The tungsten value was obtained by partial digestion analysis and actual value is therefore expected to be greater than reported. Skarn specimens collected nearby also produced anomalous gold, tungsten and bismuth response. Low sulphidation quartz stockwork zones were observed in granitic rocks within drill core stored on the property but none of this material was sampled.

Several geological and geochemical features at the Track property are characteristic of deposits within the Tintina Gold Belt, particularly the multi-million ounce Pogo Deposit. First, the Track property lies between the Tintina and Denali Fault Zones which are major northwest trending structures extending across Yukon into Alaska. Abundant smaller scale, northeast trending structures are also documented cutting the local intrusions and stratigraphy. The country rocks consist of Paleozoic metasedimentary rocks of the Yukon-Tanana Terrane which are intruded by a granitic intrusion of the Anvil Suite. The intrusion has low magnetic susceptibility which is indicative of a reducing environment favourable for gold mineralization. Finally, the intrusion and mineralization associated with it exhibit strong lithophile geochemical signatures.

Additional exploration is definitely warranted and is recommended in two phases. Systematic close spaced grid soil sampling should be conducted along the entire northern edge of the Mt. Carmacks pluton to cover the skarn and quartz stockwork targets. This work should be done in conjunction with detailed mapping, prospecting and reconnaissance soil sampling. Old drill core stored on the property should be relogged and intervals containing quartz stockwork and skarn zones submitted for gold analysis. Assuming favourable results, phase two should include ground geophysical surveys (VLF-EM and magnetic) to delineate structures and/or skarn zones associated with gold-in-soil anomalies followed by diamond drilling to test these targets at depth.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W.A. Wengzynowski, P.Eng.

## INTRODUCTION

The Track property consists of 68 mineral claims held by Eureka Joint Venture which is owned 50% by Expatriate Resources Ltd. and 50% by Nordac Resources Ltd. The claims were staked in spring 1999 to cover a potential lode gold prospect in the central part of the Tintina Gold Belt, a loosely defined 2100 km long zone of gold and silver deposits extending across Alaska and Yukon. This belt is estimated to contain in excess of 69 million ounces of gold based on reported past production and current resource figures. The Track property is situated along the contact of a Mid-Cretaceous stock that has intruded metasediments of the Yukon-Tanana Terrane developing a substantial hornfels and skarn aureole.

All work conducted in 1999 was done by a two-person crew working from a tent camp on the property. The program was managed by Archer, Cathro & Associates (1981) Limited and supervised by the author. Appendix I contains the Author's Statement of Qualifications.

## HISTORY

The area was first staked in 1979 by Noranda Exploration Company Limited which conducted several programs between 1979 and 1983. The first program following the initial staking (66 claims) consisted of reconnaissance prospecting plus geological mapping, linecutting, grid soil sampling and magnetometer surveys on two small grids. This work outlined two strong tungsten-in-soil anomalies (Poinjar and SDJ anomalies) associated with skarn and hornfels alteration developed along the intrusive-metasediment contact. Skarn float from the Poinjar Showing reportedly returned up to 4.5% tungsten oxide (Macdonald, 1980a).

In 1980 Noranda staked an additional 176 claims, bringing the total to 246. It conducted wide spaced grid soil sampling and pan sampling which outlined intermittent copper, lead, zinc and molybdenum anomalies further along the intrusive-metasedimentary contact and within the body of the stock. Ground magnetometer and VLF surveys were conducted at the Poinjar Showing and anomalies were tested by 456 m of BQ diamond drilling in four holes. The drilling intersected significant skarn and hornfels zones, the best intercepts from which yielded up to 0.54% tungsten oxide and 0.55 g/t gold across 0.76 and 0.61 m, respectively (Macdonald, 1980b). Helicopter borne magnetic and VLF-EM surveys were flown in October.

Additional linecutting, detail mapping, prospecting, wide spaced grid soil sampling and ground geophysical surveys were carried out in 1981. This was followed in 1982 with bulldozer trenching and diamond drilling (719 m in seven holes) to test the skarn mineralization at the Poinjar Showing immediately along strike from the previous drilling. Intercepts reportedly returned up to 0.34% tungsten oxide across 12.8 m, including an interval which yielded 1.14% across 1.83 m (Rogers, 1982). The 1983 program consisted of linecutting and hand trenching, plus a detailed ground magnetic survey which generated several small high amplitude magnetic anomalies in the vicinity of the Poinjar Showing.

In 1993 NDU Resources Ltd. conducted *one day of prospecting at the SDJ and Poinjar Showings*. A specimen of limonite boxwork taken near the Poinjar Showing returned 2.7 g/t gold, 1530 ppm bismuth and 1100 ppm tungsten. Two claims were staked but no further work was done.

## PROPERTY, LOCATION AND ACCESS

The property is located in west-central Yukon, 7 km north of the Yukon River, at latitude 64°23'N and longitude 140°12'W on NTS map sheet 116C/8 (Figure 1). It consists of 68 contiguous mineral claims (Figure 2) registered with the Dawson Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for Eureka Joint Venture. Claim registration data are listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Track 1-68	YC13043-YC13110	February 15, 2003

\*Expiry dates include assessment work which has been filed for credit but not yet accepted.

In 1999 access was provided by a Bell 206B Jet Ranger operated by Trans North Helicopters from its permanent base in Dawson City, 40 km southeast of the property. The helicopter moved the crew and gear 14 km northeast from the nearest road access at Cassiar Dome to the property. Cassiar Dome lies 66 km from Dawson City and is reached by the Top of the World Highway and Clinton Creek Road.

A winter access trail is shown on the Yukon Tote Trail map leaving the Klondike Highway near Bear Creek east of Dawson and paralleling the north side of the Yukon River to within about 6 km of the property. The condition of the route is unknown. A bulldozer trail also extends from the Yukon River up onto the property. This bulldozer was likely positioned from Dawson City by barge.

## GEOMORPHOLOGY

Elevations in the vicinity of the property range from 300 m near the Yukon River up to 1030 m along the ridge bordering the southern edge of the claim block. The area escaped Pleistocene glaciation and as a result the landscapes are mature with dendritic drainages forming radial fans off the flanks of upland domes. All creeks draining the property are tributaries of the Yukon River watershed.

North facing slopes are blanketed by moss and labrador tea covering 5 to 100 cm of organic matter and silty soil. Permafrost is prevalent where the organic layer exceeds 50 cm thickness. Southern slopes generally exhibit silty soil with little to no organic material or permafrost.

Vegetation is characterized by mature poplar stands along the Yukon River and lower creek valleys giving way to stunted black spruce and willow then thick growths of buckbrush, willow and juniper atop the domes.

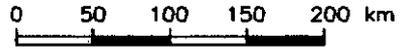
**EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.**

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

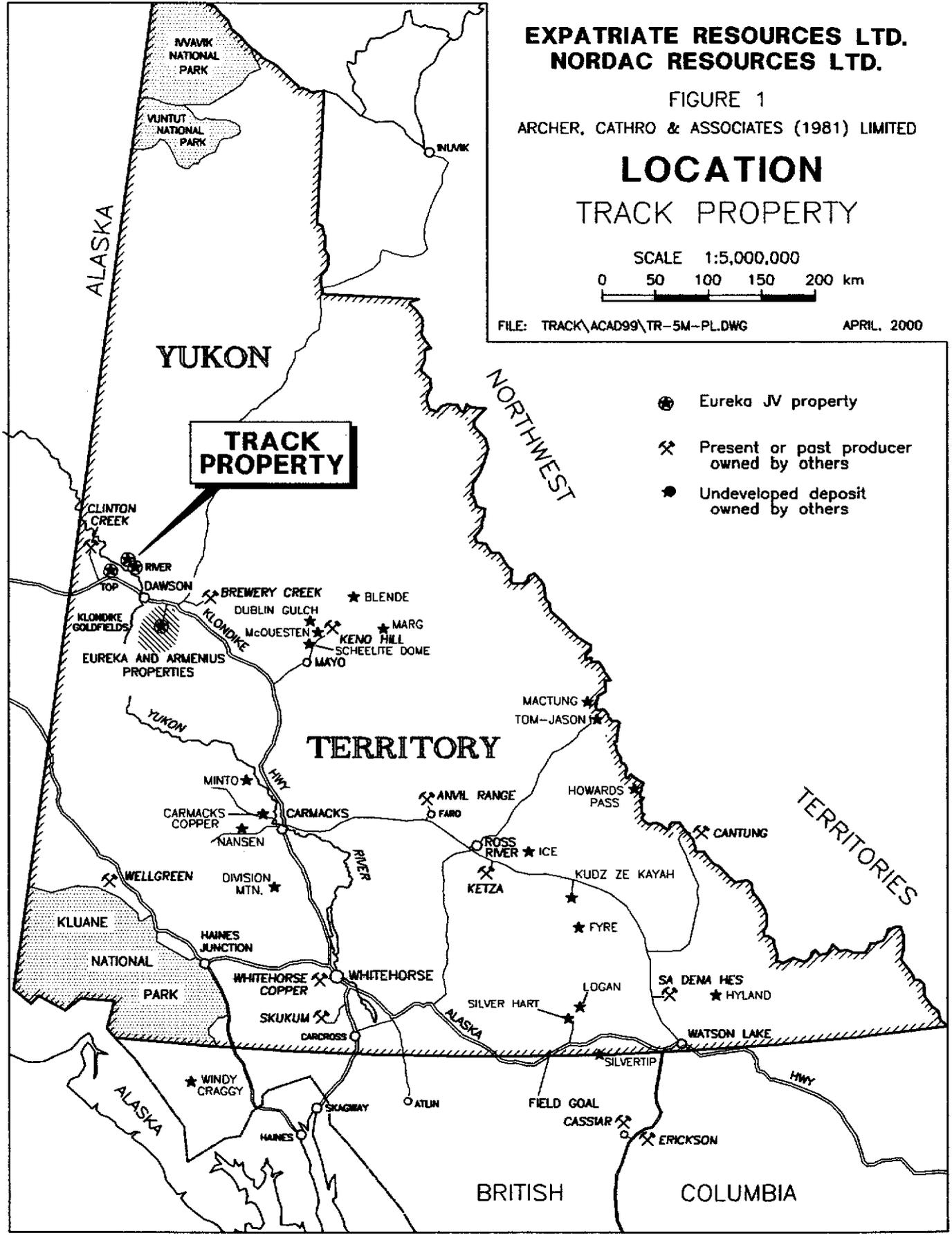
**LOCATION  
TRACK PROPERTY**

SCALE 1:5,000,000

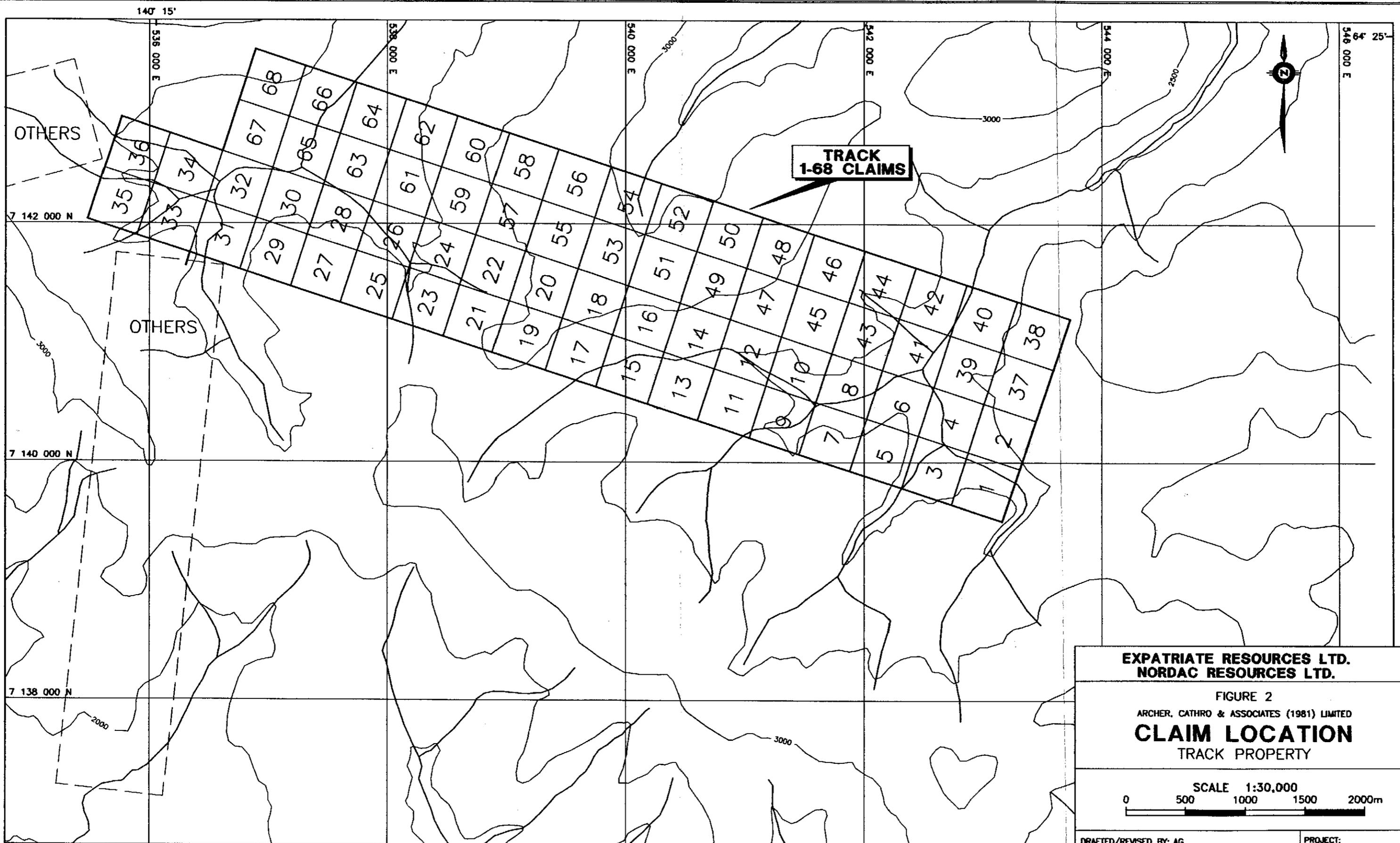


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APRIL, 2000

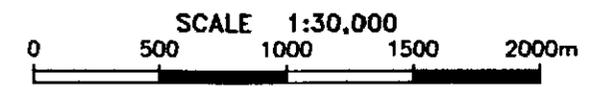


- Eureka JV property
- ⌘ Present or past producer owned by others
- ★ Undeveloped deposit owned by others



**EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.**

**FIGURE 2**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATION**  
TRACK PROPERTY



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FILE: ...TRACK\ACAD99\TR-CLOC.DWG	DATE: APRIL, 2000

## REGIONAL GEOLOGY

Geology in the Dawson district is dominated by a series of regional scale thrust faults that juxtapose layered metamorphic and metaplutonic rocks of the Yukon-Tanana Terrane (YTT). Post thrust, Mid- to Late Cretaceous granitic plutons are common throughout the district. Figure 3 illustrates the distribution of lithologies as interpreted through a variety of sources dating from 1935 to present.

