

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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## ASSESSMENT REPORT

describing

## SOIL SAMPLING AND HAND TRENCHING

at the

## LEAGUE PROPERTY

093 817

League 1-20	YB59143-YB59162
21-58	YB60204-YB60241
59-114	YB60855-YB60910
115-210	YB61588-YB61683
211-230	YB68849-YB68868
231-256	YB70229-YB70254
257-262	YB70640-YB70645
263-268	YB70666-YB70671
269-282	YB70743-YB70756
283-302	YB70646-YB70665

Latitude 61°31' N; Longitude 130°45' W

on NTS 105G/10 in the

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

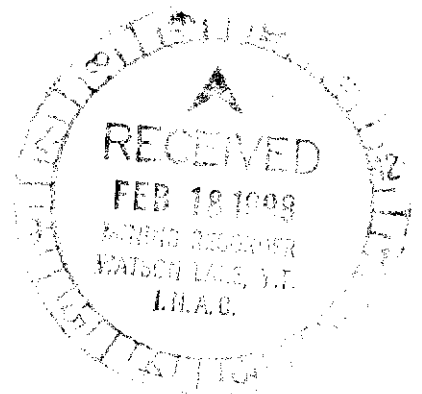
Prepared by

Archer, Cathro & Associates (1981) Limited

for

**EXPATRIATE RESOURCES LTD.**

W.A. Wengzynowski, B.A.Sc.  
January, 1998



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 \$ 12,000.00.

*M. B. ...*

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

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## INTRODUCTION

Expatriate Resources Ltd. has a 100% interest in the League property which protects previously unstaked targets selected from a regional geochemical data base documenting results of 1973 exploration by a joint venture managed by Archer, Cathro & Associates Limited (Cathro, 1973). The property consists of 302 mineral claims that were acquired by staking in 1995. Grid soil sampling, geological mapping, prospecting and geophysical surveys (magnetics, VLF and Maxmin) were done in the west-central part of the property in 1995 (Wengzynowski, 1996). Follow up work in 1996 included airborne magnetic and electromagnetic surveys, geological mapping, prospecting, claim surveys, soil sampling, linecutting, ground magnetic and Maxmin surveys, and 1153 m of diamond drilling in six holes (Eaton, 1997). The geophysical report (Power and Lee, 1996) and the report describing drilling and geological mapping (Pigage, 1996) are both contained within the 1997 League Assessment Report.

The 1997 exploration program consisted of infill soil sampling to better define anomalies within the main grid area plus hand pitting at sample sites which had returned extremely high values for lead and zinc. This program was completed by a two-person crew working from a fly camp on the property. The work was managed by Archer Cathro & Associates (1981) Limited and was supervised by the author. Appendix I contains the Author's Statement of Qualifications.

The main body of this report focusses on the results of the infill soil geochemical survey and hand pitting. Results of 1996 diamond drilling are also re-evaluated.

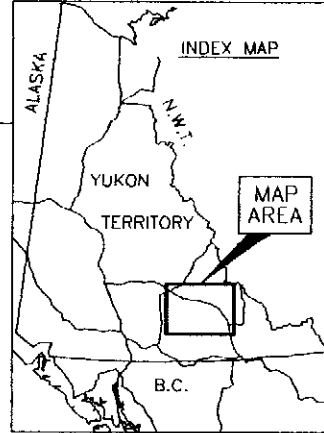
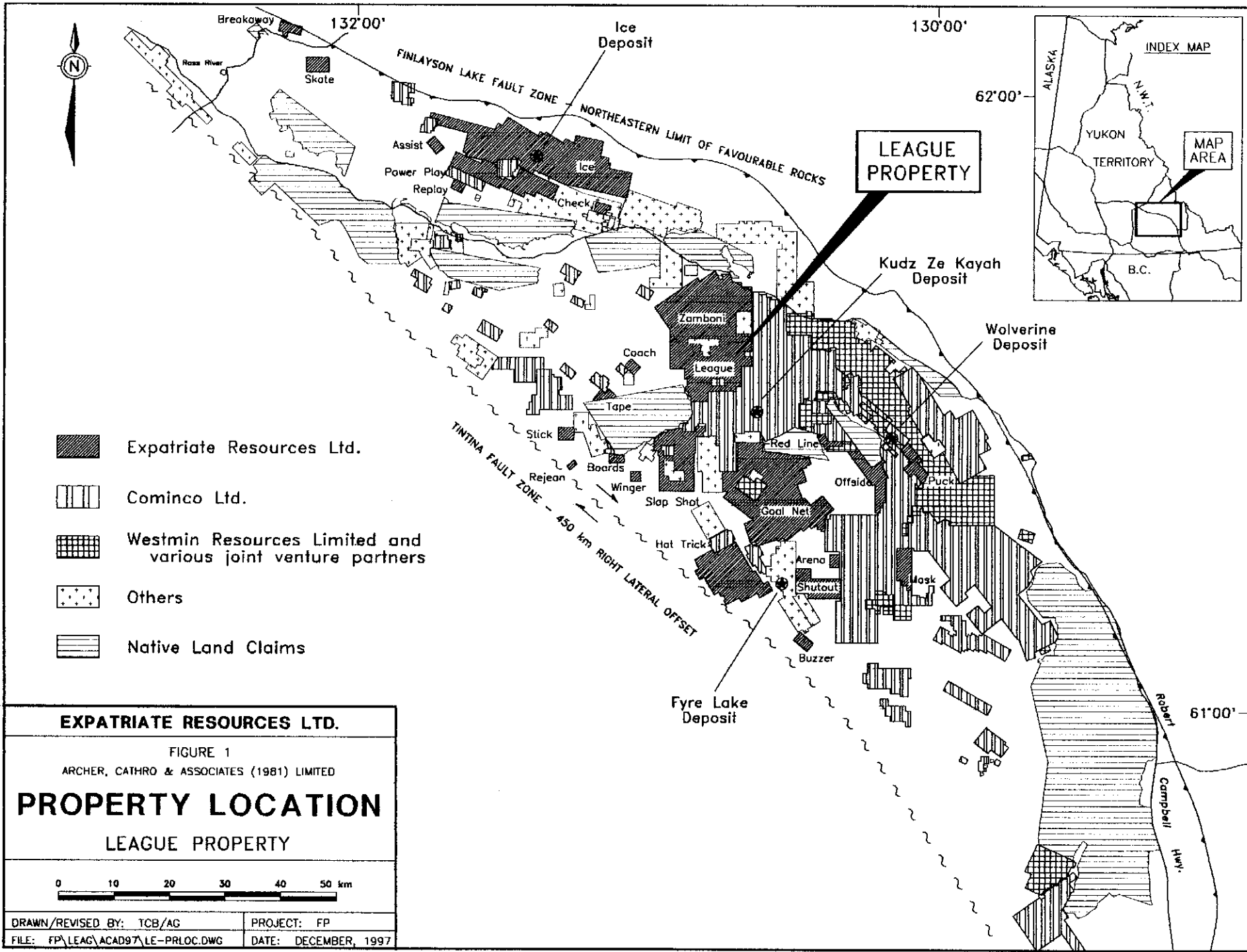
**PROPERTY, LOCATION AND ACCESS**






The property is located in southeastern Yukon at latitude 61°31'N and longitude 130°45'W on NTS map sheet 105G/10 (Figure 1). It is comprised of 302 contiguous mineral claims registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for Expatriate Resources Ltd. (Figure 2). Claim registration data are listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
League 1-20	YB59143-YB59162	March 17, 2009*
21-30	YB60204-YB60213	March 17, 2005*
31-58	YB60214-YB60241	March 17, 2001
59-114	YB60855-YB60910	March 17, 2001
115-210	YB61588-YB61683	March 17, 2001
211-230	YB68849-YB68868	March 17, 2001
231-256	YB70229-YB70254	March 17, 2001
257-262	YB70640-YB70645	March 17, 2001
263-268	YB70666-YB70671	March 17, 2001
269-282	YB70743-YB70756	March 17, 2001
283-302	YB70646-YB70665	March 17, 2001

\*Expiry dates include 1997 work filed for assessment credit but not yet accepted.

In 1997 the property was accessed by helicopter from Expatriate's base camp at the Ice property and from its drill camp on Finlayson Lake (Km 232 on the Robert Campbell Highway). The property lies 50 km southeast of the Ice property, 18 km southwest of Finlayson Lake and 250 km northeast of Whitehorse. Helicopter support was provided by a Bell 206B Jet Ranger and an Aerospatiale B1 contracted from Trans North Helicopters and Kluane Helicopters of Whitehorse and Haines Junction, Yukon, respectively. The helicopters were stationed at Expatriate's camps on seasonal contracts.



-  Expatriate Resources Ltd.
-  Cominco Ltd.
-  Westmin Resources Limited and various joint venture partners
-  Others
-  Native Land Claims

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FIGURE 1  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION**

LEAGUE PROPERTY

0 10 20 30 40 50 km

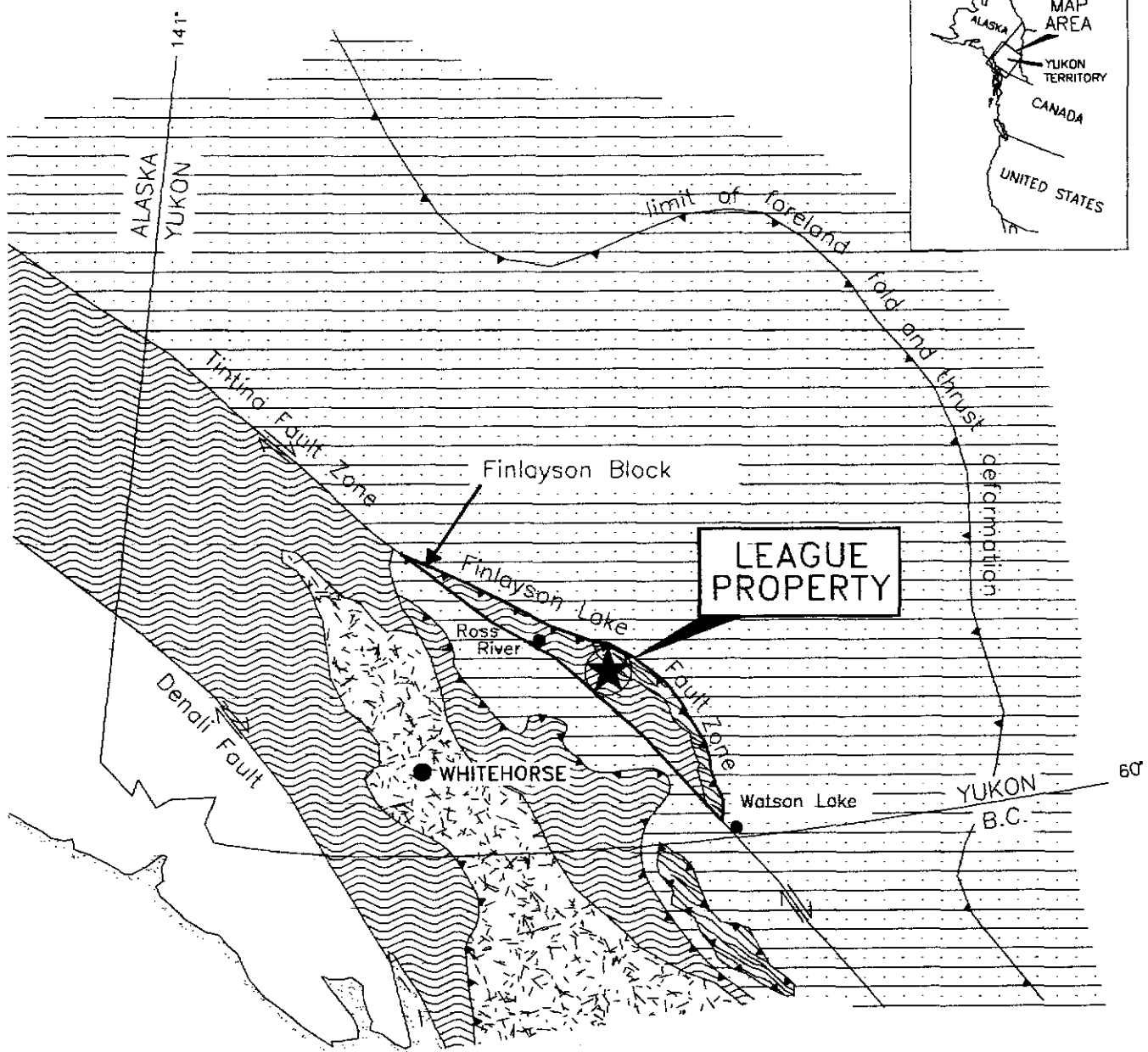
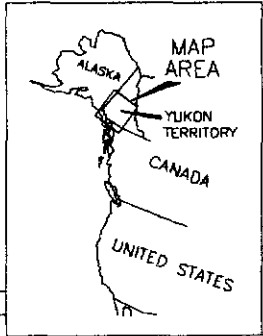
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FILE: FP\LEAG\ACAD97\LE-PRLOC.DWG	DATE: DECEMBER, 1997







## REGIONAL GEOLOGY

The League property is located within the Finlayson Block, a 380 by 60 km area comprised primarily of the Yukon-Tanana and Slide Mountain geologic terranes (Figure 3). These terranes represent the innermost of the accreted or "suspect" terranes in the Canadian Cordillera (Mortensen and Jilson, 1985). The northeastern margin of the block is the Finlayson Lake Fault Zone, a complex zone of steep and shallow faults related to transpressive suturing. The southwestern boundary of the block is the Tintina Fault, a major strike-slip fault with at least 450 km of dextral displacement during Late Cretaceous and/or Early Tertiary time (Tempelman-Kluit et al, 1976).

Regional mapping of the Finlayson Lake area was completed by the Geological Survey of Canada (GSC) in the mid to late 1970's (Tempelman-Kluit, 1977, 1979). More recent regional studies have been published by Mortensen and Jilson (1985) and Mortensen (1992). The following discussion of the regional geology (Figure 4) is based partly on published work and partly on unpublished mapping completed in 1996 (Tempelman-Kluit, personal communication, 1996).