Outcrop exposure is poor across most of the district and is generally confined to ridge crests and deeply incised drainages, making stratigraphic and structural correlation difficult. Most early mapping was done at reconnaissance scale without the aid to geochronology or plate tectonic theories (Bostock, 1942; Green, 1972; Tempelman-Kluit, 1974). Recent, more detailed work by Mortensen (1990) suggests that the metamorphic rocks are part of YTT and can be subdivided into three stratigraphic packages (Assemblages 1, 2 and 3) and two plutonic units (Mt. Burnham Augen Orthogneiss and Sulphur Creek Orthogneiss) all of which are Paleozoic age. The stratigraphic assemblages have undergone four phases of deformation.

### Stratigraphic Units

**Assemblage 1** consists of variably deformed and sheared phyllite and quartzites. These rocks are generally medium to dark grey and sometimes contain thinly interbedded carbonaceous siltstone, fine sandstone and rare marble. Although not dated, these rocks are believed to be Early Paleozoic in age.

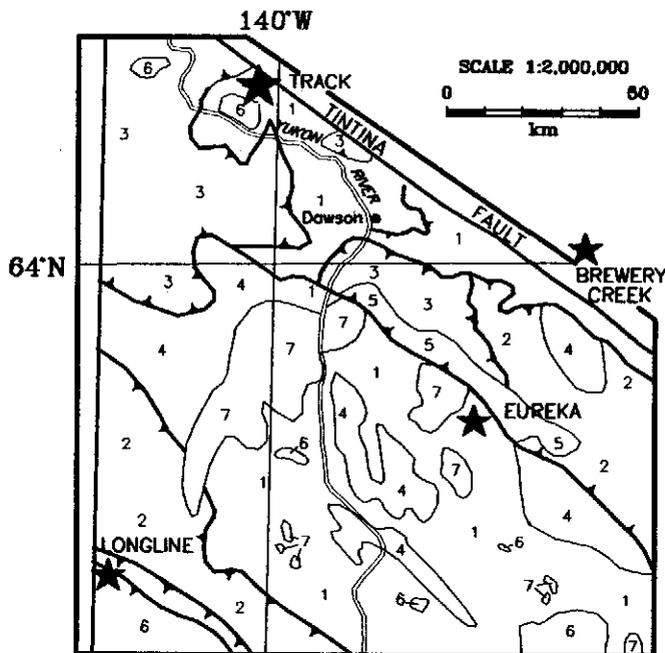
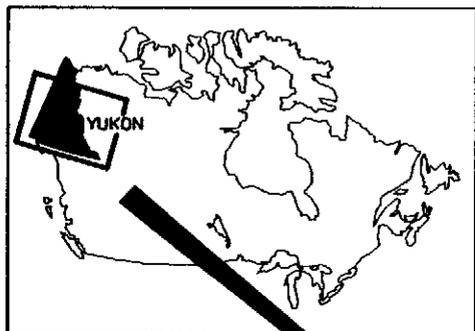
**Assemblage 2** is largely comprised of Devono-Mississippian quartzite, chloritic schist and amphibolite. Quartzite is generally pale coloured and contains variable quantities of mica and feldspar. Discontinuous lenses of marble and calcareous quartz-muscovite-biotite schist are noted in some areas.

**Assemblage 3** consists of mafic to intermediate schist plus quartzite and lesser felsic schist. Accessory minerals observed within schist units include quartz and feldspar augen, actinolite and chlorite. Muscovite is often observed along foliation planes within the quartzite unit. These rocks have returned Permian age dates.

### Metaplutonic Rocks

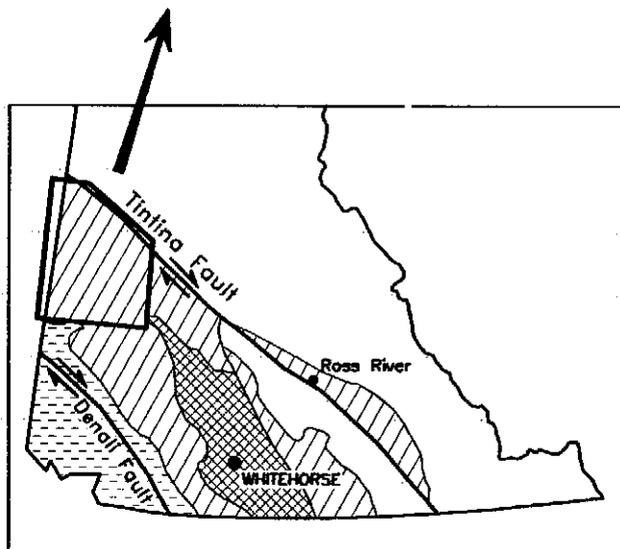
**Mt. Burnham Augen Orthogneiss** is granitic in composition and consists mainly of subhedral to strongly flattened and broken potassium feldspar. The matrix is comprised of surcosic quartz, biotite, muscovite and feldspar. This unit is assigned a Devono-Mississippian age.

**Sulphur Creek Orthogneiss** is a pink weathering unit that has only been recognized in the vicinity of Sulphur Creek. It has a quartz monzonite composition and has been dated as Permian.



- 7 Late Cretaceous volcanic and sedimentary rocks
- 6 Mid- or Late Cretaceous plutonic rocks
- Yukon-Tanana Terrane Metaplutonic rocks
- 5 Permian Orthogneiss
- 4 Devono-Mississippian Augen Orthogneiss
- Yukon-Tanana Terrane Paleozoic Metasedimentary and Metavolcanic rocks
- 3 Assemblage 3
- 2 Assemblage 2
- 1 Assemblage 1

- Coastal and Insular Belts
- Intermontane Belt
- Yukon-Tanana Terrane and Slide Mountain Terrane
- Ancestral North America including Cassiar Terrane



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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**  
TRACK PROPERTY

### **Mid- to Late Cretaceous Igneous Units**

Mid-Cretaceous stocks and related dykes are comprised of quartz, feldspar, muscovite, biotite and sometimes hornblende. Diabase and olivine gabbro lenses and plugs are also documented but are rare. The Mt. Carmacks pluton, which is partially covered by the Track claims, is one of the largest intrusions in the district.

Volcanic flows and feeder dykes are predominantly andesitic in composition and are mapped as overlying Assemblage 1, Mt. Burnham Augen Orthogneiss and the continental sedimentary rocks about 40 km south of the property. The relationship between the Mid-Cretaceous stocks and the volcanic flows is not known.

### **Structure**

The dominant structural feature in the vicinity of the Track property is the Tintina Fault, a dextral transcurrent fault that has seen approximately 450 km of movement since the Mid-Cretaceous (Tempelman-Kluit et al, 1976). This fault lies about 5 km northeast of the property. Steep faults are developed adjacent to some Cretaceous intrusions and are major controls for many drainages. Displacements on these structures are unknown but appear to be minor. Many trend northeasterly and are likely extensional structures related to strike-slip movement on the Tintina and Denali Faults.

Four phases of deformation are observed in layered rocks of the YTT within the Dawson district. The deformation is thought to have occurred from Mid-Permian to Cretaceous during and following accretion of YTT to North America. Phase I involved Mid-Permian regional scale metamorphism which resulted in penetrative foliation approximately parallel to original bedding. This fabric trends roughly northwest and dips gently to the northeast. Small scale isoclinal folds were also developed at this time. The Phase II event occurred between Mid-Permian and Late Triassic and formed close spaced crenulation cleavage. At least three different sub-phases of crenulation cleavage are observed. The latest may be associated with the development of thrust faults which are constrained to the period between Late Triassic and Early Jurassic. The onset of this faulting is also coincident with the emplacement of serpentinite bodies along the faults and small scale isoclinal folding, link banding and warping. The final phase of deformation is coeval with the emplacement of Cretaceous intrusive bodies which resulted in broad low amplitude folding that masks and overprints the Phase I foliation.

## PROPERTY GEOLOGY

No detailed mapping was performed on the claim block in 1999 however, rock types and structural measurements were noted where outcrops were encountered during stream sediment sampling and prospecting traverses. The geology map presented on Figure 4 is largely based on previous detail mapping by Noranda (Grapes, 1981).

Seven rock types are documented on the property as described below. The first five are stratigraphic units of Assemblage 1 while the other two are intrusive units.

### Stratigraphic Units

**Biotite-muscovite-chlorite-quartz schist** is brown to pale green-grey and thinly foliated. Differential weathering is common due to varying quartz content and specimens are non- to moderately calcareous.

**Graphite schist** is dark grey to black, friable and recessive weathering. Some outcrops contain foliaform metamorphic quartz and calcite veins.

**Marble** is grey, massive to moderately foliated, coarsely crystalline and buff weathering. It occurs as narrow bands up to 3 m thick within the schist units described above.

**Hornfels** is rusty weathering and generally strongly fractured. Quartz eyes have been noted by previous mappers and are developed parallel to foliation. These rocks are developed in close proximity to the stock and are interbanded with schists, marble and skarn.

**Skarn** can be subdivided into three types: banded skarn, diopside skarn and garnet-diopside skarn. Designation of the three types is mostly subjective and it should be noted that most contacts are gradational. These rocks are rusty weathering and dark green or brown on fresh surfaces. Sulphide blebs and disseminations are common in this unit.

### Igneous Units

**Granodiorite** forms a 7 km diameter stock (Mt. Carmacks pluton), the northern edge of which parallels the southwestern claim boundary. It is tan to grey, coarsely crystalline and weakly to moderately foliated. The foliation is likely concentric and is related to emplacement of the intrusion. The main body consists of coarse grained quartz, biotite, feldspar and hornblende. The margin of the intrusion is finer grained and exhibits a higher degree of foliation and alteration which includes epidote, talc and clay minerals on the selvages of veinlets. Uranium-lead modelling from zircon analyses returned an age of 112 Ma (Mortensen et al, 2000).

**Diorite and rhyolite** occurs in porphyry dykes and sills that cut both the granodiorite and stratigraphic units. These bodies may be a late magnetic phase of the intrusion or sub-volcanic feeders to Late Cretaceous or Tertiary volcanic flows.

## **Structure**

Stratigraphic units strike northwesterly across the property roughly parallel to the surface trace of the intrusive contact. Compositional layering and foliation dip shallowly (between 5 and 38°) to the southwest and northeast indicating broad folds. Fold hinges have not been identified but the frequency and amplitude of folding decrease away from the intrusive contact. No isoclinal folds were noted but it is assumed that the broad folds are superimposed on earlier tighter folds which produced the foliation.

Large scale faults are not recognized on surface but are suspected to coincide with north and northeast trending creeks draining the property. Small scale faults and fractures are prevalent within the stratigraphic units and are often associated with quartz-carbonate veining. The most common vein orientations form a conjugate set with northeasterly and northwesterly strikes and steep southwesterly and northeasterly dips.

## **PROPERTY GEOCHEMISTRY AND MINERALIZATION**

Sixty-three stream sediment samples and four soil samples were taken from drainages in the vicinity of the property, as shown on Figure 5. The sites are indicated by orange and blue flagging marked with felt pen. All samples were sent to Chemex Labs Ltd. in North Vancouver where they were dried and sieved to -80 mesh, dissolved in nitric-aqua regia and analyzed geochemically for 32 elements using the Induced Coupled Plasma (ICP) technique. Each sample was also analyzed for gold using fire assay plus atomic absorption finish. Certificates of Analysis are contained in Appendix II.

Eight of sixty-seven samples returned gold values exceeding the 5 ppb detection limit ranging up to 35 ppb. Associated pathfinder elements, arsenic, bismuth, antimony and tungsten, were low. The majority of the anomalous gold values were obtained from creeks draining south facing slopes within the stock. Geochemical response was subdued in the creeks draining the Poinjar and SDJ Showings.

Twenty-seven rock samples taken from various locales on the property in 1999 were sent to Chemex Labs where they were crushed to -150 mesh, dissolved in nitric-aqua regia and analyzed for 32 elements using the ICP technique. All samples were also analyzed for gold using fire assay and atomic absorption. Samples exceeding upper limits for any base or precious metal were automatically reanalyzed for that metal. Rock sample sites are indicated with orange and blue flagging marked with felt pen. Sample locations and significant gold results are illustrated on Figure 5. Samples taken in the vicinity of the Poinjar Showing and significant results for gold and pathfinder elements are illustrated on Figure 6. Certificates of Analysis are in Appendix II while rock sample descriptions appear in Appendix III.

Prospecting along creek cuts and old bulldozer trails recognized three types of mineralization: sulphide bearing quartz vein float, limonite boxwork and sulphide bearing skarn material. The majority of the samples collected were from the Poinjar Showing.

Quartz vein float is the most abundant type of mineralization seen on the property. Specimens range from 1 to 20 cm in width. Colour varies from clear and transparent to white and opaque while textures are aphanitic to sucrosic. Many specimens are highly strained and exhibit a dominant fracture direction parallel to the length of the vein. Small orange and black pits are commonly scattered throughout the quartz. The orange pits are probably weathered sulphide or carbonate while the black is likely manganese. None of the specimens collected in 1999 returned above background gold values but a similar sample taken by NDU in 1993 reportedly returned 1.2 g/t gold, 0.21% bismuth and 359 ppm molybdenum.

Core from four of the Noranda drill holes left on the property (DDH-8 to DDH-11) was briefly examined in 1999. Quartz vein stockwork with disseminated pyrite and minor chalcopyrite and narrow chlorite-epidote alteration selvages was observed in sections of the granodiorite near the bottom of the holes. None of this material was analyzed.

Limonite boxwork was discovered in two bulldozer trenches on either side of Poinjar Creek. Both specimens exhibit strong yellow-brown oxidation and are weakly to moderately manganese stained. The limonite appears to be supported by a matrix of small white quartz fragments. Sample M451803, from the south side of the creek, returned 3.59 g/t gold, 1.6 g/t silver, 1655 ppm bismuth, 56 ppm molybdenum and 810 ppm tungsten. Only one piece of this material was found. The other sample (M451813) was found in abundance on the north side of the creek and returned 745 ppb gold, 1.6 g/t silver, 790 ppm bismuth, 1075 ppm copper, 96 ppm molybdenum and 710 ppm tungsten.

Skarn mineralization is rusty weathering and dark green to brown on fresh surfaces. The most common sulphides present in order of decreasing abundance are pyrrhotite, pyrite, sphalerite and chalcopyrite. All sulphides occur as disseminations and irregular blebs. The matrix consists dominantly of diopside, garnet and actinolite. Some specimens also contain a stockwork of milky quartz veinlets. Skarn specimens returned up to 635 ppb gold, 4.8 g/t silver, 348 ppm bismuth, 41 ppm molybdenum, 1510 ppm lead, 670 ppm tungsten and 4.53% zinc.

## **DISCUSSION AND CONCLUSIONS**

The Track property covers an excellent intrusive related thermal aureole gold target within the Tintina Gold Belt. This belt hosts a variety of deposit types, some with geological features and geochemical characteristics similar to those observed at the Track property. The greatest similarities are with the Pogo Deposit located in east-central Alaska and the Dublin Gulch Deposit located in central Yukon. Each deposit contains a multi-million ounce resource.

The Pogo Deposit, owned by Teck Corporation and Sumitomo Metal Mining, hosts a proximal, intrusive related resource exceeding 5.2 million ounces of gold. Local stratigraphy is described as Proterozoic and Paleozoic gneiss of the Yukon-Tanana Terrane that has been intruded by Mid-Cretaceous granitoids exhibiting low magnetic susceptibility. The deposit is situated between the Tintina and Denali Faults and is flanked by smaller scale northeast trending extensional faults. The surface expression of the deposit was initially indicated by strong gold-tungsten stream sediment geochemistry and later by a 2.56 sq km soil geochemical anomaly containing greater than 100 ppb gold values. Drilling identified three laterally continuous quartz lenses that average about 97% quartz and 3% sulphide minerals (Smith et al, 2000). The quartz lenses are contained in gently dipping, low angle shear zones that are slightly discordant to foliation. These lenses are believed to be related to both vein emplacement and replacement processes. Gold is strongly correlated with bismuth, silver, arsenic and tellurium. Quartz stockwork zones occur between the quartz lenses, within the intrusive rocks adjacent to them and in sub-vertical fractures extending from the quartz lenses to surface. The discovery hole was largely drilled in stockwork material averaging 1.1 g/t gold over 192 m.

New Millennium Mines Ltd.'s mineable gold reserve at Dublin Gulch is reportedly 1.51 million ounces contained within and immediately peripheral to a Tombstone Suite intrusive stock that has intruded metasediments of the Selwyn Basin (YED, 2000). The stock is situated at the east end of the Tombstone Thrust Belt and north of the Tintina Fault. Gold is contained in sheeted quartz veins that are typically white to smoky coloured, 5 to 10 mm wide and occur at densities between 1 and 15 per metre. Gold occurs as free grains or on the boundaries of sulphide grains, mainly bismuthinite and arsenopyrite. The total sulphide content of the deposit is low, not exceeding 0.2%. Alteration assemblages around the vein selvages include sericite, quartz and carbonate. Scheelite bearing skarn zones without significant gold are developed along the margin of the stock.

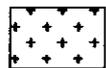
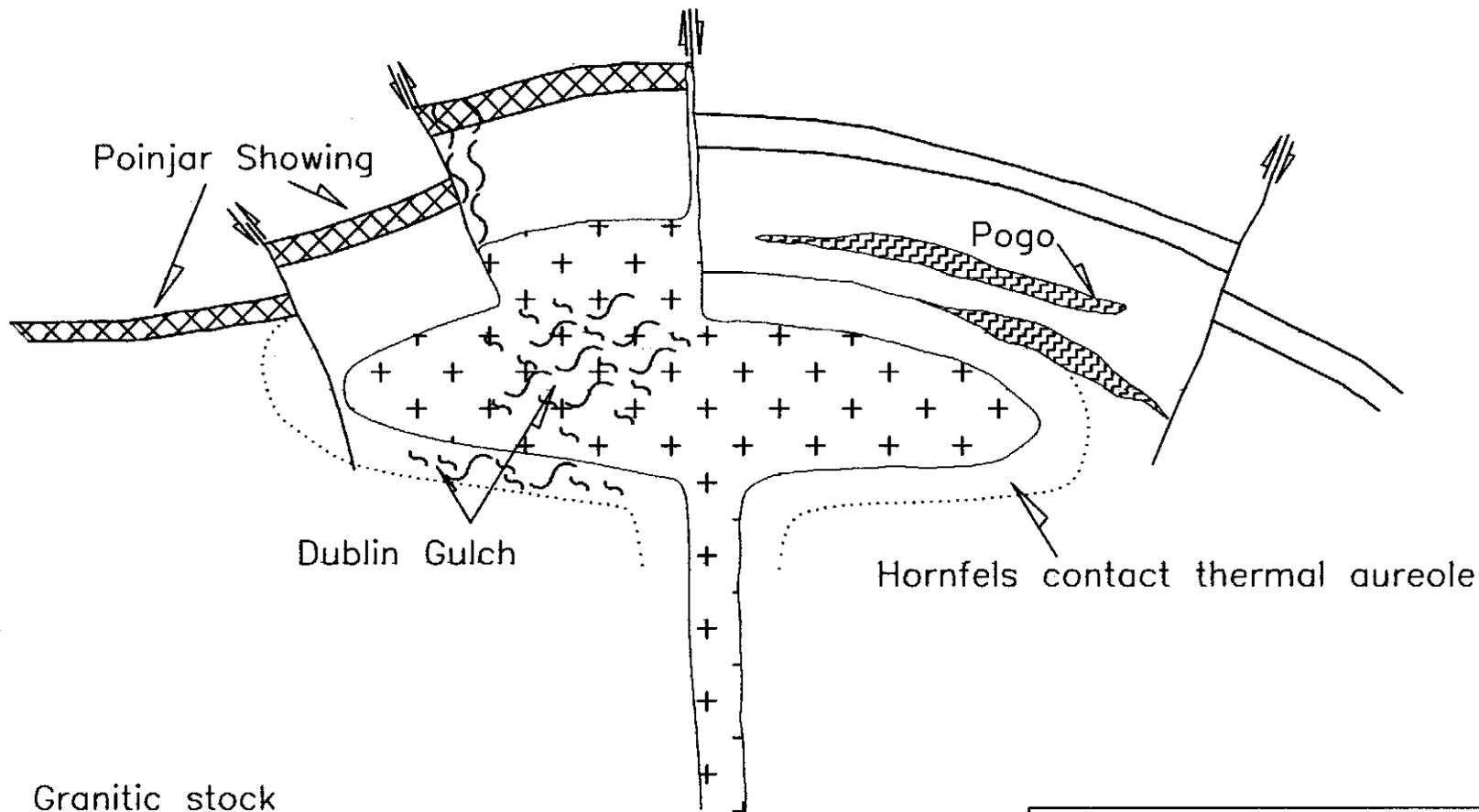
Although soil geochemical sampling along the trend of the mineralized skarn horizons at the Track property is widely spaced and has not been done for gold, significant tungsten anomalies have been identified. Previous exploration was specifically directed toward tungsten bearing skarn mineralization and no systematic evaluation has been done for gold potential.

Stream sediment samples from creeks draining the Mt. Carmacks pluton returned mostly subdued values for gold, arsenic, bismuth and tungsten even in the vicinity of previously identified showings. This response is most likely attributed to high flow rates at the time of sampling and the presence of overflow ice sheets in many creek cuts. Prospecting successfully

discovered significant gold bearing float at the Poinjar Showing where Noranda conducted most of its exploration. These samples also produced strong bismuth and tungsten values which is characteristic of a proximal intrusive setting. The short duration of the program and thick vegetation cover precluded systematic follow-up of these discoveries. Abundant quartz float was encountered in many of the creeks but distinguishing vein quartz from metamorphic quartz was not possible. Some quartz veins discovered near the SDJ Showing exceed 2 m in width. Although chip samples taken across these veins returned low values for gold and the typical pathfinder elements, it is encouraging the quartz veins of this size are present.

A cartoon illustration of the various deposit types described above is shown on Figure 7. The geological setting of the Poinjar Showing is shown within a generalized model which also illustrates the relative positions of possible Pogo- or Dublin Gulch-type targets that could be present on the Track property.

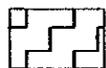
# Doming and radial fracturing



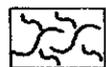
Granitic stock



Skarnified metasediments



Zone of silicification



Quartz vein

## EUREKA JOINT VENTURE

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## DEPOSIT MODEL

TRACK PROPERTY

DRAWN/REVISED BY: WAW

PROJECT: EJV

FILE: ..EUREKA\TRACK\ACAD99\DEPMOD.DWG

DATE: APRIL, 2000

**REFERENCES**

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**APPENDIX I**

**AUTHOR'S STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, William A. Wengzynowski, geological engineer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.A.Sc. in geological engineering, option 1, mineral and fuel exploration.
2. I became a Professional Engineer on December 12, 1998 registered in the Province of British Columbia.
3. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in and supervised the field work reported herein.



W.A. Wengzynowski, P.Eng.