The Yukon-Tanana Terrane consists largely of Paleozoic continental margin and/or arc stratigraphy deposited on a continental basement of uncertain origin (Mortensen, 1992). The Yukon-Tanana Terrane in the Finlayson Lake area contains three major packages, collectively termed the Layered Metamorphic Sequence. The lowermost unit consists of garnet-mica schist with interbanded marbles, intermediate to felsic metavolcanics, calc-silicates and calcareous schists near the top. The middle unit is a carbonaceous quartzite, schist or phyllite with rare conglomerates and locally extensive felsic and mafic volcanic interbands. Radiometric dating of the felsic metavolcanics in the Finlayson Block has consistently resulted in Late Devonian to Mississippian crystallization ages. Immediately south of Finlayson Lake, large isolated outcrops of marble and quartzite which



-  Thrust fault
-  Steep fault
-  Yukon-Tanana Terrane
-  Slide Mountain Terrane
-  Stikinia and other Terranes
-  North American Miogeoclinal Strata

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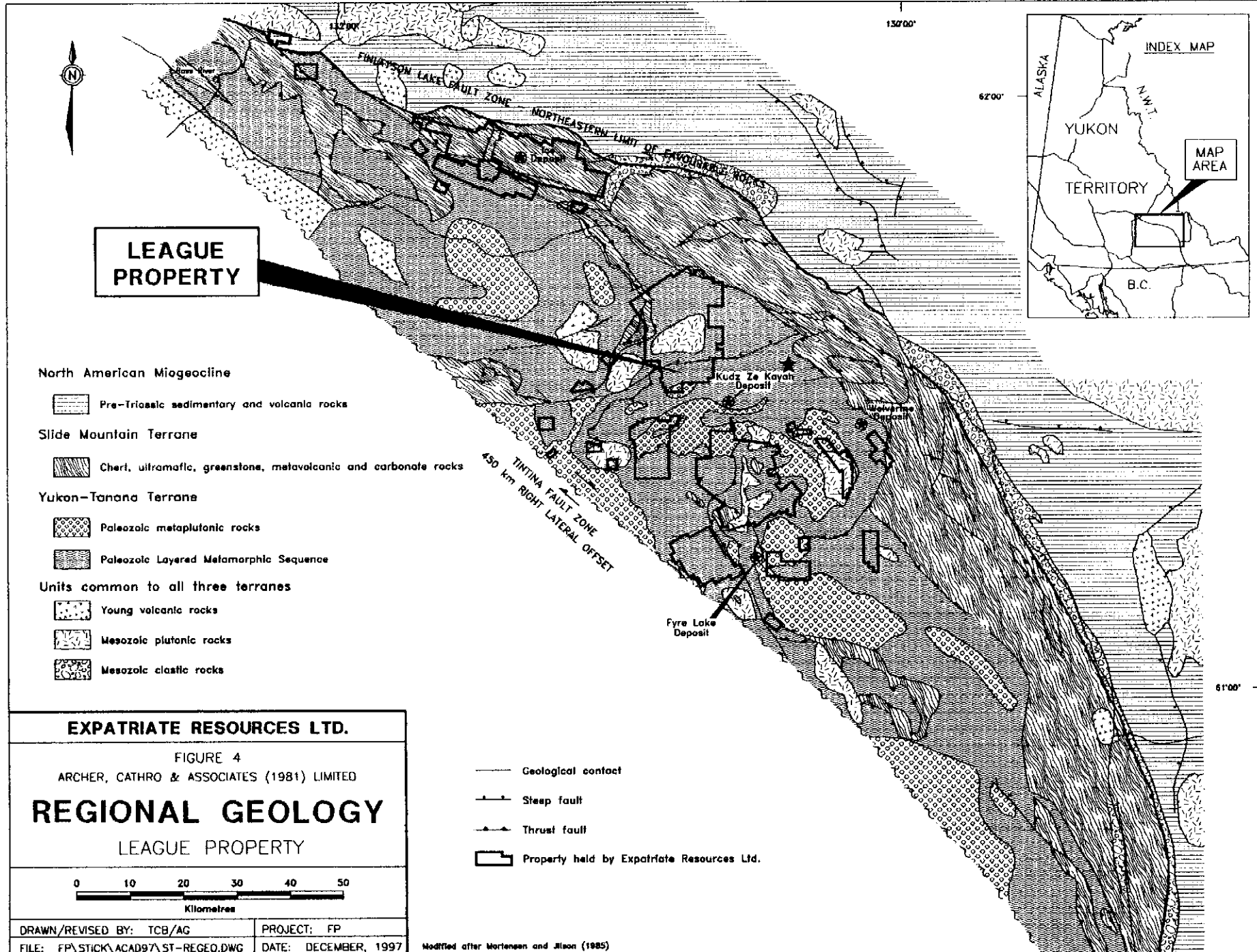
FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TECTONIC SETTING**  
LEAGUE PROPERTY

0 100 200 300 400  
KILOMETRES

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Modified after Mortensen and Jilson (1985), Mortensen (1992) and Johnston and Mortensen (1994).



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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

LEAGUE PROPERTY

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PROJECT: FP

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DATE: DECEMBER, 1997

Modified after Mortensen and Jason (1985)

are poorly dated as Early Pennsylvanian to Early Permian (Tempelman-Kluit, 1979) form the uppermost unit of the Yukon-Tanana Terrane.

This sequence of units is generally correlative with a similar stratigraphic sequence in ancestral North America (Mortensen and Jilson, 1985; Tempelman-Kluit, personal communication, 1996). The lowermost is correlated with the Lower Cambrian Atan Group and the middle carbonaceous assemblage is correlated with the offshore, Silurian-Devonian Nasina quartzite assemblage. The felsic volcanics are most similar to locally extensive Mississippian siliceous volcanics in the North American stratigraphy. Local calcareous phyllites and massive greenstones near the top of the lower unit are lithologically similar to the Kechika Group and Lower Paleozoic alkalic and potassic greenstones, respectively.

Gneiss and augen gneiss invariably occur low in the Yukon-Tanana succession beneath either the lowermost calcareous unit or the middle carbonaceous unit. Mortensen and Jilson (1985) considered the gneisses to be metamorphosed Mid-Paleozoic plutonic rocks. Conversely, Tempelman-Kluit (personal communication, 1996) considers these gneisses to be at least in part recrystallization of earlier stratigraphy. Radiometric dating of the gneisses has consistently resulted in Late Devonian to Mississippian ages (Mortensen, 1992). The gneisses occur in structural culminations with diameters on the order of 10 km and structural relief up to about 1 km.

The Devonian-Mississippian Simpson Suite (Mortensen, 1992) forms thick intervals of hornblende granodiorite and quartz monzonite higher in the Yukon-Tanana stratigraphic sequence. Mortensen and Jilson (1985) interpreted this suite as intrusive. Tempelman-Kluit (1979, personal communication, 1996) mapped the suite as an allochthonous slice emplaced on top of the structural pile.

Slide Mountain Terrane consists of Late Devonian to Late Triassic disrupted oceanic crust (Mortensen, 1992). Lithologies include massive and sheared greenstone, chert and mafic to ultramafic plutonic rocks occurring as fault-bounded slices along thrust faults and steep faults. These units are most abundant near the northeastern edge of the Finlayson Block but are also found throughout it.

Younger units unconformably overlie units from Slide Mountain, Yukon-Tanana and North American Terranes. Mesozoic clastic rocks are Late Triassic, immature sediments containing cobbles from both Slide Mountain and Yukon-Tanana Terranes. Young volcanic rocks consist of Late Cretaceous to Tertiary felsic volcanic flows and volcanoclastic deposits. They are usually found in close proximity to the Tintina Fault Zone.

Mesozoic intrusive activity in the Finlayson Block includes two suites. The first is comprised of several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second suite consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

Structurally Yukon-Tanana schists and gneisses contain a pervasive, flat- to gently-dipping foliation. Close examination of this fabric indicates that it commonly is a closely spaced crenulation cleavage. Large scale folds related to this fabric can rarely be mapped in the field. In most cases bedding and earlier fabrics are transposed into near parallelism with this dominant fabric. Later crenulation cleavages are present only locally. Some of the Cretaceous intrusions have a mild deformation fabric, others are massive and do not contain a foliation.

Thrust faults within the Finlayson Block juxtapose lithologic sequences with similar deformation fabrics. Thrusting postdates the Late Paleozoic Slide Mountain lithologies and predates

the Cretaceous intrusives. Recent mapping also suggests, but does not definitively prove, the presence of major late extensional faults juxtaposing differing sequences (Tempelman-Kluit, personal communication, 1996). East-northeasterly trending, steep normal faults disrupt all earlier deformation fabrics.

Metamorphic grades range from lower greenschist facies to middle amphibolite facies. Contact hornfels around plutonic units occur locally.

Metamorphism and deformation are tentatively correlated with transpressive suturing of these suspect terranes with ancestral North America. Suturing is restricted to the time interval of post-Triassic continuing into the Cretaceous. Whether deformation is continuous or sporadic has not been fully verified at present.

The discovery of the Kudz Ze Kayah and Wolverine Deposits within the Finlayson Block in the last few years (Johnston and Mortensen, 1994) has refocused exploration activities in the area. Both deposits occur within metasedimentary and metavolcanic sequences of the Yukon-Tanana Terrane and are associated with felsic volcanics present in the middle unit of that terrane.

During the 1996 field season regional mapping was done in the vicinity of the Kudz Ze Kayah Deposit by government mappers at 1:50,000 scale (Murphy and Timmerman, 1997). This work confirmed the general stratigraphic position of the Kudz Ze Kayah Deposit and assigned it to an undifferentiated felsic schist unit (Unit 3). Murphy continued mapping to the south and east in 1997 to determine the regional extent of this favourable stratigraphy (Murphy, 1997). As a result of this program Murphy has identified a second felsic metavolcanic unit located deeper in the Layered Metamorphic Unit (Unit 1f) which also has potential to host Kuroko-type VMS deposits.

## **REGIONAL MINERALIZATION**

A total of fifty-one mineral occurrences have been reported within the Finlayson Block (DIAND, 1995). Of these, twenty-one are known or suspected to be volcanogenic in origin while veins, skarns and asbestos occurrences comprise most of the remainder. Although the better known volcanogenic occurrences are thought to be of the Kuroko-type, some Besshi-type mineralization is also present (Morin, 1981; Johnston and Mortensen, 1994) and the recently discovered Ice Deposit is Cyprus-type. Two occurrences have definite economic potential, the Kudz Ze Kayah and Wolverine Deposits (Figure 4). These Kuroko-type occurrences are the main "type-deposits" for Expatriate's exploration at the League property and are briefly described below.

The Kudz Ze Kayah (ABM) Deposit lies within Yukon-Tanana Terrane near the centre of the block (Cominco Exploration, 1995; Whiteway, 1995). It is a VMS deposit hosted by an overturned assemblage of felsic pyroclastics, aphanitic massive rhyolites and metasiliclastic rocks belonging to the middle unit of the Layered Metamorphic Sequence. Although both the sulphides and wallrocks are highly strained and exhibit pervasive schistosity, compositional layering in the vicinity of the deposit is relatively undeformed with a consistent, shallow northerly dip. Sphalerite, chalcopyrite and galena are the main economic minerals while the gangue includes various mixtures of magnetite, barite, pyrrhotite, pyrite and carbonate. The deposit averages about 18 m thick and has been traced 700 m along strike and up to 400 m downdip. Open pit mineable ore reserves are reported to be 11 million tonnes grading 5.9% zinc, 0.9% copper, 1.5% lead, 130 g/t silver and 1.3 g/t gold (Schultze, 1996). Preliminary studies suggest that satisfactory

lead, zinc and copper concentrates can be produced using conventional flotation processes (Cominco Exploration, 1995). The mineralization responds well to magnetic and electromagnetic surveys but geochemical response is somewhat erratic because the entire deposit is covered by 2 to 10 m of glacial till.

The Wolverine Deposit is located 25 km east of Kudz Ze Kayah near a contact between Yukon-Tanana and overlying Slide Mountain rocks. It consists of the Wolverine, Lynx and Sable Zones which are hosted by carbonate and muscovite altered rhyolitic metavolcanics and argillites lying within the middle unit of the Layered Metamorphic Sequence. The mineralization consists primarily of semi-massive to massive pyrite and sphalerite with varying amounts of galena, chalcopyrite, tetrahedrite and native gold. The surface expression of the Wolverine Zone is marked by a vegetation kill zone containing weakly malachite-stained argillite while the Lynx and Sable Zones are blanketed by glacial till. Mineralization in the Wolverine and Lynx Zones has been traced 700 m along strike and up to 450 m downdip. It averages 6.1 m thick and dips shallowly to the north. The Sable Zone, which lies about 1500 m to the southeast, was discovered in late 1997 when two holes yielded high grade intersections over narrow widths. All three zones contain significantly more zinc and precious metals than Kudz Ze Kayah. The most recent geological inventory is reported to be 6,237,000 tonnes grading 12.66% zinc, 1.33% copper, 1.55% lead, 370.9 g/t silver and 1.76 g/t gold (Westmin News Release, January 15, 1998). Soil geochemistry outlined weakly to moderately anomalous values along the projected surface trace of the stratigraphy hosting the mineralization while magnetic surveys easily traced a laterally extensive, banded iron formation which occurs about 80 m up-section from the mineralization. Interpretation of electromagnetic results is complicated by an abundance of graphite within the argillite.

## REGIONAL GEOCHEMISTRY

Published geochemical data for the Finlayson Lake area are limited to reconnaissance scale stream sediment sampling conducted in the late 1980's by the GSC (Hornbrook and Friske, 1988; Friske et al, 1990). The sampling was done at an approximate density of one sample per 10 sq km. Each sample was analyzed for twenty elements including common indicator elements for VMS deposits such as copper, lead, zinc, silver and arsenic. Anomalous results were obtained from creeks draining some previously known VMS occurrences (DIAND, 1995, Yukon Minfile 105G/32, 34 and 40) but many others, including the streams draining the Wolverine Deposit, produced near background values. Anomalous results were also obtained from several drainages where there were no known mineral occurrences. Follow-up exploration has since located showings in many of the anomalous creeks with the most significant discovery to date being the Kudz Ze Kayah Deposit.

Expatriate was able to supplement the published reports with private data summarizing results of 1973 exploration managed by Archer Cathro on behalf of a joint venture (Cathro, 1973). The reconnaissance prospecting and geochemical sampling program explored for lead-zinc mineralization in the lower unit of the Layered Metamorphic Sequence but because the data provide relatively uniform coverage over the entire region, it is also suitable for evaluating areas underlain by the favourable middle unit. The Archer Cathro samples included approximately 5000 soils and stream sediments collected at a density of approximately one sample per sq km. They were all analyzed for lead, zinc, copper and molybdenum. As might be expected, this closer spaced sampling outlined many more areas of anomalous geochemical response than the

government survey. Almost all of the known volcanogenic occurrences showed up as anomalies on this survey, including Kudz Ze Kayah and Wolverine.

The following table illustrates regional geochemical backgrounds for the metals and anomalous thresholds used for target selection.

**GEOCHEMICAL BACKGROUNDS AND ANOMALOUS THRESHOLDS**

	<u>Background</u>	<u>Anomalous Thresholds (ppm)</u>			<u>Peak Value</u>
		<u>Weak</u>	<u>Moderate</u>	<u>Strong</u>	
Copper	25	50	100	200	1720
Lead	30	50	100	200	>4000
Zinc	80	200	500	1000	>4000
Molybdenum	<1	2	5	10	65

Peak values from the 1973 sampling at League were 106 ppm copper, 336 ppm lead, 1700 ppm zinc and 5 ppm molybdenum.

Copper, lead and zinc are major metals in most VMS occurrences in the Finlayson Lake area and are obvious indicator elements. Molybdenum is present in anomalous quantities in the banded iron formation overlying the Wolverine Deposit (Meade, personal communication, 1995) and appears to be slightly enriched in the felsic metavolcanic rocks. Based on the geochemical signature in the vicinity of known occurrences its presence can be used to distinguish copper anomalies associated with volcanogenic mineralization from those derived from ultramafic rocks.

## REGIONAL GEOPHYSICS

The only published geophysical data for the Finlayson Lake area resulted from airborne magnetic surveys conducted in 1961 by the GSC on behalf of the Department of Mines and Technical Surveys. The surveys were flown with fixed-wing aircraft at a nominal elevation of 300 m above ground level on east-west lines spaced approximately 1.6 km apart. Results are presented on a 1:250,000 scale map (DMTS, 1961) and in more detail on a series of 1:50,000 maps.

The largest, most intense areas of positive magnetic response are associated with obducted ultramafic rocks belonging to the Slide Mountain Terrane. Within the Campbell Range Belt where dips are usually moderate to steep, the anomalies are narrow and elongate while in the remainder of the block where the ultramafic rocks occur along shallowly-dipping thrust faults, they are much broader.

A series of secondary positive anomalies was also recorded over Yukon-Tanana rocks but until recently they had no obvious explanation. Prospecting and mapping have now shown that magnetite occurs locally within schists of the middle unit of the Layered Metamorphic Sequence. The greatest documented concentration of magnetite is found in the hanging wall of the Wolverine Deposit where it forms several thin horizons approximately 50 m up-section from the massive sulphide mineralization. Magnetite is also a significant constituent of the mineralization at Kudz Ze Kayah. The League property covers a strong magnetic high related to Jurassic mafic plugs in the northern part of the property and two subdued linear anomalies overlying the Layered Metamorphic Sequence in the south-central area.