**APPENDIX II**  
**CERTIFICATES OF ANALYSIS**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

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Account : RDF

## CERTIFICATE OF ANALYSIS

A9921701

SAMPLE	PREP CODE		Zn %									
M451855	212	--	4.53									

OVERLIMITS from A9920746

CERTIFICATION:



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## CERTIFICATE OF ANALYSIS A9920746

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
M451801	205 226	< 5	< 0.2	0.13	2	10	60	< 0.5	< 2	0.09	< 0.5	3	281	13	0.89	< 10	< 1	0.01	< 10	0.08
M451802	205 226	15	0.4	4.42	24	10	310	>100.0	112	4.21	< 0.5	9	33	161	3.95	20	< 1	0.11	10	0.29
M451803	205 226	3590	1.6	1.29	32	10	190	21.0	1655	0.63	1.0	24	52	251	>15.00	10	< 1	0.06	20	0.43
M451804	205 226	< 5	< 0.2	0.10	6	10	400	1.5	10	1.91	< 0.5	1	134	4	1.21	< 10	< 1	0.02	< 10	0.16
M451805	205 226	< 5	< 0.2	0.03	2	< 10	60	< 0.5	2	3.50	< 0.5	< 1	167	4	1.05	< 10	< 1	< 0.01	< 10	0.44
M451806	205 226	< 5	< 0.2	0.06	< 2	10	30	< 0.5	6	0.04	< 0.5	1	196	3	0.29	< 10	< 1	0.03	< 10	< 0.01
M451807	205 226	< 5	< 0.2	0.15	2	10	60	< 0.5	< 2	0.24	< 0.5	3	202	10	0.83	< 10	< 1	0.08	< 10	0.01
M451808	205 226	< 5	< 0.2	0.05	< 2	< 10	< 10	< 0.5	< 2	0.03	< 0.5	1	168	12	0.41	< 10	< 1	< 0.01	< 10	0.02
M451809	205 226	< 5	< 0.2	0.08	< 2	< 10	10	< 0.5	2	0.98	< 0.5	2	182	13	0.57	< 10	< 1	0.01	< 10	0.16
M451810	205 226	< 5	< 0.2	0.06	< 2	10	< 10	< 0.5	< 2	1.91	< 0.5	1	181	7	0.52	< 10	< 1	0.01	< 10	0.16
M451811	205 226	< 5	0.2	0.14	8	10	480	< 0.5	2	5.76	< 0.5	3	144	3	4.08	< 10	1	0.06	< 10	0.13
M451812	205 226	< 5	0.2	0.56	18	< 10	770	< 0.5	< 2	1.02	< 0.5	8	107	37	2.54	< 10	< 1	0.22	10	0.23
M451813	205 226	745	1.6	1.14	18	10	10	56.5	790	0.32	< 0.5	43	29	1075	>15.00	30	1	0.01	10	0.16
M451851	205 226	< 5	< 0.2	0.21	< 2	10	30	< 0.5	< 2	0.04	< 0.5	2	272	7	0.72	< 10	< 1	0.01	< 10	0.12
M451852	205 226	635	0.4	2.55	2	10	140	36.5	348	2.79	< 0.5	3	35	37	2.85	10	< 1	0.12	10	0.18
M451853	205 226	< 5	0.2	0.23	< 2	< 10	10	< 0.5	2	>15.00	< 0.5	1	41	18	0.68	< 10	1	0.03	< 10	0.20
M451854	205 226	< 5	0.2	0.05	6	< 10	20	< 0.5	< 2	6.37	< 0.5	6	102	< 1	5.01	< 10	1	0.02	< 10	2.18
M451855	205 226	< 5	4.8	0.15	< 2	< 10	90	< 0.5	< 2	4.05	197.0	14	130	3	3.06	< 10	16	0.09	< 10	1.63
M451856	205 226	< 5	< 0.2	0.04	6	< 10	100	< 0.5	Intf*	2.36	< 0.5	42	224	< 1	2.66	10	< 1	< 0.01	< 10	>15.00
M451857	205 226	< 5	< 0.2	0.02	2	< 10	< 10	< 0.5	< 2	0.02	< 0.5	2	255	3	0.44	< 10	< 1	< 0.01	< 10	0.03
M451858	205 226	< 5	< 0.2	0.12	< 2	10	< 10	< 0.5	< 2	0.22	< 0.5	1	228	5	0.53	< 10	< 1	0.01	< 10	0.05
M451859	205 226	< 5	< 0.2	2.45	8	< 10	90	1.5	< 2	2.17	< 0.5	19	181	51	1.91	< 10	< 1	0.30	< 10	0.72
M451860	205 226	< 5	< 0.2	0.05	< 2	10	< 10	< 0.5	10	0.03	< 0.5	1	348	4	0.44	< 10	< 1	0.01	< 10	< 0.01
M451861	205 226	< 5	< 0.2	0.18	2	10	340	< 0.5	< 2	2.50	< 0.5	2	165	6	1.38	< 10	< 1	0.05	< 10	0.84
M451862	205 226	< 5	< 0.2	0.18	2	< 10	180	< 0.5	< 2	2.39	< 0.5	2	152	8	1.35	< 10	< 1	0.06	< 10	0.63
M451863	205 226	< 5	< 0.2	0.19	2	10	260	< 0.5	< 2	2.04	< 0.5	1	136	5	1.31	< 10	< 1	0.05	< 10	0.60
M451864	205 226	< 5	< 0.2	0.07	< 2	< 10	60	< 0.5	< 2	0.22	< 0.5	< 1	170	4	0.50	< 10	< 1	0.01	< 10	0.04

\* INTERFERENCE: HIGH Mg ON Bi & P.

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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

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Project : EUREKA-TRACK  
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## CERTIFICATE OF ANALYSIS A9920746

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M451801	205 226	220	4 < 0.01		6	20	2 < 0.01	< 2		1	3 < 0.01	< 10	< 10	< 10	5	< 10	16
M451802	205 226	1925	62 0.66		12	1610	18 0.30	< 2		< 1	132 < 0.01	< 10	< 10	< 10	5	210	138
M451803	205 226	3870	56 < 0.01		36	1230	14 0.03	< 2		7	24 < 0.01	< 10	< 10	50	49	810	322
M451804	205 226	420	2 < 0.01		4	40	< 2 0.01	< 2		1	37 < 0.01	< 10	< 10	< 10	3	< 10	10
M451805	205 226	515	3 < 0.01		3	70	< 2 0.38	< 2		1	84 < 0.01	< 10	< 10	< 10	3	< 10	14
M451806	205 226	185	2 < 0.01		5	120	< 2 < 0.01	< 2		< 1	1 < 0.01	< 10	< 10	< 10	1	< 10	8
M451807	205 226	185	6 < 0.01		8	90	4 < 0.01	< 2		1	3 < 0.01	< 10	< 10	< 10	3	< 10	18
M451808	205 226	50	< 1 < 0.01		5	50	22 < 0.01	< 2		< 1	< 1 < 0.01	< 10	< 10	< 10	1	< 10	20
M451809	205 226	190	4 < 0.01		8	30	< 2 < 0.01	< 2		< 1	16 < 0.01	< 10	< 10	< 10	2	< 10	2
M451810	205 226	290	5 < 0.01		4	10	< 2 0.01	< 2		< 1	31 < 0.01	< 10	< 10	< 10	2	< 10	2
M451811	205 226	2500	2 < 0.01		6	210	4 < 0.01	< 2		2	34 < 0.01	< 10	< 10	< 10	5	< 10	16
M451812	205 226	415	3 0.01		38	370	10 0.10	2		4	32 < 0.01	< 10	< 10	< 10	11	< 10	76
M451813	205 226	1520	96 < 0.01		18	1020	18 0.08	< 2		2	23 0.01	< 10	< 10	40	69	710	92
M451851	205 226	95	6 < 0.01		6	40	2 < 0.01	< 2		< 1	1 < 0.01	< 10	< 10	< 10	6	20	6
M451852	205 226	1695	41 0.46		5	550	4 0.07	< 2		< 1	67 0.01	< 10	< 10	< 10	5	670	64
M451853	205 226	280	< 1 < 0.01		8	700	20 0.01	< 2		< 1	1255 < 0.01	< 10	< 10	< 10	6	< 10	12
M451854	205 226	1960	< 1 < 0.01		17	80	14 < 0.01	< 2		2	111 < 0.01	< 10	< 10	< 10	1	< 10	84
M451855	205 226	1450	7 1.57		21	370	1510 1.98	< 2		2	107 < 0.01	< 10	< 10	< 10	1	10	>10000
M451856	205 226	560	1 < 0.01		542	Intf*	10 0.01	6		2	323 < 0.01	< 10	< 10	< 10	4	< 10	100
M451857	205 226	20	3 < 0.01		11	10	8 < 0.01	< 2		< 1	1 < 0.01	< 10	< 10	< 10	1	< 10	114
M451858	205 226	25	5 < 0.01		5	650	< 2 < 0.01	< 2		< 1	10 < 0.01	< 10	< 10	< 10	4	< 10	8
M451859	205 226	565	25 0.07		55	450	2 0.33	< 2		3	80 0.18	< 10	< 10	< 10	31	< 10	76
M451860	205 226	30	7 < 0.01		6	10	< 2 < 0.01	< 2		< 1	< 1 < 0.01	< 10	< 10	< 10	2	< 10	6
M451861	205 226	775	3 < 0.01		14	150	6 0.03	< 2		1	93 < 0.01	< 10	< 10	< 10	4	< 10	26
M451862	205 226	785	5 < 0.01		7	170	6 0.01	< 2		1	82 < 0.01	< 10	< 10	< 10	5	< 10	24
M451863	205 226	675	3 < 0.01		8	150	2 0.01	< 2		1	83 < 0.01	< 10	< 10	< 10	4	< 10	18
M451864	205 226	120	5 < 0.01		6	50	2 < 0.01	< 2		< 1	4 < 0.01	< 10	< 10	< 10	3	< 10	8

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WHITEHORSE, YT  
Y1A 3S9

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Project : EUREKA-TRACK  
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## CERTIFICATE OF ANALYSIS A9920737

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BB4901	201 202	< 5	< 0.2	1.02	< 2	< 10	220	< 0.5	< 2	0.36	< 0.5	8	18	19	1.81	< 10	< 1	0.06	10	0.39
BB4902	201 202	< 5	< 0.2	1.05	4	< 10	240	< 0.5	< 2	0.42	< 0.5	9	18	24	2.00	< 10	< 1	0.07	10	0.39
BB4903	201 202	< 5	< 0.2	1.53	4	< 10	470	< 0.5	< 2	0.73	0.5	13	27	42	2.82	< 10	< 1	0.12	30	0.45
BB4904	201 202	< 5	0.2	0.95	6	< 10	430	< 0.5	< 2	0.57	0.5	16	17	60	3.39	< 10	< 1	0.12	20	0.38
BB4905	201 202	< 5	< 0.2	1.49	10	< 10	300	< 0.5	< 2	0.54	< 0.5	11	37	18	2.63	< 10	< 1	0.12	20	0.61
BB4906	201 202	< 5	0.2	0.99	6	< 10	380	< 0.5	< 2	0.54	< 0.5	15	18	51	3.08	< 10	< 1	0.11	20	0.39
BB4907	201 202	< 5	< 0.2	2.56	< 2	< 10	250	< 0.5	< 2	0.44	< 0.5	16	50	20	3.47	< 10	< 1	0.25	20	1.05
BB4908	201 202	< 5	< 0.2	2.29	< 2	10	220	< 0.5	< 2	0.40	< 0.5	15	44	17	3.23	< 10	< 1	0.24	20	0.97
BB4909	201 202	< 5	< 0.2	1.82	2	10	220	< 0.5	< 2	0.28	< 0.5	10	30	26	2.94	< 10	< 1	0.04	20	0.59
BB4910	201 202	< 5	< 0.2	1.42	2	10	130	< 0.5	< 2	0.23	< 0.5	6	27	11	1.89	< 10	< 1	0.06	10	0.48
BB4911	201 202	< 5	< 0.2	1.72	< 2	< 10	200	< 0.5	< 2	0.25	< 0.5	8	30	16	2.82	< 10	< 1	0.05	20	0.48
BB4912	201 202	< 5	< 0.2	1.69	< 2	< 10	150	< 0.5	< 2	0.36	< 0.5	11	34	12	2.39	< 10	< 1	0.19	10	0.74
BB4913	201 202	< 5	< 0.2	2.93	< 2	< 10	250	< 0.5	< 2	0.45	< 0.5	18	58	20	3.46	< 10	< 1	0.25	30	1.11
BB4914	201 202	< 5	< 0.2	1.68	< 2	< 10	140	< 0.5	< 2	0.34	< 0.5	9	32	15	2.43	< 10	< 1	0.22	10	0.62
BB4915	201 202	< 5	0.2	1.33	42	< 10	260	< 0.5	< 2	0.55	< 0.5	8	20	10	6.57	< 10	1	0.07	10	0.40
BB4916	201 202	< 5	< 0.2	1.07	2	< 10	150	< 0.5	< 2	0.30	< 0.5	5	15	6	1.60	< 10	< 1	0.07	10	0.39
BB4917	201 202	< 5	0.2	3.49	< 2	< 10	90	1.5	< 2	0.37	< 0.5	20	44	38	5.50	10	< 1	0.71	50	1.38
BB4918	201 202	< 5	< 0.2	2.64	< 2	< 10	160	0.5	< 2	0.67	< 0.5	15	47	28	3.44	10	< 1	0.27	30	1.07
BB4919	201 202	< 5	< 0.2	1.51	< 2	< 10	250	< 0.5	< 2	0.46	< 0.5	7	22	12	2.12	< 10	1	0.09	10	0.49
BB4920	201 202	< 5	< 0.2	1.27	4	< 10	230	< 0.5	< 2	0.48	< 0.5	8	22	13	2.15	< 10	< 1	0.06	10	0.42
BB4921	201 202	< 5	< 0.2	1.08	16	< 10	190	< 0.5	< 2	0.42	< 0.5	7	18	9	2.17	< 10	< 1	0.07	10	0.34
BB4922	201 202	15	< 0.2	1.38	8	< 10	180	< 0.5	< 2	0.32	< 0.5	6	16	6	1.85	< 10	< 1	0.12	20	0.42
BB4923	201 202	< 5	< 0.2	1.20	6	< 10	210	< 0.5	< 2	0.41	< 0.5	6	19	11	1.65	< 10	< 1	0.09	10	0.41
BB4924	201 202	< 5	0.2	0.65	54	10	640	< 0.5	< 2	1.29	< 0.5	7	10	7	>15.00	< 10	1	0.06	10	0.21
BB4925	201 202	< 5	< 0.2	1.05	8	< 10	180	< 0.5	< 2	0.36	< 0.5	6	16	8	1.55	< 10	< 1	0.05	10	0.35
BB4926	201 202	< 5	< 0.2	1.22	12	< 10	210	< 0.5	< 2	0.45	< 0.5	7	19	9	1.97	< 10	< 1	0.07	10	0.43
BB4927	201 202	< 5	< 0.2	1.24	8	< 10	220	< 0.5	< 2	0.48	< 0.5	7	20	10	2.04	< 10	< 1	0.07	10	0.44
BB4928	201 202	< 5	0.8	2.67	38	< 10	370	< 0.5	< 2	0.51	< 0.5	19	64	46	4.45	10	< 1	0.40	30	1.40
BB4929	201 202	< 5	< 0.2	1.21	10	< 10	160	< 0.5	< 2	0.59	< 0.5	7	18	9	2.08	< 10	< 1	0.08	10	0.44
BB4930	201 202	15	< 0.2	1.72	10	< 10	280	< 0.5	< 2	0.28	< 0.5	8	25	16	2.43	< 10	< 1	0.15	10	0.48
BB4931	201 202	< 5	< 0.2	1.14	10	< 10	360	< 0.5	< 2	0.76	< 0.5	8	22	21	2.08	< 10	< 1	0.06	10	0.61
BB4932	201 202	10	< 0.2	1.19	8	< 10	190	< 0.5	< 2	0.51	< 0.5	7	19	11	1.93	< 10	< 1	0.07	10	0.45
BB4933	201 202	< 5	< 0.2	1.25	26	< 10	140	< 0.5	< 2	0.51	< 0.5	6	15	6	2.00	< 10	< 1	0.11	20	0.43
BB4934	201 202	15	< 0.2	1.32	14	< 10	240	< 0.5	< 2	0.59	< 0.5	8	23	16	2.26	< 10	< 1	0.07	10	0.52
BB4935	201 202	< 5	< 0.2	1.24	10	< 10	160	< 0.5	< 2	0.55	< 0.5	7	20	8	2.31	< 10	< 1	0.08	20	0.45
BB4936	201 202	< 5	< 0.2	1.43	12	< 10	230	< 0.5	< 2	0.61	< 0.5	7	25	15	2.08	< 10	< 1	0.08	10	0.50
BB4937	201 202	< 5	< 0.2	1.16	14	< 10	170	< 0.5	< 2	0.53	< 0.5	7	22	12	2.09	< 10	< 1	0.07	10	0.42
BB4938	201 202	< 5	< 0.2	1.56	14	< 10	170	0.5	< 2	0.61	< 0.5	8	23	12	2.26	< 10	< 1	0.10	20	0.54
BB4939	201 202	< 5	< 0.2	2.71	14	< 10	150	0.5	< 2	0.70	< 0.5	10	45	8	3.14	< 10	< 1	0.15	30	1.18
BB4940	201 202	< 5	< 0.2	1.36	16	< 10	430	< 0.5	< 2	0.47	< 0.5	9	24	24	2.34	< 10	< 1	0.06	10	0.52