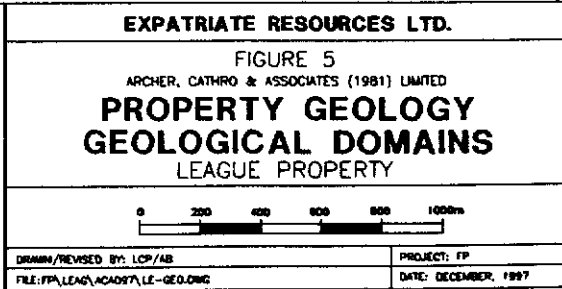
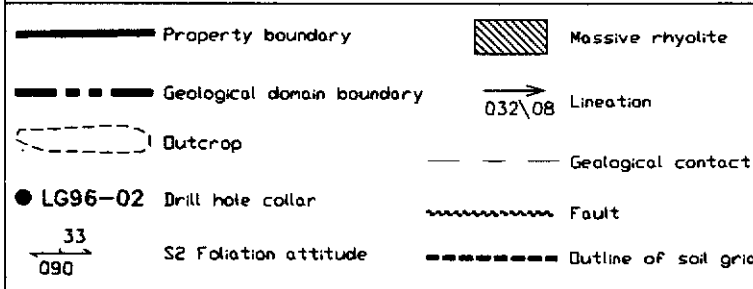
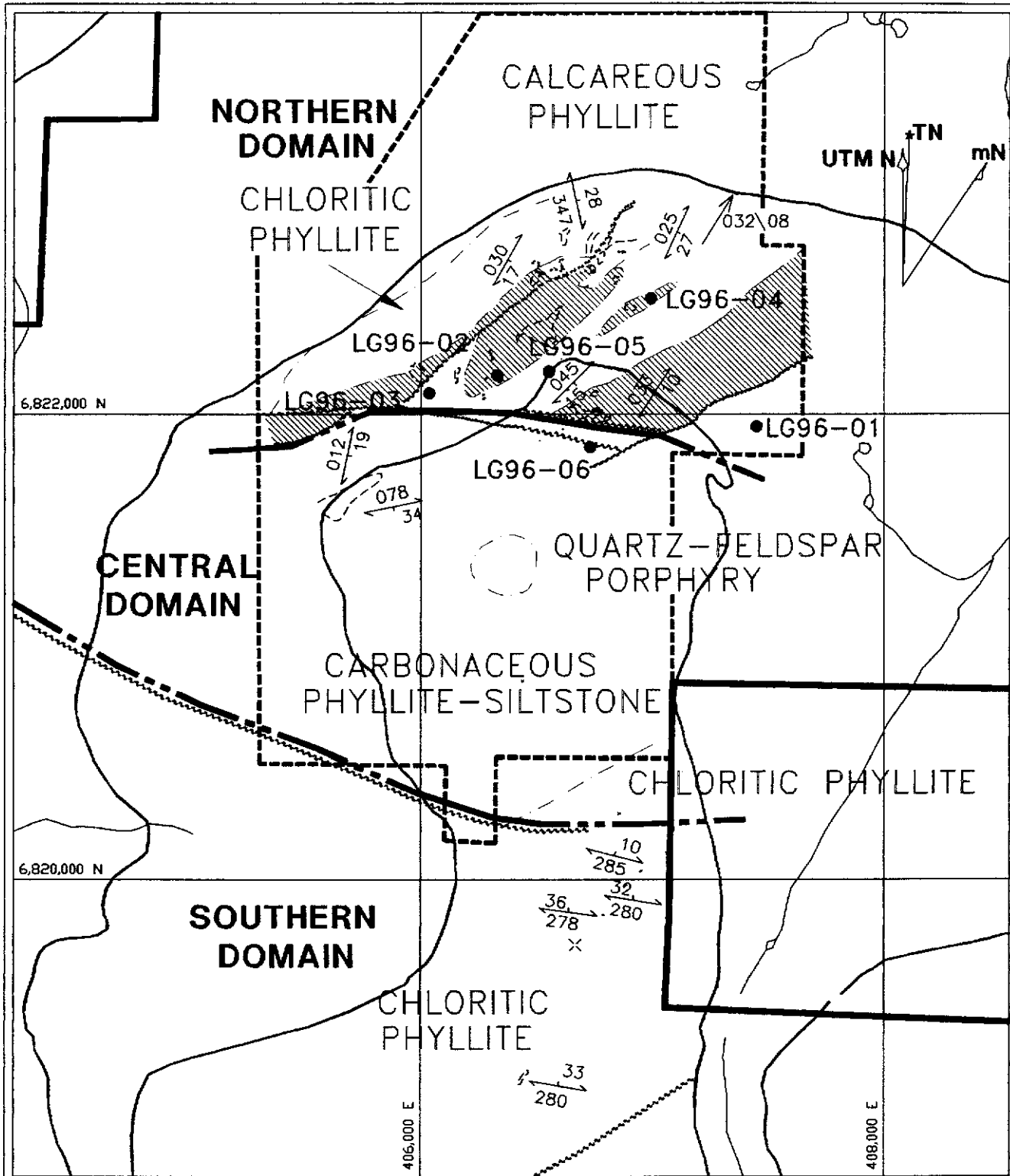
## **PROPERTY GEOLOGY AND MINERALIZATION**

Most of the League property is heavily vegetated and blanketed with glacial till. The only area that has been mapped is in the west-central part of the claim block. Rocks within the mapped area belong to the Yukon-Tanana Terrane and have been subdivided into three domains which are separated by faults. Each domain exhibits different lithological sequences and foliation orientations as illustrated in Figure 5. The faults are marked by strong electromagnetic conductors, some of which were confirmed by diamond drilling. They trend easterly and dip almost vertically.

The southern domain is predominantly composed of chloritic phyllites (Murphy's Unit 2m) that strike easterly and dip shallowly to the north.

The central domain includes a variety of rock types that are believed to belong to the middle unit of the Layered Metamorphic Sequence (Murphy's Unit 3). Stratigraphy includes carbonaceous phyllite and siltstone with lesser interbeds of felsic volcanics, chloritic phyllite, argillaceous limestone and quartzite. These rocks are intruded by a quartz-feldspar porphyry plug that is approximately 300 m in diameter. Foliations in these rocks dip moderately to the south.

The northern domain most closely correlates with the lower unit of the Layered Metamorphic Sequence (Murphy's Unit 1). It consists of a volcanic package which is underlain by moderately carbonaceous, thinly bedded, calcareous phyllites. The volcanic package contains chloritic phyllite with interbedded felsic volcanics, quartz-feldspar porphyry, and mafic to felsic volcanoclastics. Extensive light apple green muscovite alteration is developed in parts of the volcanic package.



Surface rocks belonging to the volcanic package of the northern domain often exhibit limonitic pits and fractures where sulphides have been weathered out. Drill core consisting of muscovite-altered volcanics typically contains pyrite disseminated along foliation planes and within quartz veins. Pyrite generally comprises less than 5% of the rock. Galena and sphalerite occur locally in drill core but no interval assayed greater than 1% lead or zinc. Rock specimens taken from a 1997 hand pit within the core of the lead soil geochemical anomaly returned up to 1.99% lead and 60.2 g/t silver. The hand pit is located 320 m north and downhill from the nearest drill hole (LG-96-5).

## **PROPERTY GEOCHEMISTRY AND HAND PITTING**

### **General**

In 1995 and 1996 reconnaissance soil sampling was done at approximately 100 m intervals along claim lines, except where badly frozen ground prevented sample collection. Grid sampling to date covers a 3000 by 2400 m area in the west-central part of the property where a soil sample taken in 1973 returned strongly anomalous values for several metals. Baselines were established along the claim lines to provide grid control and are marked by 1 m high wooden lath. Samples were collected at 100 m intervals along lines spaced 100 m apart. All reconnaissance and grid soil sample sites are marked by 0.5 m wooden lath bearing aluminum tags inscribed with the soil sample number and, where appropriate, grid coordinates. Grid lines were cut and cleared where necessary to accommodate ground geophysical surveys conducted over previously defined soil geochemical anomalies. The 1997 geochemical survey consisted of infill sampling within a 1200 by 1200 m block covering the main anomaly and increased the sample density to 100 by 50 m. All sites are marked as described above.

Samples were sent to Chemex Labs in North Vancouver, B.C. where they were dried, screened to -80 mesh and then analyzed for 32 elements using the Induced Coupled Plasma (ICP) technique. Selected samples were later reanalyzed for gold. Sample locations for the 1995 and 1997 grid work are shown on Figure 6 while Certificates of Analysis for the 1997 results appear in Appendix II.

## **Soil Geochemical Results**

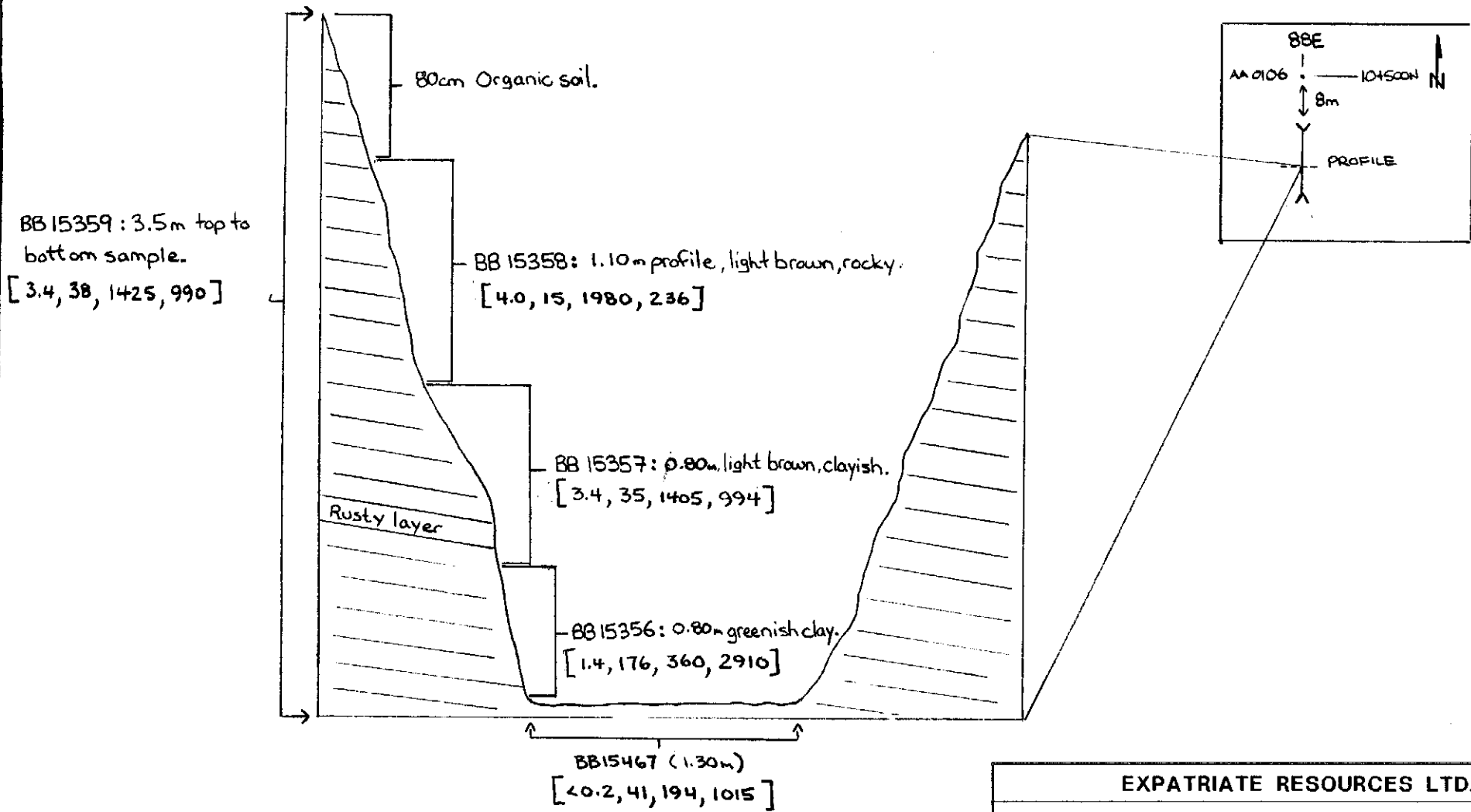
Figures 7, 8 and 9 document lead, zinc and copper results obtained from grid soil sampling surveys conducted in 1995 and 1997. Lead and zinc results outlined an 800 by 700 m area of weakly anomalous response with a 600 by 350 m moderate and strongly anomalous core. The peak values for lead (6060 ppm) and zinc (3420 ppm) are among the highest obtained by Archer Cathro in the Finlayson Lake area.

The area of anomalous response forms a northeasterly-trending zone which roughly parallels topography and geological contacts. The highest lead values occur near the top of the zone while zinc values either coincide with the lead peaks or lie about 50 m downslope within the lead dispersion train.

Copper response is weak with the majority of the anomalies occurring as isolated highs scattered across the grid. The largest copper anomaly measures 500 by 250 m and is located 300 m uphill from the top of the lead-zinc anomaly. Copper values rarely exceed moderate thresholds.

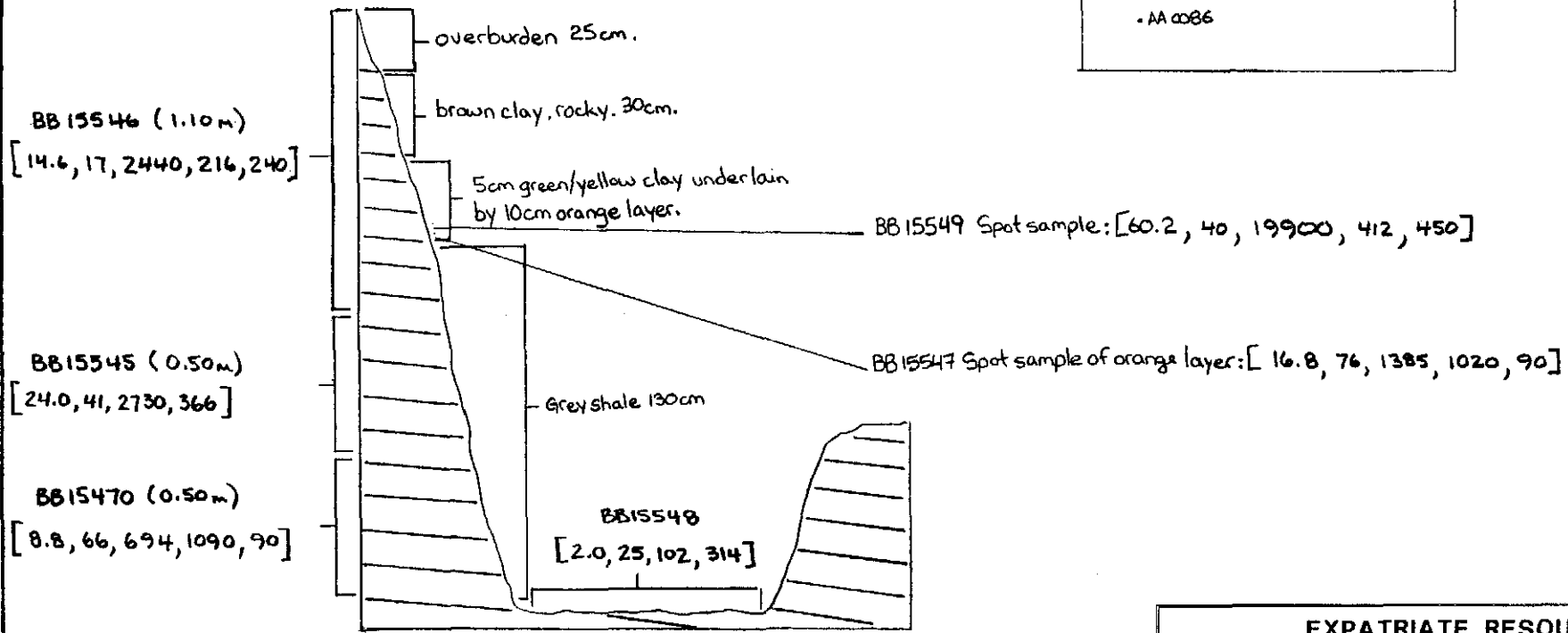
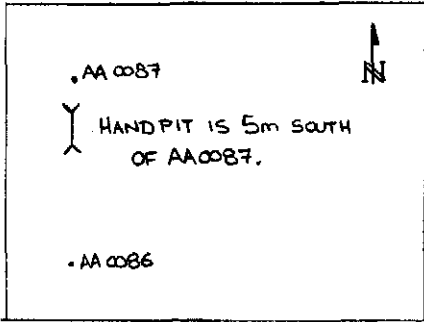
## **Hand Pitting**

A total of three hand pits were excavated in 1997. Their locations are illustrated on Figure 6 while individual profiles and sample results are shown on Figures 10, 11 and 12. Pits 1 and 2 are located in the core of a lead-zinc anomaly near its uphill edge. They are situated immediately upslope from soil pits that returned 4790 and 2310 ppm lead, respectively. Pit 3 is located about 450 m uphill from Pits 1 and 2 at the head of a strong lead anomaly (1355 ppm) which lies outside the main anomalous trend.