CERTIFICATION:



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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: EUREKA JOINT VENTURE  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

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 Certificate Date: 30-JUN-1999  
 Invoice No. : I9920737  
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 Account : RDF

Project : EUREKA-TRACK  
 Comments :

## CERTIFICATE OF ANALYSIS A9920737

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB4901	201 202	315	1 < 0.01		22	570	10	0.05	< 2	3	24	0.04	< 10	< 10	24	< 10	80
BB4902	201 202	410	1 < 0.01		25	630	10	0.06	< 2	4	29	0.04	< 10	< 10	25	< 10	92
BB4903	201 202	350	1 < 0.01		37	690	16	0.06	< 2	5	50	0.03	< 10	< 10	32	< 10	110
BB4904	201 202	1235	2 < 0.01		52	730	16	0.08	< 2	5	42	0.01	< 10	< 10	23	< 10	200
BB4905	201 202	430	1 < 0.01		32	690	18	0.03	< 2	5	37	0.04	< 10	< 10	38	< 10	102
BB4906	201 202	1040	3 < 0.01		46	720	14	0.07	< 2	5	37	0.02	< 10	< 10	24	< 10	170
BB4907	201 202	355	1 < 0.01		31	570	12	0.05	< 2	7	33	0.08	< 10	< 10	57	< 10	78
BB4908	201 202	325	< 1 < 0.01		27	620	8	0.04	< 2	6	28	0.07	< 10	< 10	51	< 10	72
BB4909	201 202	280	1 < 0.01		24	320	16	0.01	< 2	4	22	0.04	< 10	< 10	39	< 10	60
BB4910	201 202	125	< 1 < 0.01		16	530	8	0.01	< 2	3	16	0.05	< 10	< 10	37	< 10	46
BB4911	201 202	190	< 1 < 0.01		17	620	10	< 0.01	< 2	4	16	0.07	< 10	< 10	47	< 10	54
BB4912	201 202	165	1 < 0.01		22	890	6	0.03	< 2	4	21	0.05	< 10	< 10	36	< 10	52
BB4913	201 202	365	1 < 0.01		34	630	10	0.03	< 2	7	30	0.07	< 10	< 10	61	< 10	84
BB4914	201 202	240	< 1 < 0.01		19	700	8	0.01	< 2	4	22	0.06	< 10	< 10	39	< 10	50
BB4915	201 202	735	1 < 0.01		13	1650	14	0.05	< 2	4	46	0.04	< 10	10	43	< 10	66
BB4916	201 202	190	< 1 < 0.01		10	740	10	0.01	< 2	3	17	0.04	< 10	< 10	28	< 10	46
BB4917	201 202	570	1 < 0.01		46	550	54	0.01	< 2	8	14	0.06	< 10	< 10	36	< 10	164
BB4918	201 202	465	2 < 0.01		35	710	12	0.02	< 2	7	25	0.09	< 10	< 10	50	< 10	92
BB4919	201 202	275	1 < 0.01		14	700	8	0.01	< 2	4	34	0.08	< 10	< 10	42	< 10	64
BB4920	201 202	300	1 < 0.01		15	790	8	0.01	< 2	4	30	0.07	< 10	< 10	40	< 10	56
BB4921	201 202	325	1 < 0.01		12	880	4	0.01	< 2	3	25	0.06	< 10	< 10	33	< 10	44
BB4922	201 202	300	< 1 < 0.01		9	790	10	0.01	< 2	4	19	0.08	< 10	< 10	33	< 10	56
BB4923	201 202	175	< 1 < 0.01		14	700	4	0.01	< 2	4	26	0.07	< 10	< 10	32	< 10	56
BB4924	201 202	510	3 < 0.01		6	2920	16	0.06	< 2	3	254	0.02	< 10	10	59	< 10	34
BB4925	201 202	205	< 1 < 0.01		11	610	4	0.01	< 2	3	23	0.05	< 10	< 10	27	< 10	44
BB4926	201 202	415	< 1 < 0.01		13	730	8	0.01	< 2	4	33	0.07	< 10	< 10	36	< 10	54
BB4927	201 202	430	< 1 < 0.01		13	700	8	0.01	< 2	4	32	0.07	< 10	< 10	37	< 10	54
BB4928	201 202	525	1 < 0.01		98	630	14	0.01	< 2	11	36	0.05	< 10	< 10	66	< 10	76
BB4929	201 202	435	2 < 0.01		13	950	10	0.03	< 2	3	42	0.04	< 10	10	32	< 10	62
BB4930	201 202	220	1 < 0.01		16	520	12	< 0.01	< 2	4	19	0.07	< 10	< 10	44	< 10	66
BB4931	201 202	295	2 < 0.01		21	790	8	0.03	< 2	4	40	0.06	< 10	< 10	40	< 10	66
BB4932	201 202	230	< 1 < 0.01		14	770	8	0.02	< 2	3	34	0.06	< 10	< 10	33	< 10	58
BB4933	201 202	295	1 < 0.01		10	900	10	0.01	< 2	3	33	0.06	< 10	< 10	28	< 10	56
BB4934	201 202	315	1 < 0.01		18	810	8	0.03	< 2	4	42	0.06	< 10	10	38	< 10	66
BB4935	201 202	255	1 < 0.01		12	950	8	0.01	< 2	3	38	0.06	< 10	< 10	33	< 10	56
BB4936	201 202	200	2 < 0.01		17	750	10	0.04	< 2	4	40	0.07	< 10	10	38	< 10	70
BB4937	201 202	330	1 < 0.01		15	880	6	0.01	< 2	3	37	0.06	< 10	10	35	< 10	58
BB4938	201 202	455	2 < 0.01		14	790	10	0.02	< 2	4	48	0.06	< 10	10	37	< 10	76
BB4939	201 202	400	3 < 0.02		10	860	12	0.01	< 2	7	42	0.07	< 10	10	46	< 10	60
BB4940	201 202	285	< 1 < 0.01		24	660	10	< 0.01	< 2	4	23	0.06	< 10	< 10	41	< 10	62

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 British Columbia, Canada V7J 2C1  
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 WHITEHORSE, YT  
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Project: EUREKA-TRACK  
 Comments:

## CERTIFICATE OF ANALYSIS A9920737

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
BB4944	201 202	< 5	< 0.2	1.44	12	< 10	190	< 0.5	< 2	0.56	< 0.5	7	18	8	2.15	< 10	< 1	0.13	10	0.50
BB06425	201 202	< 5	< 0.2	1.09	4	< 10	160	< 0.5	< 2	0.39	< 0.5	6	16	7	1.62	< 10	< 1	0.08	10	0.38
BB06426	201 202	< 5	< 0.2	1.06	10	< 10	260	< 0.5	< 2	0.42	< 0.5	10	20	25	2.15	< 10	< 1	0.09	10	0.42
BB06427	201 202	< 5	< 0.2	1.14	12	< 10	220	< 0.5	< 2	0.39	< 0.5	7	19	16	1.71	< 10	< 1	0.07	10	0.40
BB06428	201 202	< 5	< 0.2	1.24	6	< 10	220	< 0.5	< 2	0.37	< 0.5	6	20	12	1.49	< 10	< 1	0.07	10	0.42
BB06429	201 202	< 5	< 0.2	1.11	8	< 10	190	< 0.5	< 2	0.36	< 0.5	6	18	9	1.34	< 10	< 1	0.06	10	0.36
BB06430	201 202	< 5	< 0.2	1.07	6	< 10	180	< 0.5	< 2	0.33	< 0.5	5	17	10	1.37	< 10	< 1	0.05	10	0.35
BB06431	201 202	10	< 0.2	1.05	6	< 10	150	< 0.5	< 2	0.37	< 0.5	5	15	8	1.25	< 10	< 1	0.06	20	0.33
BB06432	201 202	< 5	< 0.2	1.21	8	< 10	220	< 0.5	< 2	0.44	< 0.5	7	19	11	1.83	< 10	< 1	0.07	10	0.40
BB06433	201 202	< 5	< 0.2	1.00	6	< 10	140	< 0.5	< 2	0.35	< 0.5	5	13	6	1.41	< 10	< 1	0.07	10	0.34
BB06434	201 202	< 5	< 0.2	1.11	14	< 10	170	< 0.5	< 2	0.37	< 0.5	7	15	6	2.26	< 10	< 1	0.06	10	0.38
BB06435	201 202	< 5	< 0.2	1.11	8	< 10	160	< 0.5	< 2	0.36	< 0.5	5	16	7	1.50	< 10	< 1	0.07	10	0.34
BB06436	201 202	< 5	< 0.2	1.74	18	< 10	400	< 0.5	< 2	0.52	< 0.5	14	50	21	3.14	< 10	< 1	0.16	20	0.79
BB06437	201 202	< 5	< 0.2	1.04	10	< 10	160	< 0.5	< 2	0.34	< 0.5	6	18	8	1.58	< 10	< 1	0.09	10	0.36
BB06438	201 202	< 5	< 0.2	0.92	30	< 10	410	< 0.5	< 2	0.66	0.5	15	24	34	2.69	< 10	< 1	0.11	10	0.54
BB06439	201 202	< 5	< 0.2	1.45	8	< 10	240	< 0.5	< 2	0.44	< 0.5	8	24	15	2.10	< 10	< 1	0.13	10	0.49
BB06440	201 202	< 5	< 0.2	1.00	12	< 10	220	< 0.5	< 2	0.46	< 0.5	8	19	17	1.97	< 10	< 1	0.08	10	0.36
BB06441	201 202	< 5	< 0.2	1.28	12	< 10	310	< 0.5	< 2	0.43	< 0.5	8	27	25	1.88	< 10	< 1	0.07	10	0.54
BB06442	201 202	< 5	< 0.2	1.84	10	< 10	230	< 0.5	< 2	0.81	< 0.5	9	31	15	2.72	< 10	< 1	0.19	10	0.58
BB06443	201 202	< 5	< 0.2	1.68	14	< 10	240	< 0.5	< 2	0.61	< 0.5	10	31	21	2.59	< 10	< 1	0.12	20	0.58
BB06444	201 202	< 5	< 0.2	1.37	8	< 10	220	< 0.5	< 2	0.59	< 0.5	8	26	14	2.12	< 10	< 1	0.11	10	0.47
BB06445	201 202	5	< 0.2	1.02	32	< 10	290	< 0.5	< 2	0.65	< 0.5	13	20	7	3.97	< 10	1	0.06	10	0.36
BB06446	201 202	< 5	< 0.2	1.03	10	< 10	180	< 0.5	< 2	0.55	< 0.5	6	21	10	1.96	< 10	< 1	0.07	10	0.40
BB06447	201 202	35	< 0.2	1.31	8	< 10	220	< 0.5	< 2	0.57	< 0.5	6	22	12	1.98	< 10	< 1	0.11	30	0.43
BB06448	201 202	< 5	< 0.2	1.25	10	< 10	180	< 0.5	< 2	0.54	< 0.5	7	19	9	2.09	< 10	< 1	0.11	10	0.43
BB06449	201 202	< 5	< 0.2	1.39	8	< 10	150	< 0.5	< 2	0.55	< 0.5	6	17	8	1.88	< 10	< 1	0.16	20	0.46
BB06450	201 202	10	< 0.2	1.75	6	< 10	130	0.5	< 2	0.72	< 0.5	6	16	8	2.32	< 10	< 1	0.26	50	0.51