BB15467 : [ Ag, Cu, Pb, Zn ]  
 (Reported in ppm)

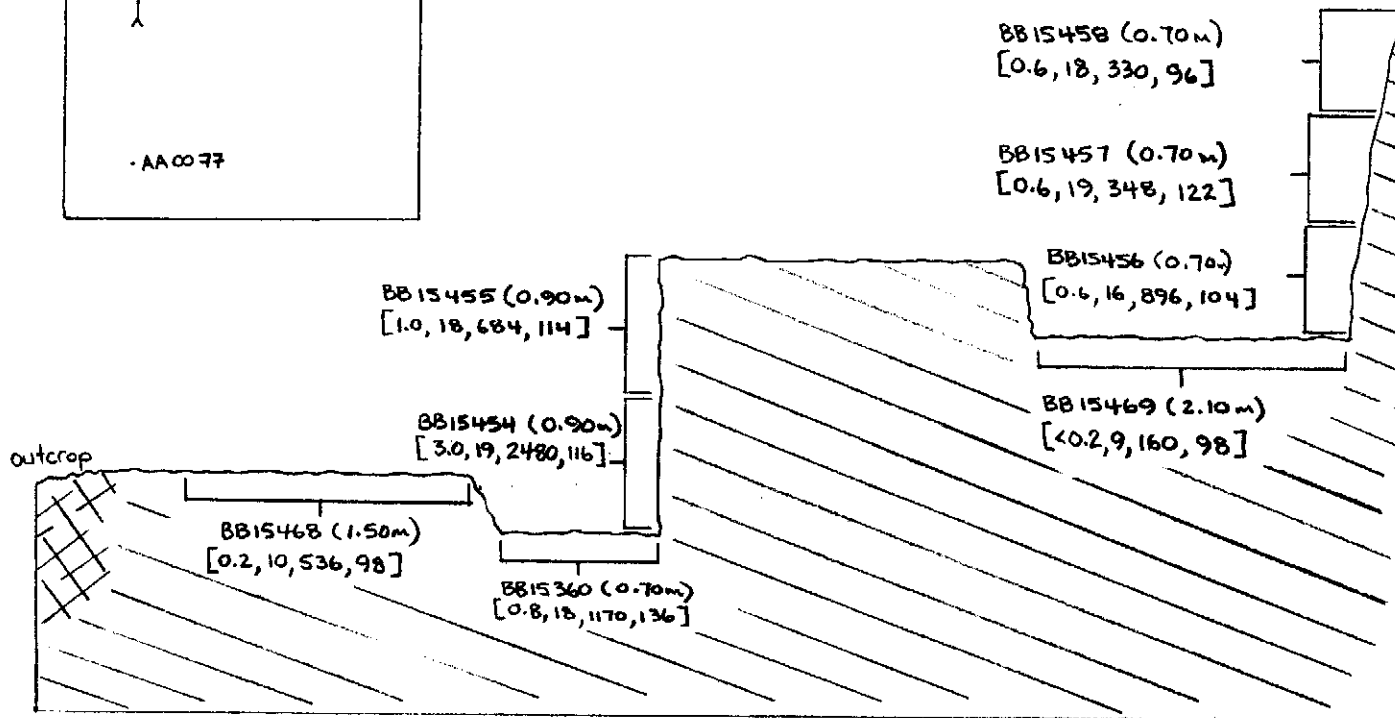
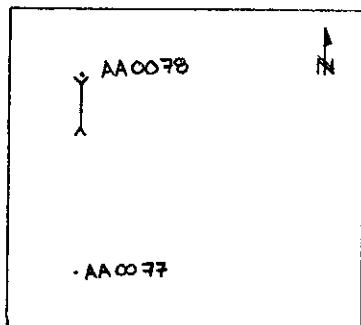
<b>EXPATRIATE RESOURCES LTD.</b>	
FIGURE 10 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>HAND PIT 1 PROFILE</b>	
LEAGUE PROPERTY	
DRAWN/REVISED BY: GD	PROJECT: FP
	DATE:



BB15546 : [ Ag, Cu, Pb, Zn, Au\* ]  
 (Reported in ppm except Au which is reported in ppb)

\* ONLY select samples analysed

<b>EXPATRIATE RESOURCES LTD.</b>	
FIGURE 11 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>HAND PIT 2 PROFILE</b>	
LEAGUE PROPERTY	
DRAWN/REVISED BY: GD	PROJECT: FP
	DATE:



BB15360 : [ Ag, Cu, Pb, Zn ]  
 (Reported in ppm)

EXPATRIATE RESOURCES LTD.

FIGURE 12  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## HAND PIT 3 PROFILE

LEAGUE PROPERTY

DRAWN/REVISED BY: GD

PROJECT: FP

DATE:

Profile descriptions for all pits show a layer of organic rich overburden between 0.2 and 0.8 m thick overlying a series of poorly consolidated layers comprised of fine brown soil and small angular rock fragments gradually giving way to clay rich material surrounding angular rocks.

Pits 1 and 2 bottomed in frozen ground while Pit 3 exposed consolidated shaly subcrop.

Pit 1 - Total Depth 3.5 m

A sample across the entire 3.5 m profile returned 3.4 g/t silver, 1425 ppm lead and 990 ppm zinc. Samples from individual horizons returned similar values but showed a gradual decrease in lead and silver and an increase in zinc with increasing depth.

Pit 2 - Total Depth 2.1 m

Samples taken from various horizons are all substantially elevated in silver, lead, zinc and arsenic but again show that zinc increases with depth while the other metals decrease. Sample BB15545 was taken across a grey shaly horizon (0.5 m) in the upper part of the pit and returned 24.0 g/t silver, 2730 ppm lead, 366 ppm zinc and 830 ppm arsenic. Random angular rock chips collected immediately above this horizon returned 60.2 g/t silver, 1.99% lead, 412 ppm zinc, 4830 ppm arsenic and 0.45 g/t gold

Pit 3 - Total Depth 3.9 m

Soil profile values from Pit 3 are anomalous but are substantially lower than those obtained in the first two pits. The highest values (3.0 g/t silver, 2480 ppm lead and 116 ppm zinc) came from the deepest soil horizon. A chip sample taken from the subcrop on the floor of the pit returned near background values for all metals.

## DISCUSSION AND CONCLUSIONS

The main geochemical anomaly at the League property is largely underlain by metamorphosed felsic and intermediate volcanic stratigraphy which has potential to host Kuroko-type VMS mineralization. The highest assays obtained from 1996 drill holes came from muscovite-altered felsic metavolcanics. Soils taken in the vicinity of the felsic unit are extremely elevated in lead and zinc but only weakly enriched in copper. The highest copper values came from soils taken further uphill.

Typical Kuroko-type VMS deposits are associated with felsic volcanics and exhibit vent proximal copper sulphides overlain by lead-zinc mineralization. The geochemical distribution of metals in soil at the League property suggests that the potential host stratigraphy may be overturned. Local structural data from surface and diamond drill holes cannot prove or disprove this possibility, however detailed structural mapping has shown that the nearby Kudz Ze Kayah Deposit is overturned. The somewhat complex soil geochemical pattern could also be due in part to disruptions in the stratigraphy caused by high angle faults coupled with hydromorphic channelling of metal bearing groundwater along those faults. Hand pitting has shown that glacial dispersion is not a factor in the core of the main anomaly but some of the outlying anomalies may be related to glacial smearing.

Diamond drilling in 1996 failed to intersect ore grade mineralization. Four of six holes were collared to test electromagnetic conductors associated with felsic volcanic stratigraphy. Surprisingly, none of those holes tested directly downdip from the main lead-zinc geochemical anomaly. Hole LG-96-2 was drilled about 50 m west of the anomaly and of all the holes it

produced the most encouraging results. It intersected four zones of hydrothermally-altered volcanics between 25.30 and 186.80 m. All of the zones returned elevated lead, zinc and silver values and one yielded gold values up to 1.17 g/t.

Exploration completed to date on the League property has defined an excellent VMS target which has not been adequately drill tested. Two phases of continued exploration are recommended. The first phase should involve detailed relogging of the 1996 drill core, specifically mapping the alteration and determining protoliths. Much has been learned about the alteration characteristics of the wallrocks at the Kudz Ze Kayah and Wolverine Deposits since Expatriate completed its drilling at the League property. This information can be used to develop source vectors for the second phase of exploration which should consist of closely spaced diamond drill holes within the core of the main anomaly.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

  
W.A. Wengzynowski, B.A.Sc.

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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 North 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. 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.
3. I have personally participated in and supervised the field work reported herein.



W.A. Wengzynowski, B.A.Sc.

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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Project: F.P. (LEAGE)  
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Page Number: 1-A  
Total Pages: 1  
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Invoice No.: I9743361  
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Account: MPO

## CERTIFICATE OF ANALYSIS A9743361

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BB15468	205	226	0.2	0.63	14	180	< 0.5	< 2	0.18	< 0.5	7	87	10	1.35	< 10	< 1	0.37	40	0.06	295	3
BB15469	205	226	< 0.2	0.66	14	140	< 0.5	< 2	0.08	< 0.5	6	60	9	0.68	< 10	< 1	0.39	40	0.05	190	1
BB15548	205	226	2.0	0.37	76	110	< 0.5	< 2	3.83	2.0	21	62	25	1.35	< 10	< 1	0.51	< 10	0.02	1635	1
BB15549	205	226	60.2	0.31	4830	110	< 0.5	< 2	0.01	4.0	2	94	40	2.39	< 10	3	0.26	10	0.01	25	3

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BB15468	205	226	< 0.01	17	330	536	< 2	< 1	19	< 0.01	< 10	< 10	3	< 10	98
BB15469	205	226	< 0.01	27	380	160	< 2	< 1	9	< 0.01	< 10	< 10	3	< 10	98
BB15548	205	226	0.02	31	490	102	< 2	1	70	< 0.01	< 10	< 10	3	< 10	314
BB15549	205	226	0.01	5	190	>10000	50	< 1	17	< 0.01	< 10	< 10	1	< 10	412

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### A9743367

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BB06321	201	202	0.2	0.46	12	280	< 0.5	< 2	0.84	1.5	3	5	13	0.98	< 10	< 1	0.11	30	0.09	150	1
BB06322	201	202	0.2	0.64	16	190	< 0.5	< 2	0.69	0.5	7	4	15	1.35	< 10	< 1	0.34	30	0.08	445	1
BB06323	201	202	< 0.2	1.28	22	240	< 0.5	< 2	0.63	0.5	12	53	13	2.65	< 10	< 1	0.23	30	0.72	470	1
BB06324	201	202	< 0.2	2.64	42	140	< 0.5	< 2	0.70	< 0.5	30	122	68	5.47	< 10	< 1	0.12	10	1.66	825	< 1
BB06325	201	202	0.8	1.14	32	160	< 0.5	< 2	0.51	< 0.5	13	33	17	2.66	< 10	< 1	0.19	40	0.37	590	1
BB06326	201	202	< 0.2	0.84	16	170	< 0.5	< 2	0.86	0.5	7	17	18	1.47	< 10	< 1	0.23	30	0.28	1010	1
BB06327	201	202	0.4	0.64	22	150	0.5	< 2	0.20	< 0.5	2	4	7	1.11	< 10	< 1	0.47	110	0.07	280	2
BB06328	201	202	0.2	0.82	104	80	< 0.5	< 2	0.07	< 0.5	6	8	4	2.21	< 10	< 1	0.18	60	0.14	300	2
BB06329	201	202	< 0.2	0.77	16	70	< 0.5	< 2	0.05	< 0.5	< 1	5	3	0.87	< 10	< 1	0.18	80	0.06	85	1
BB06330	201	202	< 0.2	1.05	12	210	< 0.5	< 2	0.28	< 0.5	5	19	6	1.49	< 10	< 1	0.20	60	0.31	265	1
BB06331	201	202	2.2	1.18	16	130	< 0.5	< 2	0.31	< 0.5	6	25	11	2.46	< 10	< 1	0.12	30	0.43	185	1
BB06332	201	202	< 0.2	1.31	8	120	< 0.5	< 2	0.10	< 0.5	4	22	7	2.13	< 10	< 1	0.08	20	0.27	210	1
BB06333	201	202	< 0.2	1.12	28	300	< 0.5	< 2	0.37	< 0.5	8	27	19	2.34	< 10	< 1	0.15	40	0.45	385	< 1
BB06334	201	202	< 0.2	1.36	6	220	< 0.5	< 2	0.20	< 0.5	6	27	12	2.11	< 10	< 1	0.09	30	0.46	260	< 1
BB06335	201	202	< 0.2	1.60	12	470	0.5	< 2	0.36	< 0.5	11	34	22	2.48	< 10	< 1	0.08	30	0.55	495	< 1
BB06336	201	202	0.6	0.46	64	260	< 0.5	< 2	0.04	< 0.5	5	5	12	2.52	< 10	< 1	0.31	20	0.04	110	3
BB06337	201	202	< 0.2	1.30	22	420	< 0.5	< 2	0.30	< 0.5	12	24	13	3.03	< 10	< 1	0.08	30	0.34	905	1
BB06338	201	202	< 0.2	1.46	18	290	< 0.5	< 2	0.45	< 0.5	10	42	19	4.07	< 10	< 1	0.09	10	0.43	550	1
BB06339	201	202	0.2	0.87	88	1300	< 0.5	< 2	0.10	< 0.5	18	15	58	3.23	< 10	< 1	0.08	30	0.24	1475	1
BB06340	201	202	< 0.2	0.80	58	1090	< 0.5	< 2	0.05	< 0.5	14	15	55	3.62	< 10	< 1	0.06	30	0.18	1660	1
BB06341	201	202	0.2	2.31	176	460	< 0.5	< 2	0.12	0.5	62	282	66	5.53	< 10	< 1	0.12	10	1.83	1265	1
BB06342	201	202	< 0.2	1.59	68	590	0.5	< 2	0.56	< 0.5	18	12	21	5.04	< 10	< 1	0.23	40	0.36	650	< 1
BB07390	201	202	0.6	0.43	50	910	< 0.5	< 2	0.28	< 0.5	12	3	33	3.22	< 10	< 1	0.20	50	0.04	1210	5
BB07391	201	202	0.2	0.57	36	490	< 0.5	< 2	0.35	< 0.5	13	3	20	2.85	< 10	< 1	0.18	70	0.03	1450	4
BB07392	201	202	< 0.2	1.18	30	370	< 0.5	< 2	0.24	< 0.5	7	11	14	2.39	< 10	< 1	0.10	50	0.18	360	1
BB07393	201	202	0.4	0.98	62	730	0.5	< 2	0.07	0.5	13	11	88	2.78	< 10	< 1	0.10	40	0.05	1200	2
BB07394	201	202	0.6	0.93	32	650	0.5	< 2	0.53	0.5	17	14	36	3.16	< 10	< 1	0.15	10	0.16	790	3
BB07395	201	202	1.0	0.97	46	830	0.5	< 2	0.44	2.5	15	14	60	3.10	< 10	< 1	0.14	30	0.18	895	1
BB07396	201	202	0.6	1.02	64	350	< 0.5	< 2	0.25	< 0.5	14	19	20	3.77	< 10	< 1	0.12	30	0.26	1020	3
BB07397	201	202	0.8	0.94	76	470	0.5	< 2	0.56	1.0	13	15	30	3.55	< 10	< 1	0.13	30	0.22	475	3
BB07398	201	202	0.8	0.82	104	290	0.5	< 2	0.97	1.5	16	13	49	4.41	< 10	< 1	0.13	30	0.25	1250	3
BB07399	201	202	0.2	0.74	118	250	< 0.5	< 2	0.74	0.5	15	13	32	4.16	< 10	< 1	0.09	20	0.21	1110	3
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BB07402	201	202	0.6	0.65	32	150	< 0.5	< 2	0.46	3.5	11	12	23	2.76	< 10	< 1	0.22	30	0.16	360	2
BB07403	201	202	0.8	0.85	38	190	0.5	< 2	0.36	3.0	10	15	30	2.87	< 10	< 1	0.23	30	0.21	255	3
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BB07406	201	202	0.6	0.87	36	170	< 0.5	< 2	0.70	4.0	13	19	17	2.80	< 10	< 1	0.19	30	0.23	735	1
BB07407	201	202	0.2	0.65	20	280	< 0.5	< 2	0.63	2.5	27	12	32	2.84	< 10	< 1	0.32	30	0.13	1295	2

CERTIFICATION: *David Buchler*



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Project : F.P. LEAGE  
Comments:

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SAMPLE	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB06321	201	202	0.01	8	430	142	< 2	< 1	54	0.01	< 10	< 10	11	< 10	120
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BB06323	201	202	< 0.01	30	650	14	< 2	5	30	< 0.01	< 10	< 10	31	< 10	216
BB06324	201	202	< 0.01	76	320	6	< 2	17	21	0.17	< 10	< 10	56	< 10	86
BB06325	201	202	< 0.01	31	340	76	< 2	3	22	0.02	< 10	< 10	17	< 10	172
BB06326	201	202	0.03	18	580	14	< 2	2	38	0.01	< 10	< 10	18	< 10	266
BB06327	201	202	< 0.01	3	570	26	< 2	1	19	< 0.01	< 10	< 10	5	< 10	176
BB06328	201	202	< 0.01	8	420	42	< 2	1	52	< 0.01	< 10	< 10	11	< 10	138
BB06329	201	202	< 0.01	1	210	14	< 2	< 1	8	0.01	< 10	< 10	14	< 10	24
BB06330	201	202	< 0.01	11	550	26	< 2	1	20	0.01	< 10	< 10	23	< 10	56
BB06331	201	202	< 0.01	22	760	432	< 2	2	33	0.04	< 10	< 10	33	< 10	218
BB06332	201	202	< 0.01	13	270	16	< 2	1	11	0.04	< 10	< 10	42	< 10	46
BB06333	201	202	< 0.01	28	800	16	< 2	4	26	0.03	< 10	< 10	29	< 10	86
BB06334	201	202	0.01	20	650	14	< 2	2	16	0.03	< 10	< 10	32	< 10	80
BB06335	201	202	< 0.01	33	690	18	< 2	4	23	0.04	< 10	< 10	40	< 10	130
BB06336	201	202	< 0.01	12	420	78	< 2	1	49	< 0.01	< 10	< 10	6	< 10	38
BB06337	201	202	0.01	19	870	22	< 2	1	23	0.01	< 10	< 10	38	< 10	92
BB06338	201	202	< 0.01	29	1280	42	< 2	2	34	0.04	< 10	< 10	48	< 10	86
BB06339	201	202	0.01	48	710	26	< 2	3	18	0.03	< 10	< 10	36	< 10	108
BB06340	201	202	< 0.01	42	330	20	< 2	3	10	0.03	< 10	< 10	27	< 10	112
BB06341	201	202	< 0.01	315	370	28	< 2	8	16	< 0.01	< 10	< 10	52	< 10	438
BB06342	201	202	< 0.01	19	900	18	< 2	7	33	< 0.01	< 10	< 10	36	< 10	94
BB07390	201	202	< 0.01	25	990	36	< 2	3	49	< 0.01	< 10	< 10	14	< 10	86
BB07391	201	202	< 0.01	18	1030	24	< 2	3	29	< 0.01	< 10	< 10	8	< 10	86
BB07392	201	202	< 0.01	11	560	14	< 2	1	21	0.01	< 10	< 10	21	< 10	46
BB07393	201	202	< 0.01	31	960	22	< 2	3	64	< 0.01	< 10	< 10	40	< 10	116
BB07394	201	202	0.01	28	910	42	< 2	3	45	< 0.01	< 10	< 10	24	< 10	128
BB07395	201	202	< 0.01	52	990	50	< 2	3	50	< 0.01	< 10	< 10	26	< 10	382
BB07396	201	202	< 0.01	20	990	36	< 2	3	26	< 0.01	< 10	< 10	28	< 10	194
BB07397	201	202	< 0.01	30	800	50	< 2	3	40	< 0.01	< 10	< 10	22	< 10	278
BB07398	201	202	0.01	35	940	32	< 2	5	50	0.01	< 10	< 10	24	< 10	140
BB07399	201	202	0.01	25	960	22	< 2	3	42	0.01	< 10	< 10	23	< 10	130
BB07400	201	202	< 0.01	37	930	36	< 2	4	25	< 0.01	< 10	< 10	28	< 10	180
BB07401	201	202	0.01	23	1320	34	< 2	7	45	< 0.01	< 10	< 10	28	< 10	122
BB07402	201	202	< 0.01	22	590	120	< 2	2	21	< 0.01	< 10	< 10	12	< 10	614
BB07403	201	202	< 0.01	21	650	252	< 2	3	18	< 0.01	< 10	< 10	15	< 10	742
BB07404	201	202	0.01	7	600	30	< 2	1	30	< 0.01	< 10	< 10	6	< 10	274
BB07405	201	202	< 0.01	21	740	34	< 2	4	34	0.07	< 10	< 10	37	< 10	262
BB07406	201	202	0.01	41	630	124	< 2	4	27	< 0.01	< 10	< 10	18	< 10	1285
BB07407	201	202	< 0.01	45	810	42	< 2	3	24	< 0.01	< 10	< 10	11	< 10	370

CERTIFICATION:

*Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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To: EXPATRIATE RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 P.O. BOX 4127  
 WHITEHORSE, YT  
 Y1A 3S9

Page: 2-A  
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 Certificate Date: 25-SEP-97  
 Invoice No.: I9743367  
 P.O. Number:  
 Account: MPO

Project: F.P. LEAGE  
 Comments:

## CERTIFICATE OF ANALYSIS A9743367

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
BB07408	201	202	5.2	1.52	164	1000	0.5	< 2	1.69	3.5	18	32	64	4.00	< 10	< 1	0.09	10	0.27	1710	3
BB07409	201	202	1.4	1.60	70	280	< 0.5	< 2	0.34	3.0	20	62	45	3.11	< 10	< 1	0.23	10	0.73	755	1
BB07410	201	202	0.6	1.25	54	410	< 0.5	< 2	1.30	2.5	17	39	39	2.54	< 10	< 1	0.11	30	0.54	765	1
BB07411	201	202	0.6	1.99	76	1070	0.5	< 2	0.50	3.5	44	91	58	5.00	< 10	< 1	0.14	20	0.86	2320	1
BB07412	201	202	0.6	1.32	80	1270	< 0.5	< 2	0.30	< 0.5	11	34	43	2.94	< 10	< 1	0.11	20	0.30	545	2
BB07413	201	202	0.2	0.91	36	450	< 0.5	< 2	0.13	< 0.5	6	17	27	2.33	< 10	< 1	0.07	20	0.27	280	1
BB07414	201	202	0.2	0.93	54	890	< 0.5	< 2	0.12	< 0.5	9	18	52	2.92	< 10	< 1	0.06	30	0.27	325	2
BB07415	201	202	2.4	0.47	56	810	< 0.5	< 2	0.05	< 0.5	6	18	40	3.95	< 10	< 1	0.21	30	0.02	575	17
BB07416	201	202	1.6	0.27	36	610	< 0.5	< 2	0.13	< 0.5	5	4	21	2.39	< 10	< 1	0.15	40	0.02	530	5
BB07417	201	202	0.6	0.44	52	570	< 0.5	< 2	0.20	< 0.5	9	4	21	3.38	< 10	< 1	0.16	50	0.05	1095	7
BB07418	201	202	0.6	0.45	48	710	< 0.5	< 2	0.09	< 0.5	6	5	16	3.45	< 10	< 1	0.18	50	0.03	600	6
BB07419	201	202	1.8	0.99	188	680	0.5	< 2	0.15	2.0	23	11	57	5.19	< 10	< 1	0.19	30	0.27	950	3
BB07420	201	202	1.8	1.24	110	480	< 0.5	< 2	0.23	0.5	14	38	38	3.81	< 10	< 1	0.15	30	0.41	560	3
BB07421	201	202	2.8	1.52	90	670	0.5	< 2	0.43	7.0	33	73	55	4.77	< 10	< 1	0.14	20	0.50	1745	3
BB07422	201	202	0.4	0.95	46	460	0.5	< 2	0.39	1.0	18	19	22	3.29	< 10	< 1	0.16	40	0.19	970	4
BB07423	201	202	0.2	0.95	32	490	0.5	< 2	0.49	1.5	11	9	31	4.13	< 10	< 1	0.14	30	0.11	810	5
BB07424	201	202	2.4	1.58	48	490	0.5	< 2	0.51	1.5	18	37	58	4.14	< 10	< 1	0.16	30	0.59	805	3
BB07425	201	202	< 0.2	1.60	20	110	< 0.5	< 2	0.54	< 0.5	13	58	19	2.86	< 10	< 1	0.16	30	1.02	405	< 1
BB07426	201	202	0.2	0.79	26	180	< 0.5	< 2	0.61	< 0.5	9	18	14	2.02	< 10	< 1	0.11	10	0.31	340	1
BB07427	201	202	0.4	0.72	182	120	< 0.5	< 2	0.52	0.5	23	14	85	5.48	< 10	< 1	0.10	30	0.27	665	3
BB07428	201	202	0.2	0.79	234	270	< 0.5	< 2	0.68	0.5	18	12	28	4.84	< 10	< 1	0.10	20	0.32	1100	2
BB07429	201	202	0.6	1.14	102	260	0.5	< 2	0.56	0.5	16	26	52	4.37	< 10	< 1	0.10	20	0.50	565	3
BB07430	201	202	< 0.2	1.38	20	160	< 0.5	< 2	0.45	< 0.5	12	40	23	2.70	< 10	< 1	0.15	30	0.84	505	< 1
BB07431	201	202	0.2	0.80	24	180	< 0.5	< 2	0.85	1.5	13	21	22	2.38	< 10	< 1	0.17	20	0.28	480	1
BB07432	201	202	0.4	1.16	40	210	< 0.5	< 2	0.55	0.5	13	33	22	2.90	< 10	< 1	0.19	30	0.41	540	2
BB07433	201	202	0.6	0.97	40	360	< 0.5	< 2	0.57	1.5	15	17	24	3.32	< 10	< 1	0.16	10	0.23	750	1
BB07434	201	202	0.6	0.94	42	410	< 0.5	< 2	0.92	3.0	18	20	27	2.78	< 10	< 1	0.16	10	0.24	765	1
BB07435	201	202	0.2	0.80	50	710	< 0.5	< 2	0.27	3.5	31	26	41	3.96	< 10	< 1	0.20	20	0.28	1205	3
BB07436	201	202	0.8	1.04	56	760	0.5	< 2	0.81	1.5	24	24	31	4.05	< 10	< 1	0.20	10	0.29	765	2
BB07437	201	202	0.2	1.14	52	280	< 0.5	< 2	0.38	0.5	37	53	71	3.03	< 10	< 1	0.18	10	0.50	1270	1
BB07438	201	202	0.2	0.74	56	320	< 0.5	< 2	0.14	< 0.5	12	27	25	2.71	< 10	< 1	0.11	40	0.24	1460	2
BB07439	201	202	0.6	1.36	36	1340	0.5	< 2	0.26	< 0.5	10	10	23	2.29	< 10	< 1	0.05	20	0.20	840	2
BB07440	201	202	0.4	0.59	38	860	< 0.5	< 2	0.04	< 0.5	8	5	41	1.96	< 10	< 1	0.06	< 10	0.07	730	< 1
BB07441	201	202	0.8	0.72	90	1490	0.5	< 2	0.08	1.5	19	11	126	3.50	< 10	< 1	0.08	20	0.12	1895	1
BB07442	201	202	0.8	0.43	36	840	< 0.5	< 2	0.17	< 0.5	7	6	32	3.62	< 10	< 1	0.15	50	0.04	800	5
BB07443	201	202	0.2	0.89	58	1050	< 0.5	< 2	0.20	< 0.5	12	13	18	3.50	< 10	< 1	0.12	40	0.20	860	2
BB07444	201	202	0.8	0.86	50	880	< 0.5	< 2	0.43	< 0.5	10	16	19	3.00	< 10	< 1	0.13	40	0.20	400	3
BB07445	201	202	0.6	1.18	58	370	< 0.5	< 2	0.22	1.5	18	34	44	3.46	< 10	< 1	0.17	30	0.37	1070	2
BB07446	201	202	1.2	0.97	48	300	< 0.5	< 2	0.13	< 0.5	7	13	16	2.76	< 10	< 1	0.11	30	0.25	190	2
BB07447	201	202	0.6	0.89	46	420	< 0.5	< 2	0.23	0.5	11	13	14	3.05	< 10	< 1	0.12	30	0.20	585	3

CERTIFICATION: *David Richler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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 WHITEHORSE, YT  
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Project : F.P. LEAGE  
 Comments:

## CERTIFICATE OF ANALYSIS A9743367

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB07408	201 202	< 0.01	64	1400	1030	2	3	85	< 0.01	< 10	10	22	< 10	400
BB07409	201 202	< 0.01	72	490	196	< 2	5	19	0.04	< 10	< 10	27	< 10	674
BB07410	201 202	< 0.01	51	860	60	< 2	3	57	0.01	< 10	< 10	18	< 10	504
BB07411	201 202	< 0.01	138	790	32	< 2	12	23	< 0.01	< 10	< 10	34	< 10	952
BB07412	201 202	< 0.01	46	820	24	2	3	27	< 0.01	< 10	< 10	31	< 10	84
BB07413	201 202	< 0.01	22	710	18	< 2	1	35	0.03	< 10	< 10	35	< 10	72
BB07414	201 202	< 0.01	35	750	22	< 2	2	29	0.02	< 10	< 10	35	< 10	112
BB07415	201 202	< 0.01	31	1830	88	6	1	341	< 0.01	< 10	< 10	66	< 10	132
BB07416	201 202	< 0.01	14	860	96	2	1	54	< 0.01	< 10	< 10	17	< 10	46
BB07417	201 202	< 0.01	21	1080	38	2	2	40	< 0.01	< 10	< 10	14	< 10	72
BB07418	201 202	< 0.01	17	860	40	2	2	47	< 0.01	< 10	< 10	16	< 10	92
BB07419	201 202	< 0.01	73	880	146	2	3	27	< 0.01	< 10	< 10	17	< 10	426
BB07420	201 202	< 0.01	51	610	202	2	4	17	< 0.01	< 10	< 10	21	< 10	314
BB07421	201 202	< 0.01	94	840	148	< 2	6	38	< 0.01	< 10	< 10	22	< 10	1005
BB07422	201 202	< 0.01	37	560	70	< 2	4	21	< 0.01	< 10	< 10	16	< 10	262
BB07423	201 202	0.01	25	960	56	< 2	3	28	< 0.01	< 10	< 10	14	< 10	228
BB07424	201 202	< 0.01	62	920	30	2	5	28	0.04	< 10	< 10	42	< 10	210
BB07425	201 202	< 0.01	38	980	8	< 2	4	35	0.08	< 10	< 10	40	< 10	72
BB07426	201 202	0.03	18	660	20	< 2	2	29	0.02	< 10	< 10	19	< 10	120
BB07427	201 202	< 0.01	52	1570	38	2	4	38	< 0.01	< 10	< 10	26	< 10	180
BB07428	201 202	< 0.01	28	810	46	< 2	4	45	0.01	< 10	< 10	21	< 10	134
BB07429	201 202	< 0.01	36	1030	42	< 2	5	33	0.01	< 10	< 10	30	< 10	174
BB07430	201 202	< 0.01	35	960	18	< 2	3	27	0.07	< 10	< 10	37	< 10	92
BB07431	201 202	< 0.01	26	830	56	< 2	3	35	0.01	< 10	< 10	19	< 10	296
BB07432	201 202	< 0.01	31	590	86	< 2	4	24	0.01	< 10	< 10	25	< 10	230
BB07433	201 202	0.01	34	790	72	2	3	28	< 0.01	< 10	< 10	18	< 10	216
BB07434	201 202	0.01	37	850	68	< 2	2	38	< 0.01	< 10	< 10	15	< 10	398
BB07435	201 202	< 0.01	73	600	38	2	6	20	< 0.01	< 10	< 10	16	< 10	474
BB07436	201 202	0.01	44	870	46	2	4	40	< 0.01	< 10	< 10	15	< 10	220
BB07437	201 202	< 0.01	135	330	26	< 2	7	8	0.01	< 10	< 10	20	< 10	294
BB07438	201 202	< 0.01	58	410	28	< 2	2	8	< 0.01	< 10	< 10	11	< 10	36
BB07439	201 202	0.01	21	960	22	< 2	2	22	< 0.01	< 10	< 10	18	< 10	82
BB07440	201 202	0.03	31	530	16	< 2	1	22	< 0.01	< 10	< 10	16	< 10	102
BB07441	201 202	< 0.01	72	720	30	< 2	4	68	0.01	< 10	< 10	31	< 10	198
BB07442	201 202	< 0.01	18	1340	36	2	3	67	< 0.01	< 10	< 10	22	< 10	78
BB07443	201 202	< 0.01	27	1110	22	< 2	4	20	< 0.01	< 10	< 10	19	< 10	96
BB07444	201 202	0.01	34	770	34	< 2	2	32	< 0.01	< 10	< 10	16	< 10	132
BB07445	201 202	< 0.01	57	660	28	2	4	26	0.01	< 10	< 10	25	< 10	274
BB07446	201 202	< 0.01	16	630	58	2	1	16	< 0.01	< 10	< 10	17	< 10	150
BB07447	201 202	< 0.01	19	630	40	< 2	2	18	< 0.01	< 10	< 10	16	< 10	190