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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB4944	201 202	485	< 1	< 0.01	12	860	12	0.02	< 2	4	39	0.07	< 10	10	34	< 10	64
BB06425	201 202	275	1	< 0.01	10	780	8	0.01	< 2	3	23	0.05	< 10	< 10	28	< 10	54
BB06426	201 202	490	1	< 0.01	25	670	10	0.06	< 2	4	27	0.04	< 10	< 10	27	20	84
BB06427	201 202	240	< 1	< 0.01	18	580	8	0.05	< 2	4	26	0.06	< 10	< 10	27	< 10	68
BB06428	201 202	160	< 1	< 0.01	15	510	6	0.04	< 2	4	27	0.06	< 10	< 10	31	< 10	56
BB06429	201 202	135	1	< 0.01	13	600	6	0.02	< 2	3	24	0.06	< 10	< 10	29	< 10	48
BB06430	201 202	125	< 1	< 0.01	12	620	2	< 0.01	< 2	3	21	0.06	< 10	< 10	29	< 10	46
BB06431	201 202	155	< 1	< 0.01	10	760	6	0.01	< 2	3	22	0.06	< 10	< 10	27	< 10	46
BB06432	201 202	320	1	0.01	13	720	10	0.01	< 2	3	29	0.06	< 10	< 10	36	< 10	56
BB06433	201 202	200	1	< 0.01	9	700	6	0.01	< 2	3	19	0.05	< 10	< 10	24	< 10	46
BB06434	201 202	305	< 1	< 0.01	9	860	8	0.01	< 2	3	21	0.05	< 10	< 10	30	< 10	44
BB06435	201 202	210	1	< 0.01	10	630	6	< 0.01	< 2	3	24	0.06	< 10	< 10	31	< 10	40
BB06436	201 202	560	1	< 0.01	37	950	12	0.02	< 2	6	25	0.03	< 10	< 10	46	< 10	100
BB06437	201 202	250	1	< 0.01	12	740	8	0.01	< 2	3	18	0.04	< 10	< 10	27	< 10	46
BB06438	201 202	785	3	< 0.01	48	670	28	0.18	< 2	5	43	< 0.01	< 10	< 10	23	< 10	122
BB06439	201 202	335	1	< 0.01	19	600	14	0.03	< 2	5	31	0.05	< 10	< 10	36	< 10	66
BB06440	201 202	365	1	< 0.01	20	670	12	0.04	< 2	3	27	0.04	< 10	< 10	28	< 10	72
BB06441	201 202	195	1	0.01	24	800	8	0.01	< 2	4	26	0.07	< 10	< 10	42	< 10	74
BB06442	201 202	535	1	0.01	19	960	10	0.04	< 2	5	53	0.08	< 10	10	43	< 10	66
BB06443	201 202	305	1	0.01	23	950	8	0.01	< 2	6	39	0.09	< 10	10	54	< 10	74
BB06444	201 202	255	2	0.01	18	680	10	0.02	< 2	4	39	0.09	< 10	< 10	41	< 10	58
BB06445	201 202	1430	3	0.01	14	920	8	0.03	< 2	3	50	0.06	< 10	< 10	39	< 10	54
BB06446	201 202	265	2	0.01	15	770	6	0.01	< 2	3	36	0.07	< 10	< 10	35	< 10	48
BB06447	201 202	320	1	0.01	13	870	10	0.01	< 2	4	38	0.09	< 10	10	41	< 10	56
BB06448	201 202	280	1	0.01	13	770	8	0.01	< 2	4	36	0.08	< 10	10	34	< 10	56
BB06449	201 202	315	1	0.01	10	840	8	0.01	< 2	4	40	0.09	< 10	40	33	< 10	60
BB06450	201 202	375	1	0.01	8	1270	10	0.02	< 2	5	50	0.10	< 10	150	36	< 10	66

CERTIFICATION:

**APPENDIX III**  
**DESCRIPTIONS OF ROCK SAMPLES**

## Rock Sample Descriptions

Project: EUREKA IV Property: TRUCK

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Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451801 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: WEAKLY OXIDIZED QUARTZ VEIN WITH MINOR MANGANESE COATINGS AND LIMONITE PATCHES.

Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451802 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: GARNET-DIOXIDE-ACTINOLITE SKARN WITH IRREGULAR PATCHES OF BLUE-GREY QUARTZ STOCK WORK AND 1% DISSEMINATED PYRRHOTITE.

Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451803 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: LIMONITE FRAGMENTS STRONGLY STAINED YELLOW-BROWN WITH CRACKED WHITE QUARTZ FRAGMENTS THROUGHOUT.

Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451804 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: WHITE QUARTZ VEIN WITH ABUNDANT FRACTURES FILLED WITH ORANGE WEATHERING CARBONATE AND BLACK FLECKS.

Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451805 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: GREY-WHITE QUARTZ VEIN WITH ABUNDANT RUSSY PARALLEL FRACTURES. MINERALIZED WITH FINE GRAINED DISSEMINATED PYRRITE.

Sample Number: Grid North: N Grid East: E Type: Float Dimension: \_\_\_\_\_  
 M451806 UTM: N UTM: E Sample Width: Abundance: \_\_\_\_\_  
 Elevation: m

Comments: WHITE QUARTZ VEIN WITH MINOR OXIDATION AND PITS PLUS THIN PHYLLITE PARTINGS. PALE BLUE MINERAL MAY BE BERYL.

## Rock Sample Descriptions

Project: EUREKA JV Property: TRUCK

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Sample Number: M451807 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLOAT Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: GREY QUARTZ vein WITH MODERATELY RUSTY FRACTURES AND PITS.

Sample Number: M451808 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLOAT Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: WHITE QUARTZ vein WITH MODERATELY ABUNDANT RUSTY FRACTURES AND ONE THIN Pyrite stringer

Sample Number: M451809 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.00m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: WHITE QUARTZ vein WITH MODERATELY OXIDIZED FRACTURES AND MINOR manganese COATINGS. MINOR PYRITE SEEN IN RUSTY AREAS.

Sample Number: M451810 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: CHIP Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.10 m. Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: SAME AS ABOVE - PART OF CONTINUOUS CHIP sample.

Sample Number: M451811 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: GREY QUARTZ vein WITH STRONG orange-red limonite PITS throughout.

Sample Number: M451812 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: PROFILE Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 1.0m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: GREY PHYLLITE STRIP ZONE WITH ABUNDANT RED LIMONITE BITS, QUARTZ vein FRAGMENTS, schist AND lesser limestone fragments.

## Rock Sample Descriptions

Project: BUREKA JV Property: TRACK

Page 3 of 5

Sample Number: M451813 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: MANGANIFEROUS BOXWORK IMMONITE

Sample Number: M451851 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: GLASSY WHITE QUARTZ VEM WITH WEAR SURFACE OXIDATION AND ORANGE-BROWN IMMONITIC FRACTURES.

Sample Number: M451852 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 10x4x3cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: DARK GREEN GARNET-ACTINOLITE SKARN WITH ABUNDANT WHITE QUARTZ STOCKWORK (25%). STRONG ORANGE-BROWN SURFACE OXIDATION WITH ABUNDANT PITS.

Sample Number: M451853 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20x12x8cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: PALE GREY BANDED LIMESTONE WITH A 3cm THICK FOAM-LIKE QUARTZ LENS. MODERATE TO STRONG ORANGE-BROWN OXIDATION ALONG FRACTURES PLUS MINOR MANGANESE STAINING.

Sample Number: M451854 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 10x10x8cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: MEDIUM GREEN GARNET-ACTINOLITE SKARN. 80% OF SAMPLE HAS IRREGULAR FOLDED WHITE QUARTZ VEM THROUGHOUT WITH STRONG OXIDATION ALONG SURFACE.

Sample Number: M451855 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 5x5x4cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: ORANGE-BROWN WEATHERING GARNET-ACTINOLITE SKARN WITH QUARTZ VEINING. PITTED SURFACE.

## Rock Sample Descriptions

Project: BUKKA JV Property: TRUCK

Page 1 of 5

Sample Number: M451856 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 25 x 15 x 10 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Orange-brown weathering listwanite with fine milky white quartz  
stockwork. Some pieces have patchy green fuchsite along stockwork selvages.

Sample Number: M451857 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 20 x 15 x 10 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Rusty orange-brown surface stained white quartz vein with  
imbricitic fractures.

Sample Number: M451858 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 15 x 8 x 5 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Rusty angular white quartz vein.

Sample Number: M451859 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Chip Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: 0.20m Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Orange-brown garnet-actinolite skarn lens with trace  
disseminated pyrrhotite.

Sample Number: M451860 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: 4 x 4 x 3 cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Subangular quartz vein with weakly rusty fractures. Muscovite  
also developed along fractures

Sample Number: M451861 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: Float Dimension: Chips  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m  
 Comments: Rusty quartz vein with orange weathering carbonate fractures  
and black flecks on surface.

## Rock Sample Descriptions

Project: EURYLAVY Property: TRUCK

Page 1 of 5

Sample Number: M451862 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: CUPS  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SAME AS M451861

Sample Number: M451863 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: CUPS  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: SAME AS M451861

Sample Number: M451864 Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: FLAT Dimension: 40 x 30 x 30cm  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: WHITE QUARTZ vein with abundant cross fracturing in one direction. FRACTURES ARE FILLED WITH ORANGE LIMONITIC MATERIAL. Sample is EXTREMELY FRAGILE (SHATTERED).

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: \_\_\_\_\_ m

Comments: \_\_\_\_\_

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Box 4127, Whitehorse, Yukon Y1A 3S9

Telephone: (867) 667-4415

Fax: (867) 667-4622

AFFIDAVIT

094131

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

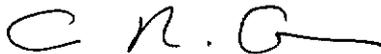
That to the best of my knowledge the attached Statement of  
Expenditures for exploration work on the TRACK 1-68  
mineral claims on Claim Sheet 116 C/8 is accurate.

  
Joan Mariacher

Sworn before me at VANCOUVER, B.C.

this 26TH day of

JANUARY, 2000



Notary, Yukon Territory

**TRACK 1-68 MINERAL CLAIMS**  
**Statement of Expenditures**  
**January 25, 2000**

Labour

A. Archer, geologist - April to December - 10 hrs @ \$66/hr .....	\$ 706.20
R. Carne, geologist - April to December - 3½ hrs @ \$56/hr .....	209.72
W. Eaton, geologist - April to January 2000 - 32¼ hrs @ \$56/hr .....	1,932.42
T. Becker, geologist - April to December - 8 7/8 hrs @ \$43/hr .....	408.34
B. Wengzynowski - geologist - April to January 2000 - 119 5/8 hrs @ 43/hr.....	5,503.95
B. Gay, geologist - April to October - 8½ days @ \$247.50/day.....	2,251.01
J. Mariacher - April to January 2000 - 25 hrs @ \$46.67/hr.....	1,248.42
and 6¼ hrs @ \$41.67/hr.....	278.67
M. Cooke - April to January 2000 - 8 hrs @ \$36.70/hr .....	<u>314.15</u>
	<b>\$12,852.88</b>

Expenses

Field room and board - 17 days @ \$115/day.....	\$ 2,091.85
Trans North Bell 206B helicopter - 3.2 hrs @ \$700/hr, plus fuel.....	2,670.19
Chemex Labs.....	1,572.09
Truck rental - Norcan, gas, etc.....	977.51
Freight.....	95.25
Drafting.....	<u>755.49</u>
	<b>\$ 8,162.38</b>
<b>TOTAL</b>	<b><u>\$21,015.26</u></b>



REMIT PAYMENT TO:  
**TRANS NORTH HELICOPTERS**  
 TRANS NORTH TURBO AIR LTD.

AIRPORT HANGAR "C" • WHITEHORSE • YUKON • Y1A 3E4  
 TELEPHONE (403) 668-2171 FAX (403) 668-3420

*EUREKA JOINT VENTURE*  
*ARCHER CATHRO & ASSOCIATES*

CHARTERER  
 (Eureka-Track) PO BOX 4127

BILLING ADDRESS  
 Whitehorse YT Y1A 3S9

ACCOUNT NUMBER	ARCHER		
INVOICE NUMBER	18277		
INVOICE DATE		AREA	
15/06/99		S.C. <input type="checkbox"/> YUKON <input type="checkbox"/> MWT <input type="checkbox"/> ALTA <input type="checkbox"/>	
A/C TYPE	AIRCRAFT REGISTRATION C		
206B	FDRZ		
FLIGHT DATE	DAY	MONTH	YEAR
05	06	99	
PURCHASE ORDER NO.			

FUEL & OIL X	TNTA FUEL USED	HRS LITRES	FROM
V	JP4	1.5	YDA

FROM	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
DAWSON CITY		
TO CASSIAR DOME.		P/le BILL, BRIAN &
15KM. NORTH.		GEAR.
YDA.	1.5	
<b>EUREKA - TRACK</b>		

SUB	GL	AMOUNT			
1805	502	1050.00	1.5	@ 700.00	1050.00
1800	131	119.70		@	
0000	323	81.88			
HOLDING TIME:		@	/ HR.		
FUEL 171L		@ .70 / LITRE			119.70
FUEL		@	/ LITRE		
MEALS & LODGINGS					
OTHER					
OTHER					
SUB TOTAL					1169.70
GOODS & SERVICES TAX					81.88
REGISTRATION NO. R121483135					

TERMS: PAYABLE UPON RECEIPT OF INVOICE.  
 2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

X *Lynne Day*  
 CHARTERER'S SIGNATURE

*Brian Gay*  
 CHARTERER'S NAME (PRINTED)

*Aym*  
 PILOT'S SIGNATURE

*Aym*  
 ENGINEER'S NAME  
 MORRISON

**TOTAL \$ 1251.58**

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.  
 TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

**THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT**





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

INVOICE NUMBER

I 9 9 2 0 7 3 7

## BILLING INFORMATION

Date: 02-JUL-1999  
Project: EUREKA-TRACK  $\lambda$   
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9920737

Terms: Payment due on receipt of invoice  
1.25% per month (15% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
67	201 - Dry, sieve to -80 mesh	1.35		
	202 - save reject	0.90		
	ICP-32	7.40		
	983 - Au ppb FA+AA	10.25	19.90	1333.30
				Total Cost \$ 1333.30
				Client Discount ( 25%) \$ <u>-333.33</u>
				Net Cost \$ 999.97
				(Reg# R100938885 ) GST \$ <u>70.00</u>
				<b>TOTAL PAYABLE (CDN) \$ 1069.97</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER** **I 9 9 2 0 7 4 6**

<b>BILLING INFORMATION</b>	
Date:	01-JUL-1999
Project:	EUREKA-TRACK ↘
P.O. No.:	
Account:	RDF
Comments:	
Billing:	For analysis performed on Certificate A9920746
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
<b>CHEMEX LABS LTD.</b> 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
27	205 - Geochem ring to approx 150 mesh ICP-32	2.60 7.40		
	0-3 Kg crush and split	2.60		
	983 - Au ppb FA+AA	10.25	22.85	616.95
				Total Cost \$ 616.95
				Client Discount ( 25%) \$ -154.24
				Net Cost \$ 462.71
				(Reg# R100938885 ) GST \$ 32.39
				<b>TOTAL PAYABLE (CDN) \$ 495.10</b>



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: EUREKA JOINT VENTURE  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

**INVOICE NUMBER**

**I 9 9 2 1 7 0 1**

## BILLING INFORMATION

Date: 01-JUL-1999  
Project: EUREKA-TRACK  
P.O. No.:  
Account: RDF

Comments:

Billing: For analysis performed on  
Certificate A9921701

Terms: Payment due on receipt of invoice  
1.25% per month (15% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	212 - Overlimit pulp, to be found 316 - Zn %	0.00 8.75	8.75	8.75
Total Cost \$				8.75
Client Discount ( 25%) \$				-2.19
Net Cost \$				6.56
(Reg# R100938885 ) GST \$				0.46
<b>TOTAL PAYABLE (CDN) \$</b>				<b>7.02</b>



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project  
Date

EUREKA JOINT VENTURE  
NOVEMBER 30, 1999

LABOUR			
Field	A. ARCHER - 7 HRS AT 66/HRL	462.00	
	R. CARNE - 2 HRS AT 56/HRL	112.00	
	D. EATON - 8 HRS AT 56/HRL	448.00	
	O. WENZELNOWSKI - 64 HRS AT 43/HRL (ARLENIVS/EUREKA)	2752.00	
Office	M. Cooke - 6 HRS at <sup>70</sup> \$36.90/hr	220.20	
Accounting and Expediting	J. Mariacher - 3 1/2 HRS at \$41.67/hr	145.85	4140.05
<b>OTHER SERVICES</b>			
	Room & Board in Whitehorse days at \$60/day		
	Field equipment from AC stock		
	Printing 105.30 Photocopies 30 @ .25 = 7.50	112.80	
	Rentals from AC		
Drafting	2 1/2 HRS at \$36/hr	77.40	
	LOOMIS COURIER - 1 US AT 33/EA	33.00	919.80
<b>EXPENSES</b>			
	Petty Cash		
	Telephone		
	SYNCRG SERVICE	69.27	
	PNT TRANSPORTATION	35.73	105.00
<b>MANAGEMENT 6% on Expenses on Field A/C</b>			
		6.30	
		23.94	30.24
			5795.09
<b>GST (R100247667) 7% on 5195.09</b>			
			363.66
			5558.75

E=GST exempt

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EUREKA JOINT VENTURE

Date

OCTOBER 31, 1999

LABOUR			
Field	A. ARCHER - 10 HRS AT 66/HR	660.00	
	D. EATON - 15 HRS AT 56/HR	840.00	
	B. WENGZYNOWSKI - 66 2/3 HRS AT 43/HR (WOM-344)	2859.50	
	D. GAY - 3 1/4 DAYS AT 247.50/DAY	866.25	
Office	M. Cooke - 2 HRS AT 36.70/HR	73.40	
Accounting and Expediting	J. Mariacher - 22 1/4 HRS AT 46.67/HR	1038.41	6337.56
<b>OTHER SERVICES</b>			
	Room & Board in Whitehorse 5 days at \$60/day	300.00	
	Field equipment from AC stock 8 DAYS AT 30/DAY	240.00	
	Printing Photocopies @ .25 183	45.75	
	Rentals from AC OCT 1-5 - 5 BY 11 AT 10/DAY + 5 COM AT 10/DAY TOTAL + 2 GAS AT 15.33/DAY TOTAL	176.65	
Drafting	hrs at \$36/hr		767.40
<b>EXPENSES</b>			
	Petty Cash 11.5501 + 9.5003	21.05	
	Telephone 4.96	4.96	
	SUNRISE SERVICE	30.75	
	CAIL - 53.55 + 25.75	79.30	
	REC GEN - CL MARKS	4.00	
	PNT TRANSPORTATION	19.54	
	NORCAN LEASING	280.00	
	CORPORATE EXPRESS	13.98	453.58
MANAGEMENT	6% on EXPENSES on FIELD A/C	27.21 345.47	372.63 7926.17
GST (R100247667)	7% on 7926.17		554.83
			8481.00

E=GST exempt

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project EUREKA JOINT VENTURE  
Date SEPTEMBER 30, 1999

LABOUR			
Field	A. ARCHER - 7 HM AT 66/HR	462.00	
	D. EATON - 33 HM AT 56/HR	1848.00	
	B. WENGLYNOWSKI - 84 HM AT 43/HR	3612.00	
	B. GAY - 10 DAYS AT 247.50/DAY	2475.00	
Office	M. COOKE - 1/4 HR AT 36.70/HR	18.35	
Accounting and Expediting	J. MARIACHER - 17 3/4 HM AT 46.67/HR	828.39	9243.74
<b>OTHER SERVICES</b>			
	Room & Board in Whitehorse 5 DAYS AT 60/DAY	300.00	
	Field equipment from AC stock 6.75 + 564.80 + PER DIEM	1171.55	
	Printing Photocopies 77 @ .75	19.75	
	Rentals from AC SEPT 21-30 - SBX 11 AT 10/DAY + 3 ICORAS AT 10/DAY TOTAL + 2 GPS AT 11.33/DAY TOTAL	353.30	
Drafting	hrs at \$ /hr.		1844.10
<b>EXPENSES</b>			
	Petty Cash 9.50 B	9.50	
	Telephone 0.91	0.91	
	D. EATON EXPENSES - 170.00 DY + 187.11 DY	357.11	
	B. WENG EXPENSES - 100.10 DY + 167.05 DY	267.15	
	MAC'S FIREWEED	31.84	
	NORDAN LEASING	1099.54	
	SECOND AVENUE SHELL	48.04	
	DAWSON CITY GENERAL STORE	155.18	1959.27
MANAGEMENT	6% - ON EXPENSES - ON FIELD R/L	117.56 20.91	138.47 13185.58
GST (R100247667)	7% ON 13185.58		922.99

E=GST exempt

14108.57



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EUREKA JOINT VENTURE

Date

JULY 31, 1999

LABOUR			
Field	A. ARCHER - 5 HRS AT 66/HR	330.00	
Office	M. COOKE - 4 1/4 HRS AT 36.70/HR	165.15	
Accounting and Expediting	J. MARIACHER - 13 1/4 HRS AT 46.67/HR	618.38	1113.53
<b>OTHER SERVICES</b>			
Room & Board in Whitehorse			
Field equipment from AC stock			
Printing	Photocopies 20 @ .25	5.00	
Rentals from AC			
Drafting	hrs at \$ /hr.		5.00
<b>EXPENSES</b>			
Petty Cash			
Telephone	286	2.86	
INT TRANSPORTATION		61.02	
MACH FIREWEED		26.05	89.93
MANAGEMENT	6% - ON EXPENSES - ON FIELD AC	5.40 359.62	365.02 1573.48
GST (R100247667)	7% ON 1573.48		110.14
E=GST exempt			1683.62



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

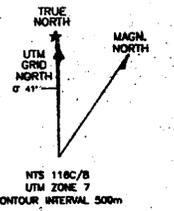
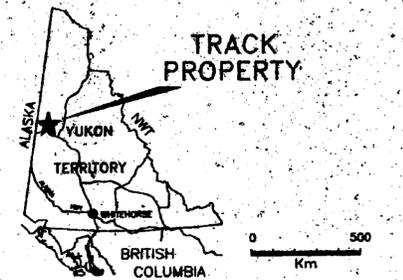
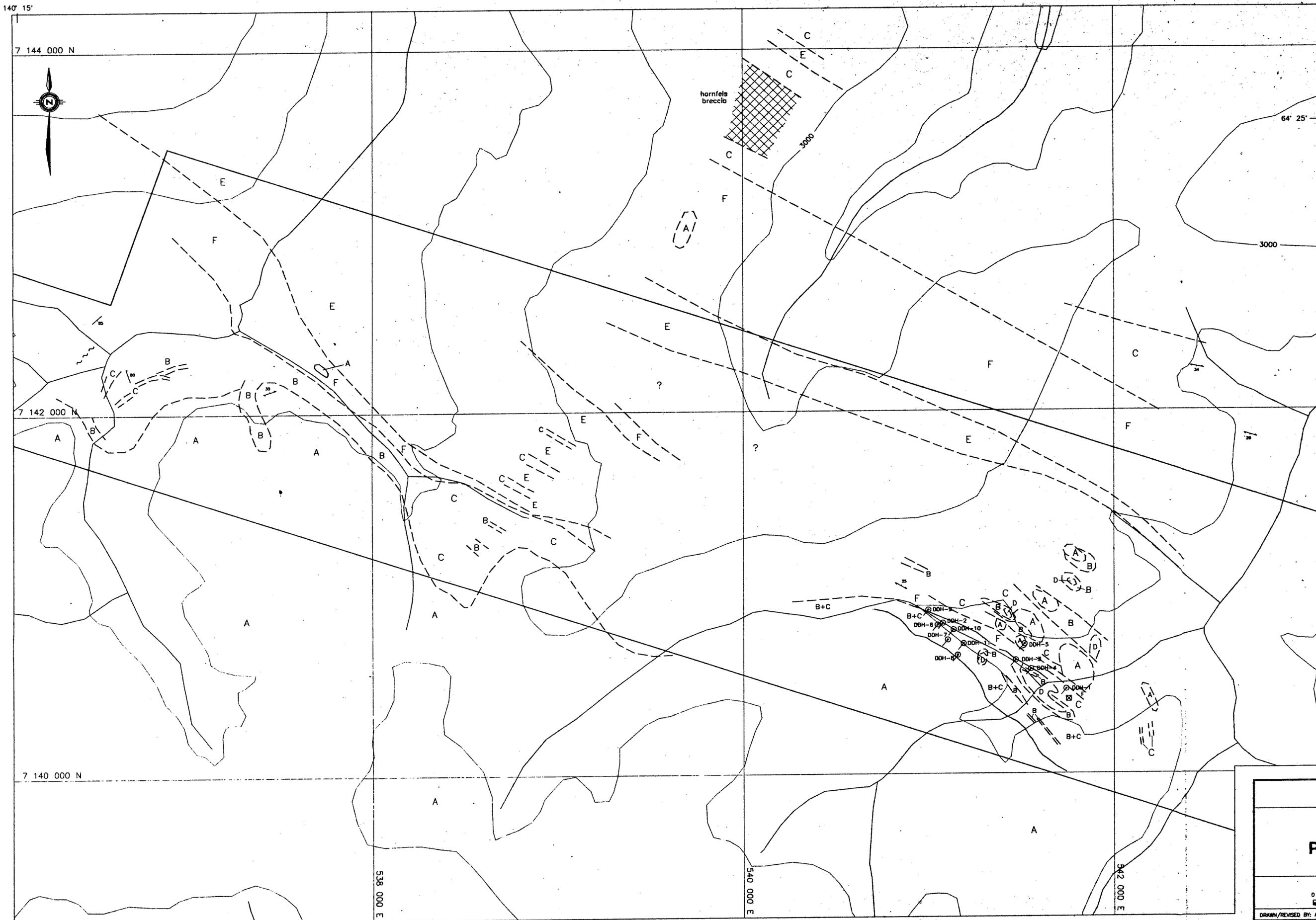
Project