CERTIFICATION:

*Heath Becker*



# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS

### A9743367

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
BB07448	201	202	0.4	1.26	32	350	0.5	< 2	0.36	< 0.5	10	26	21	2.77	< 10	< 1	0.10	30	0.36	315	1
BB07449	201	202	0.4	1.49	52	370	0.5	< 2	0.48	< 0.5	12	35	25	3.68	< 10	< 1	0.14	40	0.57	475	1
BB07450	201	202	0.6	0.97	56	430	< 0.5	< 2	1.01	< 0.5	14	16	41	3.17	< 10	< 1	0.09	30	0.21	1120	3
BB07451	201	202	1.0	1.00	114	410	0.5	< 2	0.77	0.5	17	15	59	4.98	< 10	< 1	0.09	30	0.24	955	4
BB07452	201	202	0.2	1.19	132	190	0.5	< 2	0.22	0.5	24	13	47	6.00	< 10	< 1	0.08	30	0.16	1425	3
BB07453	201	202	0.8	1.06	66	1030	< 0.5	< 2	0.13	< 0.5	13	18	51	3.31	< 10	< 1	0.09	30	0.25	1090	1
BB07454	201	202	1.2	0.64	30	840	< 0.5	< 2	0.06	< 0.5	9	7	35	2.84	< 10	< 1	0.15	30	0.08	770	4
BB07455	201	202	0.6	0.79	26	1600	< 0.5	< 2	0.46	< 0.5	4	2	21	1.88	< 10	< 1	0.09	20	0.06	425	1
BB07456	201	202	0.6	1.20	296	840	0.5	< 2	0.26	< 0.5	19	8	35	6.25	< 10	< 1	0.09	40	0.25	1025	4
BB07457	201	202	2.2	0.50	228	150	< 0.5	< 2	0.02	< 0.5	8	6	17	4.56	< 10	< 1	0.61	10	0.08	335	7
BB07458	201	202	2.0	1.15	82	1130	0.5	< 2	0.50	0.5	9	13	19	2.89	< 10	< 1	0.13	30	0.15	580	3
BB07459	201	202	0.6	0.60	46	470	< 0.5	< 2	0.33	0.5	11	8	38	3.48	< 10	< 1	0.25	30	0.08	365	4
BB07460	201	202	0.8	0.98	48	700	< 0.5	< 2	0.67	0.5	17	15	29	3.23	< 10	< 1	0.10	30	0.18	885	4
BB07461	201	202	0.2	0.89	28	390	< 0.5	< 2	0.65	0.5	16	27	13	2.61	< 10	< 1	0.12	20	0.31	695	2
BB07462	201	202	0.4	1.13	38	460	0.5	< 2	0.82	1.5	24	24	27	3.57	< 10	< 1	0.14	20	0.27	1690	3
BB07463	201	202	< 0.2	2.19	20	170	0.5	< 2	1.14	< 0.5	17	70	34	3.79	< 10	< 1	0.29	30	1.27	545	< 1
BB07464	201	202	< 0.2	1.79	30	120	< 0.5	< 2	0.24	< 0.5	16	50	22	3.21	< 10	< 1	0.10	20	0.71	530	< 1
BB07465	201	202	0.4	0.96	26	250	< 0.5	< 2	0.78	0.5	11	23	18	2.28	< 10	< 1	0.15	10	0.31	500	1
BB07466	201	202	0.2	0.87	24	230	< 0.5	< 2	0.16	0.5	3	8	15	2.01	< 10	< 1	0.05	20	0.09	215	1
BB07467	201	202	0.4	0.57	292	440	0.5	< 2	3.04	< 0.5	39	14	65	2.93	< 10	< 1	0.31	< 10	0.13	1765	< 1
BB07468	201	202	< 0.2	6.64	200	220	< 0.5	< 2	0.26	0.5	80	837	42	9.40	< 10	< 1	0.25	< 10	6.58	1425	< 1
BB07469	201	202	0.2	1.36	38	470	< 0.5	< 2	0.30	0.5	11	30	38	2.87	< 10	< 1	0.11	30	0.52	610	< 1
BB07470	201	202	< 0.2	1.11	56	730	< 0.5	< 2	0.19	< 0.5	11	22	46	3.01	< 10	< 1	0.10	40	0.37	545	1
BB07471	201	202	< 0.2	1.32	26	420	0.5	< 2	0.48	< 0.5	13	37	14	2.79	< 10	< 1	0.12	30	0.36	790	1
BB07472	201	202	1.4	1.01	48	260	< 0.5	< 2	0.79	1.5	12	20	12	2.19	< 10	< 1	0.11	30	0.23	1115	3
BB07473	201	202	7.4	0.99	166	220	< 0.5	< 2	0.40	4.0	51	24	64	6.09	< 10	< 1	0.49	10	0.14	2750	2
BB07474	201	202	10.4	0.91	124	110	< 0.5	< 2	0.19	1.0	15	23	32	4.74	< 10	< 1	0.46	10	0.34	260	3
BB07475	201	202	6.6	0.94	122	110	< 0.5	< 2	0.27	< 0.5	13	6	11	2.06	< 10	< 1	0.22	< 10	0.10	535	< 1
BB07476	201	202	1.2	1.07	78	230	0.5	< 2	0.56	6.0	40	23	35	3.64	< 10	< 1	0.28	10	0.25	1930	1
BB07477	201	202	1.2	0.62	40	130	< 0.5	< 2	0.22	1.5	11	7	16	2.12	< 10	< 1	0.29	60	0.12	925	3
BB07478	201	202	0.2	1.34	46	150	0.5	< 2	0.90	2.5	20	45	53	3.49	< 10	< 1	0.30	20	0.56	570	1
BB07479	201	202	0.6	0.56	90	130	< 0.5	< 2	0.01	0.5	2	< 1	10	3.28	< 10	< 1	0.39	50	0.01	215	3
BB07480	201	202	2.6	1.00	36	260	0.5	< 2	0.74	5.0	7	21	28	1.94	< 10	< 1	0.18	30	0.24	515	3
BB07481	201	202	0.4	0.81	20	150	< 0.5	< 2	0.07	< 0.5	2	8	3	1.13	< 10	< 1	0.09	40	0.11	85	1
BB07482	201	202	< 0.2	1.64	18	160	< 0.5	< 2	0.16	< 0.5	12	72	21	2.43	< 10	< 1	0.09	20	0.75	310	< 1
BB07483	201	202	< 0.2	2.00	28	330	< 0.5	< 2	0.44	< 0.5	27	80	69	3.75	< 10	< 1	0.15	30	1.07	950	1
BB07484	201	202	< 0.2	1.15	68	170	< 0.5	< 2	0.12	0.5	7	27	15	2.22	< 10	< 1	0.12	40	0.26	420	2
BB07485	201	202	0.6	0.86	52	160	< 0.5	< 2	0.14	0.5	12	19	20	3.05	< 10	< 1	0.14	30	0.30	380	4
BB07486	201	202	0.2	1.17	28	840	< 0.5	< 2	0.86	0.5	9	11	18	1.55	< 10	< 1	0.05	10	0.14	5200	1
BB07487	201	202	0.2	1.68	42	200	0.5	< 2	0.18	1.5	18	29	29	3.43	< 10	< 1	0.15	20	0.40	495	1

CERTIFICATION:

*Walter Buchler*





# 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: EXPATRIATE RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 P.O. BOX 4127  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 4-A  
 Total Pages : 5  
 Certificate Date: 25-SEP-97  
 Invoice No. : 19743367  
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Project : F.P. LEAGE  
 Comments:

## CERTIFICATE OF ANALYSIS A9743367

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
BB07488	201	202	< 0.2	1.48	66	220	< 0.5	< 2	0.89	0.5	29	47	44	5.24	< 10	< 1	0.16	10	0.63	1355	1
BB07489	201	202	0.4	1.13	34	250	< 0.5	< 2	0.21	< 0.5	9	23	18	2.69	< 10	< 1	0.15	50	0.29	415	1
BB07490	201	202	< 0.2	1.32	44	300	< 0.5	< 2	0.37	< 0.5	8	25	18	2.20	< 10	< 1	0.12	40	0.46	520	< 1
BB07491	201	202	< 0.2	0.99	20	280	< 0.5	< 2	0.26	< 0.5	6	20	15	1.67	< 10	< 1	0.15	60	0.32	235	< 1
BB07492	201	202	< 0.2	1.07	14	150	< 0.5	< 2	0.19	< 0.5	5	24	10	1.65	< 10	< 1	0.08	30	0.39	165	< 1
BB07493	201	202	0.2	1.00	12	170	< 0.5	< 2	0.44	1.5	6	21	9	1.55	< 10	< 1	0.10	30	0.37	255	1
BB07494	201	202	< 0.2	1.21	6	190	< 0.5	< 2	0.28	1.5	5	29	10	1.81	< 10	< 1	0.10	30	0.51	175	1
BB07495	201	202	0.2	1.27	28	310	0.5	< 2	0.26	2.0	56	35	33	4.26	< 10	< 1	0.42	50	0.61	3440	1
BB15356	201	202	1.4	4.20	88	830	< 0.5	< 2	0.44	6.0	59	179	176	8.78	10	1	0.08	< 10	2.38	1540	1
BB15357	201	202	3.4	1.38	148	260	< 0.5	< 2	0.23	2.5	19	52	35	4.37	< 10	1	0.20	10	0.68	620	3
BB15358	201	202	4.0	0.56	264	330	< 0.5	< 2	0.17	< 0.5	6	14	15	3.87	< 10	< 1	0.28	10	0.20	140	4
BB15359	201	202	3.4	1.20	196	310	< 0.5	< 2	0.20	2.0	17	50	38	4.96	< 10	< 1	0.22	10	0.61	565	3
BB15360	201	202	0.8	0.56	52	210	< 0.5	< 2	0.16	0.5	9	11	18	2.19	< 10	< 1	0.12	10	0.15	295	4
BB15454	201	202	3.0	0.75	60	330	< 0.5	< 2	0.14	< 0.5	7	19	19	3.39	< 10	< 1	0.17	20	0.25	295	4
BB15455	201	202	1.0	0.96	66	290	< 0.5	< 2	0.13	< 0.5	9	27	18	2.66	< 10	< 1	0.16	30	0.30	435	2
BB15456	201	202	0.6	0.69	42	220	< 0.5	< 2	0.19	< 0.5	9	16	16	2.21	< 10	< 1	0.15	40	0.25	230	3
BB15457	201	202	0.6	1.09	50	260	< 0.5	< 2	0.22	< 0.5	11	27	19	2.57	< 10	< 1	0.13	40	0.42	425	2
BB15458	201	202	0.6	1.25	58	200	< 0.5	< 2	0.17	< 0.5	10	27	18	2.71	< 10	< 1	0.12	40	0.36	370	2
BB15470	201	202	8.8	0.48	292	150	< 0.5	< 2	0.28	6.0	62	5	66	2.67	< 10	< 1	0.47	10	0.01	2220	1
BB15545	201	202	24.0	0.50	830	180	< 0.5	< 2	0.05	0.5	4	3	41	3.76	< 10	1	0.60	10	0.03	95	2
BB15546	201	202	14.6	0.52	446	150	< 0.5	< 2	0.02	< 0.5	3	3	17	2.65	< 10	1	0.33	20	0.04	115	4
BB15547	201	202	16.8	0.67	266	140	< 0.5	< 2	0.11	2.5	11	1	76	3.88	< 10	< 1	0.37	10	0.04	365	3
BB17300	201	202	0.2	1.02	58	640	< 0.5	< 2	0.06	< 0.5	13	17	76	3.17	< 10	< 1	0.08	20	0.21	740	1
BB17301	201	202	0.2	1.02	36	530	< 0.5	< 2	0.26	< 0.5	10	23	39	2.59	< 10	< 1	0.08	10	0.40	435	1
BB17302	201	202	< 0.2	1.21	42	210	< 0.5	< 2	0.25	< 0.5	14	37	24	3.07	< 10	< 1	0.07	20	0.56	515	1
BB17303	201	202	1.2	0.28	36	80	< 0.5	< 2	0.02	< 0.5	< 1	3	1	0.83	< 10	< 1	0.14	50	0.03	15	2
BB17304	201	202	16.8	0.39	672	250	< 0.5	< 2	0.01	< 0.5	1	4	12	4.52	< 10	< 1	0.54	30	0.04	30	9
BB17305	201	202	3.0	0.89	98	360	0.5	< 2	0.79	3.0	10	17	35	2.62	< 10	< 1	0.22	30	0.16	275	3
BB17306	201	202	1.2	1.76	68	320	0.5	< 2	0.47	6.5	40	69	61	4.73	< 10	< 1	0.30	10	0.83	920	< 1
BB17307	201	202	0.6	0.96	46	250	< 0.5	< 2	0.44	4.5	26	28	54	3.83	< 10	< 1	0.39	10	0.26	860	< 1
BB17308	201	202	1.0	0.73	50	210	< 0.5	< 2	0.48	2.5	20	12	30	2.56	< 10	< 1	0.33	10	0.08	590	2
BB17309	201	202	0.6	0.56	36	100	< 0.5	< 2	0.17	1.0	11	11	8	1.65	< 10	< 1	0.30	30	0.10	535	2
BB17310	201	202	0.8	0.79	38	200	< 0.5	< 2	0.70	3.0	19	12	28	2.72	< 10	< 1	0.31	10	0.15	725	1
BB17311	201	202	0.4	1.13	30	210	< 0.5	< 2	0.49	2.0	12	32	29	2.48	< 10	< 1	0.23	30	0.40	175	1
BB17312	201	202	0.6	1.18	50	130	< 0.5	< 2	0.68	0.5	15	29	22	3.30	< 10	< 1	0.17	30	0.43	545	3
BB17313	201	202	0.2	1.15	34	170	< 0.5	< 2	0.93	1.5	14	33	25	2.52	< 10	< 1	0.25	20	0.43	730	1
BB17314	201	202	0.2	1.44	52	290	0.5	< 2	0.57	3.5	27	51	35	3.86	< 10	< 1	0.25	30	0.61	1780	1
BB17315	201	202	0.8	1.13	80	300	< 0.5	< 2	0.54	4.5	33	41	61	3.96	< 10	< 1	0.29	20	0.47	1150	3
BB17316	201	202	1.0	0.99	68	270	< 0.5	< 2	0.51	5.0	34	29	79	3.66	< 10	< 1	0.40	10	0.33	1430	1
BB17317	201	202	0.6	2.28	30	260	< 0.5	< 2	0.48	2.5	26	100	39	4.72	< 10	< 1	0.13	10	1.17	840	< 1

CERTIFICATION: Haut Buchler



# 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: EXPATRIATE RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 P.O. BOX 4127  
 WHITEHORSE, YT  
 Y1A 3S9

Page Number : 4-B  
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 Invoice No. : 19743367  
 P.O. Number :  
 Account : MPO

Project : F.P. LEAGE  
 Comments:

## CERTIFICATE OF ANALYSIS A9743367

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB07488	201 202	< 0.01	58	700	38	< 2	5	27	0.01	< 10	< 10	27	< 10	134
BB07489	201 202	< 0.01	29	640	26	< 2	3	21	0.01	< 10	< 10	22	< 10	114
BB07490	201 202	0.01	25	850	12	< 2	3	29	0.03	< 10	< 10	31	< 10	78
BB07491	201 202	< 0.01	23	630	16	< 2	3	20	0.03	< 10	< 10	22	< 10	76
BB07492	201 202	< 0.01	20	610	10	< 2	1	15	0.02	< 10	< 10	25	< 10	78
BB07493	201 202	0.01	20	610	54	< 2	1	27	0.01	< 10	< 10	23	< 10	1410
BB07494	201 202	< 0.01	21	390	12	< 2	2	20	0.03	< 10	< 10	31	< 10	348
BB07495	201 202	< 0.01	50	510	20	< 2	6	18	< 0.01	< 10	< 10	19	< 10	448
BB15356	201 202	< 0.01	126	670	360	4	21	21	< 0.01	< 10	10	114	< 10	2910
BB15357	201 202	< 0.01	50	580	1405	2	7	19	0.03	< 10	< 10	31	< 10	994
BB15358	201 202	< 0.01	16	620	1980	4	1	27	< 0.01	< 10	< 10	11	< 10	236
BB15359	201 202	< 0.01	42	660	1425	4	6	21	< 0.01	< 10	< 10	29	< 10	990
BB15360	201 202	< 0.01	30	710	1170	2	1	29	< 0.01	< 10	10	10	< 10	136
BB15454	201 202	< 0.01	28	700	2480	4	1	27	0.01	< 10	< 10	18	< 10	116
BB15455	201 202	< 0.01	34	640	684	2	1	23	0.01	< 10	< 10	27	< 10	114
BB15456	201 202	< 0.01	29	700	898	< 2	1	35	0.01	< 10	< 10	17	< 10	104
BB15457	201 202	< 0.01	40	760	348	< 2	2	29	0.02	< 10	< 10	27	< 10	122
BB15458	201 202	< 0.01	34	720	330	< 2	1	26	0.01	< 10	< 10	30	< 10	96
BB15470	201 202	< 0.01	88	850	694	6	1	25	< 0.01	< 10	< 10	3	< 10	1090
BB15545	201 202	< 0.01	10	640	2730	24	1	56	< 0.01	< 10	< 10	2	< 10	366
BB15546	201 202	0.01	8	640	2440	8	< 1	66	< 0.01	< 10	< 10	4	< 10	216
BB15547	201 202	< 0.01	31	630	1385	8	1	37	< 0.01	< 10	< 10	1	< 10	1020
BB17300	201 202	< 0.01	43	620	38	< 2	2	15	0.01	< 10	< 10	34	< 10	120
BB17301	201 202	< 0.01	35	960	24	< 2	3	22	0.04	< 10	< 10	35	< 10	102
BB17302	201 202	< 0.01	37	920	22	< 2	3	17	0.05	< 10	< 10	41	< 10	78
BB17303	201 202	< 0.01	1	160	56	< 2	< 1	10	< 0.01	< 10	< 10	4	< 10	8
BB17304	201 202	0.01	4	730	4340	18	< 1	25	< 0.01	< 10	< 10	7	< 10	102
BB17305	201 202	0.01	33	770	802	2	1	37	< 0.01	< 10	< 10	11	< 10	608
BB17306	201 202	< 0.01	73	770	420	< 2	8	19	< 0.01	< 10	< 10	35	< 10	1230
BB17307	201 202	< 0.01	96	690	76	< 2	4	17	< 0.01	< 10	< 10	18	< 10	1020
BB17308	201 202	0.01	34	710	356	< 2	2	17	< 0.01	< 10	< 10	12	< 10	452
BB17309	201 202	< 0.01	13	410	118	< 2	1	10	< 0.01	< 10	< 10	9	< 10	356
BB17310	201 202	< 0.01	43	660	174	< 2	2	29	< 0.01	< 10	< 10	10	< 10	772
BB17311	201 202	< 0.01	29	640	86	< 2	4	25	< 0.01	< 10	< 10	22	< 10	404
BB17312	201 202	< 0.01	27	790	44	2	5	33	0.01	< 10	< 10	30	< 10	260
BB17313	201 202	0.01	32	590	20	< 2	3	34	0.02	< 10	< 10	19	< 10	396
BB17314	201 202	< 0.01	65	500	42	< 2	6	23	0.01	< 10	< 10	28	< 10	636
BB17315	201 202	< 0.01	74	740	294	< 2	6	21	< 0.01	< 10	< 10	25	< 10	972
BB17316	201 202	< 0.01	117	760	190	< 2	5	28	< 0.01	< 10	< 10	16	< 10	940
BB17317	201 202	< 0.01	66	420	140	< 2	12	23	0.07	< 10	< 10	54	< 10	832

CERTIFICATION: Hank Bickler



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## CERTIFICATE OF ANALYSIS A9743367

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
BB17318	201	202	1.2	0.86	70	110	< 0.5	< 2	0.01	< 0.5	4	8	16	2.38	< 10	< 1	0.24	30	0.07	115	3
BB17319	201	202	3.2	0.71	102	210	< 0.5	< 2	0.05	< 0.5	6	4	25	2.66	< 10	< 1	0.49	30	0.04	195	3
BB17320	201	202	1.8	0.80	112	210	< 0.5	< 2	0.03	< 0.5	7	16	28	6.23	< 10	< 1	0.21	30	0.05	290	8
BB17321	201	202	< 0.2	1.43	20	210	< 0.5	< 2	0.35	< 0.5	16	72	30	2.75	< 10	< 1	0.11	20	0.76	665	< 1
BB17322	201	202	< 0.2	1.95	76	250	< 0.5	< 2	0.28	< 0.5	20	98	27	3.92	< 10	< 1	0.08	10	1.01	780	1
BB17323	201	202	< 0.2	1.28	44	630	< 0.5	< 2	0.26	< 0.5	9	37	22	2.63	< 10	< 1	0.08	20	0.48	430	< 1
BB17324	201	202	< 0.2	1.09	46	120	< 0.5	< 2	0.17	< 0.5	13	27	21	2.66	< 10	< 1	0.11	30	0.41	285	1
BB17325	201	202	< 0.2	1.38	28	190	< 0.5	< 2	0.18	< 0.5	17	34	23	2.86	< 10	< 1	0.17	60	0.43	575	< 1
BB17326	201	202	< 0.2	1.20	32	110	< 0.5	< 2	0.17	< 0.5	10	36	13	2.36	< 10	< 1	0.14	50	0.51	480	1
BB17327	201	202	< 0.2	2.12	22	210	0.5	< 2	0.28	< 0.5	19	153	22	2.73	< 10	< 1	0.14	60	1.82	680	1
BB17328	201	202	< 0.2	1.16	20	320	0.5	< 2	0.42	0.5	10	33	15	1.69	< 10	< 1	0.16	40	0.40	700	1

CERTIFICATION: \_\_\_\_\_

*[Handwritten Signature]*



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### A9743367

SAMPLE	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
BB17318	201	202	0.01	10	290	116	< 2	1	37	< 0.01	< 10	< 10	13	< 10	204
BB17319	201	202	0.01	13	680	454	4	1	75	< 0.01	< 10	< 10	4	< 10	274
BB17320	201	202	0.03	28	2080	202	4	1	42	< 0.01	< 10	< 10	10	< 10	366
BB17321	201	202	< 0.01	58	390	28	< 2	5	15	0.04	< 10	< 10	33	< 10	82
BB17322	201	202	< 0.01	85	420	22	< 2	8	18	0.03	< 10	< 10	49	< 10	116
BB17323	201	202	< 0.01	35	570	12	< 2	4	14	0.01	< 10	< 10	33	< 10	82
BB17324	201	202	0.01	38	810	52	< 2	1	18	0.03	< 10	< 10	31	< 10	230
BB17325	201	202	< 0.01	35	490	22	< 2	4	15	0.01	< 10	< 10	24	< 10	148
BB17326	201	202	< 0.01	25	510	20	< 2	3	14	0.02	< 10	< 10	31	< 10	88
BB17327	201	202	< 0.01	137	530	16	< 2	6	16	0.03	< 10	< 10	39	< 10	80
BB17328	201	202	0.01	35	730	34	< 2	3	23	0.01	< 10	< 10	21	< 10	108

CERTIFICATION: \_\_\_\_\_



# 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

Client: EXPATRIATE RESOURCES LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
P.O. BOX 4127  
WHITEHORSE, YT  
Y1A 3S9

Project: F.P. (LEAGE)  
Comments:

Page Number : 1  
Total Pages : 1  
Certificate Date: 02-OCT-97  
Invoice No. : I9744913  
P.O. Number :  
Account : MPO

## CERTIFICATE OF ANALYSIS

A9744913

SAMPLE	PREP CODE	Pb %									
BB15549	244 --	1.99									

CERTIFICATION:

*Sara Leina*



# 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: EXPATRIATE RESOURCES LTD.  
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WHITEHORSE, YT  
Y1A 3S9

Page Number : 1  
Total Pages : 1  
Certificate Date: 24-NOV-97  
Invoice No. : I9751397  
P.O. Number :  
Account : MPO

Project : F.P. (LEAGE)  
Comments:

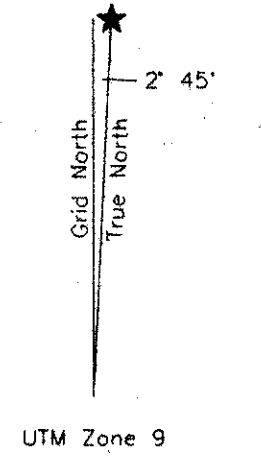
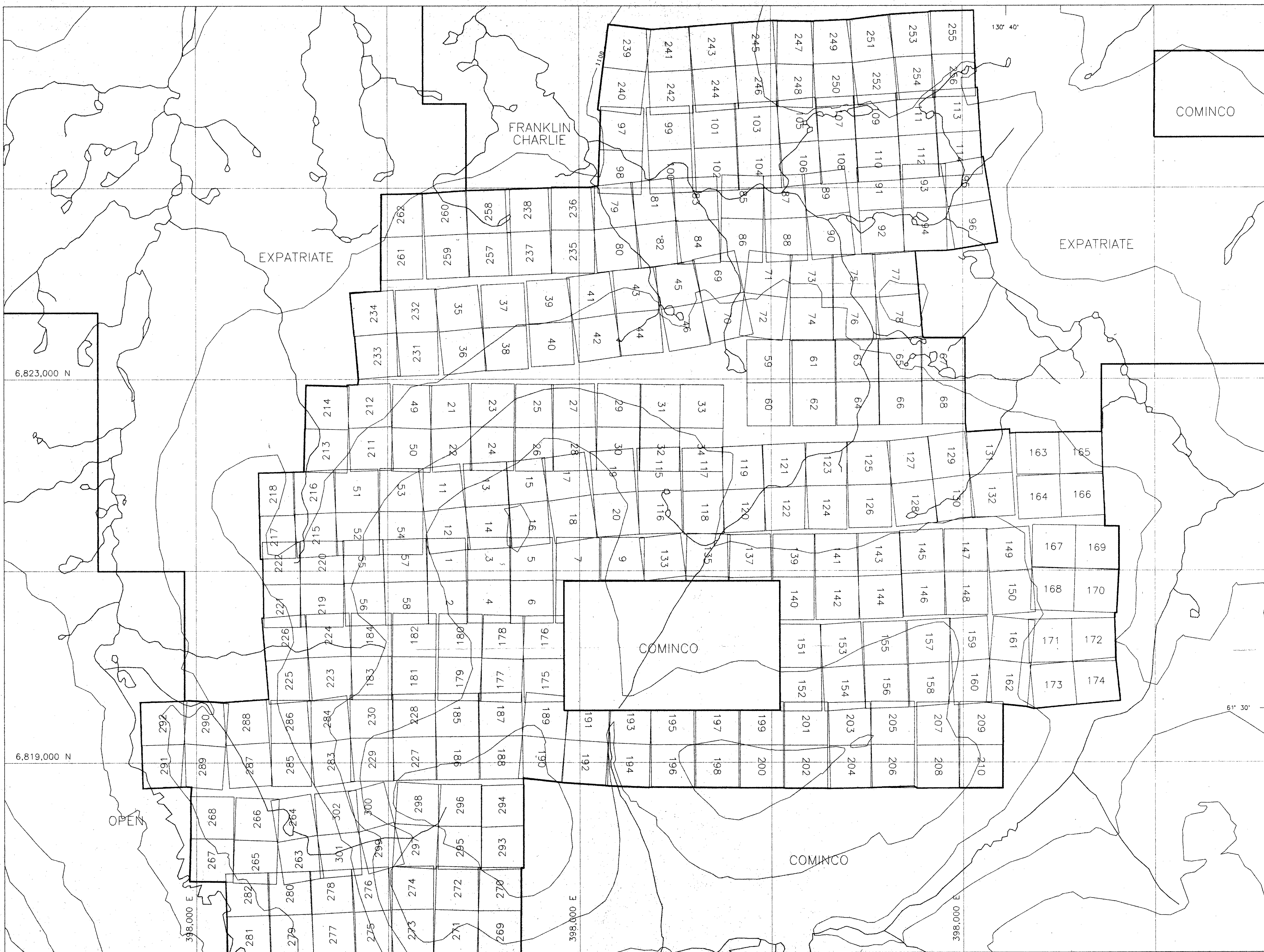
## CERTIFICATE OF ANALYSIS

A9751397

SAMPLE	PREP CODE	Au ppb FA+AA										
BB15549	244 --	450										
BB15470	244 --	90										
BB15545	244 --	560										
BB15546	244 --	240										
BB15547	244 --	90										

CERTIFICATION:

*Theresa Vank*



1880

**EXPATRIATE RESOURCES LTD.**

FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

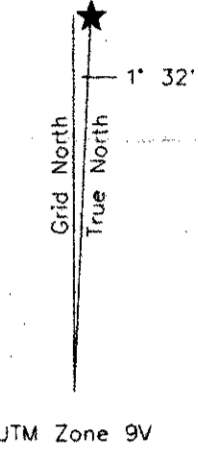
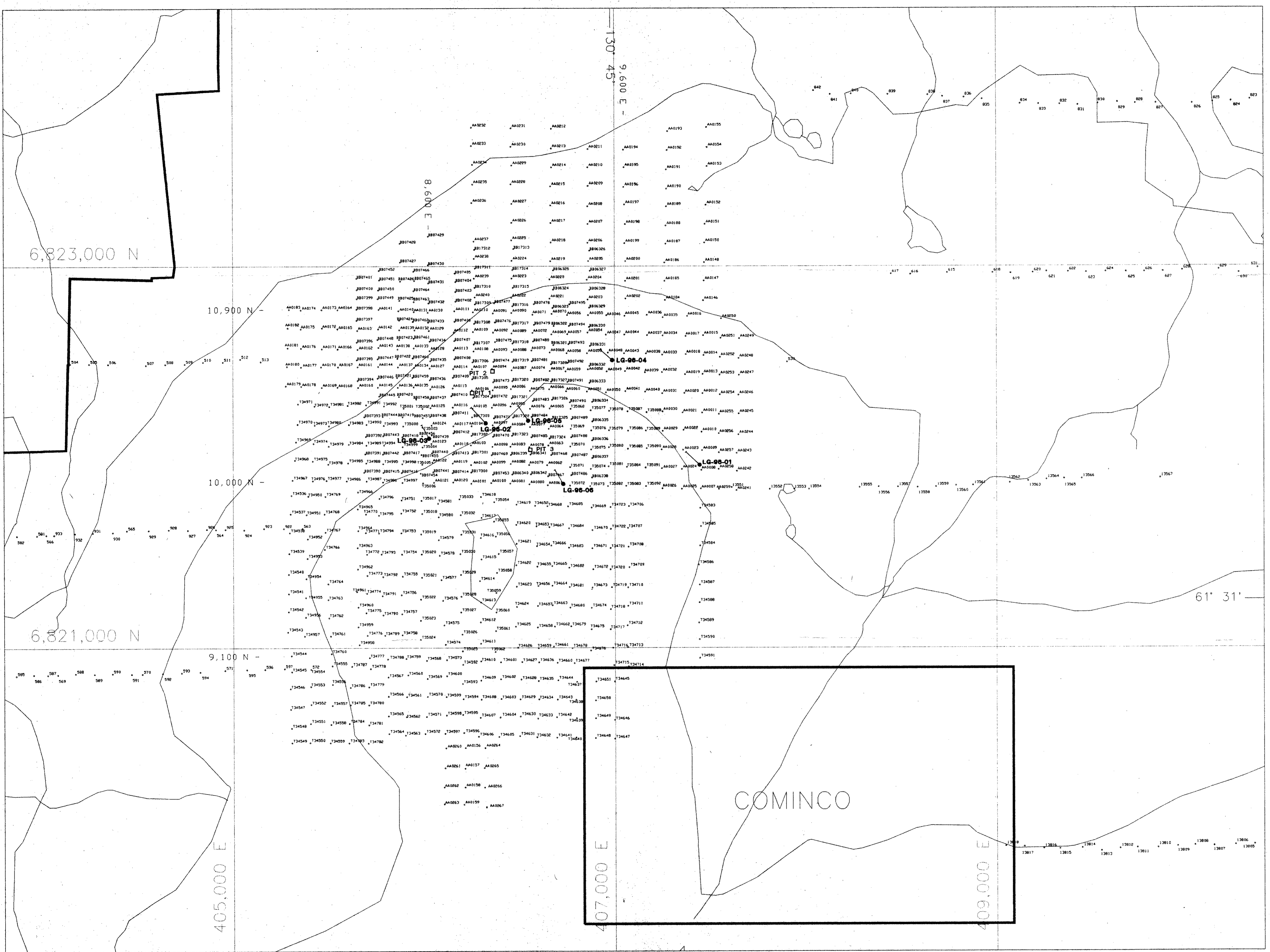
**CLAIM LOCATION**  
LEAGUE PROPERTY