EUREKA JOINT VENTURE

Date

APRIL - MAY 31, 1999

LABOUR				
Field				
A. ARCHER	4 Hrs AT 66/HR		264.00	
R. CARNE	10 Hrs AT 56/HR	APRIL	560.00	
	- 2 Hrs AT 56/HR	MAY	112.00	
D. EATON	4 Hrs AT 56/HR	MAY	224.00	
T. BECKER	23 Hrs AT 43/HR	APRIL	989.00	
	- 6 Hrs AT 43/HR MISSED IN APRIL		258.00	
B. WENGLYNOWSKI	40 Hrs AT 43/HR	MAY	1740.00	
B. GAY	234 DAYS AT 247.50/DAY	MAY	680.63	
Office	M. COOKE - 7 1/2 Hrs AT 36.70/HR	APRIL	275.25	
Accounting and Expediting	J. MARIACHER - 2 1/4 Hrs AT 41.67/HR	APRIL	93.76	
	- 2 1/4 Hrs AT 41.67/HR	MAY	93.76	5270.40
<b>OTHER SERVICES</b>				
Room & Board in Whitehorse	1 1/2 DAYS AT 60/DAY		90.00	
Field equipment from AC stock	3 DAYS AT 20/DAY + 443.53 + 7.00 ext + 24.00	APRIL	534.73	
Printing	147.25		226.35	
	Photocopies 295 APRIL + 41 MAY - 2360.10			
Rentals from AC	MAY 30 - 1/4 31 - 15 BX 11 AT 10/DAY + 2 1 com HAND HEADS AT 3.33/DAY		36.50	
	RACR + 1 GPS AT 7.67/DAY			
Drafting	1 1/2 hrs at \$ 36 /hr.	APRIL	54.00	941.58
<b>EXPENSES</b>				
Petty Cash	5.55 ext + 73.32 04	APRIL	78.87	
Telephone				
EXPENSES				
BILL W. EXPENSES	22.40 04 + 72.90 04		95.30	
ATLAS TRAVEL	33.75 + 31.70		65.45	
BEAVER LUMBER			46.77	
SECOND AVENUE SHELL		APRIL	13.09	
REC GEN - CL MAPS			3.00	
NORDAN LENSING			103.22	
CAIV			31.65	
MAC'S FIREWEED			46.75	
HORWOOD'S OFFICE			8.28	
HUGHES PHOTO			9.89	521.60
MANAGEMENT	6% ON EXPENSES	APRIL	31.30	
	- ON FIELD AC			31.30
				6764.88
GST (R100247667)	7% ON 6764.88			473.54
E-GST exempt				7238.42



- A granodiorite
- B skarn
- C hornfels
- D marble
- E graphite schist
- F biotite-muscovite-chlorite-quartz schist

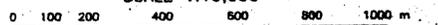
- geological contact, known and inferred
- |— foliation orientation
- |— joint orientation
- ~|~ quartz vein with orientation
- ⊠ Noranda camp
- ⊙ DDH-B Noranda drill hole

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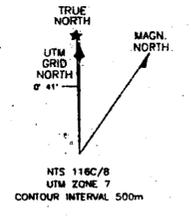
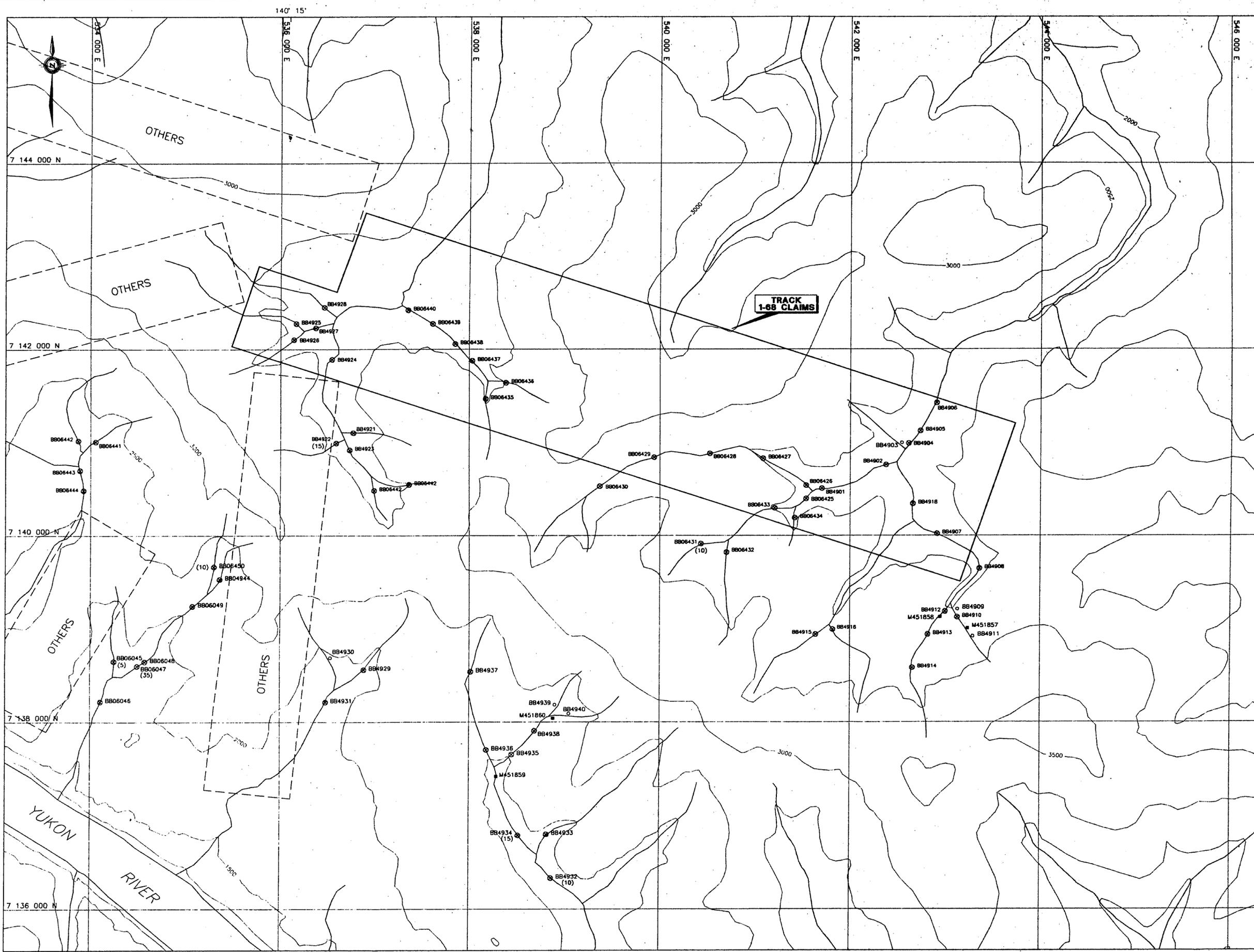
EXPATRIATE RESOURCES LTD.  
NORDAC RESOURCES LTD.

FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
TRACK PROPERTY

SCALE 1:10,000



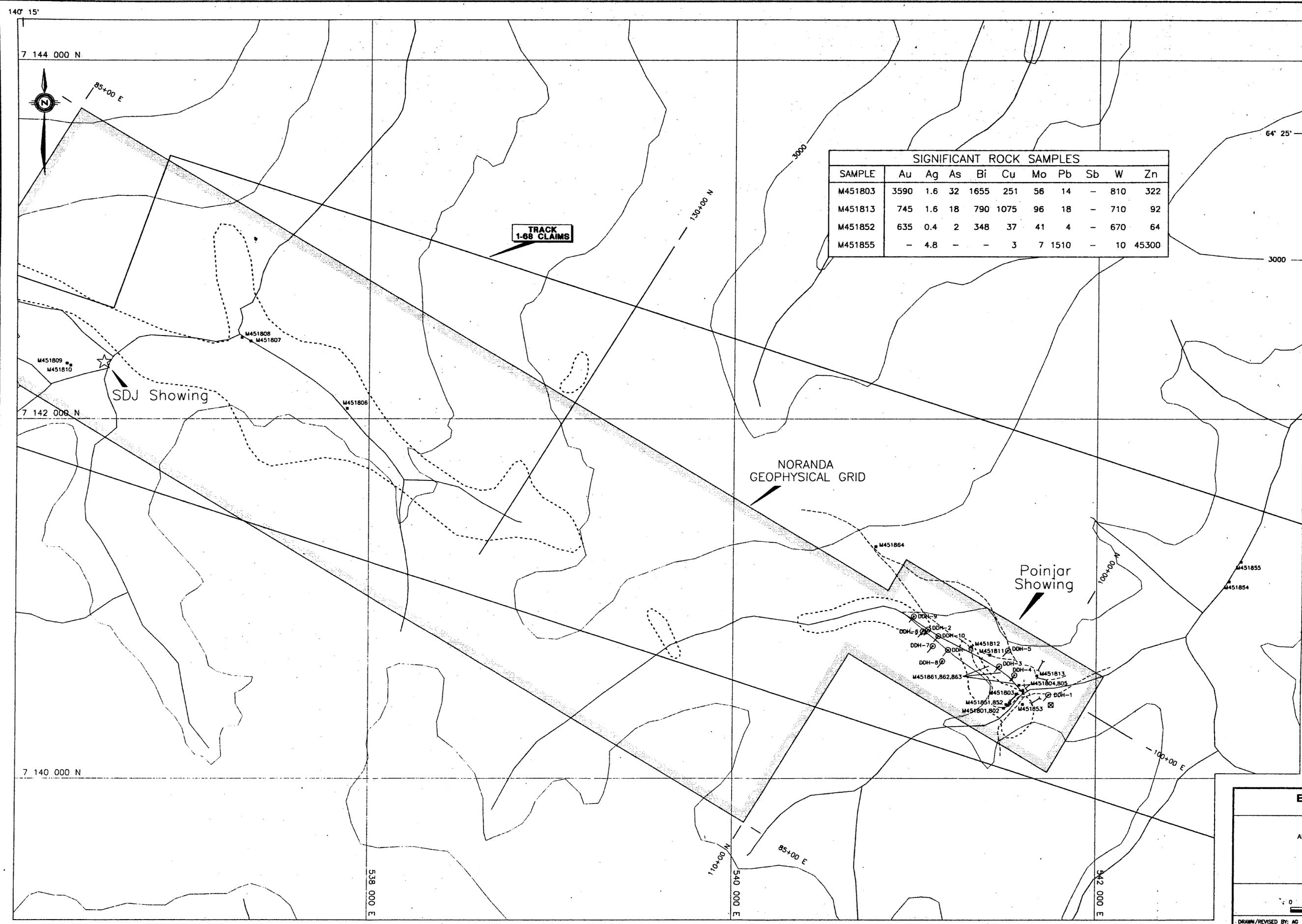
DRAWN/REVISED BY: AG PROJECT:  
FILE: TRACK\ACAD99\TR10-PG.DWG DATE: APRIL, 2000



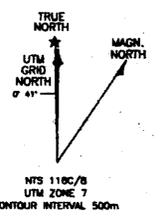
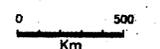
- M451857 Rock sample location with sample number
- BB4911 Soil sample location with sample number
- ⊙ BB06442 Silt sample location with sample number
- (10) Gold value in ppb

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<b>EXPATRIATE RESOURCES LTD. NORDAC RESOURCES LTD.</b>	
FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>SAMPLE LOCATION AND GOLD VALUES</b>	
TRACK PROPERTY	
Scale 1:20,000	
0 200 400 800 1200 1600 2000 m	
DRAWN/REVISED BY: AG	PROJECT:
FILE: ...TRACK\ACAD99\TR-90-SL.DWG	DATE: APRIL 2000



SIGNIFICANT ROCK SAMPLES											
SAMPLE	Au	Ag	As	Bi	Cu	Mo	Pb	Sb	W	Zn	
M451803	3590	1.6	32	1655	251	56	14	-	810	322	
M451813	745	1.6	18	790	1075	96	18	-	710	92	
M451852	635	0.4	2	348	37	41	4	-	670	64	
M451855	-	4.8	-	-	3	7	1510	-	10	45300	



- ⊙ DDH-1 Noranda drill hole location
- M451853 1999 rock sample location
- ⊠ Noranda camp site and core racks (DDH-8 to DDH-11)
- - - Bulldozer trail
- - - Bulldozer trench
- ⊖ Combined copper, lead, zinc, silver, molybdenum, tungsten geochemical anomaly

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FIGURE 6  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COMPILATION**  
TRACK PROPERTY

SCALE 1:10,000

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