SCALE 1:20,000  
0 100 200 300 400 500m

DRAWN/REVISED BY: AB PROJECT: FP  
FILE: FP\LEAG\ACAD97\LE-CLLOC.DWG DATE: DECEMBER, 1997

DIAND - YUKON REGION, LIBRARY





- Sample location with number  
All numbers prefixed with BB  
unless otherwise specified
- PIT 2 1997 hand pit location
- LG-96-01 1996 diamond drill hole location

093817

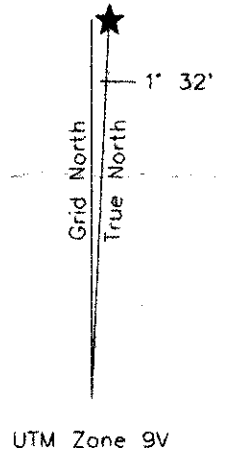
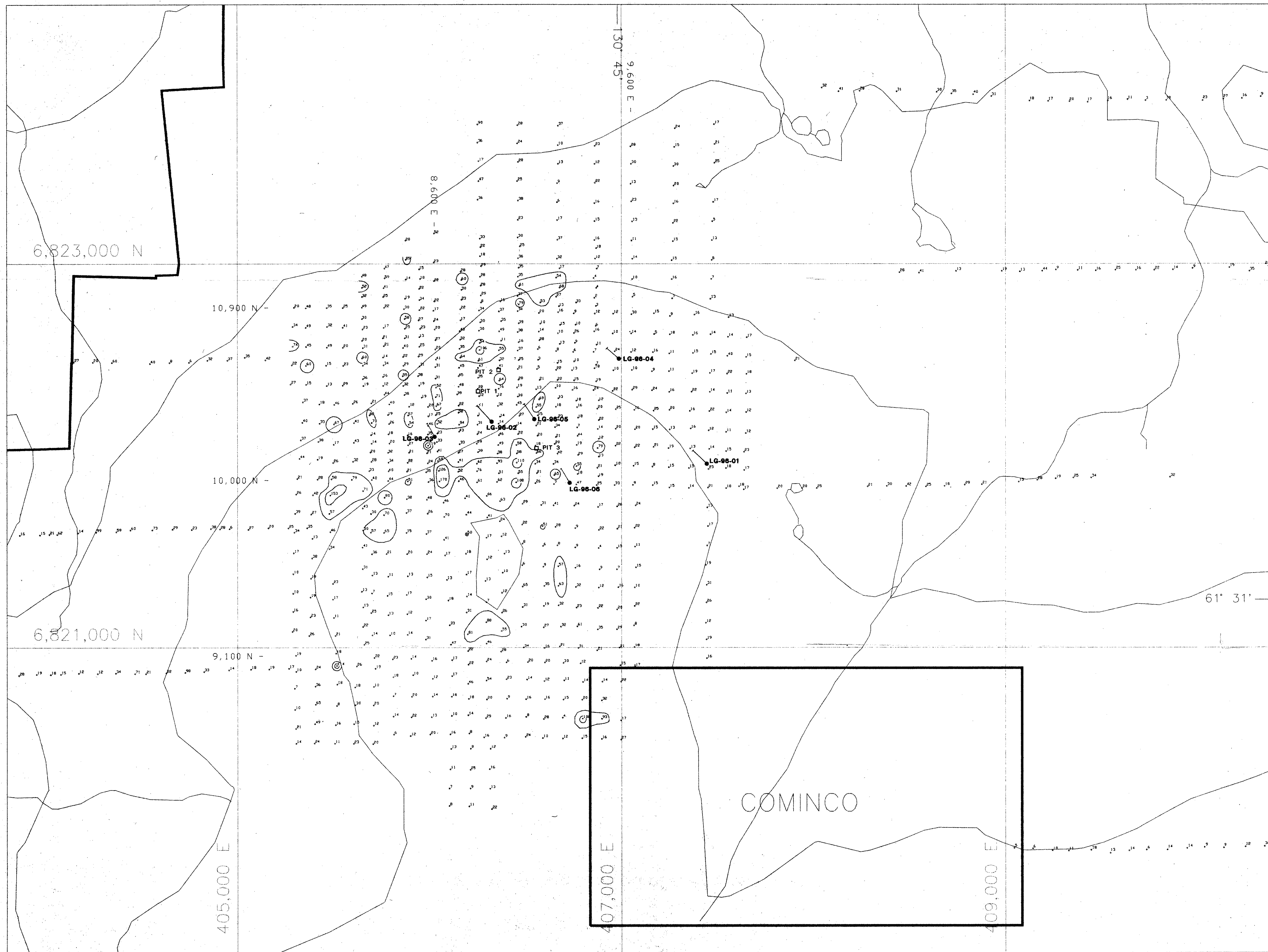
**EXPATRIATE RESOURCES LTD.**

FIGURE 6  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SAMPLE LOCATION**  
LEAGUE PROPERTY.

SCALE 1:10,000  
0 100 200 300 400 500m

DRAWN/REVISED BY: AB	PROJECT: FP
FILE: FP\LEAG\ACAD97\LE-SL10.DWG	DATE: DECEMBER, 1997

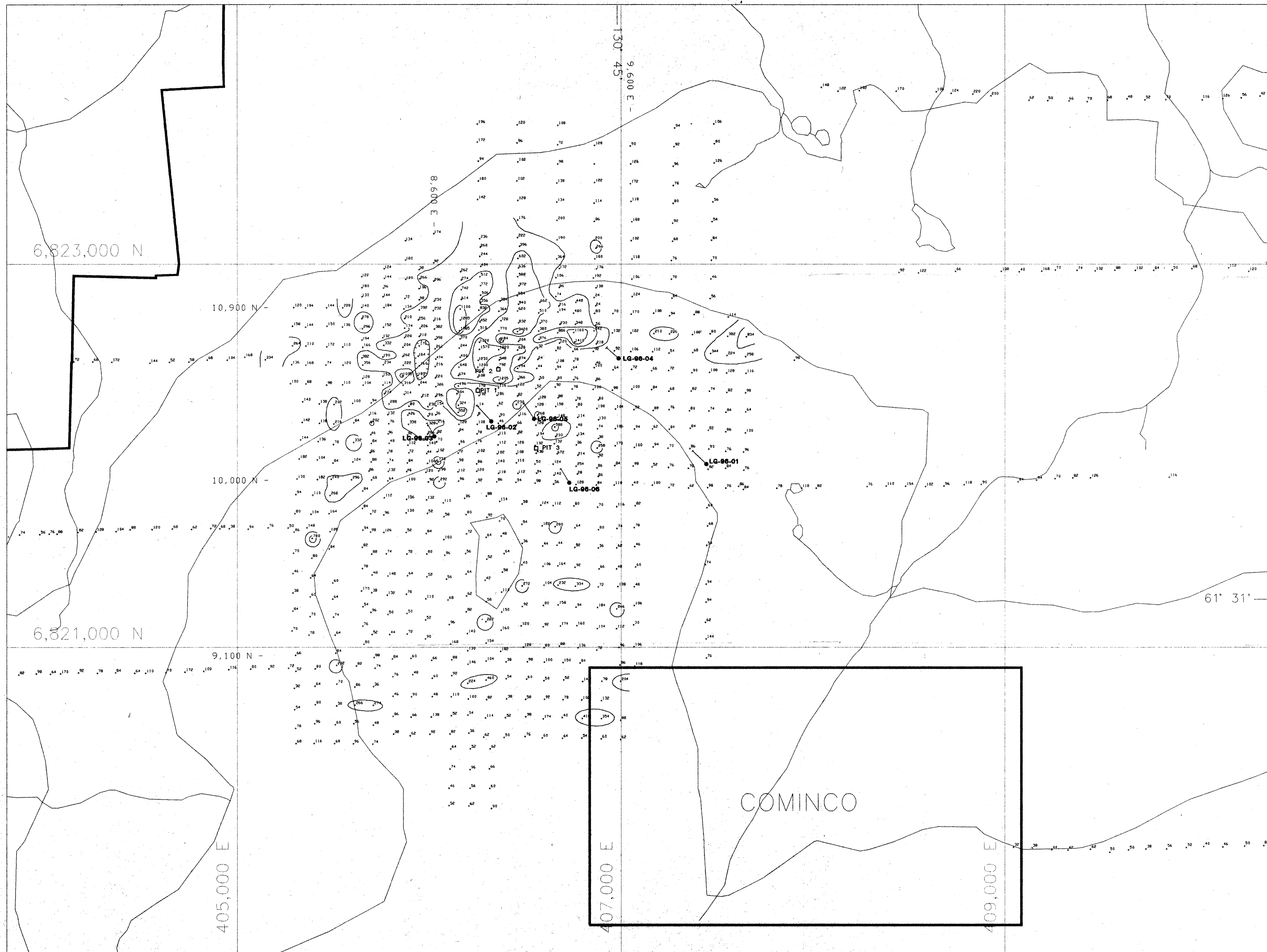


- Soil sample location with Cu value in ppm
- PIT 2 1997 hand pit location
- LG-96-01 1996 diamond drill hole location

- ≥ 200 ppm Cu
- ≥ 100 < 200 ppm Cu
- ≥ 50 < 100 ppm Cu

093817

<b>EXPATRIATE RESOURCES LTD.</b>	
FIGURE 9 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>COPPER GEOCHEMISTRY</b>	
LEAGUE PROPERTY	
SCALE 1:10,000 0 100 200 300 400 500m	
DRAWN/REVISED BY: AB	PROJECT: FP
FILE: FP\LEAG\ACAD97\LE-SL10.DWG	DATE: DECEMBER, 1997



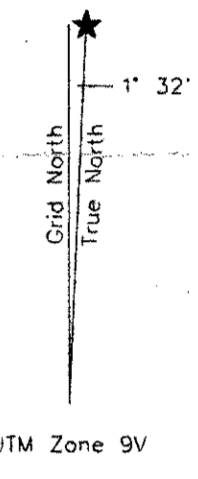
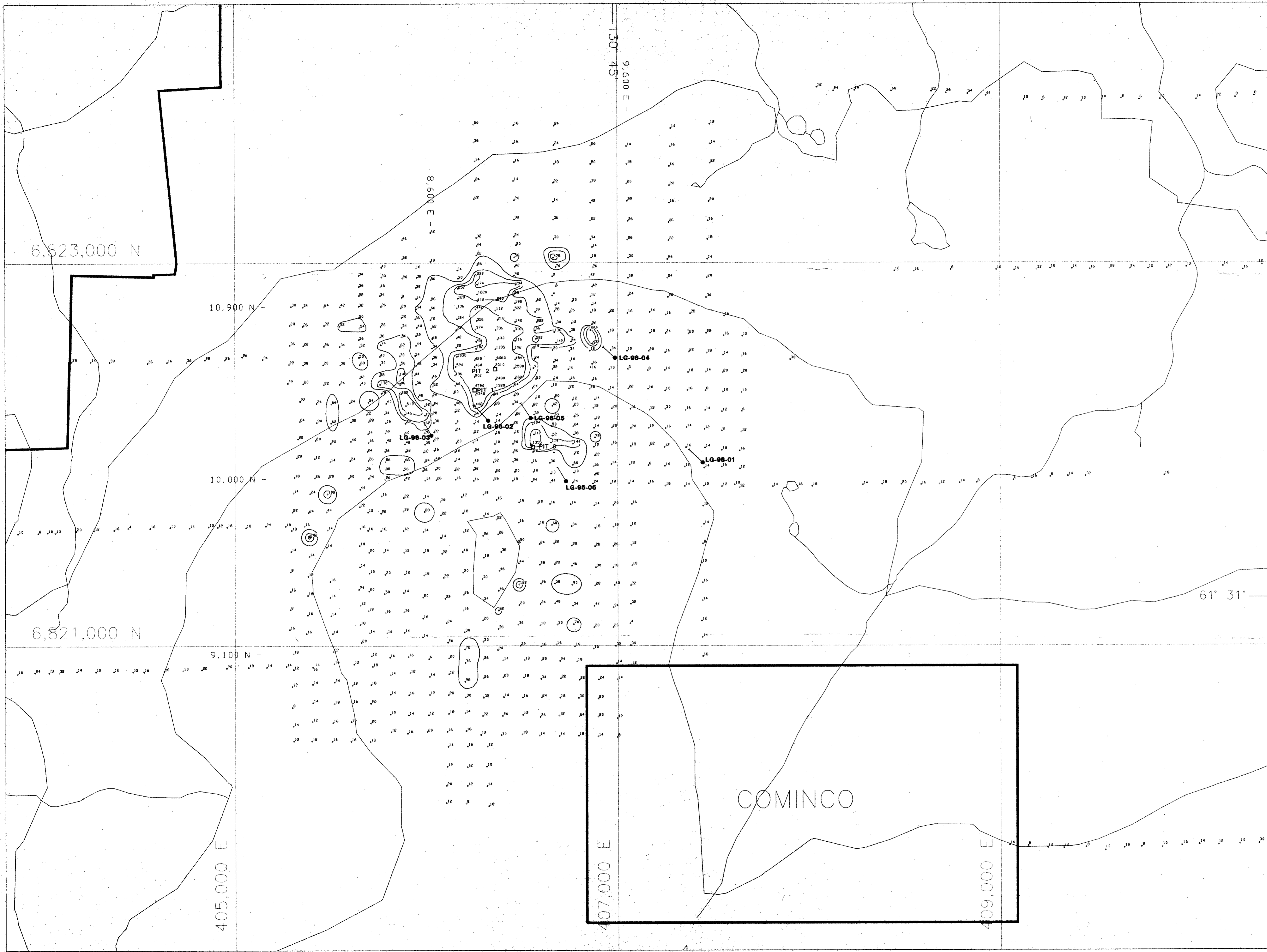
Grid North  
True North  
1' 32"  
UTM Zone 9V

- Sample location with Zn value in ppm
- PIT 2 1997 hand pit location
- LG-96-01 1996 diamond drill hole location

- ≥ 1000 ppm Zn
- ≥ 500 < 1000 ppm Zn
- ≥ 200 < 500 ppm Zn

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<b>EXPATRIATE RESOURCES LTD.</b>	
FIGURE 8 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>ZINC GEOCHEMISTRY</b>	
LEAGUE PROPERTY	
SCALE 1:10,000 0 100 200 300 400 500m	
DRAWN/REVISED BY: AB FILE: FP\LEAG\ACAD97\LE-SL10.DWG	PROJECT: FP DATE: DECEMBER, 1997



- Soil sample location with Pb value in ppm
- PIT 2 1997 hand pit location
- LG-96-01 1996 diamond drill hole location

- ◻ ≥ 200 ppm Pb
- ◻ ≥ 100 < 200 ppm Pb
- ◻ ≥ 50 < 100 ppm Pb

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<b>EXPATRIATE RESOURCES LTD.</b>	
FIGURE 7 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>LEAD GEOCHEMISTRY</b>	
LEAGUE PROPERTY	
SCALE 1:10,000 0 100 200 300 400 500m	
DRAWN/REVISED BY: AB	PROJECT: FP
FILE: FP\LEAG\ACAD97\LE-SL10.DWG	DATE: DECEMBER, 1997